

School voor Educatieve Studies

Educatieve master in de gezondheidswetenschappen

Masterthesis

Evaluatie van een beoordelingstool voor het beoordelen van competenties in het hoger onderwijs

Jenthe Kowalewski

Scriptie ingediend tot het behalen van de graad van Educatieve master in de gezondheidswetenschappen

PROMOTOR:

Prof. dr. Kris JANSSENS

De transnationale Universiteit Limburg is een uniek samenwerkingsverband van twee universiteiten in twee landen: de Universiteit Hasselt en Maastricht University.



 $\frac{2024}{2025}$



School voor Educatieve Studies

Educatieve master in de gezondheidswetenschappen

Masterthesis

Evaluatie van een beoordelingstool voor het beoordelen van competenties in het hoger onderwijs

Jenthe Kowalewski

Scriptie ingediend tot het behalen van de graad van Educatieve master in de gezondheidswetenschappen

PROMOTOR:

Prof. dr. Kris JANSSENS

Reading between the lines of the rubric

Exploring biomedical students' experiences with rubric use during internships at Hasselt University

Jenthe Kowalewski & Kris Janssens

School of Educational Studies, Hasselt University, Hasselt, Belgium

August 11, 2025

Abstract

Internships are increasingly recognized as critical components of higher education, offering students opportunities to integrate academic knowledge with professional practice. In biomedical sciences, internships span multiple stages, transitioning students from guided learning to independent research. Given the complexity of internship learning, there is growing interest in structured evaluation tools such as rubrics. This study investigated how internship evaluation rubrics are used and experienced by students enrolled in the biomedical sciences program at Hasselt University in Belgium. A mixed-methods research design was employed, combining a systematic literature review, a student survey (N = 40), and two focus group sessions with both students and supervisors. The research focused on four interrelated dimensions of rubric function: clarity of expectations, support for self-regulated learning, quality of feedback, and perceived fairness. The literature review confirmed that rubrics, when well-designed and contextually implemented, support student learning by clarifying performance standards, enhancing transparency, and promoting reflective practice. However, vague descriptors and bundled criteria were found to hinder interpretation and consistency. Survey results indicated that while most students viewed the rubric as helpful for orientation and reflection, nearly half reported insufficient explanation of the rubric at the start of their internship. Focus group findings confirmed this variability in communication, with some students only discovering the rubric during the course of the internship. Both students and supervisors highlighted interpretive challenges, especially where rubric items combined multiple competencies. This affected the perceived fairness and transparency of the evaluation process. Feedback practices were also inconsistent: while some students received structured, rubric-based discussions, others described brief verbal interactions without written documentation. The lack of formal feedback was perceived as a barrier to effective learning. Although students generally valued the rubric's potential to support goal setting and self-monitoring, some expressed concern that their developmental progress was not adequately reflected in their final scores. Supervisors acknowledged that expectations increase throughout the internship trajectory, but noted that this progression was not always clearly communicated. Despite these challenges, students reported that the rubric provided a helpful framework for structuring their development, especially when accompanied by timely and constructive feedback. The triangulated findings suggest that rubrics are most effective when embedded in a transparent, dialogical, and formative assessment culture. This study contributes empirical insights into how rubrics function in a real-world university context and highlights the importance of structured communication and consistent interpretation. While the focus on one academic program may limit generalizability, the findings offer transferable implications for rubric use in similar internship-based curricula. The strength of this study lies in its integration of literature, student voice, and educator input, offering a robust foundation for improving internship assessment practices in higher education.

Abstract (Nederlands)

Stages worden steeds meer erkend als een cruciaal onderdeel van het hoger onderwijs, omdat ze studenten in staat stellen om academische kennis te koppelen aan praktijkervaring. Binnen de opleiding biomedische wetenschappen aan de Universiteit Hasselt doorlopen studenten verschillende stagemomenten, waarbij ze evolueren van begeleid leren naar zelfstandig wetenschappelijk werken. In het licht van deze complexiteit groeit de belangstelling voor gestructureerde evaluatie-instrumenten, zoals rubrics. Deze studie onderzocht hoe rubrics worden gebruikt en ervaren door studenten in de opleiding biomedische wetenschappen aan de Universiteit Hasselt. Hiervoor werd een mixedmethods onderzoeksopzet gehanteerd, bestaande uit een systematische literatuurstudie, een studentenbevraging (N = 40), en twee focusgroepen met studenten en supervisors. Vier centrale functies van de rubric werden onderzocht: duidelijkheid van verwachtingen, ondersteuning van zelfgestuurd leren, kwaliteit van feedback, en ervaren eerlijkheid. De literatuurstudie bevestigde dat rubrics, mits goed ontworpen en contextueel ingebed, bijdragen aan het verduidelijken van prestatieverwachtingen, het verhogen van transparantie en het stimuleren van reflectief leren. Tegelijkertijd bleken vage formuleringen en samengevoegde criteria een obstakel voor consistente interpretatie. Uit de enquête bleek dat de meeste studenten de rubric nuttig vonden als richtlijn en reflectietool, maar bijna de helft gaf aan dat de rubric bij de start van de stage onvoldoende werd toegelicht. In de focusgroepen werd deze inconsistentie bevestigd: sommige studenten maakten pas tijdens de stage kennis met de rubric. Zowel studenten als begeleiders rapporteerden interpretatieproblemen, vooral wanneer meerdere competenties binnen één criterium waren gecombineerd. Dit had invloed op de ervaren eerlijkheid en transparantie van de evaluatie. De feedbackpraktijken bleken eveneens sterk te variëren: sommige studenten kregen uitgebreide feedback op basis van de rubric, terwijl anderen slechts een kort mondeling gesprek kregen zonder schriftelijke neerslag. Het ontbreken van formele feedback werd beschouwd als een hinderpaal voor duurzame leerprocessen. Hoewel studenten over het algemeen de rubric waardeerden als hulpmiddel bij het formuleren van leerdoelen en het opvolgen van hun ontwikkeling, gaven sommigen aan dat hun persoonlijke groei onvoldoende tot uiting kwam in de eindbeoordeling. Begeleiders bevestigden dat de verwachtingen stijgen naarmate de stage vordert, maar merkten op dat deze opbouw niet altijd duidelijk gecommuniceerd werd. Ondanks deze uitdagingen beschouwden studenten de rubric als een nuttig kader, zeker wanneer dit gepaard ging met constructieve en tijdige feedback. De triangulatie van bevindingen toont aan dat rubrics het meest effectief zijn binnen een transparante, dialogische en formatieve evaluatiecultuur. Deze studie biedt empirisch inzicht in de toepassing van rubrics in een reële universitaire context en onderstreept het belang van duidelijke communicatie en consistente interpretatie. Hoewel de studie focust op één academisch programma, bieden de bevindingen waardevolle inzichten voor andere opleidingen met stagestructuren in het hoger onderwijs.

Keywords: Rubric-based assessment, student perceptions, internships, higher education, self-regulated learning, formative feedback, Hasselt University.

1. Introduction

In recent decades, internships have become a cornerstone of higher education programs worldwide, providing students with structured opportunities to integrate academic knowledge with hands-on, practical experiences (Jackson, 2015; Smith et al., 2019). Particularly in disciplines such as biomedical sciences, internships function as transitional learning environments where students evolve from passive recipients of information to active participants research and professional practice (Rowe et al., 2012). These placements foster the development of technical competencies, critical thinking, and problem-solving skills, while also helping students explore career pathways and build professional identities (Patrick et al., 2008; Kolb, 1984).

internships grow in scope significance, the demand for effective assessment methods that reflect the complexity of workplace learning increased. Traditional grading approaches often fall short in capturing the nuanced performance and development of students in real-world contexts (Boud & Falchikov, 2007). Consequently, educational institutions are increasingly adopting structured evaluation tools, such as rubrics, to ensure transparency, consistency, and developmental feedback during internship assessment (Brookhart, 2013; Reddy & Andrade, 2010).

A rubric is a scoring guide that articulates expectations for an assignment by listing criteria and describing levels of quality for each (Andrade, 2005). In higher education, rubrics have gained widespread use due to their ability to communicate standards, enhance grading objectivity, and promote student self-regulation (Panadero Jonsson, 2013; Hafner & Hafner, 2003). Empirical studies suggest that rubrics increase fairness, reduce anxiety, and help students understand what is required for success (Jonsson, 2014; Panadero, 2017). When introduced early and used regularly,

rubrics encourage goal setting, reflective thinking, and deeper learning (Panadero & Romero, 2014; Zimmerman, 2002). In addition, rubrics support formative assessment practices by guiding discussions between students and educators, enabling timely and actionable feedback (Carless & Boud, 2018; Fraile et al., 2017).

However, despite their pedagogical value, rubrics are not without limitations. Vague or generic descriptors such as "adequate" or "emerging" can lead to confusion and subjective interpretation (Dawson, 2017; Sadler, 2009). When multiple learning objectives are grouped under one criterion, students may struggle to discern which component influenced their score (Jonsson & Svingby, 2007; Panadero et al., 2013). Furthermore, inconsistencies instructors interpret and apply rubrics may reduce inter-rater reliability and impact students' perceptions of fairness (Rezaei & Lovorn, 2010; Brookhart, 2018).

Although rubrics are increasingly used to make internship evaluations more transparent and consistent, little is known about how students actually experience these assessments. Prior research suggests that unclear rubric structures inconsistent application by supervisors can to confusion, demotivation, perceptions of unfairness. Moreover, within the biomedical sciences program at Hasselt University (UHasselt), there is limited insight into how rubrics are used as learning and whether they succeed in tools, supporting student development throughout the internship trajectory. This gap in understanding forms the starting point of the present study.

The biomedical sciences program at UHasselt integrates three internships into its curriculum, designed to gradually foster student independence and professional growth. Students undertake a five-week internship during the third year of the

bachelor's program, a nine-week junior internship in the first master's year, and a 28-week senior internship in the final master's year. Across these internships, students are assessed using standardized rubrics that evaluate key competencies such as planning, independence, teamwork, accuracy, and communication. While the rubric structure is consistent, its application evolves with the complexity of the internship stage. Rubrics serve both summative and formative purposes, including a mandatory midterm evaluation during the junior and senior internships.

Given their central role in assessment and learning within the internship pathway, rubrics warrant closer examination from the learner's perspective. Existing literature offers insight into how rubrics function in general educational contexts, but little is known about how students in the biomedical sciences perceive, interpret, and use rubrics during internships. Understanding their experiences is essential for optimizing feedback processes, improving clarity of expectations, and supporting self-regulated learning. While a single focus group was also conducted with supervisors, its purpose was to contextualize student responses, not to assess supervisor practices directly.

This study explores how rubric-based internship evaluation is experienced by students in the biomedical sciences program at Hasselt University. A multimethod approach was adopted to address this aim. First, a systematic literature review synthesizes existing evidence on rubric use in higher education. Second, a student survey collected both quantitative and qualitative data regarding rubric use during the junior and senior internships. Finally, two focus groups, one with students and one with supervisors, provided in-depth perspectives on the students' experiences of rubric application. Together, these methods aim to identify strengths, challenges, and opportunities improvement within the current assessment framework, contributing to a more transparent, equitable, and student-centered evaluation process.

2. Methodology

2.1 Nature and scope of the research

This study employed a qualitative research design supported by descriptive quantitative data. The objective was to explore how students experience rubric-based assessment during internships in the biomedical sciences program at Hasselt University. Rather than aiming for statistical generalization, the study focused on gaining in-depth insights to inform improvements in the design, communication, and application of the current evaluation framework.

2.2 Internship structure and evaluation tool

The biomedical sciences curriculum at Hasselt University includes three mandatory internships: a five-week internship in the third year of the bachelor's program, a nine-week junior internship in the first year of the master's program, and a 28-week senior internship in the second master's year. These internships are designed to gradually develop student independence, from guided introduction in the bachelor phase to full scientific autonomy in the senior phase.

Each internship is supervised by a daily who day-to-day supervisor oversees progress and provides detailed feedback. A principal (or institutional) supervisor ensures the scientific quality of the project and is responsible for the formal evaluation. For external internships, an institutional supervisor from UHasselt is also involved. Senior internships additionally involve a second examiner, who follows progress and evaluates the final thesis and defense.

The assessment tool used across all internships relies on standardized rubrics introduced in 2017 and updated iteratively based on feedback. These rubrics assess student performance across several domains: the internship process, written

report, and presentation. Evaluation criteria include planning, independence, accuracy, safety, teamwork, insight, and communication, each scored on a 1–5 scale. All rubrics used for these evaluations are provided in the supplementary materials (Supplementary figure 1).

Although the rubric structure remains consistent across all stages, the interpretation of the scores changes according to the student's academic level. A unique, underlying scoring system adjusts expectations accordingly: for instance, a score of 3 in planning corresponds to a higher final grade in the bachelor internship than in the senior internship. underlying system is not visible to students or supervisors during the evaluation. Certain rubric items are weighted more heavily, and criteria exist that can trigger automatic failure if scored below a predefined threshold. After the rubric is filled in via a Qualtrics form, the system calculates a final score out of 20. Supervisors may adjust this score with justification, subject to coordinator approval. For scores below 10 or above 18 out of 20, explanatory comments are mandatory. Each rubric also includes an open feedback field for qualitative remarks.

During the junior and senior internships, a mandatory midterm evaluation conducted. Both the student and the supervisor complete the rubric independently and discuss their evaluations in a feedback meeting. The student summarizes this meeting in a short-written report. This formative moment aims to help students reflect on their development and identify growth opportunities before the final evaluation.

2.3 Systematic review

2.3.1 Search strategy

A systematic literature search was conducted to identify relevant studies on rubrics in higher education and their relationship to assessment, feedback, and

self-regulated learning. The databases ERIC and ScienceDirect were used. ERIC specializes in education-focused research, while ScienceDirect offers broader access to health and social science literature.

Searches were limited to peer-reviewed journal articles published in English between 2010 and 2025. Only primary empirical research was included. Eligible studies focused on the use of rubrics in higher education, specifically their role in assessment, feedback practices, or student learning. Studies outside the scope of higher education or those lacking empirical data were excluded.

Search terms were grouped under three key themes, self-regulated learning, rubrics, and higher education, and combined using Boolean operators. Table 1 presents the search terms used.

Table 1. Key concepts and search terms

Self-regulation	Rubric	Higher education
Self-regulation	Rubric	Higher education
Self-monitoring	Rubrics	HE
Self-directed	Marking	
learning	rubric	
Self-management	Marking grid	
	Evaluation tool	

The Boolean combinations of search terms were applied in both databases. Table 2 lists the search strings and the number of results retrieved.

2.3.2 Screening and evaluation process

The combined search yielded 379 articles. After removing duplicates, 356 unique records remained. A preliminary screening of titles and abstracts excluded 302 articles that did not meet the inclusion criteria. The remaining 54 full-text articles were assessed in detail, and 43 were excluded

Table 2. Search combinations and results

Search NO	Search terms	ERIC results	ScienceDirect results
S1	Self-regulation or self-management or self-monitoring or self-directed learning	282.374	1.000.000+
S2	Rubric or rubrics or marking rubric or marking grid or evaluation tool	129.703	1.000.000+
S3	Higher education or HE	464.748	1.000.000+
S4	S1 and S2 and S3	18	361

due to insufficient empirical data or limited relevance to rubric use in higher education. In total, 11 articles were included in the final review. The complete screening flowchart is presented in the supplementary materials (supplementary figure 2).

2.4 Survey design and distribution

To explore student perceptions of rubric use, a custom survey was developed. It included both closed Likert-scale questions (1–5) and open-ended questions, partially adapted from the Emotion and Motivation Self-Regulation Questionnaire. Two academic reviewers assessed the survey's clarity and relevance. The full list of survey questions, including both closed and openended items, is provided in supplementary table 1.

The survey was distributed via Blackboard, Hasselt University's learning platform. Participation was voluntary and anonymous. Respondents provided informed electronic consent prior to participation. students completed the survey: 20 who had finished the junior internship and 20 currently enrolled in the senior internship. Four responses from students in a pilot industrial internship were excluded due to their participation in an alternative evaluation track.

2.5 Focus group protocol and execution

To obtain qualitative insights, two semistructured focus groups were conducted. The first group consisted of five students from different stages: three from the second master's research track, one from the clinical track, and one from the first master's year. The second group included four daily supervisors and three professors involved in rubric design or evaluation.

Participants were invited via email and joined either on campus or online via Google Meet. Each session lasted approximately 60 minutes and was audio-recorded with participant consent. Written informed consent was obtained in advance (supplementary figure 3). To ensure transparency and replicability, the full protocol used for the focus group sessions is available as supplementary table 2 (students) and 3 (supervisors).

The student group discussed their familiarity with the rubric, the clarity of its expectations, and how they used feedback. The supervisor group shared their approaches to applying the rubric and challenges related to scoring consistency and interpretation.

2.6 Data analysis

Open-ended survey responses and transcripts from the focus groups were analyzed using inductive thematic analysis in NVivo 15. The analysis followed Braun and Clarke's six-phase framework, beginning with familiarization, initial coding, and subsequent theme development. Codes were generated through repeated readings of the data and iteratively organized into a

shared codebook, ensuring conceptual coherence across data sources.

To enhance intersubjectivity and reliability, coding was conducted independently by the first researcher and subsequently verified by a second researcher. Discrepancies were discussed and resolved through consensus, with revisions made to the codebook as necessary. This process ensured that themes reflected a shared interpretation rather than individual bias.

final themes emerged through abstraction and grouping of related codes and were aligned with the central research questions. For example, under the theme "Clarity of expectations communication," recurring codes included rubric introduction, student-initiated discovery, and shifting expectations. Within "Structure and interpretation of the rubric," representative codes included bundled criteria, vague descriptors, and unclear weighting. These themes provided the analytical structure for the presentation of results.

Descriptive statistics from the closed survey items were generated using Microsoft Excel. Patterns and contrasts across data sources (survey, student focus group, and supervisor focus group) were examined to develop a holistic view of rubric-related experiences within the internship program.

3. Results

This chapter presents the findings of the study in three main parts: the results of the systematic review, the student survey, and the focus group discussions. These three complementary data sources were selected to provide a comprehensive understanding of how rubrics are perceived, used, and evaluated within the context of biomedical sciences internships at UHasselt. The systematic review explores the existing literature on rubrics in higher education and identifies evidence-based practices that can inform improvements to the current assessment rubric. The survey provides a

structured, quantitative and qualitative overview of student perceptions within the UHasselt context, while the focus groups offer in-depth insights from both students and supervisors regarding their experiences and suggestions for future refinement.

The structure of the results chapter follows four recurring themes, each addressed across all three parts of the study. These themes are: (1) Clarity of expectations and communication, referring to how well rubrics communicate what is expected of students and how they are introduced; (2) structure and interpretation of the rubric, which examines the internal coherence and usability of rubric criteria; (3) feedback and evaluation practices, focusing on how rubrics support the provision and reception of feedback; and (4) monitoring of progress and student self-regulation, which explores how rubrics facilitate self-assessment and guide learning over time. These four categories were derived from the central research objectives and were informed by previous research emphasizing transparency, alignment, formative feedback, and student autonomy.

3.1 Systematic review

Rubrics are structured scoring tools used in education to outline assessment criteria and performance levels. In higher education, they are increasingly employed to enhance transparency, improve grading consistency, and promote formative learning (Jonsson & Svingby, 2007; Brookhart, 2013). Rubrics help clarify expectations for students and serve as guides for both instruction and feedback. They also encourage regulation by allowing students to assess their own progress against predefined criteria (Andrade, 2005; Panadero & Jonsson, 2013). Given these strengths, rubrics have proven particularly valuable in complex learning environments internships, where learning is often individualized and assessment can be subjective (Dawson, 2017).

To establish a theoretical foundation and understand how rubrics are applied in higher education, a systematic review of peer-reviewed literature was conducted. This review aimed to synthesize empirical findings on the effectiveness of rubrics in fostering clarity, supporting self-regulation, improving feedback, and guiding learning. The goal was to evaluate whether existing evidence could inform and support enhancements to the internship assessment rubric used at UHasselt.

3.1.1 Results of the systematic review

Clarity of expectations and communication

Several studies demonstrated that rubrics play a key role in clarifying expectations for students. Gezie et al. (2012) conducted a qualitative study with 34 social work students and found that rubrics reduced ambiguity and increased satisfaction with grading by explicitly stating what was required. Wang (2017) reported similar findings in an experimental study involving 80 Chinese English as a Foreign Language (EFL) writing students. Students perceived rubrics as essential tools that reduced uncertainty, particularly when subjectspecific knowledge was still developing. Panadero and Romero (2014), in an experimental study with 218 pre-service teachers, found that rubrics promoted fairness by making assessment criteria transparent. However, they also noted that the pressure to meet specific rubric expectations could induce performance anxiety. Karaman (2024), through a mixedmethods design with 79 teacher trainees, revealed that rubrics helped students identify performance standards and set learning goals, especially when their use was scaffolded through instructor feedback.

Structure and interpretation of the rubric

The effectiveness of rubrics largely depends on their internal design. Fraile et al. (2023) demonstrated in a quasi-experimental study with business students that rubrics clearly segmented with descriptors contributed to higher performance and better self-evaluation. However, poorly designed rubrics that bundle several learning objectives into a single criterion often cause confusion. Panadero et al. (2013), comparing rubrics and assessment scripts in a study of 85 psychology students, concluded that while rubrics enhanced learning, their prescriptive format limited student autonomy. Krebs et al. (2022) found that rubrics reduced cognitive load and improved accuracy in self-assessment only when criteria were well defined and free of vague terminology. These findings underscore the importance of specific and non-ambiguous wording in rubric design.

Feedback and evaluation practices

Karaman (2024) found that rubrics were significantly more effective when used in combination with instructor feedback. Students who received annotated rubric feedback performed better and were more engaged. Panadero and Romero (2014) similarly emphasized the importance of accompanying rubric scores with explanations. Fraile and Medina (2023) showed that co-creating rubrics with students improved both engagement and self-efficacy in a cohort of 134 management students. Miknis et al. (2020) provided a practical case from a programming course in which rubric-aligned instruction and feedback drastically reduced failure ratesfrom over 75% to 36%. Velasco-Martinez and Diaz-Barriga (2017) warned, however, that inconsistent implementation of rubrics among instructors could lead to uneven assessment practices and diminished student trust.

Monitoring of progress and student self-regulation

Several studies highlighted the role of rubrics in fostering self-regulation and autonomous learning. Fraile, Panadero, and Pardo (2017) explored rubric co-creation with 65 sport sciences students. While quantitative measures of self-regulated learning did not significantly increase, students reported greater ownership and clarity. Wang (2017) and Karaman (2024) both found that students used rubrics to monitor progress and structure their learning over time. Panadero et al. (2013) cautioned that over-reliance on rubrics without reflective tasks might lead to superficial compliance rather than deep learning. Researchers also noted the potential of digital integration: rubrics embedded in online portfolios allowed students to visualize learning trajectories and maintain continuity across learning modules.

3.1.2 Conclusion of the systematic review

This systematic review demonstrates that rubrics, when well-designed and contextually implemented, can significantly enhance student learning, performance clarity, and self-regulated behaviour in higher education. Their primary strengths lie in providing transparent expectations, facilitating consistent and constructive feedback, and promoting independent goal setting. Rubrics were especially effective when paired with instructor dialogue, used iteratively across tasks, or co-constructed with learners.

However, several challenges were identified. Rubrics that combine multiple competencies into single items obscure targeted feedback hinder meaningful interpretation. Vague descriptors such as "adequate" or "always" decrease reliability and may create performance anxiety. Moreover, inconsistencies between instructors in the application and interpretation of rubrics can undermine perceived fairness. A consistent theme across studies was the added value of pairing rubrics with written or digital feedback systems that support long-term monitoring of student progress.

In sum, the evidence suggests that rubrics work best not as static checklists, but as dynamic tools integrated into formative feedback processes. These findings provide a valuable framework for critically examining and refining the UHasselt internship rubric in the light of best practices and identified pitfalls.

3.2 Survey results

To investigate how students experienced the use of the internship assessment rubric in practice, a survey was administered to students enrolled in the junior and senior internships in biomedical sciences. The survey captured both quantitative and qualitative insights into how students used the rubric, how they perceived its clarity and structure, and how they engaged with it during feedback and reflection. In total, 40 valid responses were analysed.

Clarity of expectations and communication

This section examines how students engaged with the rubric at the start of their internship, how clearly, they understood its content, and whether they received sufficient explanation from supervisors or coordinators. Figure 1A displays the frequency with which students consulted the rubric at the beginning of their internship. Two-thirds of respondents reported referring to it often or always, suggesting that most students actively used the rubric to orient themselves. One-third engaged with it only occasionally or not at all, indicating variability in how students incorporated the tool into their early internship preparation.

The next figure (figure 1B) presents students' perceptions of the rubric's clarity. Three-quarters of the participants described the rubric as clear or very clear, while only a few found it difficult to interpret. These responses suggest that students generally understood the rubric's language and structure.

Figure 1C captures whether students felt the rubric had been adequately explained at the beginning of the internship. Half agreed that the introduction was sufficient,

whereas the other half expressed uncertainty or disagreement. These results point to inconsistent communication practices surrounding the rubric's use.

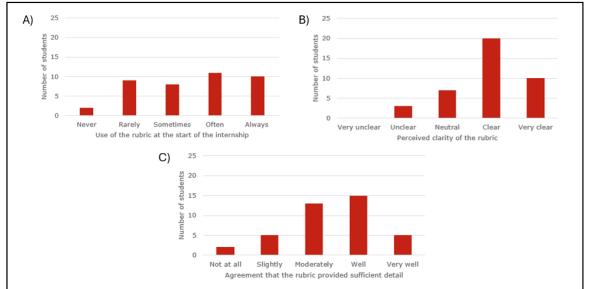


Figure 1: Student responses on clarity of expectations and communication of the rubric. Survey responses from students (n = 40) using a 5-point Likert scale. A. Extent to which students consulted and used the rubric at the start of their internship to understand expectations and evaluation criteria. B. Perceived clarity and comprehensibility of the rubric at the beginning of the internship. C. Degree to which students felt they received sufficient explanation and information about the rubric at the start of the internship.

Open responses highlight the impact of this inconsistency. Some students reported discovering the rubric independently, often without formal introduction. One student noted, "I only realised the rubric was online because I searched for it myself." Others recalled that the rubric was mentioned briefly during orientation but never contextualised.

Multiple respondents recommended improvements, including a short video or summary document, visual milestone checklists, and integration of the rubric into early supervisory meetings.

Structure and interpretation of the rubric

The following section focuses on how students interpreted the rubric structure and wording, and whether they considered it sufficiently detailed. Figure 2 presents student evaluations of the rubric's level of detail.

Approximately two-thirds agreed that the rubric provided enough information to understand what was expected, while one-quarter responded neutrally and a small number disagreed. These responses suggest that although the rubric met the needs of most students, a significant group remained unsure of how to translate its content into practice.

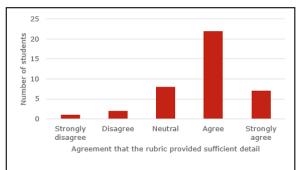


Figure 2: Student evaluation of the level of detail provided by the rubric. Survey responses from students (n = 40), measured on a 5-point Likert scale. The figure shows the level of agreement with the statement that the rubric provided enough detail to understand what was expected during the internship.

Many students pointed out that several rubric items grouped multiple competencies, such as planning and communication, within a single row. This made it difficult to determine which sub-skill influenced the score. One respondent wrote, "You get one score for two things. If I do well in one and not in the other, how am I supposed to know what to improve?" Students also criticised the use of vague or overly rigid terms like "adequate" or "always." Such wording created uncertainty about performance thresholds. One student asked, "If I make one mistake, does that mean I cannot get a 4 anymore?"

Several responses emphasised that the rubric's phrasing lacked precision and failed to capture gradations in performance. In addition, many students indicated that they did not understand how the final internship score was derived from the rubric. Some assumed that certain criteria were weighted more heavily, but no clear explanation had been given. Others questioned whether supervisors applied the rubric consistently across different internship settings.

Feedback and evaluation practices

This section explores how students used the rubric in feedback contexts, particularly during the mid-internship evaluation. Figure 3A shows how students responded to the statement that the rubric helped them reflect on their performance and adapt their

behaviour. Three-quarters responded positively, indicating that most students used the rubric as a tool for self-reflection during their internship.

Despite this generally positive view, students described significant variation in how feedback was delivered. Some received detailed feedback in structured sessions, often based directly on the rubric. Others described brief, informal discussions with little connection to the rubric criteria. One respondent remarked, "We talked for ten minutes, and then it was over, no notes, no rubric, just a general impression."

In addition, most students evaluated the feedback received during the intermediate evaluation as useful (Figure 3B). However, open-ended responses revealed that the depth and quality of this feedback varied depending on how supervisors facilitated the session.

The lack of written feedback emerged as a recurring concern. Many students indicated that they could not recall the content of verbal feedback, especially when given in a high-pressure setting.

Several avoided taking notes during the session to avoid appearing impolite. One student noted, "Everything was said in the moment. Afterwards, I couldn't remember what to work on."

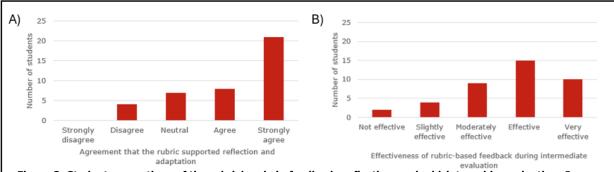


Figure 3: Student perceptions of the rubric's role in feedback, reflection, and mid-internship evaluation. Survey data from students (n = 40), collected using a 5-point Likert scale. A. Agreement with the statement that the rubric helped students reflect on their performance and adapt based on feedback received. B. Perceived effectiveness of feedback during the intermediate evaluation meeting in helping students understand their strengths and areas for improvement.

Multiple students proposed solutions to this problem. Some recommended receiving a completed version of the rubric after the evaluation. Others suggested developing a shared digital feedback tool, where both student and supervisor could document reflections and comments. These suggestions indicate that students value feedback but need more consistent and accessible ways to engage with it.

Monitoring of progress and student self-regulation

The final section focuses on how students use the rubric to guide their learning, track their development, and regulate their behaviour throughout the internship.

Figure 4 shows that most students agreed that the rubric helped them set objectives and reflect on their progress. Many reported using the rubric weekly to assess their own growth or to prepare for meetings with their supervisor.

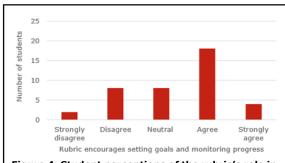


Figure 4: Student perceptions of the rubric's role in supporting progress monitoring and self-regulated learning. Survey responses from students (n = 40), measured using a 5-point Likert scale. The figure shows agreement that the rubric encouraged students to set personal learning goals and monitor their progress.

Several students expressed concern that their efforts to improve over time were not always reflected in the rubric scores. One respondent stated, "I worked much harder in the second half, but my score stayed the same." Others recommended incorporating a progress tracking section into the rubric, either as a reflective log or as a supervisor commentary field, to better capture developmental changes.

Students also shared mixed views on whether evaluation results should carry over into future internships. While some supported the idea of continuity, others worried that prior performance might bias new supervisors. A frequently proposed alternative was to allow students to write a personal development reflection at the end of each internship. This would enable them to build on earlier experiences without being constrained by previous scores. As one student explained, "Let me decide what to bring forward. That way, I stay in control of my learning process."

3.3 Focus groups results

Two focus group sessions, one with students and one with supervisors, were conducted to explore how the internship rubric is experienced in practice. These sessions provided deeper insight into how the rubric is interpreted, communicated, and used during feedback and evaluation.

Clarity of expectations and communication

Participants reflected on how the rubric was introduced at the beginning of the internship and to what extent it helped clarify expectations. Some students noted that they had easy access to the rubric and appreciated its potential to structure the internship. Others reported that it was insufficiently emphasized during the early stages. A few mentioned only discovering the rubric midway through the internship. One student recalled, "I didn't even know there was a rubric until we were a few weeks in." This inconsistency was linked to varied practices among supervisors.

Supervisors stated that they generally shared the rubric via email or uploaded it to the platform, but many did not review it in detail with students. Some believed students should take initiative to consult the rubric independently, while others saw benefits in explaining it explicitly. Supervisors varied in their practices, with

some assuming the rubric was self-explanatory.

Both groups noted that although the rubric remains the same across bachelor, junior, and senior internships, expectations shift across these levels. Students observed that these shifts were not clearly communicated. In several cases, students relied on informal peer guidance. Supervisors indicated that while they intuitively adjust expectations, these adjustments are not always explicitly conveyed.

Some students described positive experiences in which the rubric was actively discussed at the start. They indicated that these discussions helped clarify what was expected and supported their planning. One student noted, "In my senior internship, we went over the rubric in the first week, I knew exactly what to focus on."

Structure and interpretation of the rubric

Participants reflected on how they interpreted the content and structure of the rubric. Several students indicated that they appreciated the structured format, which made performance criteria more explicit. The format also facilitated comparison and discussion with supervisors. However, others noted difficulties related to specific wording and item grouping. The term "always" was frequently mentioned as problematic. Students interpreted it as overly rigid. A participant asked, "Does making one mistake mean I can't get a 4?" Supervisors acknowledged this concern and pointed out that such language could be intimidating or lead to overly cautious scoring.

Some rubric items were described as combining multiple sub-competencies, even when technically separated. For example, students noted overlap between criteria like technical execution and autonomy. These overlaps made it difficult for students to determine which specific aspects affected their evaluation. Supervisors reported

similar experiences. They noted that in some cases, a student's performance on one sub-aspect skewed the score for the entire criterion.

Another area of uncertainty concerned how rubric scores were converted into final grades. Students expressed frustration over a lack of transparency in how numeric scores were calculated. Some were unsure whether all items were weighted equally. Supervisors confirmed that explanations of the scoring process were not always detailed and suggested that more transparency could help manage student expectations.

In contrast to these challenges, both students and supervisors valued the rubric's role in making evaluation more systematic. Students reported that the rubric allowed them to see where they stood and helped them set concrete goals. Supervisors highlighted its usefulness in team-based evaluations and when comparing student performance over time.

Feedback and evaluation practices

Participants shared their experiences with feedback during the internship, especially in the context of the mid-internship evaluation. Many students found this evaluation moment helpful and described it as a moment to reflect and adjust. Some students described a detailed, collaborative evaluation process in which the rubric was discussed item by item. One participant explained, "We went through the rubric together, and I could respond to their comments, it was a real dialogue."

Students also reported considerable variation in how these evaluations were conducted. Some evaluations lasted only a few minutes and did not reference the rubric directly. Supervisors confirmed that the format and depth of evaluation differed depending on time constraints individual habits. Some focused more on overall impressions, while others adhered closely to rubric structure.

The need for written feedback was highlighted across both focus groups. Students expressed difficulty recalling verbal feedback, particularly when given under time pressure or emotional stress. One student noted, "I really wanted something to take with me, even just a bullet list." Supervisors generally expected students to take notes but acknowledged that formalizing the process could increase clarity and accountability. Some supported introducing a shared digital template to summarize feedback.

Feedback tone and framing were also discussed. Students indicated that feedback was most helpful when phrased constructively and delivered respectfully. Supervisors emphasized the importance of building a positive rapport and avoiding feedback that felt punitive. They described how the rubric could serve as a neutral structure to facilitate constructive dialogue.

Monitoring of progress and student self-regulation

Participants discussed the extent to which the rubric supported learning and progress monitoring. Some students reported actively using the rubric throughout the internship to guide self-reflection and goal setting. One student stated, "I used the rubric as a checklist, what do I want to do better next week?" Others used the rubric only at formal evaluation points.

Supervisors observed variation in student engagement with the rubric. While some students took ownership of their learning and used the rubric proactively, others needed more encouragement. Several participants noted that a clearer framework for tracking progress might support less independent students.

Students reported that their efforts to improve were not always visible in the final score. They described investing more time or refining specific skills without seeing changes in their evaluation. Supervisors responded that expectations rise with each internship and that maintaining the same rubric score can reflect growth. However, this logic was not always communicated.

Participants discussed whether feedback from previous internships should be shared with future supervisors. Some students saw this as helpful for continuity, while others feared being judged based on past performance. Supervisors expressed similar concerns. One said, "If I know someone struggled last time, I might look for it again," while another preferred a clean slate. Multiple participants supported a student-authored reflection as compromise, allowing students to carry forward relevant insights while framing their own narrative.

The focus group results describe varied experiences with the rubric and reveal both practical challenges and opportunities for enhancement. Students and supervisors highlighted inconsistencies in communication, evaluation practices, and interpretation but also emphasized the rubric's role in promoting structure, dialogue, and goal-directed learning.

An integrated overview of the key findings across the literature review, student survey, and focus group discussions is presented in table 3. This visual summary highlights how the four central themes emerged across all data sources.

4. Discussion

This study aimed to examine how rubric-based assessment is experienced by students during internships within the biomedical sciences curriculum at Hasselt University. Building on the observation that rubrics play a central role in both summative and formative evaluation across all internship phases, the study focused on how students interpret, engage with, and use rubrics in practice.

Table 3: Overview of key findings across methods

Theme	Literature review	Survey findings	Focus group insights
Clarity of	Rubrics clarify expectations when	50% felt rubric was not clearly	Many students only discovered the
expectations and	transparently introduced (Gezie et	introduced; 33% rarely consulted it	rubric mid-internship; supervisors
communication	al., 2012; Panadero & Romero,	early	varied in whether they explicitly
	2014)		introduced it
Structure and	Vague language and bundled	Some criteria seen as too broad or	"Always" perceived as unrealistic;
interpretation of	criteria limit clarity (Dawson,	vague; confusion about weighting	unclear scoring logic; supervisors
the rubric	2017; Panadero et al., 2013)		acknowledged challenges with
			overlapping criteria
Feedback and	Rubrics most effective when	Mixed experiences with feedback	Some supervisors offered detailed
evaluation	paired with detailed feedback and	depth; lack of written feedback	sessions; others provided short
practices	dialogue (Carless & Boud, 2018;	noted	verbal impressions; shared concern
	Fraile & Medina, 2023)		about lack of documentation
Monitoring of	Rubrics support self-regulated	Most used rubric for goal-setting	Supervisors note that constant
progress and	learning, especially when	and self-reflection; frustration over	scores can reflect growth, but this is
self-regulation	embedded in feedback cycles	unchanged scores despite	not always communicated; students
	(Zimmerman, 2002; Panadero,	improvement	suggest progress-tracking fields or
	2017)		reflective components

Drawing on insights from a systematic literature review, a student survey, and two focus groups, this research explored how effectively the rubric supports clarity of expectations, self-regulated learning, constructive feedback, and perceptions of fairness throughout the internship trajectory.

The results suggest that while rubrics are broadly valued by students, several practical and structural barriers limit their potential. At the same time, there are clear opportunities for improving how rubrics are introduced, interpreted, and applied.

Clarifying expectations and fostering communication

A consistent theme across all data sources is that rubrics offer substantial benefits in clarifying expectations, if introduced and explained appropriately. The systematic review that rubrics confirmed help demystify assessment standards and when transparently promote fairness implemented (Gezie et al., 2012; Panadero & Romero, 2014). Survey results supported this conclusion, with a majority of students agreeing that the rubric provided them with clear guidance during their internship. Focus group participants also acknowledged the rubric's potential in this regard, particularly when it was introduced at the beginning of the internship.

However, the results also revealed that this clarity is not guaranteed. Nearly half of the

survey respondents felt the rubric was not adequately explained, and several students in the focus groups reported discovering the partway rubric only through internship. Supervisors often assumed that students would review the rubric independently, but this hands-off approach contributed to inconsistent experiences. These findings echo previous research highlighting the importance of early, guided discussions of rubric content (Panadero & Jönsson, 2013).

To address this gap, institutions should consider embedding structured rubric discussions into the start of each internship, potentially supported by visual aids, summary documents, or brief instructional videos. These tools could help ensure that all students begin with the same baseline understanding of expectations.

Interpreting and using the rubric effectively

The structure and wording of rubrics significantly affect how students and supervisors interpret and apply them. Findings from the systematic review emphasized the importance of well-segmented descriptors and the dangers of vague or bundled criteria (Fraile et al., 2023; Panadero et al., 2013). These issues were echoed in both the survey and focus group data, where students voiced frustration about unclear terminology and overlapping competencies.

Students frequently mentioned that they were unsure how specific rubric items contributed to their overall score, and they expressed doubts about whether supervisors applied the rubric consistently. Supervisors, in turn, admitted to difficulties interpreting certain descriptors and to personal differences in scoring styles. While the rubric was appreciated for its structure, practical application its revealed interpretive challenges that reduced its perceived fairness.

These findings highlight the need for calibration sessions among supervisors, during which they can align their interpretations and discuss ambiguous criteria. Additionally, students may benefit from annotated versions of the rubric with examples of expected behaviors per score level. Such practices have been shown to improve transparency and reduce subjectivity in grading (Karaman, 2024).

Feedback practices and formative use

Rubrics serve a dual role: summative assessment and formative guidance. This duality was clearly reflected in the results. The systematic review emphasized that rubrics are most effective when used as part of a feedback loop rather than as static checklists (Panadero & Romero, 2014; Fraile & Medina, 2023). Survey respondents largely agreed that the rubric helped them reflect on their progress and make adjustments, and the focus groups confirmed mid-internship that the evaluation was generally seen as useful.

Nonetheless, many students described the feedback process as inconsistent. Some received detailed, rubric-based feedback in structured meetings; others participated in brief, unstructured conversations. A common frustration was the lack of written feedback. Without documentation, students struggled to recall what had been discussed, which reduced the effectiveness of the evaluation. Supervisors often assumed that

students would take notes, while students expected a more formal summary.

This disconnect suggests a need for clearer quidelines on feedback delivery. Implementing a shared digital tool or template for documenting midterm evaluations could enhance feedback retention and foster mutual accountability. Making written feedback a standard part of the process would help reinforce learning and support reflective practice.

Supporting student growth and autonomy

One of the rubric's intended purposes is to support students in monitoring progress and regulating their own learning. The survey results were generally positive in this regard: most students reported using rubric to set goals and track development. The systematic review similarly identified rubrics as useful scaffolds for self-regulated learning, especially when paired with feedback or digital tools (Wang, 2017; Fraile & Medina, 2023).

However, focus group discussions revealed that the rubric's ability to support growth was limited by how it was framed and applied. Some students felt their improvement was not visible in their final scores, particularly if they started at a lower performance level. Supervisors clarified that expectations rise progressively across the internship trajectory, implying maintaining the same rubric score over time may in fact reflect developmental progress. However, this rationale was systematically communicated to students, potentially leading to misinterpretations regarding their growth and performance.

Students expressed a desire for a more personalized way to track progress. Suggested improvements included adding a progress section to the rubric or allowing students to write a development reflection at the end of each internship. Such changes

could help make learning gains more visible and meaningful.

4.1 Limitations, strengths and future directions

This study was conducted within the specific context of the biomedical sciences program UHasselt, which may limit generalizability of the findings to other academic settings. However, this focused scope aligns with existing literature that emphasizes the importance of contextspecific investigations when evaluating educational tools such as rubrics. The relatively small number of focus group participants is another limitation, although sample included а balanced representation across the first and second master's year and different specializations, enhancing its relevance. Lastly, bachelor students were not included in the data collection. This was a deliberate choice, as the study aimed to capture how students engage with rubric-based feedback after having already completed at least one internship experience.

Despite these limitations, the study's mixed-methods design enabled rich triangulation of insights. A strength of this research lies in its integrated approach, combining literature, student perspectives, and supervisor experiences, which allowed for a nuanced evaluation of both the structure and practical application of the internship rubric.

benefit Future research could from longitudinal tracking of how students interact with the rubric across all three internship phases. It would also be valuable to compare perceptions across different faculties or universities to assess how factors contextual shape rubric effectiveness. Finally, piloting a revised version of the rubric, featuring improved clarity in wording, transparent grading logic, built-in tools for developmental allow feedback, would for targeted

evaluation of the proposed improvements in practice.

5. Conclusion

This study confirms that rubrics can be powerful instruments for promoting clarity, fairness, and student self-regulation, especially when they are transparently communicated, well-structured, thoughtfully integrated into feedback processes. Within the biomedical sciences internship pathway at UHasselt, the rubric is widely used and appreciated by both students and supervisors. However, its full potential is not yet realized due to inconsistent implementation, unclear terminology, and variability in feedback delivery.

To improve the rubric's impact, several concrete actions are recommended based on the study's findings. First, clear and structured introduction of the rubric at the start of each internship should become standard practice, supported by tools such as summary sheets or short instructional videos. Second, vague descriptors should be revised in favor of specific, observable criteria, and items combining multiple competencies should be separated or more clearly explained. Third, introducing a transparent scoring explanation, such as a student-facing grading matrix, can improve trust and understanding.

Moreover, its formative value could be increased by embedding reflective tools directly within the rubric, such as progress tracking fields or student-authored development reflections. A shared digital space for documenting midterm evaluations and feedback could help make learning progress more visible and actionable.

Ultimately, the goal should not be to replace human judgment, but to support more meaningful, student-centered learning experiences through clear communication, consistent evaluation practices, and scaffolded reflection. These enhancements would allow the rubric to evolve from a static assessment tool into a dynamic support for learning and professional development.

6. Policy implications for the biomedical sciences program

The findings of this study offer several actionable recommendations educational policy within the biomedical sciences program at Hasselt University. First, the implementation of a standardized, structured introduction to the rubric at the of every internship, preferably integrated into orientation sessions, could help ensure that all students begin with a understanding of expectations. Second, rubric criteria should be revised to improve wording precision and to unbundle that competencies currently targeted feedback. Third, developing a digital feedback platform that supports midterm documentation optional student reflections can enhance transparency, encourage dialogue, and better track individual learning progress. small, These scalable changes significantly strengthen the program's formative learning culture and ensure that rubrics evolve from evaluation tools into authentic instruments for professional development.

7. Author contribution

This thesis was conceptualized, designed, written by the author, Kowalewski, as part of the educational master's program at Hasselt University. The author was responsible for designing the research approach, developing the survey, conducting the systematic review, organizing and facilitating the focus groups, analyzing all data. The entire including manuscript, its theoretical framework, methodology, and interpretation of results, was authored independently.

Kris Janssens provided conceptual guidance and critical feedback throughout the research process. Her suggestions significantly contributed to refining the research design and interpreting the findings.

Editorial and linguistic support was provided by OpenAI's language model ChatGPT, which was used to refine grammar and sentence structure in accordance with academic writing conventions. The final content and interpretations are the sole responsibility of the author.

8. References

Andrade, H. (2005). Teaching with rubrics: The good, the bad, and the ugly. *College Teaching*, 53(1), 27–30. https://doi.org/10.3200/CTCH.53.1.27-30

Boud, D., & Falchikov, N. (2007). *Rethinking* assessment in higher education: Learning for the longer term. Routledge.

Brookhart, S. M. (2013). How to create and use rubrics for formative assessment and grading. ASCD.

Brookhart, S. M. (2018). Appropriate criteria: Key to effective rubrics. *Frontiers in Education*, 3, 22. https://doi.org/10.3389/feduc.2018.00022

Carless, D., & Boud, D. (2018). The development of student feedback literacy: Enabling uptake of feedback. *Assessment & Evaluation in Higher Education*, 43(8), 1315–1325.

https://doi.org/10.1080/02602938.2018.1 463354

Dawson, P. (2017). Assessment rubrics: Towards clearer and more replicable design, research and practice. *Assessment & Evaluation in Higher Education*, 42(3), 347–360.

https://doi.org/10.1080/02602938.2015.1 111294

Fraile, R., Panadero, E., & Pardo, R. (2017). Co-creating rubrics: The effects on self-regulated learning, self-efficacy and performance of establishing assessment criteria with students. *Studies in Educational Evaluation*, 53, 69–76.

https://doi.org/10.1016/j.stueduc.2017.03 .003

Fraile, R., & Medina, J. A. (2023). The influence of co-created rubrics on self-efficacy and engagement: A study with management students. Assessment in Education: Principles, Policy & Practice, 30(1), 97–116. https://doi.org/10.1080/0969594X.2022.2 131460

Fraile, R., Panadero, E., & Romero, M. (2023). Better rubric, better learning? The impact of rubric design on self-assessment accuracy and performance. *Assessment & Evaluation in Higher Education*, 48(4), 456–472.

https://doi.org/10.1080/02602938.2022.2 119814

Gezie, A., Khaja, K., Chang, V. N., Adamek, M. E., & Johnsen, M. B. (2012). Rubrics as a tool for learning and assessment: What do baccalaureate students think? *Journal of Teaching in Social Work*, 32(4), 421–437. https://doi.org/10.1080/08841233.2012.7 05241

Hafner, J. C., & Hafner, P. M. (2003). Quantitative analysis of the rubric as an assessment tool: An empirical study of student peer-group rating. *International Journal of Science Education*, 25(12), 1509–1528.

https://doi.org/10.1080/09500690220000 38268

Jackson, D. (2015). Employability skill development in work-integrated learning: Barriers and best practice. *Studies in Higher Education*, 40(2), 350–367. https://doi.org/10.1080/03075079.2013.8 42221

Jonsson, A. (2014). Rubrics as a way of providing transparency in assessment. Assessment & Evaluation in Higher Education, 39(7), 840–852. https://doi.org/10.1080/02602938.2013.8 75117

Jonsson, A., & Svingby, G. (2007). The use of scoring rubrics: Reliability, validity and educational consequences. *Educational Research Review*, 2(2), 130–144. https://doi.org/10.1016/j.edurev.2007.05.002

Karaman, P. (2024). Using rubrics for reflective practice and student growth: A mixed-methods exploration. *Teaching in Higher Education*, 29(1), 56–73. https://doi.org/10.1080/13562517.2023.2 252649

Kolb, D. A. (1984). Experiential learning: Experience as the source of learning and development. Prentice-Hall.

Krebs, A., Zwickl, B. M., & Finkelstein, N. (2022). The role of rubrics in supporting student self-assessment and metacognition in laboratory education. *Physical Review Physics Education Research*, 18(1), 010129. https://doi.org/10.1103/PhysRevPhysEduc Res.18.010129

Miknis, R. A., McKinney, J. P., & Girardeau, K. E. (2020). Increasing success rates through rubric-aligned instruction in introductory programming. *Information Systems Education Journal*, 18(5), 26–36.

Panadero, E. (2017). A review of self-regulated learning: Six models and four directions for research. *Frontiers in Psychology*, 8, 422. https://doi.org/10.3389/fpsyg.2017.00422

Panadero, E., & Jonsson, A. (2013). The use of scoring rubrics for formative assessment purposes revisited: A review. *Educational Research Review*, 9, 129–144. https://doi.org/10.1016/j.edurev.2013.01.002

Panadero, E., & Romero, M. (2014). To rubric or not to rubric? The effects of self-assessment on self-regulation, performance and self-efficacy. *Assessment in Education: Principles, Policy & Practice*, 21(2), 133–148.

https://doi.org/10.1080/0969594X.2013.8 77872 Panadero, E., Romero, M., & Strijbos, J.-W. (2013). The impact of a rubric and self-assessment on self-regulated learning and academic achievement. *Assessment & Evaluation in Higher Education*, 38(6), 719–733.

https://doi.org/10.1080/02602938.2012.6 74485

Patrick, C. J., Peach, D., & Pocknee, C. (2008). *The WIL report: Work Integrated Learning – A national strategy for WIL in Australian universities*. Queensland University of Technology.

Rezaei, A. R., & Lovorn, M. (2010). Reliability and validity of rubrics for assessment through writing. *Assessing Writing*, 15(1), 18–39. https://doi.org/10.1016/j.asw.2010.01.003

Reddy, Y. M., & Andrade, H. (2010). A review of rubric use in higher education. Assessment & Evaluation in Higher Education, 35(4), 435–448. https://doi.org/10.1080/02602930902862859

Rowe, A. D., Mackaway, J., & Winchester-Seeto, T. (2012). But I thought you were doing that-clarifying the role of the host supervisor in experience-based learning. *Asia-Pacific Journal of Cooperative Education*, 13(2), 115–134.

Sadler, D. R. (2009). Indeterminacy in the use of preset criteria for assessment and grading. *Assessment & Evaluation in Higher Education*, 34(2), 159–179. https://doi.org/10.1080/02602930801956 059

Hasselt University

Smith, C., Ferns, S., & Russell, L. (2019). Placement performance and assessment: The need for consistency and consensus. *International Journal of Work-Integrated Learning*, 20(3), 209–222.

Velasco-Martinez, L., & Diaz-Barriga, A. (2017). Teachers' beliefs and practices in the use of rubrics: The case of a university in Mexico. *Revista Mexicana de Investigación Educativa*, 22(73), 747–771.

Wang, W. (2017). The impact of using rubrics and checklist on students' performance and anxiety in English writing. *English Language Teaching*, 10(3), 193–201.

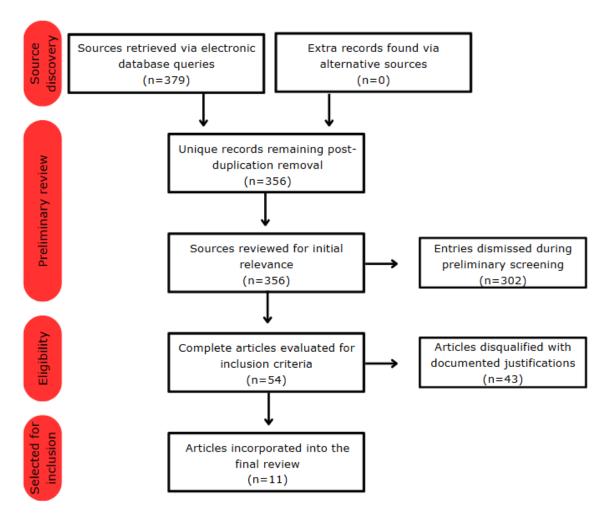
https://doi.org/10.5539/elt.v10n3p193

Zimmerman, B. J. (2002). Becoming a self-regulated learner: An overview. *Theory into Practice*, 41(2), 64–70. https://doi.org/10.1207/s15430421tip410 2_2

9. Supplementary materials

Planning / organization	Does not meet deadlines, waits for instructions	Meets deadlines, waits for instructions	Meets deadlines, tries to make a daily schedule, has difficulties with adjusting the schedule	Meets deadlines, tries to make a daily schedule, tries to adjusts schedule if needed, thinks ahead	Meets deadlines, makes a daily schedule, adjusts schedule if needed, thinks ahead, prioritizes	
Effort/willingness to learn	Is not motivated, does not take notes or ask questions, does not ask for help when needed	Seems indifferent, asks few questions, does not always ask for help when needed	Is motivated, listens active, asks questions, asks for help when needed	Very motivated, listens active, asks questions, asks for help when needed, takes initiative, asks for work	Extremely motivated, interest goes beyond the project	
Independence	Cannot perform a simple protocol independently, needs constant supervision, has difficulties adjusting his/her work after feedback	Can perform a simple protocol independently after multiple supervised executions, has difficulties adjusting his/her work after feedback	Can perform a simple protocol independently after a few supervised executions, adjusts his/her work after feedback	Can perform a simple protocol independently after one supervised execution, adjusts his/her work after feedback	Can independently perform experiments based on a protocol, adjusts his/her work after feedback	
		•				
Accuracy, safety,	Does not respect safety regulations, handles	Safety regulations are respected,	Safety regulations are respected,	Safety regulations are respected,		
handling	equipment incorrect,	handles equipment	handles equipment	handles		
Also includes correct	does not report	correctly most of	correctly Most of	equipment		
sample labeling	mistakes	the time,	the time:	correctly,		
and data storage,	→ needs constant	regularly prepares	accurately	accurately		
waste handling	supervision	solutions incorrect, messy work area,	prepared solutions, clean	prepared solutions, clean		
		does not always report mistakes	work area, mistakes are reported	work area, mistakes are reported		
Insight, problem solving ability	Mistakes are made concerning basic knowledge/background, has difficulty understanding the project	Has difficulty understanding the project, cannot identify links, cannot identify problems and propose possible alternatives	Understands the project, can identify links, searches for protocols, has difficulties defining problems and possible alternatives	Understands the project, can identify links, searches for protocols, defines problems, has difficulties suggesting possible alternatives	Good understanding of the project and it's broader context, searches for protocols, identifies links, defines problems and suggests alternatives	Good understanding of the project and it's broader context, identifies links, defines problems and suggests alternatives, summarizes results and comes up with plans for follow up
Functioning in	Cannot collaborate with	Difficult	Decent	Good collaboration		
team	lab partner and/or team,	collaboration with	collaboration with	with lab partner		
Team attitude: is polite, is on time,	no team attitude,	lab partner and/or team, team attitude	lab partner and team, decent team	and team, good team attitude,		
pening to an array county account county account county account county account county						
keeps lab clean, difficulties with is limited, attitude, proper professional						
reports when materials are used up or broken, refills tipboxes	communication	inconsistent communication	communication	communication		
Lab book taking title, date, experimental design, protocol, observations, results, conclusion)	Incomplete or incorrect, unorganized, difficult to interpret	Mainly complete and accurate, not well-organized, frequently difficult to interpret	Complete and accurate, organized, interpretable	Complete and accurate, highly organized, easy interpretable, information such as reagents, equipment, sample/data storage is present		

Supplementary figure 1: Rubric used for internship evaluation across This figure presents the standardized rubric applied during the bachelor, junior, and senior internships in the biomedical sciences program at Hasselt University. The rubric assesses multiple domains, including planning, independence, teamwork, accuracy, safety, insight, and communication, with scores ranging from 1 to 5 (6). The rubric structure remains consistent across internships, interpretation and grading logic vary depending The rubric shown pertains specifically to the internship process and is used in three of the four specializations offered within the biomedical sciences program at UHasselt.



Supplementary figure 2: Screening flowchart for the systematic literature review. This PRISMA-style flowchart outlines the identification, screening, eligibility, and inclusion phases of the systematic review process. Of 379 initially retrieved articles, 11 met the final inclusion criteria after duplicates were removed and titles, abstracts, and full texts were screened according to predefined eligibility standards.

Supplementary table 1: Survey questions distributed to internship students. This table contains the complete list of survey items, both closed and open-ended, used to explore students' experiences with the internship rubric. The items addressed clarity of expectations, feedback practices, rubric structure, and the promotion of self-regulated learning. Likert-scale questions were scored from 1 (strongly disagree) to 5 (strongly agree).

Question number	Question text	Question type	Thematic category
Q1	What type of internship are you currently enrolled in?	Likert-scale	General
Q2	Did you complete your bachelor's degree at UHasselt?	Likert-scale	General
Q3	To what extent did you consult and use the rubrics at the start of your internship to understand what was expected of you and how you would be evaluated? (Scale: 1 = Not at all, 5 = Completely)	Likert-scale (1- 5)	Clarity of expectations
Q4	In your opinion, how clear and understandable were the rubric at the start of your internships? (Scale: 1 = Very unclear, 5 = Very clear)	Likert-scale (1- 5)	Clarity of expectations
Q5	To what extent did you receive sufficient explanation and information about the rubrics at the start of your internship? (Scale: 1 = Not at all, 5 = Completely)	Likert-scale (1- 5)	Clarity of expectations
Q6	What suggestions do you have for making the rubrics more visible and accessible at the start of the internship?	Open-ended	Clarity of expectations
Q7	The rubric provides enough detail for me to understand what is expected of me during my internship. (Scale: 1 = Strongly disagree , 5 = Strongly agree)	Likert-scale (1- 5)	Clarity of expectations
Q8	The rubric encourages me to set personal learning goals and monitor my progress effectively. (Scale: 1 = Strongly disagree , 5 = Strongly agree)	Likert-scale (1- 5)	Monitoring and self- regulation
Q9	Can you identify any specific areas where you feel the rubric has been particularly effective in guiding your learning and development?	Open-ended	Monitoring and self- regulation
Q10	Explain how the rubric helps you set specific and challenging goals during your internship, or why it may not be helpful.	Open-ended	Monitoring and self- regulation
Q11	Have you encountered any difficulties or challenges in understanding or using the rubric during your internship? (Scale: 1 = No, not at all, 5 = Yes, a lot)	Likert-scale (1- 5)	Clarity of expectations
Q12	Which difficulties or challenges in understanding or using rubric during your internship, have you experienced? Please describe.	Open-ended	Clarity of expectations
Q13	Do you believe that incorporating more frequent self- assesments, using the rubric, would enhance your academic performance? (Scale: 1 = Not beneficial, 5 = Highly beneficial)	Likert-scale (1- 5)	Monitoring and self- regulation
Q14	Do you focus more on avoiding mistakes and meeting the rubric's requirements, or on using the rubric to understand various levels of proficiency and work towards improvement? (Scale: 1= avoid mistakes, meet the requirements, 5 = understand various levels of proficiency, work towards improvement)	Likert-scale (1- 5)	Monitoring and self- regulation
Q15	How effective do you find the feedback provided through the rubric during your intermediate evaluation meeting in helping you understand your progress and areas for improvement? (Scale: 1 = Not effective at all, 5 = Extremely effective)	Likert-scale (1- 5)	Feedback and evaluation
Q16	Explain how the feedback from the rubric during the intermediate evaluation meeting supported your ability to regulate your progress, or why it may not have been helpful.	Open-ended	Feedback and evaluation
Q17	Do you believe the rubric-based feedback during your intermediate evaluation meeting could be improved in any way to better support your progress? If so, please provide specific suggestions.	Open-ended	Feedback and evaluation
Q18	The rubric's structure is intuitive and easy to follow during my internship evaluations. (Scale: 1 = Strongly disagree , 5 = Strongly agree)	Likert-scale (1- 5)	Clarity of expectations
Q19	The evaluation tool provides clear and actionable feedback that helps me improve my performance. (Scale: 1 = Strongly disagree , 5 = Strongly agree)	Likert-scale (1- 5)	Clarity of expectations
Q20	The rubric helps me to reflect on my performance and adapt to feedback. (Scale: 1 = Strongly disagree , 5 = Strongly agree)	Likert-scale (1- 5)	Monitoring and self- regulation
Q21	The rubric encourages me to think critically about my learning process and how I can improve. (Scale: 1 = Strongly disagree , 5 = Strongly agree)	Likert-scale (1- 5)	Monitoring and self- regulation
Q22	The rubric's feedback helps me understand my strengths and areas for improvement in a constructive manner. (Scale: 1 = Strongly disagree , 5 = Strongly agree)	Likert-scale (1- 5)	Monitoring and self- regulation
Q23	Do you actively use the feedback (both rubric and written) from previous internships to improve in future internships? (Scale: 1 = Never, 5 = Always)	Likert-scale (1- 5)	Monitoring and self- regulation
Q24	In what ways do you use the feedback (both rubric-based and written) from previous internships to improve in future internships?	Open-ended	Feedback and evaluation
Q25	What suggestions or innovations would you propose to improve the rubric to help students monitor their progress and enhance their learning process?	Open-ended	Feedback and evaluation

Informed consent

Focus group: Evaluation of the assessment tool in the biomedical sciences program

Purpose of the study:

You are invited to participate in a focus group aimed at evaluating the current assessment tool used in the biomedical sciences program. The goal is to gather your qualitative insights and opinions in order to identify potential improvements and innovations.

Procedures:

The focus group will involve a one-hour discussion where participants will share their experiences and thoughts on the existing assessment tool. No preparation is required, and we are seeking your honest and constructive feedback during the session.

Anonymity, confidentiality, and recording:

This study is qualitative in nature, and your responses will be processed anonymously. No identifying information will be linked to your contributions. The discussion will be audio recorded to ensure accurate data collection. These recordings will be used solely for the purposes of transcription and analysis. After the study is completed, the recordings will be deleted. All data will be anonymized in any reports or publications, and individual participants will not be identifiable.

By signing this form, you consent to the recording of the focus group discussion.

While your participation is highly valued, it is entirely voluntary. There will be no negative consequences should you choose not to participate.

There are no known risks associated with this study. While there may not be direct personal benefits from participation, your insights will help improve the evaluation tool, potentially benefiting current and future students in the program.

Contact information:

If you have any questions regarding the study or your participation, please contact jenthe.kowalewski@student.uhasselt.be

Consent statement:

By signing this form, I confirm that I have read and understood the purpose and procedures of

audio recorded and that my responses will be anonymized and used only for research purposes in line with the aims of this study.
Name:
Signature:
Date:

Supplementary figure 3: **Informed** consent form for focus group participants. The figure displays the standardized informed consent form provided to all focus group participants. These forms covered the study's objectives, confidentiality assurances, the voluntary nature of participation, and data usage, in line with ethical research guidelines.

Supplementary table 2: Protocol for the student focus group used to explore perceptions of rubric-based internship evaluation. This table outlines the thematic structure and guiding questions used in the student focus group. The protocol was designed to investigate how students enrolled in the biomedical sciences program at Hasselt University experienced the internship evaluation rubric. Key topics included the rubric's clarity at the start of the internship, its role in supporting self-regulation and feedback use, the perceived value of the midterm evaluation, the fairness and consistency of scoring practices, and students' suggestions for future improvement. Each section contains a central question, clarifying prompts, and optional bonus questions used to deepen the discussion. The focus group included five participating students (n = 5), representing both master's years and different specialization tracks.

Theme	Main question	Follow-up prompts
Initial experience with the rubric	How clear and useful was the rubric at the start of your internship?	Did you understand what was expected of you? Did the rubric help you get started with clear goals? Did you consult the rubric before the internship? Why or why not? In what way? Were the different performance levels clearly distinguishable? How could the rubric's introduction be made clearer or more visible to students?
2. Self-regulation and feedback us	To what extent did the rubric and the feedback received help you guide your own development?	 Did the rubric support goal-setting and reflection during the internship? Did you use feedback from earlier internships? If so, how? How could we encourage students to apply feedback between internships?
3. Role of the midterm evaluation	How helpful was the midterm meeting and the feedback you received?	Did it help you understand your performance and areas for improvement? Was concrete and usable advice provided? Was the rubric actively used during the conversation? What could improve the usefulness of the midterm evaluation for students? What did you change or improve after the midterm discussion?
4. Fairness and consistency of evaluation	Did you find the evaluation based on the rubric fair and consistent?	Did the scores make sense compared to the expectations? Did it feel like students were evaluated in the same way? Were the criteria applied consistently by supervisors? What could increase transparency and trust in the assessment process?
5. Suggestions and improvement ideas	If you could redesign the rubric and evaluation system freely, what would you change?	How could the rubric, feedback process, or evaluation system be improved to better support students? What is currently missing in the system? What would have helped your growth most effectively?

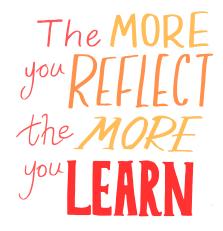
Supplementary table 3: Protocol for the supervisor focus group exploring the practical use of the internship evaluation rubric. This table presents the thematic structure and key discussion prompts used during the focus group with internship supervisors in the biomedical sciences program at Hasselt University (n = 7). The focus group aimed to explore how supervisors interpret and use the evaluation rubric across internship stages, how they deliver feedback and support student self-regulation, and what improvements they recommend for increasing transparency, fairness, and efficiency in the evaluation process. Each topic includes a main guiding question and three follow-up prompts used to facilitate discussion.

Theme	Main question	Follow-up prompts
1. Use and interpretation of the rubric at the start of the internship	To what extent is the rubric used as a reference for supervision and assessment at the beginning of the internship?	 Do you already consider rubric criteria when preparing for student supervision at the start? Was sufficient information available to help you interpret and use the rubric effectively at the start of the internship? Would you find it helpful to receive a student's final score or feedback from their previous internship in advance?
2. Observation, feedback, and self-regulation during the internship	When providing feedback during the internship, do you actively link your comments to the rubric criteria?	 How do you support students who struggle with self-reflection or independent learning? What is your view on providing written feedback? How feasible is it in your current context? What barriers do you observe in students' use of feedback?
3. Practical experience with the rubric during midterm evaluations	How do you experience using the rubric during midterm evaluation discussions?	 How do you prepare for the midterm conversation, and is the rubric part of this preparation? Do students seem to accurately self-assess their growth compared to your observations? What could help students make better use of midterm feedback?
4. Fairness, consistency, and interpretation of scores	How do you interpret the performance levels described in the rubric?	 Are internal agreements made within research groups regarding how to apply the rubric? Do you ever feel a mismatch between your personal evaluation and the score derived from the rubric? What could improve transparency and consistency in final scoring?
5. Suggestions for optimizing the evaluation Tool	What would you change in the current evaluation process to better support accurate and meaningful assessment of student performance?	 What support would help you conduct evaluations more efficiently or effectively? If you could redesign the rubric, what would you add or remove? Do you see any opportunities for digital tools within the evaluation process?

Creatief ontwerp

Internship reflection and progress journal

Bachelor - Junior - Senior Biomedical Sciences Hasselt University





Content of this journal

- Personal information: p1
- About this journal: p2-4
- Checklist: p5-9
- Bachelor internship
- Before the internship: p10-15
- During the internship: p16-18
- After the internship: p19-26
- Junior internship
- Before the internship: p29-31
- Midpoint reflection: p32-43
- After the internship: p44-52
- Senior internship
- Before the internship: p54-56
- Midpoint reflection: p57-68
- After the internship: p69-77
- At the end of your internship: p78
- Example of how to fill in your journal: 80-96



Personal information

Please complete the information below at the start of your internship. This page provides basic details to identify your journal and track your internship period.

Name of student:

Student number:

Start date of the journal:

End date of the journal:





About this journal

1. Why this journal exists

This Internship Reflection and Progress Journal is an official component of the internship program in both the bachelor and master of Biomedical Sciences at Hasselt University. It was developed based on feedback from students and supervisors, who expressed the need for more clarity, structure, and continuity in how internships are experienced and evaluated.

In particular, students reported that they are often unsure when and how to reflect effectively. Supervisors, on the other hand, indicated that students tend to take too few notes during critical feedback moments, meaning important learning opportunities are lost.

This journal aims to solve both problems. It is designed to become your personal learning companion throughout your internship trajectory. Use it actively, use it regularly, and use it for yourself.

2. Purpose

The main goal of this journal is to help you:

- Develop reflective skills and take ownership of your learning,
- Capture feedback, both positive and constructive, as it happens,
- · Work with the internship rubric before, during, and after each stage,
- · Monitor your own growth over time, and
- Build the habit of self-directed professional development.

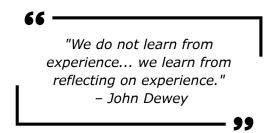
This journal is not just an academic requirement, it is your personal notebook, feedback logbook, and progress tracker all in one. You are encouraged to bring your laptop or tablet to feedback moments and supervision meetings. Use this journal to write down what is said, not just criticisms, but also compliments and observations. Reflection is not only about what you can improve, but also about understanding and reinforcing what you do well.

3. Structure and use

Each internship stage (bachelor, junior, senior) includes three major reflection points:

- · Before the internship
 - You describe your expectations and initial goals.
 - You are also asked to fill in the rubric yourself, based on what you expect from your own performance. This acts as a self-assessment baseline.
- During the internship
 - You document feedback received, both formally and informally.
 - Use this section to note what supervisors tell you, what you notice in practice, and how you respond.
 - During the midterm evaluation (junior and senior internships), you will again complete the rubric yourself, and your supervisor will do the same.
 - In this journal, you will record both rubrics, yours and your supervisor's, and briefly reflect on the differences.
- After the internship (after receiving your rubric)
 - You reflect on the final evaluation and rubric you receive.
 - How does it compare to your initial expectations and your midterm evaluation?
 - What changed? Where did you grow? What surprised you?
 - You will again record the final rubric (student and supervisor versions) in this journal.

Note: By consistently comparing your rubrics (expectations, midterm, final), you gain powerful insight into your evolution, not just within a single internship, but across your entire academic journey.





4. Submission and feedback process

Annual submission

You are required to submit your journal each academic year in June, after completing your internship for that year. Submissions go through the student platform (digital learning environment).

Deadline: End of June (exact date to be communicated annually).

Peer feedback and go/no-go decision

Your journal will be reviewed by a Master student in the Educational Master in Health Sciences, as part of a structured peer feedback system. These reviewers are trained in giving constructive, developmental feedback, and they benefit from this process as part of their own learning trajectory. Each journal is also reviewed for formal approval ("go/no-go") by a designated faculty member who is not involved in internship supervision. In case of a "no-go", you will be invited to revise your journal with clear guidance.

5. What you will find in this journal

At the end of this document, you'll find:

- The official internship rubric for bachelor, junior, and senior stages,
- A fully completed example journal, to illustrate how you might approach each section. This is purely illustrative, your reflections should always be authentic and personal.

6. Why this matters

This journal is not about ticking boxes. It's about taking your learning seriously. You are training to become a biomedical professional, someone who can learn from feedback, take initiative, grow from challenge, and think critically. Use this journal as your professional diary, your feedback memory, and your personal growth portfolio. It is not only for your teachers, it is, first and foremost, for you.

Checklist

How to use this checklist



This checklist gives you a clear overview of when and what you are expected to complete in this journal throughout your internship journey. Each section of the journal includes moments before, during, and after the internship. Some stages also include a midterm evaluation, where you are expected to actively use this journal during your feedback meeting. At the end of each academic year, you must submit your updated journal via the student platform. You will receive peer feedback and a go/no-go decision. Use this checklist as your personal roadmap. Tick off each task as you complete it, and always bring your journal to evaluation moments.

Bachelor internship

Before the internship

- Fill in general information
- Indicate if your internship takes place at UHasselt or elsewhere
- Describe your expectations and what you're looking forward to
- Identify which skills or competencies you hope to develop
- Review the bachelor rubrics (presentation, process, report)
- · Answer the reflection questions based on your rubric reading
- Mark any unclear rubric elements you want to discuss

During the internship (around week 2-3)

- Write down informal and formal feedback you received
- · Reflect on what went well and what was challenging
- Describe how you responded to feedback
- · Note any compliments and strengths your supervisor shared
- Complete the rubric clarity check

After the internship (within 2 weeks of receiving rubric)

- Mark your supervisor's final rubric scores in the rubric pages
- Reflect on your final rubric results
- Identify surprises and explain your results
- · Write your overall reflection on growth and future focus
- Add personal notes for your junior internship



Checklist

Junior internship



Before the internship

- Fill in general information + select your graduation track
- Write your personal learning goals
- Reflect on how you want to approach things differently than during your bachelor internship
- Select one or more rubric domains to focus on (presentation / process / report)
- Review the correct rubric version for your track (Track A or Track B)
- Reflect on which elements of the rubric are clear, unclear, or important to you

Midterm evaluation

Before the meeting:

- Fill in your own rubric scores (Track A or B)
- · Bring this journal to the evaluation meeting

During the meeting:

- Review your supervisor's rubric
- Copy their scores into your journal (use colour or symbols)
- Take notes on feedback, strengths, points for improvement

After the meeting:

- Write your short reflection report
- Identify differences in perception
- Note key actions you plan to take moving forward

After the internship (within 2 weeks of receiving rubric)

- Mark your supervisor's final rubric scores in the rubric pages
- Reflect on your final evaluation compared to the midterm
- Write your final overall reflection
- Add future goals or notes for the senior internship



Checklist

Senior internship

Before the internship

- Fill in general information + graduation track
- Write your goals and expectations
- Reflect on your intended professional role
- Identify which rubric domain(s) you want to focus on most
- Reflect on strengths from previous internships
- Review your rubric version (Track A or B)
- · Reflect on familiar, challenging or unclear rubric elements

Midterm evaluation

Before the meeting:

- Fill in your own rubric scores (Track A or B)
- · Bring this journal to the evaluation meeting

During the meeting:

- Review your supervisor's rubric
- Copy their scores into your journal (use colour or symbols)
- · Take notes on feedback, strengths, points for improvement

After the meeting:

- Write your short reflection report
- Reflect on feedback impact and differences in scoring
- Plan concrete improvement actions for the remainder of the internship

After the internship (within 2 weeks of receiving rubric)

- Record your supervisor's final rubric scores in the rubric pages
- Reflect on final results and comparison with the midterm
- Describe where you grew and what remained stable
- Write your overall reflection on yourself as a professional
- Complete your end-stage reflection

The end

 Complete the end-stage reflection and prepare yourself for your future career



1. Before the internship

To be completed before the start of your internship.

Please complete this section in the week before your internship starts. This helps you prepare your goals and expectations.

1.1 General information

Do y	you comp	lete your	bachelor	internship	at Hassel	t University?
------	----------	-----------	----------	------------	-----------	---------------

 YES O NO O → If no, please indicate your host institution:
Internship location / research group:
Project title / topic :
Daily supervisor:
Promotor:
Country (if abroad):
Start date – End date:

1.2 Your expectations and goals

What are your expectations for this internship:	 -



What are you most looking forward to:					
Which skills or competencies do you hope to develop:					
Are there any aspects of the rubric you are unsure about or would like clarification on before starting:					
Which criteria from the rubric do you want to focus on improving during this internship:					

1.3 Getting to know the rubric

During your internship, you will be evaluated on three domains: process, report and presentation. Take a few minutes to review the rubrics for bachelor internships.

1.3.1 Rubric process

	-				
Planning /	Does not meet	Meets deadlines, waits	Meets deadlines, tries	Meets deadlines, tries	Meets deadlines, makes
organization	deadlines, waits for	for instructions	to make a daily	to make a daily	a daily schedule, adjusts
	instructions		schedule, has	schedule, tries to	schedule if needed,
			difficulties with	adjusts schedule if	thinks ahead, prioritizes
			adjusting the schedule	needed, thinks ahead	
Effort/willingness	Is not motivated, does	Seems indifferent,	Is motivated, listens	Very motivated, listens	Extremely motivated,
to learn	not take notes or ask	asks few questions,	active, asks questions,	active, asks questions,	interest goes beyond the
	questions, does not ask	does not always ask	asks for help when	asks for help when	project
	for help when needed	for help when needed	needed	needed, takes	
				initiative, asks for work	
Independence	Cannot perform a simple	Can perform a simple	Can perform a simple	Can perform a simple	
	protocol independently,	protocol independently	protocol independently	protocol independently	
	needs constant	after multiple	after a few supervised	after one supervised	
	supervision, has	supervised executions,	executions, adjusts	execution, adjusts	
	difficulties adjusting	has difficulties adjusting	his/her work after	his/her work after	
	his/her work after	his/her work after	feedback	feedback	
	feedback	feedback			
Accuracy, safety,	Does not respect safety	Safety regulations are	Safety regulations are	Safety regulations are	
equipment	regulations, handles	respected, handles	respected, handles	respected, handles	
handling	equipment incorrect,	equipment correctly	equipment correctly	equipment correctly,	
Also includes correct	does not report	most of the time,	Most of the time:	accurately prepared	
sample labeling	mistakes	regularly prepares	accurately prepared	solutions, clean work	
and data storage,	→ needs constant	solutions incorrect,	solutions, clean work	area, mistakes are	
waste handling	supervision	messy work area, does		reported	
		not always report	area, mistakes are		
		mistakes	reported		
Insight,	Mistakes are made	Has difficulty	Understands the	Understands the	Good understanding of
problem solving	concerning basic	understanding the	project, can identify	project, can identify	the project and it's
ability	knowledge/background,	project, cannot	links, searches for	links, searches for	broader context,
	has difficulty	identify links, cannot	protocols, has	protocols, defines	searches for protocols,
	understanding the	identify problems and	difficulties defining	problems, has	identifies links, defines
	project	propose possible	problems and possible	difficulties suggesting	problems and suggests
		alternatives	alternatives	possible alternatives	alternatives
Functioning in	Cannot collaborate with	Difficult collaboration	Decent collaboration	Good collaboration with	
team	lab partner and/or team,	with lab partner and/or	with lab partner and	lab partner and team,	
Team attitude: is	no team attitude,	team, team attitude is	team, decent team	good team attitude,	
polite, is on time,	difficulties with	limited, inconsistent	attitude, proper	professional	
keeps lab clean,	communication	communication	communication	communication	
reports when					
materials are used					
up or broken, refills					
tipboxes					
Lab book taking	Incomplete or	Mainly complete and	Complete and	Complete and accurate,	
→ title, date,	incorrect, unorganized,	accurate, not well-	accurate, organized,	highly organized, easy	
experimental	difficult to interpret	organized, frequently	interpretable	interpretable,	
design, protocol,		difficult to interpret		information such as	
observations,				reagents, equipment,	
results,				sample/data storage is	
conclusion)				present	
		1			



1.3.2 Rubric report

Are the correct scientific terms used on average?	No	Yes
Is the number of spelling mistakes limited?	No	Yes
Are sentences concise and well-constructed (linking words, verbs,)?	No	Yes
Does the length of the report meet the guidelines (max 15 pages)?	No	Yes
Is the Vancouver style correctly used for references in the text and the reference list?	No	Yes

		No obstant	Bdd-d	B	n		E	D
	Abstract	No abstract	Poorly reported,	Reasonably	Reasonably	Well reported and	Excellently reported,	Publishable
	→ Contains		multiple parts are	reported, some	reported, contains	clear, comprises	clear and concise,	quality
ABSIRACI	background, aims,		missing	parts are missing	background, aims,	background,	comprises	
[result &		(background,	(background,	results and	aims, results and	background, aims,	
	conclusion		aims, result,	aims, results or	conclusion, but	conclusion	results and	
1			conclusion)	conclusion)	different parts are		conclusion	
					not in proportion			
					to each other			
	Introduction	No	Poorly reported,	Poorly reported,	Reasonably	Well reported and	Excellently reported,	Publishable
	→ contains	introduction	little relevance to	contains relevant	reported, contains	clear, relevant	clear and concise,	quality
5	background,		the topic, does	background, basic	relevant	background,	relevant	
1	unknown,		not contain	literature search	background,	evidence of a	background, clear	
5	experimental		relevant		sufficient	thorough	evidence of a	
2	approach,		background,		literature search	literature search	thorough literature	
NOT DO SOLVE OF THE PARTY OF TH	relevant		superficial				search	
١	references		literature search					
_								
	Problem	Not clearly		Present, but not to	Present, but not to	Clear, to the		
	statement	stated		the point and	the point or	point and		
				relevance is	relevance is	relevance is		
				missing	missing	stated		
	Material &	No M&M	Poorly reported,	Reasonably	Reasonably	Well reported and	Excellently reported,	Publishable quality
8	methods		poorly described,	reported, not	reported, not	clear, well	clear and concise,	quanty
METHODS	→ description of		methods missing	concise,	concise or statistic	described,	clearly described,	
일	the methods,			information is	methods are not	statistic methods	statistic methods	
, E	materials and			missing, statistic	defined	defined	clearly defined	
È -	statistics			methods are not				
				defined				
	Presentation of	Results poorly	Results poorly	Results presented	results clearly	Figures are	Publishable quality	
	results	presented in	presented in	in figures and	presented in	interpretable		
	→ Figures: correct	figures and	figures and	tables, legends	figures and tables,	without text,		
	graph type and	tables,	tables, legends	are sufficiently	legends are clear	legends are clear		
	labeling of axes,	legends are	contain	clear, but contain		and complete		
	readable,	not present or	inaccuracies	inaccuracies				
2	statistical info.	incomplete						
KESULIS	Legend: title,							
¥	experimental info,							
	techniques,							
	statistical info							
	→ Tables:							
	labeling of							
	columns and							
	rows, readable,							
	statistical info,							
	title							
	Description of	Not present	Poorly reported,	Reasonably	Reasonably	Well reported and	Excellently reported,	Publishable
	results		essential results	reported, some	reported, results	clear, results are	clear and concise,	quality
	→ description of		are missing,	results are not	are sufficiently	adequately	results are clearly	
	all results present		results are poorly	(sufficiently)	described, logical	described and	described and	
	in figures &		described and	described, logical	order is missing	ordered	ordered	
	tables, cross		structured	order is missing				
	references to							
	figures and tables							
	Discussion	Not present	Poorly reported,	Reasonably	Reasonably	Well reported and	Excellently reported,	Publishable
	→ summary of		results are poorly	reported, not all	reported, results	clear, results are	clear, concise and	quality
	main results,		compared to	main results are	are discussed and	discussed and	structured, results	200
z	comparison to		literature, not	compared to	compared to	compared to	are discussed and	
DISCUSSION	literature, future		well structured,	literature or	literature,	literature, clearly	compared to	
S	perspectives,		superficial	argumentation is	argumentation is	structured,	literature, strong	
ISC	main conclusion		literature search	superficial,	not always clear,	evidence of a	argumentation,	
۵	and implication,			sufficient	sufficient	thorough	clear evidence of a	
	relevant			literature search	literature search	literature search	thorough literature	
	references						search	



1.3.3 Rubric presentation

Was the duration of the presentation 10±1 min?

YES / No

I 661 -1 b		Adamsta	F-11 (1)	6	
different sections of the	incomplete, the	sections of the	relevant results, the	subject, good selection	
presentation are not	different sections of the	presentation are balanced	different sections of	of relevant results, the	
balanced	presentation are not		the presentation are	different sections of the	
	balanced		well balanced	presentation are well	
				balanced	
Unclear or overloaded	Slides not always clear	Clear slides, good	Clear and attractive	Excellent, clear and	
slides, little structure,	or are overloaded,	structure, proper citations	slides, good	attractive, good	
important citations are	structure is mostly	are used	structure, proper	structure, creative,	
missing	missing, citations are		citations are used	proper citations are	
	missing			used	
Closed posture, sloppy,	Closed posture, tries to	Open posture, connects	Enthusiastic,	Excellent, compelling,	
unmotivated,	connect to the	with audience, eye	enjoyable, open	enjoyable	
presentation is	audience, presentation	contact, posture and	posture, frequent eye		
mechanical	is mechanical	behavior are good but not	contact		
		consistent			
Sloppy language,	Understandable, limited	Understandable, mostly	Understandable,	Clear and	
unintelligible, no	use of scientific	scientific language, use of	mostly scientific	understandable,	
scientific language,	language, monotonous,	intonation, too fast or	language, good use	scientific language,	
monotonous,	too fast or slow	slow	of intonation,	natural flow, good use	
distracting pacing			appropriate pacing	of intonation, excellent	
				pacing	
Knows little about the	Has a basic	Has sufficient	Has good	Has very good	Excellent, has
topic, cannot correctly	understanding of the	understanding of the	understanding of the	understanding of the	extensive
answer most trivial	topic, can only answer	topic, can answer most of	topic, can answer the	topic, gives a correct	knowledge of the
questions	trivial questions	the questions correctly	questions	answer to all questions	topic, gives a
					correct answer
					to all questions,
					elaborates on
					the topic
Answers are	Answers are	Structured answers to the	Well-structured	Well-structured	
unstructured, does not	unstructured but answer	questions, explores and	answers, to the point,	answers, to the point,	
indicate exploration of	the questions, indicates	explains the issue	explores, explains	fully explores, explains	
the issue, no direct	an attempt of		and expands upon	and expands upon the	
	exploration of the issue		the issue	issue, incorporated	
answer to the questions	exploration of the issue			por acco	
	Unclear or overloaded slides, little structure, important citations are missing Closed posture, sloppy, unmotivated, presentation is mechanical Sloppy language, unintelligible, no scientific language, monotonous, distracting pacing Knows little about the topic, cannot correctly answer most trivial questions Answers are unstructured, does not indicate exploration of	the subject, the different sections of the presentation are not balanced Unclear or overloaded slides, little structure, important citations are missing Closed posture, sloppy, unmotivated, presentation is mechanical Sloppy language, unintelligible, no scientific language, monotonous, distracting pacing Knows little about the topic, cannot correctly answer most trivial questions Answers are unstructured, does not indicate exploration is incomplete, the different sections of the presentation are mostly missing clear or are overloaded, structure is mostly missing, citations are missing Closed posture, sloppy, connect to the audience, presentation is mechanical Understandable, limited use of scientific language, monotonous, too fast or slow Has a basic understanding of the topic, can only answer trivial questions	the subject, the different sections of the presentation are not balanced Unclear or overloaded slides, little structure, important citations are missing Closed posture, sloppy, unmotivated, presentation is mechanical Sloppy language, unintelligible, no scientific language, monotonous, distracting pacing Knows little about the topic, cannot correctly answer most trivial questions Answers are unstructured, does not indicate exploration of the presentation ris incomplete, the different sections of the presentation is encomplete, the different sections of the presentation are balanced Connect of the presentation are balanced Slides not always clear or are overloaded, structure, proper citations are used Clear slides, good structure, proper citations are used Structure, proper citations are with audience, eye contact, posture and behavior are good but not consistent Understandable, limited use of scientific language, monotonous, too fast or slow Understandable, limited use of scientific language, use of intonation, too fast or slow Has a basic understanding of the topic, can only answer trivial questions Answers are unstructured, does not indicate exploration of the questions, indicates	the subject, the different sections of the presentation are not balanced Unclear or overloaded slides, little structure, important citations are missing Closed posture, sloppy, unmotivated, connect to the audience, presentation is mechanical Inderstandable, limited use of scientific language, monotonous, distracting pacing Knows little about the topic, can only answer trivial questions Answers are unstructured, does not indicate syloars are not balanced Unclear or overloaded slides, of the presentation are balanced different sections of the presentation are balanced Slides presentation are balanced different sections of the presentation are balanced different sections of the presentation are balanced Clear slides, good structure, proper citations are used structure, proper citations are used Structure, proper citations are used structure, proper citations are used Structure, proper citations are used structure, proper citations are used Structure, proper citations are used structure, proper citations are used Structure, proper citations are used structure, proper citations are used Structure, proper citations are used structure, proper citations are used Structure, proper citations are used structure, proper citations are used Slides, good structure, proper citations are used Structure, proper citations slides, good structure, proper citations are used Understandable, good structure, proper citations are used Understandisc, good structure, proper citations are used Understandisc, good structure, proper citations are used Understandisc, good structure, good structure, proper citations are used Understandisc, good structure, proper citations are used Understandable, understandisc, good structure, proper cit	the subject, the different sections of the presentation are not balanced different sections of the presentation are balanced different sections of the presentation are well balanced presentation are well balanced different sections of the presentation are well balanced presentation are well balanced presentation are used structure, proper citations are used proper citations are used structure, proper citations are used used structure, proper citations are used used structure, proper citations are used structure, proper citations are used used structure, proper citations are used structure, proper citations are used used used struct

66

"Without reflection, we go blindly on our way, creating more unintended consequences, and failing to achieve anything useful." – Margaret J. Wheatley



1.3.4 Reflect on the rubric

Now reflect on the following:
After reading the rubric, which evaluation criteria seem most important to you:
Which terms or elements are unclear or new to you:
Choose 1 or 2 criteria (from any of the rubrics) that you want to pay special attention to during your internship. Why:
Are there parts of the rubric that you feel unsure about, or would like to discuss with your supervisor at the start:
Variable Market and the control of t

You may highlight, annotate, or mark any parts of the rubric that raise questions. Bring this journal to your kickoff meeting, and don't hesitate to ask your supervisor about what's expected.

2. During the internship

To be completed during your internship (week 2-3). Use this section to note feedback moments and reflect on your progress.

2.1 Mid-internship reflections

What are some examples of feedback you have received so far (formally or informally):
What went well in the first half of your internship? (e.g. tasks, communication, lab skills):
What challenges or areas for improvement have been mentioned to you:
How are you responding to feedback? Can you describe any actions you took as a result:
>

Have you made progress on the rubric criteria you identified before the internship:
·
2.2 Compliments and strengths
Supervisors often give feedback that highlights strengths. What compliments have you received so far:
What do these tell you about your professional attitude or competencies:



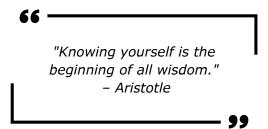
2.3 Rubric clarity check

Are there any elements of the rubric that you find unclear or difficult to interpret now that you're in the internship:

O

•	NO	Ο	
---	----	---	--

→ If yes, which ones:	
Would you like extra guidance or explanation	1:





3. After the internship

To be completed after the internship Complete this section within 2 weeks of receiving your final rubric. Reflect on your results and prepare for your next step.

3.1 Evaluation results

Final score/grade? ____/20

Please mark the scores your supervisor assigned you directly on the rubric on the next pages. Use colour to clearly indicate the score per criterion. You may also add brief comments or annotations next to individual items if needed.



3.1.1 Rubric process

Planning /	Does not meet	Meets deadlines, waits	Meets deadlines, tries	Meets deadlines, tries	Moote doadlines makes
organization	deadlines, waits for	for instructions	to make a daily	to make a daily	Meets deadlines, makes a daily schedule, adjusts
organization	instructions	TOT ITISCI UCCIONS	schedule, has	schedule, tries to	schedule if needed,
	IIIstractions		difficulties with	adjusts schedule if	thinks ahead, prioritizes
			adjusting the schedule	needed, thinks ahead	chinks diledu, prioritizes
Effort/willingness	Is not motivated, does	Seems indifferent,	Is motivated, listens	Very motivated, listens	Extremely motivated,
to learn	not take notes or ask	asks few questions,	active, asks questions,	active, asks questions,	interest goes beyond the
to rearri	questions, does not ask	does not always ask	asks for help when	asks for help when	project
	for help when needed	for help when needed	needed	needed, takes	project
	l l l l l l l l l l l l l l l l l l l	l los many miles made a		initiative, asks for work	
Independence	Cannot perform a simple	Can perform a simple	Can perform a simple	Can perform a simple	
	protocol independently,	protocol independently	protocol independently	protocol independently	
	needs constant	after multiple	after a few supervised	after one supervised	
	supervision, has	supervised executions,	executions, adjusts	execution, adjusts	
	difficulties adjusting	has difficulties adjusting	his/her work after	his/her work after	
	his/her work after	his/her work after	feedback	feedback	
	feedback	feedback			
Accuracy, safety,	Does not respect safety	Safety regulations are	Safety regulations are	Safety regulations are	
equipment	regulations, handles	respected, handles	respected, handles	respected, handles	
handling	equipment incorrect,	equipment correctly	equipment correctly	equipment correctly,	
Also includes correct	does not report	most of the time,	Most of the time:	accurately prepared	
sample labeling	mistakes	regularly prepares	accurately prepared	solutions, clean work	
and data storage,	→ needs constant	solutions incorrect,	solutions, clean work	area, mistakes are	
waste handling	supervision	messy work area, does		reported	
		not always report	area, mistakes are		
		mistakes	reported		
Insight,	Mistakes are made	Has difficulty	Understands the	Understands the	Good understanding of
problem solving	concerning basic	understanding the	project, can identify	project, can identify	the project and it's
ability	knowledge/background,	project, cannot	links, searches for	links, searches for	broader context,
	has difficulty	identify links, cannot	protocols, has	protocols, defines	searches for protocols,
	understanding the	identify problems and	difficulties defining	problems, has	identifies links, defines
	project	propose possible	problems and possible	difficulties suggesting	problems and suggests
	101	alternatives	alternatives	possible alternatives	alternatives
Functioning in	Cannot collaborate with	Difficult collaboration	Decent collaboration	Good collaboration with	
team	lab partner and/or team,	with lab partner and/or	with lab partner and	lab partner and team,	
Team attitude: is	no team attitude,	team, team attitude is	team, decent team	good team attitude,	
polite, is on time,	difficulties with	limited, inconsistent	attitude, proper	professional	
keeps lab clean,	communication	communication	communication	communication	
reports when					
materials are used					
up or broken, refills					
tipboxes					
Lab book taking	Incomplete or	Mainly complete and	Complete and	Complete and accurate,	
→ title, date,	incorrect, unorganized,	accurate, not well-	accurate, organized,	highly organized, easy	
experimental	difficult to interpret	organized, frequently	interpretable	interpretable,	
design, protocol,		difficult to interpret		information such as	
observations,				reagents, equipment,	
results,				sample/data storage is	



3.1.2 Rubric report

Are the correct scientific terms used on average?	No	Yes
Is the number of spelling mistakes limited?	No	Yes
Are sentences concise and well-constructed (linking words, verbs,)?	No	Yes
Does the length of the report meet the guidelines (max 15 pages)?	No	Yes
Is the Vancouver style correctly used for references in the text and the reference list?	No	Yes

П	Abstract	No abstract	Poorly reported,	Reasonably	Reasonably	Well reported and	Excellently reported,	Publishable
	→ Contains		multiple parts are	reported, some	reported, contains	clear, comprises	clear and concise,	quality
.	background, aims,		missing	parts are missing	background, aims,	background,	comprises	
	result &		(background,	(background,	results and	aims, results and	background, aims,	
,	conclusion		aims, result,	aims, results or	conclusion, but	conclusion	results and	
2			conclusion)	conclusion)	different parts are		conclusion	
					not in proportion			
					to each other			
\neg	Introduction	No	Poorly reported,	Poorly reported,	Reasonably	Well reported and	Excellently reported,	Publishable
	→ contains	introduction	little relevance to	contains relevant	reported, contains	clear, relevant	clear and concise,	quality
<u> </u>	background,		the topic, does	background, basic	relevant	background,	relevant	
≟	unknown,		not contain	literature search	background,	evidence of a	background, clear	
INTRODUCTION	experimental		relevant		sufficient	thorough	evidence of a	
3	approach,		background,		literature search	literature search	thorough literature	
	relevant		superficial				search	
۱ ا	references		literature search				0001011	
	Problem	Not clearly		Present, but not to	Present, but not to	Clear, to the		
	statement	stated		the point and	the point or	point and		
				relevance is	relevance is	relevance is		
				missing	missing	stated		
	Material &	No M&M	Poorly reported,	Reasonably	Reasonably	Well reported and	Excellently reported,	Publishable
8	methods		poorly described,	reported, not	reported, not	clear, well	clear and concise,	quality
	→ description of		methods missing	concise,	concise or statistic	described,	clearly described,	
윈	the methods,			information is	methods are not	statistic methods	statistic methods	
METHODS	materials and			missing, statistic	defined	defined	clearly defined	
-	statistics			methods are not				
				defined				
	Presentation of	Results poorly	Results poorly	Results presented	results clearly	Figures are	Publishable quality	
	results	presented in	presented in	in figures and	presented in	interpretable		
	→ Figures: correct	figures and	figures and	tables, legends	figures and tables,	without text,		
	graph type and	tables,	tables, legends	are sufficiently	legends are clear	legends are clear		
	labeling of axes,	legends are	contain	clear, but contain		and complete		
	readable,	not present or	inaccuracies	inaccuracies				
2	statistical info.	incomplete						
KESOLIS	Legend: title,							
2	experimental info,							
- 1	techniques,							
	statistical info							
	→ Tables:							
	labeling of							
	columns and							
	rows, readable,							
Ì	statistical info,							
	title							
	Description of	Not present	Poorly reported,	Reasonably	Reasonably	Well reported and	Excellently reported,	Publishable
	results		essential results	reported, some	reported, results	clear, results are	clear and concise,	quality
	→ description of		are missing,	results are not	are sufficiently	adequately	results are clearly	
	all results present		results are poorly	(sufficiently)	described, logical	described and	described and	
	in figures &		described and	described, logical	order is missing	ordered	ordered	
	tables, cross		structured	order is missing				
	references to							
	figures and tables							
	Discussion	Not present	Poorly reported,	Reasonably	Reasonably	Well reported and	Excellently reported,	Publishable
	→ summary of		results are poorly	reported, not all	reported, results	clear, results are	clear, concise and	quality
	main results,		compared to	main results are	are discussed and	discussed and	structured, results	
5	comparison to		literature, not	compared to	compared to	compared to	are discussed and	
1	literature, future		well structured,	literature or	literature,	literature, clearly	compared to	
3	perspectives,		superficial	argumentation is	argumentation is	structured,	literature, strong	
DISCUSSION	main conclusion		literature search	superficial,	not always clear,	evidence of a	argumentation,	
1	and implication,			sufficient	sufficient	thorough	clear evidence of a	
				literature conreb	literature search	literature search	thorough literature	
	relevant			literature search	illerature search	interacture search	thorough literature	



3.1.3 Rubric presentation

Was the duration of the presentation 10±1 min?

YES / No

Contont	ingufficient coverns	anyonna of the auti	Adaminto como con contra	Full sources of the	Comprehensive 6:"	
Content	insufficient coverage of	coverage of the subject	Adequate coverage of the	Full coverage of the	Comprehensive, full	
→ content	the subject, the	is missing depth or is	content, the different	subject, selection of	coverage of the	
present on the	different sections of the	incomplete, the	sections of the	relevant results, the	subject, good selection	
slides and how	presentation are not	different sections of the	presentation are balanced	different sections of	of relevant results, the	
this is explained	balanced	presentation are not		the presentation are	different sections of the	
		balanced		well balanced	presentation are well	
					balanced	
Slides	Unclear or overloaded	Slides not always clear	Clear slides, good	Clear and attractive	Excellent, clear and	
	slides, little structure,	or are overloaded,	structure, proper citations	slides, good	attractive, good	
	important citations are	structure is mostly	are used	structure, proper	structure, creative,	
	missing	missing, citations are		citations are used	proper citations are	
		missing			used	
Posture and	Closed posture, sloppy,	Closed posture, tries to	Open posture, connects	Enthusiastic,	Excellent, compelling,	
persuasiveness	unmotivated,	connect to the	with audience, eye	enjoyable, open	enjoyable	
	presentation is	audience, presentation	contact, posture and	posture, frequent eye		
	mechanical	is mechanical	behavior are good but not	contact		
			consistent			
Oral delivery	Sloppy language,	Understandable, limited	Understandable, mostly	Understandable,	Clear and	
	unintelligible, no	use of scientific	scientific language, use of	mostly scientific	understandable,	
	scientific language,	language, monotonous,	intonation, too fast or	language, good use	scientific language,	
	monotonous,	too fast or slow	slow	of intonation,	natural flow, good use	
	distracting pacing			appropriate pacing	of intonation, excellent	
.					pacing	
Discussion:	Knows little about the	Has a basic	Has sufficient	Has good	Has very good	Excellent, has
knowledge	topic, cannot correctly	understanding of the	understanding of the	understanding of the	understanding of the	extensive
→ Correctness	answer most trivial	topic, can only answer	topic, can answer most of	topic, can answer the	topic, gives a correct	knowledge of the
	questions	trivial questions	the questions correctly	questions	answer to all questions	topic, gives a
						correct answer
						to all questions,
						elaborates on
						the topic
Discussion:	Answers are	Answers are	Structured answers to the	Well-structured	Well-structured	
response to	unstructured, does not	unstructured but answer	questions, explores and	answers, to the point,	answers, to the point,	
questions	indicate exploration of	the questions, indicates	explains the issue	explores, explains	fully explores, explains	
→	the issue, no direct	an attempt of		and expands upon	and expands upon the	
structure/thinking	answer to the questions	exploration of the issue		the issue	issue, incorporated	
process					critical thinking skills	

"Reflection turns experience into insight." – John C. Maxwell



3.2 Reflection on your evaluation

What stands out to you in your final rubric:
Which criteria were stronger than expected:
Were there any lower scores or remarks that surprised you:
What do you think contributed most to the results you received:
What feedback would you like to carry forward to your next internship:
>>

3.3 Overall reflection

What did you learn about yourself during this internship:
What skills or attitudes do you feel you improved on:
What would you like to approach differently in your junior internship:
Has this internship influenced your thoughts on your future master's specialization:



3.4 Notes for the future

Use this space for personal notes, reminders, or tips for your next internship:			

Need inspiration?

- What surprised me most about this internship?
- A moment I learned from but didn't expect...
- Something I thought I was bad at, but turned out okay...



"You don't learn to walk by following rules. You learn by doing, and by falling over."

- Richard Branson



Welcome to the junior internship phase

Congratulations on completing your bachelors degree! You are now entering the master's phase of your academic journey in Biomedical Sciences at Hasselt University.

This stage brings new opportunities, new challenges, and for many of you, a specialization. From this point forward, your internship experience will be shaped by the graduation track you have chosen.

New to the program?

If you are joining Hasselt University for the first time as a master student, welcome! You may not have completed a bachelor internship here, but from now on, this journal will serve as your personal reflection tool. Simply start with the junior internship section that follows.

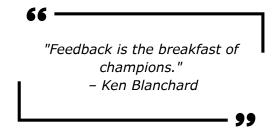
Specializations and rubrics

From the junior internship onward, the process rubric is different depending on your specialization.

There are two distinct tracks used in this journal:

- Track A: for students in BEN, MHD, and EHS
- Track B: for students in Clinical Biomedical Sciences (KBW)

Only the **process rubric** differs between tracks. The report and presentation rubrics are the same for all students. Please make sure to always complete the correct rubric version for your track. These are clearly labelled at the top of each rubric page.





What does this mean for you?

When filling in your journal:

- Please make sure you are using the correct rubric version for your specialization.
- Only fill in the rubrics marked for your track (track A/track B)
- If you're not sure which rubric to use, check with your academic coordinator.

Use this next stage to reflect more deeply, apply feedback more strategically, and build on the foundation you developed during your bachelor internship. Let's continue, with your junior internship.



1. Before the internship

To be completed before the start of your internship.

Please complete this section in the week before your internship starts. This helps you prepare your goals and expectations.

1.1 General information

Are you an international	student starting	with the	Junior	internship	at
Hasselt University:					

	VEC	\cap
•	ILO	U

NO	O
NO	

 BE 	:N	O
------------------------	----	---

- EHS O
- MHD O
- KBW O

Internship location / research group:
Project title / topic:
Daily supervisor:
Promotor:
Country (if abroad):
Start date – End date:

1.2 Your expectations and goals

what are your p	ersonal goals for this internship:
What do you have	as to do differently or better than during your provious
internship (if app	be to do differently or better than during your previous blicable):
Which rubric dorPresentationProcessReportWhy:	main(s) do you want to improve in most: O O O
What are you sti	Il uncertain about going into this internship:



					1
IIA	In	roki	hel	hI	
ull		ter			

What kind of feedback would be most helpful for you:
·
1.3 Getting to know your rubric
Please take time to review the correct set of rubrics for your specialization.
Make sure you are looking at:
Track A (BEN/MHD/EHS) Track A (BEN/MHD/EHS)
Track B (KBW)
Now reflect:
Do you understand the meaning of each criterion:
·
Which 1 or 2 criteria do you want to pay particular attention to:
Do you have any questions about how one or more items will be
interpreted:

UHASSELT KNOWLEDGE IN ACTION

2. Midpoint reflection (tussentijdse evaluatie)

To be completed in 3 steps: before, during and after your midterm evaluation meeting.

The midterm evaluation is a crucial checkpoint. It allows you and your supervisor to align your views, set priorities for the final internship weeks, and engage in open feedback. This journal is an active part of that process, you are expected to bring it to the evaluation meeting.

2.1 Step 1 - Before the meeting

Fill in your own rubric self-evaluation.

Go to the junior rubric on the next pages, Track A or B and mark your own scores for process and report.

This helps you prepare for the discussion and reflect critically on your own performance.

"Feedback is a gift. Ideas are the currency of our next success." - Jim Trinka & Les Wallace



2.1.1 Rubric process - Track A

deadlines, waits for instructions with structions of instructions of instructi	Planning /	Does not meet	Meets deadlines,	Meets deadlines,	Meets deadlines,	Meets deadlines,	
instructions instructions distructions difficulties with adjusting the schedule, adjusts checklue, the schedule for needed, thinks and proposed possible adjusting the schedule for needed, thinks alward, prioritizates to be sent to be a six few adjusting the schedule for needed, thinks alward, prioritizates to be sent		deadlines, waits for		tries to make a	tries to make a		
Effort/willingness to learn Secondary		100000000000000000000000000000000000000	100000000000000000000000000000000000000				
Effort/willingness to learn Independence Cannot perform a simple grotocol independently after supervision, has difficulties adjusting the feedback filters active, asks questions, asks for work Cannot perform a simple protocol independently after supervision, has difficulties adjusting his/her work after feedback Accuracy, safety, equipment hability adjusted the protocol independently after supervised difficulties adjusting his/her work after feedback Accuracy, safety, equipment regulations, handles equipment thandling Also includes correct, and data storage, waste handling Also includes correct, safety, experision Also includes correct, safety, experision Also includes correct, and data storage, waste handling Also includes correct, supervision Also includes correct, and data storage, waste handling Also includes correct, supervision Also includes correct, supervision Also includes correct, and data storage, waste handling Also includes correct, supervision Also includes correct, supervision Also includes correct, and data storage, waste handling Also includes correct, and data storage, waste handling Also includes correct, supervision Also includes correct, and data storage, waste handling Also includes correct, and the time, content, and the manual propose poss				vorma voat tarr	The second secon	100 00001 100.1 001 001	
Sems indifferent, not take notes or ask questions, does not ask for help when needed for help when needed protected independently, needs constant supervision. has fill-culties adjusting higher work after feedback for deback feedback for supervision. Asso includes correct sample labeling and data storage, waste handling waste handling Insight, problem solving ability Project missakes are made not missakes are made for team, team afficulties adjusting in ability Project missakes are made normalization in the project normalization in communication Project, can incomplete or missakes are used up or broken, refilis tipoboxes Incomplete or missakes Incomplete or				1111 - 111 - 111	The second secon		
Time pendence Cannot perform a simple protocol independently after supervision, has difficulties adjustions, handles equipment handling Accuracy, safety, equipment requipment reductions, handles equipment feedback Accuracy, safety, equipment incorrect, sample bibling and data storage, waste handling Timespht, problem solving ability Timespht, project Timespht, project, cannot Also difficulties adjustions are respected, handles equipment (correctity, miss, understanding the project, cannot identify links, understanding the project, cannot collaborate with tab partner and/or team, not team attitude, difficulties with liab partner and/or team, not team attitude, difficulties with liab partner and/or team, not team attitude, difficulties with lab partner and/or team, not team attitude, difficulties with lab partner and/or team, reports when materials are used up or broken, reflist tipoboxes Tibiboxes Timespht, project, cannot collaboration with lab partner and/or team, to team attitude, difficult to interpret wite-organized, defining, protocol, observations, abistic solutions, asks for work aft						101 4000	
Independence	Effort/willingness	Is not motivated, does	Seems indifferent.				
Questions, does not away sak for help when needed for help when needed help when help when help when needed help when help wh						100 March 100 Ma	
Tindependence Cannot perform a simple protocol independently, needs constant supervision, nas difficulties adjusting his/her work after redeback redeback redeback redeback redeback are respected, handling			100 mm 10	Control of the contro			
Cannot perform a simple protocol independently after number of the protocol independently after numbers of the protocol independently after one supervised executions, algusts his/her work after feedback. Accuracy, safety, equipment control independently after numbers of the protocol independently after one supervised are respected, handles equipment correctly. Accuracy protocol independently after one supervised executions, algusts his/her work after feedback. Safety regulations are respected, handles equipment correctly. Safety regulations are respected. Safety regulations are respected. Safety regulations are respected			10.			170. 470	
Cannot perform a simple protocol independently, needs constant supervision, has difficulties adjusting his/her work after feedback pandles correct safety regulations are respected, abandling equipment incorrect, does not report mistakes are reported mistakes are made concerning basic knowledge/background, has difficulty understanding the project. Insight, problem solving ability Insight problem solving ability understanding the project. Concerning basic knowledge/background, has difficulty understanding the project. Concerning basic knowledge/background, project, cannot identify inits, cannot identify inits, and ternatives alternatives alternatives alternatives alternatives attitude, general mattrude, is jumptone to communication Incomplete or mattrude, experimental design, protocol, observations, observations, observations, observations, observations, adjusts simple protocol independently after as simple protocol independently after and simple protocol independently after as alternative alternative alternative and prospose of the work after feedback are feedback. Accuracy, safety, equipment incorrect, deback correct and the time; and the project and a simple protocol independently after and anternatives alternatives alternatives alternatives are respected, handles equipment correctly, accurately prepared solutions, clean work area, does not always report mistakes are reported understanding the project, can identify links, searches for protocols, bas difficulties distinguished propose possible alternatives and propose possible alternatives and team, good team attrude, is limited, communication until lab partner and/or team, to team attrude, is limited, communication until lab partner and/or team, to team attrude, diff			The same of the sa		the state of the s	p. 3,000	
Cannot perform a simple protocol independently after a simple protocol independently after a simple protocol independently after a few supervised executions, has difficulties adjusting his/her work after feedback Geodback Ge							
protocol independently, after authorized adjusting supervised, has difficulties adjusting his/her work after feedback Accuracy, safety, equipment handling equipment incorrect, sample labeling and data store, safety sustained about the time, waste handling waste handling ability Insight, problem solving ability understanding the project and time team approace possible alternatives Insight, problem solving ability Insight, problem solving ability Insight, problem solving ability Insight, propole mostiving ability Insight, problem solving ability Insight problem solving a direct state (Insight solving ability abilit	Independence	Cannot perform a simple	Can perform a	Can perform a			
needs constant supervision, has difficulties adjusting his/her work after feedback f		protocol independently,	simple protocol	simple protocol	simple protocol		
Supervision, has difficultes adjusting his/her work after feedback feedba			the same and the same and	The state of the s	independently after		
difficulties adjusting his/her work after feedback plas/her work after feedback plas plas plas plas plas plas plas plas			multiple supervised				
Nis/her work after feedback			executions, has		1000 100		
Accuracy, safety, equipment handling Also includes correct sample labeling and data storage, waste handling Insight, problem solving ability Functioning in team attitude: is polite, is on time, peept team attitude, reports when materials are used up or broken, refilis tipboxes Lab book taking — y tite, date, experimental design, protocol, observations, sign of the protoculo, observations, sign of the protoculor, protoculo, observations, sign of the programized, difficult to interpret Does not respect safety regulations are respected, handles equipment correctly, was respected, handles equipment correctly. Wato of the time. Work are, mistakes are reported project, can identify links, searches for protocols, bas difficulties defining problems and propose possible alternatives alternatives alternatives alternatives alternatives alternatives alternatives. Functioning in team attitude, is possible alternatives alternatives alternatives alternatives. Functioning in team attitude, is possible alternatives. Functioning in team attitude, is possible alternatives. Functioning in team attitude, is limi							
Accuracy, safety, equipment regulations, handles equipment handling Also includes correct sample labeling and data storage, waste handling Insight, problem solving ability Insight, proplem solving ability Insight ability Inderstands the project, can identify insight ability insight ability Insight ability Insight ability Insight ability Inderstands the project, can identify insight ability Insight ability Inderstands the project, can identify insight ability Insight ability Inderstands the project, can identify insight ability Insight ability Inderstands the project, can identify insight ability Inderstands the project and it's broader context, identifies links, adifficulties ability Insight ability Insight ability Insight ability Inderstands the project and it's broader context, identifies links, adifficulti			town town				
Does not respect safety equipment handling regulations, handles equipment incorrect, sample labeling and data storage, waste handling waste handling ability Mistakes are made concerning basic concerning basic concerning basic from project with fast difficulty understanding the project and stratification in team attitude, lab partner and/or team, politic, is on time, keeps lab clean, reports when materials are used up or broken, refills tipboxes Incorrect, unorganized, recognized, posservations, observations,							
equipment handling Also includes correct sample labeling and data storage, waste handling Insight, problem solving ability Insight, understanding the project Insight showling ability Insight showling and data storage, waste handling of concerning basic solutions, clean work area, mistakes are reported reported understandist the project, cannot identify links, identify links, searches for protocols, and ifficulties defining problems and propose possible alternatives Insight showling and data storage, was a solutions, clean work area, mistakes are reported Inderstandist the project, cannot identify links, identify links, identify links, identify links, identifies links, identifies links, defines problems and difficulties defining problems and propose possible alternatives Insight showling and data storage, was a solutions, clean work area, mistakes are reported Insight showling ability links, searches for protocols, has difficulties defining problems and difficulties defining problems and alternatives Insight showling are respected, was a solutions, clean work area, mistakes are reported Insight showling are respected, was a solutions, clean work area, mistakes	Accuracy, safety,	Does not respect safety		Safety regulations	Safety regulations		
Also includes correct sample labelling and data storage, waste handling Insight, problem solving ability Functioning in team titude: is polite, is on time, keeps lab clean, reports when materials are used up or broken, refills tipboxes Functioning in team attitude: is polite, is on time, keeps lab clean, reports when materials are used up or broken, refills tipboxes Insight, experimental of the time, and does not always regularly prepares solutions, clean work area, does not always reported mistakes are made concerning basic knowledge/background, has difficulty understanding the project. Cannot identify in ks, cannot identify in ks, and it is possible alternatives Insight, problem, solving ability Insight, problem, solving ability Insight, problem, solving ability Insight, project Ins							
Also includes correct sample labeling and data storage, waste handling Insight, problem solving ability Insight (street the time) ability Insight (street the time) ability Insight (street the time) and base the supervision Insight (street the time) and base the supervision (solutions, clean work area, mistakes are reported (solutions, clean work are	handling	equipment incorrect,	handles equipment	handles equipment	handles		
mistakes are regularly prepares solutions, clean work area, mistakes are reported reported concerning basic knowledge/background, has difficulty understanding the project with team Team attitude: is polite, is on time, keeps lab clean, reports when materials are used up or broken, refilist tipboxes Lab book taking → title, date, experimental design, protocolo, observations, messy work area, does not always report mistakes are reported reported reported reported reported solutions, clean work area, mistakes are reported reported project, can mistakes are reported reported project, can definitely understandist the project, can identify links, searches for protocols, has difficulty understanding the project and it's broader context, identifies links, defines problems, has difficulties defining problems and propose possible alternatives alternatives Functioning in team tititude: is polite, is on time, keeps lab clean, reports when materials are used up or broken, refilist tipboxes Lab book taking				correctly,	equipment		
and data storage, waste handling Mistakes are made concerning basic handlity Mistakes are reported Midentify links, searches for protocols, has difficulties defining problems and propose possible alternatives Mistakes are reported Mistakes are reported Midentify links, searches for problems, has difficulties defining problems and propose possible alternatives Mistakes are reported Mistakes are reported Mistakes are reported Mistakes are reported Midentify links, searches for problems, has difficulties defining problems and possible Mistakes are reported Mistakes are reported Mistakes are reported Mistakes are reported Mistak	Also includes correct	does not report	correctly most of	Most of the time:	correctly,		
waste handling Supervision Solutions incorrect, messy work area, does not always report mistakes are work area, does not always report mistakes are reported reported reported reported	sample labeling	mistakes	the time,	accurately	accurately		
messy work area, does not always report mistakes are mode reported reporte	and data storage,	→ needs constant	regularly prepares	100000000000000000000000000000000000000	100000000000000000000000000000000000000		
Insight	waste handling	supervision					
Insight, problem solving ability Mistakes are made concerning basic knowledge/background, has difficulty understanding the project, cannot identify links, understanding the project with project with project and it's protocols, has difficulties with team team attitude; is polite, is on time, keeps lab clean, reports when materials are used up or broken, refills tipboxes Mistakes are made concerning basic concerning basic concerning basic understanding the understanding the project, cannot identify links, searches for protocols, has difficulties defining problems and problems and problems and problems and problems and possible alternatives Functioning in team Cannot collaborate with lab partner and/or team, no team attitude, difficulties with communication Lab partner and/or team, reports when materials are used up or broken, refills tipboxes Lab book taking			All the second s	193-193	District Co.		
Insight, problem solving ability Mistakes are made concerning basic knowledge/background, has difficulty understanding the project, cannot identify links, searches for understanding the project with earn titude; is polite, is on time, keeps lab clean, reports when materials are used up or broken, refills tipboxes Mistakes are made concerning basic knowledge/background, has difficulty understanding the project, cannot identify links, searches for protocols, has difficulties defining problems and propose possible alternatives Mistakes are made concerning basic knowledge/background, has difficulty understanding the project, cannot identify links, searches for protocols, defines problems, has difficulties suggesting problems and suggests alternatives alternatives Mistakes are made concerning basic knowledge/background, has difficulties with lidentify links, searches for protocols, defines problems, has difficulties suggesting problems, has difficulties suggesting problems and suggests alternatives alternatives alternatives alternatives alternatives with lab partner and/or lab partner and/or team, team attitude, lis limited, linconsistent communication with lab partner and team, decent team attitude, proper communication with lab partner and team, decent team attitude, professional communication communication well-organized, frequently difficult to interpret well-organized, officulties well-organized, frequently difficult to interpret interpretable, information such as identify links, searches for protocols, defines prot							
problem solving ability Concerning basic knowledge/background, has difficulty understanding the project, cannot identify links, searches for protocols, has difficulties defining problems and propose possible alternatives Functioning in team tititude: is polite, is on time, keeps lab clean, reports when materials are used up or broken, refills tipboxes Lab book taking							
ability knowledge/background, has difficulty understanding the project cannot identify links, cannot identify problems and propose possible alternatives possible alte		711 32 241		1.0	101	10000000	
has difficulty understanding the project understanding the projects, has difficulties understanding problems and difficulties understanding problems and difficulties understanding underst		concerning basic	understanding the		project, can	The second secon	
understanding the project cannot identify problems and propose possible alternatives problems and problems and propose possible alternatives problems and difficulties suggesting problems and suggests alternatives and suggests alternatives possible alternatives and suggests alternatives and suggests alternatives and suggests alternatives possible alternatives and suggests alternatives and suggests alternatives and suggests alternatives and suggests alternatives possible alternatives and suggests alternatives and suggests alternatives and suggests alternatives and suggests alternatives possible alternatives and suggests alternatives and suggests alternatives and suggests alternatives possible alternatives and suggests alternatives and suggests alternatives and suggests alternatives and suggests alternatives possible alternatives and suggests alternatives and suggests alternatives and suggests alternatives and suggests alternatives possible alternatives and suggests alternatives and suggests alternatives and suggests alternatives possible alternatives and suggests alternatives, summarizes results and suggests alternatives, summarizes results and suggests alternatives, summarizes results and suggests alternatives and suggests alternatives.	ability		11.00				10.00 - 10.00 - 10.00
project problems and propose possible alternatives problems and propose possible alternatives and suggests alternatives and suggests alternatives and suggests alternatives possible alternatives and suggests alternatives and suggests alternatives possible alternatives possible alternatives and suggests alternatives. Functioning in team							
propose possible alternatives and suggests alternatives Functioning in team Cannot collaborate with lab partner and/or team, no team attitude; is polite, is on time, keeps lab clean, reports when materials are used up or broken, refills tipboxes Lab book taking → title, date, experimental design, protocol, observations, Propose possible alternatives suggesting possible alternatives and suggests alternatives Decent collaboration with lab partner and team, good team attitude, attitude, proper communication communication Decent collaboration with lab partner and team, good team attitude, professional communication Team attitude, is on time, keeps lab clean, communication Mainly complete and accurate, not well-organized, frequently difficult to interpret Mainly complete and accurate, organized, organized, interpretable, information such as		175.000					
Functioning in team tititude: is polite, is on time, keeps lab clean, reports when materials are used up or broken, refills tipboxes		project			The second secon	THE SECOND CONTRACTOR OF THE SECOND CONTRACTOR	
Functioning in team Cannot collaborate with lab partner and/or team, no team attitude, is polite, is on time, keeps lab clean, reports when materials are used up or broken, refills tipboxes Incomplete or experimental design, protocol, observations,			propose possible	problems and	difficulties	identifies links,	summarizes results
Functioning in team Team attitude: is polite, is on time, keeps lab clean, reports when materials are used up or broken, refills tipboxes Lab book taking → title, date, experimental design, protocol, observations, Cannot collaborate with lab partner and/or team, no team attitude, lab partner and/or team, team attitude is limited, lab partner and team, decent team attitude, proper communication Difficult Decent Good collaboration with lab partner and team, good team, decent team attitude, proper communication communication			alternatives	1.000	suggesting	defines problems	
Functioning in Cannot collaborate with lab partner and/or team, no team attitude, no team attitude, is polite, is on time, keeps lab clean, reports when materials are used up or broken, refills tipboxes Lab book taking - title, date, experimental design, protocol, observations, Team attitude: Iab partner and/or team, collaboration with lab partner and team, decent team attitude, collaboration with lab partner and team, decent team attitude, proper communication Tifficult collaboration with lab partner and team, good team, decent team attitude, proper communication Tommunication Decent collaboration with lab partner and team, good team, decent team attitude, proper communication Tommunication Tomplete or incorrect, unorganized, and accurate, not well-organized, frequently difficult to interpret Tomplete and accurate, accurate, highly organized, organized, organized, interpretable, information such as				alternatives		200	plans for follow up
team Team attitude: is polite, is on time, keeps lab clean, reports when materials are used up or broken, refills tipboxes Lab book taking → title, date, experimental design, protocol, observations, Ab partner and/or team, no team attitude, lab partner and team, decent team attitude, is limited, inconsistent communication Ab partner and/or team, decent team attitude, proper communication Ab partner and team, good team, decent team attitude, proper communication Communication Communication Communication					alternatives	alternatives	
Team attitude: is polite, is on time, keeps lab clean, reports when materials are used up or broken, refills tipboxes Lab book taking + title, date, experimental design, protocol, observations, Team attitude, lab partner and team, decent team attitude, proper communication Incomplete or incorrect, unorganized, frequently difficult to interpret Iab partner and team, good team attitude, proper communication Team attitude: lab partner and team, decent team attitude, proper communication Tommunication Tomplete or incorrect, unorganized, frequently difficult to interpret Team attitude: lab partner and team, good team attitude, proper communication Tommunication Tomplete and accurate, accurate, highly organized, organized, organized, easy interpretable, information such as	Functioning in	Cannot collaborate with	Difficult	Decent	Good collaboration		
polite, is on time, keeps lab clean, reports when materials are used up or broken, refills tipboxes Lab book taking experimental design, protocol, observations, Description Descr	team	lab partner and/or team,	collaboration with	collaboration with	with lab partner		
keeps lab clean, reports when materials are used up or broken, refills tipboxes communication is limited, inconsistent communication attitude, proper communication professional communication Lab book taking → title, date, experimental design, protocol, observations, Incomplete or incorrect, unorganized, design, protocol, observations, Mainly complete and accurate, not well-organized, frequently difficult to interpret Complete and accurate, organized, organized, organized, interpretable accurate, highly organized, organized, interpretable	Team attitude: is		lab partner and/or		and team, good		
reports when materials are used up or broken, refills tipboxes Lab book taking	12, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10	difficulties with	111 1111 1111		111111111111111111111111111111111111111		
materials are used up or broken, refills tipboxes Lab book taking → title, date, experimental design, protocol, observations, Mainly complete or incorrect, unorganized, difficult to interpret design, protocol, observations, Complete and accurate, not well-organized, frequently difficult to interpret Complete and accurate, accurate, highly organized, organized, organized, interpretable interpretable, information such as		communication	100000000000000000000000000000000000000	100	101		
Lab book taking > title, date, experimental design, protocol, observations, Incomplete or incorrect, unorganized, design, protocol, observations, Mainly complete and accurate, not well-organized, frequently difficult to interpret Complete and accurate, accurate, highly organized, frequently difficult to interpret ble interpretable, information such as	reports when		inconsistent	communication	communication		
Lab book taking Incomplete or incorrect, unorganized, design, protocol, observations, Mainly complete and and accurate, not well-organized, frequently difficult to interpret Complete and accurate, accurate, highly organized, organized, interpretable interpretable, information such as	700 000 000 000		communication				
Lab book taking Incomplete or incorrect, unorganized, experimental design, protocol, observations, Mainly complete and accurate, not well-organized, frequently difficult to interpret Complete and accurate, accurate, highly organized, organized, organized, interpretable interpretable, information such as							
→ title, date, incorrect, unorganized, experimental difficult to interpret design, protocol, observations, incorrect, unorganized, and accurate, not well-organized, organized, organized, organized, interpretable interpretable, information such as							
experimental difficult to interpret well-organized, organized, organized, organized, easy interpretable, observations, to interpret to interpret information such as							
design, protocol, observations, frequently difficult to interpret interpretable interpretable, information such as							
observations, to interpret information such as		difficult to interpret					
				interpretable			
results, reagents,			to interpret				
conclusion) equipment,	conclusion)						
sample/data							
storage is present					storage is present		



2.1.2 Rubric process - Track B

	_			I		
Planning / organization	Does not meet deadlines, waits for instructions	Meets deadlines, waits for instructions	Meets deadlines, tries to make a daily schedule, has difficulties with adjusting the schedule	Meets deadlines, tries to make a daily schedule, tries to adjusts schedule if needed, thinks ahead	Meets deadlines, makes a daily schedule, adjusts schedule if needed, thinks ahead, prioritizes	
Effort/willingness to learn	Is not motivated, does not take notes or ask questions, does not ask for help when needed	Seems indifferent, asks few questions, does not always ask for help when needed	Is motivated, listens active, asks questions, asks for help when needed	Very motivated, listens active, asks questions, asks for help when needed, takes initiative, asks for work	Extremely motivated, interest goes beyond the project	
Independence	Cannot perform a simple activity independently, needs constant supervision, has difficulties adjusting his/her work after feedback	Can perform a simple activity independently after multiple supervised executions, has difficulties adjusting his/her work after feedback	Can perform a simple activity independently after a few supervised executions, adjusts his/her work after feedback	Can perform a simple activity independently after one supervised execution, adjusts his/her work after feedback		
GCP: operates in line with guidelines, integrity, accuracy	Mistakes are made regularly for the following aspects: accurate reporting, interpretation and verification, protects confidentiality of records Needs constant supervision	Small mistakes are made for the following aspects: accurate reporting, interpretation and verification, protects confidentiality of records	Follows the guidelines: accurate reporting, interpretation and verification, protects confidentiality of records			
Insight, problem solving ability	Mistakes are made concerning basic knowledge/background, has difficulty understanding the project	Has difficulty understanding the project, cannot identify links, cannot identify problems and propose possible alternatives	Understands the project, can identify links, has difficulties defining problems and possible alternatives	Understands the project, can identify links, defines problems, has difficulties suggesting possible alternatives	Good understanding of the project and its broader context, identifies links, defines problems and suggests alternatives	Good understanding of the project and its broader context, identifies links, defines problems and suggests alternatives, summarizes results and comes up with plans for follow up
Functioning in team Team attitude: is polite, is on time, keeps work area clean, reports when materials are used up or broken	Cannot collaborate with lab partner and/or team, no team attitude	Difficult collaboration with lab partner and/or team, team attitude is limited	Decent collaboration with lab partner and team, decent team attitude	Good collaboration with lab partner and team, good team attitude		
Communication	Difficult communication with patients, team and collaborators, message is mostly unclear and unstructured	Proper communication with patients, team and collaborators, message is mostly clear and structured	Professional communication with patients, team and collaborators, clear and structured message, tries to listen actively	Professional communication with patients, team and collaborators, clear and structured message, listens actively and asks questions to clarify understanding of person's point of view and reasoning		



2.1.3 Rubric report - Track A and B

Are the correct scientific terms used on average?	No	Yes
Is the number of spelling mistakes limited?	No	Yes
Are sentences concise and well-constructed (linking words, verbs,)?	No	Yes
Does the length of the report meet the guidelines (max 15 pages)?	No	Yes
Is the Vancouver style correctly used for references in the text and the reference list?	No	Yes

	Abstract	No abstract	Poorly reported,	Reasonably	Reasonably	Well reported and	Excellently reported,	Publishable
	→ Contains	110 00501000	multiple parts are	reported, some	reported, contains	clear, comprises	clear and concise,	quality
	background, aims,			and the same and the state of	Local Control Control			quanty
5			missing	parts are missing	background, aims,	background,	comprises	
[₹	result &		(background,	(background,	results and	aims, results and	background, aims,	
ABSTRACT	conclusion		aims, result,	aims, results or	conclusion, but	conclusion	results and	
₹			conclusion)	conclusion)	different parts are		conclusion	
					not in proportion			
					to each other			
	Introduction	No	Poorly reported,	Poorly reported,	Reasonably	Well reported and	Excellently reported,	Publishable
z	→ contains	introduction	little relevance to	contains relevant	reported, contains	clear, relevant	clear and concise,	quality
1 2	background,		the topic, does	background, basic	relevant	background,	relevant	
INTRODUCTION	unknown,		not contain	literature search	background,	evidence of a	background, clear	
	experimental		relevant		sufficient	thorough	evidence of a	
۱Ę	approach,		background,		literature search	literature search	thorough literature	
A	relevant		superficial				search	
Ш,	references		literature search					
	Problem	Not clearly		Present, but not to	Present, but not to	Clear, to the		
	statement	stated		the point and	the point or	point and		
				relevance is	relevance is	relevance is		
				missing	missing	stated		
	Material &	No M&M	Poorly reported,	Reasonably	Reasonably	Well reported and	Excellently reported,	Publishable quality
45	methods		poorly described,	reported, not	reported, not	clear, well	clear and concise,	quality
ALS	→ description of		methods missing	concise,	concise or statistic	described,	clearly described,	
ATERIALS METHODS	the methods,			information is	methods are not	statistic methods	statistic methods	
MATERIALS	materials and			missing, statistic	defined	defined	clearly defined	
ž	statistics			methods are not				
				defined				
	Presentation of	Results poorly	Results poorly	Results presented	results clearly	Figures are	Publishable quality	
	results	presented in	presented in	in figures and	presented in	interpretable		
	→ Figures: correct	figures and	figures and	tables, legends	figures and tables,	without text,		
	graph type and	tables,	tables, legends	are sufficiently	legends are clear	legends are clear		
	labeling of axes,	legends are	contain	clear, but contain		and complete		
	readable,	not present or	inaccuracies	inaccuracies				
22	statistical info.	incomplete						
RESULTS	Legend: title,							
SE	experimental info,							
_	techniques,							
	statistical info							
	→ Tables:							
	labeling of							
	columns and							
	rows, readable, statistical info,		J					
- 1	title							
	Description of	Not present	Poorly reported,	Reasonably	Reasonably	Well reported and	Excellently reported,	Publishable
- 1	results	. roe present	essential results	reported, some	reported, results	clear, results are	clear and concise,	quality
- 1	→ description of			results are not	are sufficiently	adequately	results are clearly	quanty
- 1	all results present			(sufficiently)	described, logical	described and	described and	
- 1	in figures &			described, logical	order is missing	ordered	ordered	
- 1	tables, cross			order is missing	Grown is missing	ordered	ordered	
- 1	references to		st actored	order is missing				
- 1	figures and tables							
	-	Not present	Poorly reported,	Reasonably	Reasonably	Well reported and	Excellently reported,	Publishable
- 1	→ summary of	reve present		reported, not all	reported, results	clear, results are	clear, concise and	quality
- 1				main results are	are discussed and	discussed and	structured, results	quanty
_	main results,		compared to					
9	comparison to			compared to	compared to	compared to	are discussed and	
SS	literature, future			literature or	literature,	literature, clearly	compared to	
SG	perspectives,			argumentation is	argumentation is	structured,	literature, strong	
Ę l	main conclusion		literature search	superficial,	not always clear,	evidence of a	argumentation,	
	and implication,			sufficient	sufficient	thorough	clear evidence of a	
-								
-	relevant references			literature search	literature search	literature search	thorough literature search	



2.1.4 Rubric presentation - Track A and B

Was the duration of the presentation 10±1 min?

YES / No

Content	insufficient coverage of	coverage of the subject	Adequate coverage of the	Full coverage of the	Comprehensive, full	
→ content	the subject, the	is missing depth or is	content, the different	subject, selection of	coverage of the	
present on the	different sections of the	incomplete, the	sections of the	relevant results, the	subject, good selection	
slides and how	presentation are not	different sections of the	presentation are balanced	different sections of	of relevant results, the	
this is explained	balanced	presentation are not	presentation are balanced	the presentation are	different sections of the	
tilis is explained	balanceu	balanced		well balanced	presentation are well	
		Dalanced		well balanced	balanced	
					balanced	
Slides	Unclear or overloaded	Slides not always clear	Clear slides, good	Clear and attractive	Excellent, clear and	
	slides, little structure,	or are overloaded,	structure, proper citations	slides, good	attractive, good	
	important citations are	structure is mostly	are used	structure, proper	structure, creative,	
	missing	missing, citations are		citations are used	proper citations are	
		missing			used	
Posture and	Closed posture, sloppy,	Closed posture, tries to	Open posture, connects	Enthusiastic,	Excellent, compelling,	
persuasiveness	unmotivated,	connect to the	with audience, eye	enjoyable, open	enjoyable	
	presentation is	audience, presentation	contact, posture and	posture, frequent eye		
	mechanical	is mechanical	behavior are good but not	contact		
			consistent			
Oral delivery	Sloppy language,	Understandable, limited	Understandable, mostly	Understandable,	Clear and	
	unintelligible, no	use of scientific	scientific language, use of	mostly scientific	understandable,	
	scientific language,	language, monotonous,	intonation, too fast or	language, good use	scientific language,	
	monotonous,	too fast or slow	slow	of intonation,	natural flow, good use	
	distracting pacing			appropriate pacing	of intonation, excellent	
ļ					pacing	ļ
Discussion:	Knows little about the	Has a basic	Has sufficient	Has good	Has very good	Excellent, has
knowledge	topic, cannot correctly	understanding of the	understanding of the	understanding of the	understanding of the	extensive
\rightarrow Correctness	answer most trivial	topic, can only answer	topic, can answer most of	topic, can answer the	topic, gives a correct	knowledge of the
	questions	trivial questions	the questions correctly	questions	answer to all questions	topic, gives a
						correct answer
						to all questions,
						elaborates on
						the topic
Discussion:	Answers are	Answers are	Structured answers to the	Well-structured	Well-structured	
response to	unstructured, does not	unstructured but answer	questions, explores and	answers, to the point,	answers, to the point,	
questions	indicate exploration of	the questions, indicates	explains the issue	explores, explains	fully explores, explains	
\rightarrow	the issue, no direct	an attempt of		and expands upon	and expands upon the	
structure/thinking	answer to the questions	exploration of the issue		the issue	issue, incorporated	
process					critical thinking skills	

66

"Mistakes are always forgivable, if one has the courage to admit them." - Bruce Lee



2.2 Step 2 - During the meeting

Your supervisor will bring their own completed version of the rubric to the midterm evaluation.

During the conversation, you will:

- · Look at your supervisor's scores, and
- Mark their scores yourself on the second rubric copy included in this journal on the next pages. Make sure you use the correct track.

This means that you are responsible for accurately recording your supervisor's scores in your own journal.

We recommend that you:

- · Use colour.
- · Pay attention to where your scores align, and where they don't.

This active marking process helps you internalize the feedback, rather than just hearing it.



2.2.1 Rubric process - Track A

Planning /	Does not meet	Meets deadlines,	Meets deadlines,	Meets deadlines,	Meets deadlines,	
organization	deadlines, waits for	waits for	tries to make a	tries to make a	makes a daily	
	instructions	instructions	daily schedule, has	daily schedule, tries	schedule, adjusts	
		1	difficulties with	to adjusts schedule	schedule if needed,	
			adjusting the	if needed, thinks	thinks ahead,	
			schedule	ahead	prioritizes	
Effort/willingness	Is not motivated, does	Seems indifferent,	Is motivated, listens	Very motivated,	Extremely	
to learn	not take notes or ask	asks few	active, asks	listens active, asks	motivated, interest	
	questions, does not ask	questions, does	questions, asks for	questions, asks for	goes beyond the	
	for help when needed	not always ask for	help when needed	help when needed,	project	
		help when needed		takes initiative,		
				asks for work		
Independence	Cannot perform a simple	Can perform a	Can perform a	Can perform a		
	protocol independently,	simple protocol	simple protocol	simple protocol		
	needs constant	independently after	independently after	independently after		
	supervision, has	multiple supervised	a few supervised	one supervised		
	difficulties adjusting	executions, has	executions, adjusts	execution, adjusts		
	his/her work after	difficulties adjusting	his/her work after	his/her work after		
	feedback	his/her work after	feedback	feedback		
		feedback				
Accuracy, safety,	Does not respect safety	Safety regulations	Safety regulations	Safety regulations		
equipment	regulations, handles	are respected,	are respected,	are respected,		
handling	equipment incorrect,	handles equipment	handles equipment	handles		
Also includes correct	does not report	correctly most of	correctly, Most of the time:	equipment correctly,		
sample labeling	mistakes	the time,	accurately	accurately		
and data storage,	→ needs constant	regularly prepares	prepared	prepared		
waste handling	supervision	solutions incorrect,	solutions, clean	solutions, clean		
		messy work area,	work area,	work area,		
		does not always	mistakes are	mistakes are		
		report mistakes	reported	reported		
Insight,	Mistakes are made	Has difficulty	Understands the	Understands the	Good	Good understanding
problem solving	concerning basic	understanding the	project, can	project, can	understanding of	of the project and it's
ability	knowledge/background,	project, cannot	identify links,	identify links,	the project and it's	broader context,
	has difficulty	identify links,	searches for	searches for	broader context,	identifies links,
	understanding the	cannot identify	protocols, has	protocols, defines	searches for	defines problems and
	project	problems and	difficulties defining	problems, has	protocols,	suggests alternatives,
		propose possible	problems and	difficulties	identifies links,	summarizes results
		alternatives	possible	suggesting	defines problems	and comes up with
			alternatives	possible	and suggests	plans for follow up
				alternatives	alternatives	
Functioning in	Cannot collaborate with	Difficult	Decent	Good collaboration		
team	lab partner and/or team,	collaboration with	collaboration with	with lab partner		
Team attitude: is	no team attitude,	lab partner and/or	lab partner and	and team, good		
polite, is on time,	difficulties with	team, team attitude	team, decent team	team attitude,		
keeps lab clean,	communication	is limited,	attitude, proper	professional		
reports when materials are used		inconsistent	communication	communication		
up or broken, refills		Communication				
tipboxes						
Lab book taking	Incomplete or	Mainly complete	Complete and	Complete and	I	
→ title, date,	incorrect, unorganized,	and accurate, not	accurate,	accurate, highly		
experimental	difficult to interpret	well-organized,	organized,	organized, easy		
design, protocol,		frequently difficult	interpretable	interpretable,		
observations,		to interpret		information such as		
results,				reagents,		
conclusion)				equipment,		
				sample/data		
					1	
				storage is present		



2.2.2 Rubric process - Track B

Planning / organization	Does not meet deadlines, waits for	Meets deadlines, waits for	Meets deadlines, tries to make a	Meets deadlines, tries to make a daily	Meets deadlines, makes a daily	
organization	instructions	instructions	daily schedule,	schedule, tries to	schedule, adjusts	
			has difficulties	adjusts schedule if	schedule if needed,	
			with adjusting the	needed, thinks	thinks ahead,	
			schedule	ahead	prioritizes	
Effort/willingness	Is not motivated, does	Seems indifferent,	Is motivated,	Very motivated,	Extremely	
to learn	not take notes or ask	asks few	listens active, asks	listens active, asks	motivated, interest	
	questions, does not ask	questions, does	questions, asks for	questions, asks for	goes beyond the	
	for help when needed	not always ask for	help when needed	help when needed,	project	
		help when needed		takes initiative, asks		
				for work		
Independence	Cannot perform a simple	Can perform a	Can perform a	Can perform a		
	activity independently,	simple activity	simple activity	simple activity		
	needs constant	independently after	independently after	independently after		
	supervision, has	multiple supervised	a few supervised	one supervised		
	difficulties adjusting	executions, has	executions, adjusts	execution, adjusts		
	his/her work after feedback	difficulties adjusting his/her work after	his/her work after feedback	his/her work after feedback		
		feedback				
GCP: operates in	Mistakes are made	Small mistakes are	Follows the			
line with	regularly for the	made for the	guidelines:			ľ
guidelines,	following aspects:	following aspects:	accurate reporting,			
integrity,	accurate reporting,	accurate reporting,	interpretation and			
accuracy	interpretation and	interpretation and	verification,			
	verification, protects	verification,	protects			
	confidentiality of	protects	confidentiality of			
	records	confidentiality of	records			
	→ Needs constant	records				
	supervision					
Insight,	Mistakes are made	Has difficulty	Understands the	Understands the	Good	Good
problem solving	Mistakes are made concerning basic	Has difficulty understanding the	Understands the project, can	Understands the project, can identify	Good understanding of	Good understanding of
	concerning basic knowledge/background,	understanding the project, cannot	project, can identify links, has	project, can identify links, defines	understanding of the project and its	understanding of the project and its
problem solving	concerning basic knowledge/background, has difficulty	understanding the project, cannot identify links,	project, can identify links, has difficulties defining	project, can identify links, defines problems, has	understanding of the project and its broader context,	understanding of the project and its broader context,
problem solving	concerning basic knowledge/background, has difficulty understanding the	understanding the project, cannot identify links, cannot identify	project, can identify links, has difficulties defining problems and	project, can identify links, defines problems, has difficulties	understanding of the project and its broader context, identifies links,	understanding of the project and its broader context, identifies links,
problem solving	concerning basic knowledge/background, has difficulty	understanding the project, cannot identify links,	project, can identify links, has difficulties defining	project, can identify links, defines problems, has	understanding of the project and its broader context,	understanding of the project and its broader context,
problem solving	concerning basic knowledge/background, has difficulty understanding the	understanding the project, cannot identify links, cannot identify problems and	project, can identify links, has difficulties defining problems and possible	project, can identify links, defines problems, has difficulties suggesting possible	understanding of the project and its broader context, identifies links, defines problems	understanding of the project and its broader context, identifies links, defines problems
problem solving	concerning basic knowledge/background, has difficulty understanding the	understanding the project, cannot identify links, cannot identify problems and propose possible	project, can identify links, has difficulties defining problems and possible	project, can identify links, defines problems, has difficulties suggesting possible	understanding of the project and its broader context, identifies links, defines problems and suggests	understanding of the project and its broader context, identifies links, defines problems and suggests
problem solving	concerning basic knowledge/background, has difficulty understanding the	understanding the project, cannot identify links, cannot identify problems and propose possible	project, can identify links, has difficulties defining problems and possible	project, can identify links, defines problems, has difficulties suggesting possible	understanding of the project and its broader context, identifies links, defines problems and suggests	understanding of the project and its broader context, identifies links, defines problems and suggests alternatives, summarizes results and comes
problem solving	concerning basic knowledge/background, has difficulty understanding the	understanding the project, cannot identify links, cannot identify problems and propose possible	project, can identify links, has difficulties defining problems and possible	project, can identify links, defines problems, has difficulties suggesting possible	understanding of the project and its broader context, identifies links, defines problems and suggests	understanding of the project and its broader context, identifies links, defines problems and suggests alternatives, summarizes results and comes up with plans for
problem solving ability	concerning basic knowledge/background, has difficulty understanding the	understanding the project, cannot identify links, cannot identify problems and propose possible	project, can identify links, has difficulties defining problems and possible	project, can identify links, defines problems, has difficulties suggesting possible	understanding of the project and its broader context, identifies links, defines problems and suggests	understanding of the project and its broader context, identifies links, defines problems and suggests alternatives, summarizes results and comes
problem solving	concerning basic knowledge/background, has difficulty understanding the project	understanding the project, cannot identify links, cannot identify problems and propose possible alternatives	project, can identify links, has difficulties defining problems and possible alternatives	project, can identify links, defines problems, has difficulties suggesting possible alternatives	understanding of the project and its broader context, identifies links, defines problems and suggests	understanding of the project and its broader context, identifies links, defines problems and suggests alternatives, summarizes results and comes up with plans for
problem solving ability Functioning in	concerning basic knowledge/background, has difficulty understanding the project	understanding the project, cannot identify links, cannot identify problems and propose possible alternatives	project, can identify links, has difficulties defining problems and possible alternatives	project, can identify links, defines problems, has difficulties suggesting possible alternatives	understanding of the project and its broader context, identifies links, defines problems and suggests	understanding of the project and its broader context, identifies links, defines problems and suggests alternatives, summarizes results and comes up with plans for
Functioning in team Team attitude: is polite, is on time,	concerning basic knowledge/background, has difficulty understanding the project Cannot collaborate with lab partner and/or team,	understanding the project, cannot identify links, cannot identify problems and propose possible alternatives Difficult collaboration with lab partner and/or team, team attitude	project, can identify links, has difficulties defining problems and possible alternatives Decent collaboration with lab partner and team, decent team	project, can identify links, defines problems, has difficulties suggesting possible alternatives	understanding of the project and its broader context, identifies links, defines problems and suggests	understanding of the project and its broader context, identifies links, defines problems and suggests alternatives, summarizes results and comes up with plans for
Functioning in team Team attitude: is polite, is on time, keeps work area	concerning basic knowledge/background, has difficulty understanding the project Cannot collaborate with lab partner and/or team,	understanding the project, cannot identify links, cannot identify problems and propose possible alternatives Difficult collaboration with lab partner and/or	project, can identify links, has difficulties defining problems and possible alternatives Decent collaboration with lab partner and	project, can identify links, defines problems, has difficulties suggesting possible alternatives	understanding of the project and its broader context, identifies links, defines problems and suggests	understanding of the project and its broader context, identifies links, defines problems and suggests alternatives, summarizes results and comes up with plans for
Functioning in team Team attitude: is polite, is on time, keeps work area clean, reports when	concerning basic knowledge/background, has difficulty understanding the project Cannot collaborate with lab partner and/or team,	understanding the project, cannot identify links, cannot identify problems and propose possible alternatives Difficult collaboration with lab partner and/or team, team attitude	project, can identify links, has difficulties defining problems and possible alternatives Decent collaboration with lab partner and team, decent team	project, can identify links, defines problems, has difficulties suggesting possible alternatives	understanding of the project and its broader context, identifies links, defines problems and suggests	understanding of the project and its broader context, identifies links, defines problems and suggests alternatives, summarizes results and comes up with plans for
Functioning in team Team attitude: is polite, is on time, keeps work area	concerning basic knowledge/background, has difficulty understanding the project Cannot collaborate with lab partner and/or team,	understanding the project, cannot identify links, cannot identify problems and propose possible alternatives Difficult collaboration with lab partner and/or team, team attitude	project, can identify links, has difficulties defining problems and possible alternatives Decent collaboration with lab partner and team, decent team	project, can identify links, defines problems, has difficulties suggesting possible alternatives	understanding of the project and its broader context, identifies links, defines problems and suggests	understanding of the project and its broader context, identifies links, defines problems and suggests alternatives, summarizes results and comes up with plans for
Functioning in team Team attitude: is polite, is on time, keeps work area clean, reports when materials are used up or broken	concerning basic knowledge/background, has difficulty understanding the project Cannot collaborate with lab partner and/or team, no team attitude	understanding the project, cannot identify links, cannot identify problems and propose possible alternatives Difficult collaboration with lab partner and/or team, team attitude is limited	project, can identify links, has difficulties defining problems and possible alternatives Decent collaboration with lab partner and team, decent team attitude	project, can identify links, defines problems, has difficulties suggesting possible alternatives Good collaboration with lab partner and team, good team attitude	understanding of the project and its broader context, identifies links, defines problems and suggests	understanding of the project and its broader context, identifies links, defines problems and suggests alternatives, summarizes results and comes up with plans for
Functioning in team Team attitude: is polite, is on time, keeps work area clean, reports when materials are used	concerning basic knowledge/background, has difficulty understanding the project Cannot collaborate with lab partner and/or team, no team attitude Difficult communication	understanding the project, cannot identify links, cannot identify problems and propose possible alternatives Difficult collaboration with lab partner and/or team, team attitude is limited Proper	project, can identify links, has difficulties defining problems and possible alternatives Decent collaboration with lab partner and team, decent team attitude	project, can identify links, defines problems, has difficulties suggesting possible alternatives Good collaboration with lab partner and team, good team attitude Professional	understanding of the project and its broader context, identifies links, defines problems and suggests	understanding of the project and its broader context, identifies links, defines problems and suggests alternatives, summarizes results and comes up with plans for
Functioning in team Team attitude: is polite, is on time, keeps work area clean, reports when materials are used up or broken	concerning basic knowledge/background, has difficulty understanding the project Cannot collaborate with lab partner and/or team, no team attitude Difficult communication with patients, team and	understanding the project, cannot identify links, cannot identify problems and propose possible alternatives Difficult collaboration with lab partner and/or team, team attitude is limited Proper communication	project, can identify links, has difficulties defining problems and possible alternatives Decent collaboration with lab partner and team, decent team attitude Professional communication	project, can identify links, defines problems, has difficulties suggesting possible alternatives Good collaboration with lab partner and team, good team attitude Professional communication	understanding of the project and its broader context, identifies links, defines problems and suggests	understanding of the project and its broader context, identifies links, defines problems and suggests alternatives, summarizes results and comes up with plans for
Functioning in team Team attitude: is polite, is on time, keeps work area clean, reports when materials are used up or broken	concerning basic knowledge/background, has difficulty understanding the project Cannot collaborate with lab partner and/or team, no team attitude Difficult communication	understanding the project, cannot identify links, cannot identify problems and propose possible alternatives Difficult collaboration with lab partner and/or team, team attitude is limited Proper	project, can identify links, has difficulties defining problems and possible alternatives Decent collaboration with lab partner and team, decent team attitude	project, can identify links, defines problems, has difficulties suggesting possible alternatives Good collaboration with lab partner and team, good team attitude Professional	understanding of the project and its broader context, identifies links, defines problems and suggests	understanding of the project and its broader context, identifies links, defines problems and suggests alternatives, summarizes results and comes up with plans for
Functioning in team Team attitude: is polite, is on time, keeps work area clean, reports when materials are used up or broken	concerning basic knowledge/background, has difficulty understanding the project Cannot collaborate with lab partner and/or team, no team attitude Difficult communication with patients, team and collaborators, message	understanding the project, cannot identify links, cannot identify problems and propose possible alternatives Difficult collaboration with lab partner and/or team, team attitude is limited Proper communication with patients,	project, can identify links, has difficulties defining problems and possible alternatives Decent collaboration with lab partner and team, decent team attitude Professional communication with patients,	project, can identify links, defines problems, has difficulties suggesting possible alternatives Good collaboration with lab partner and team, good team attitude Professional communication with patients,	understanding of the project and its broader context, identifies links, defines problems and suggests	understanding of the project and its broader context, identifies links, defines problems and suggests alternatives, summarizes results and comes up with plans for
Functioning in team Team attitude: is polite, is on time, keeps work area clean, reports when materials are used up or broken	concerning basic knowledge/background, has difficulty understanding the project Cannot collaborate with lab partner and/or team, no team attitude Difficult communication with patients, team and collaborators, message is mostly unclear and	understanding the project, cannot identify links, cannot identify problems and propose possible alternatives Difficult collaboration with lab partner and/or team, team attitude is limited Proper communication with patients, team and collaborators, message is mostly	project, can identify links, has difficulties defining problems and possible alternatives Decent collaboration with lab partner and team, decent team attitude Professional communication with patients, team and collaborators, clear and	project, can identify links, defines problems, has difficulties suggesting possible alternatives Good collaboration with lab partner and team, good team attitude Professional communication with patients, team and collaborators, clear and structured	understanding of the project and its broader context, identifies links, defines problems and suggests	understanding of the project and its broader context, identifies links, defines problems and suggests alternatives, summarizes results and comes up with plans for
Functioning in team Team attitude: is polite, is on time, keeps work area clean, reports when materials are used up or broken	concerning basic knowledge/background, has difficulty understanding the project Cannot collaborate with lab partner and/or team, no team attitude Difficult communication with patients, team and collaborators, message is mostly unclear and	understanding the project, cannot identify links, cannot identify problems and propose possible alternatives Difficult collaboration with lab partner and/or team, team attitude is limited Proper communication with patients, team and collaborators, message is mostly clear and	project, can identify links, has difficulties defining problems and possible alternatives Decent collaboration with lab partner and team, decent team attitude Professional communication with patients, team and collaborators, clear and structured	project, can identify links, defines problems, has difficulties suggesting possible alternatives Good collaboration with lab partner and team, good team attitude Professional communication with patients, team and collaborators, clear and structured message, listens	understanding of the project and its broader context, identifies links, defines problems and suggests	understanding of the project and its broader context, identifies links, defines problems and suggests alternatives, summarizes results and comes up with plans for
Functioning in team Team attitude: is polite, is on time, keeps work area clean, reports when materials are used up or broken	concerning basic knowledge/background, has difficulty understanding the project Cannot collaborate with lab partner and/or team, no team attitude Difficult communication with patients, team and collaborators, message is mostly unclear and	understanding the project, cannot identify links, cannot identify problems and propose possible alternatives Difficult collaboration with lab partner and/or team, team attitude is limited Proper communication with patients, team and collaborators, message is mostly	project, can identify links, has difficulties defining problems and possible alternatives Decent collaboration with lab partner and team, decent team attitude Professional communication with patients, team and collaborators, clear and structured message, tries to	project, can identify links, defines problems, has difficulties suggesting possible alternatives Good collaboration with lab partner and team, good team attitude Professional communication with patients, team and collaborators, clear and structured message, listens actively and asks	understanding of the project and its broader context, identifies links, defines problems and suggests	understanding of the project and its broader context, identifies links, defines problems and suggests alternatives, summarizes results and comes up with plans for
Functioning in team Team attitude: is polite, is on time, keeps work area clean, reports when materials are used up or broken	concerning basic knowledge/background, has difficulty understanding the project Cannot collaborate with lab partner and/or team, no team attitude Difficult communication with patients, team and collaborators, message is mostly unclear and	understanding the project, cannot identify links, cannot identify problems and propose possible alternatives Difficult collaboration with lab partner and/or team, team attitude is limited Proper communication with patients, team and collaborators, message is mostly clear and	project, can identify links, has difficulties defining problems and possible alternatives Decent collaboration with lab partner and team, decent team attitude Professional communication with patients, team and collaborators, clear and structured	project, can identify links, defines problems, has difficulties suggesting possible alternatives Good collaboration with lab partner and team, good team attitude Professional communication with patients, team and collaborators, clear and structured message, listens	understanding of the project and its broader context, identifies links, defines problems and suggests	understanding of the project and its broader context, identifies links, defines problems and suggests alternatives, summarizes results and comes up with plans for
Functioning in team Team attitude: is polite, is on time, keeps work area clean, reports when materials are used up or broken	concerning basic knowledge/background, has difficulty understanding the project Cannot collaborate with lab partner and/or team, no team attitude Difficult communication with patients, team and collaborators, message is mostly unclear and	understanding the project, cannot identify links, cannot identify problems and propose possible alternatives Difficult collaboration with lab partner and/or team, team attitude is limited Proper communication with patients, team and collaborators, message is mostly clear and	project, can identify links, has difficulties defining problems and possible alternatives Decent collaboration with lab partner and team, decent team attitude Professional communication with patients, team and collaborators, clear and structured message, tries to	project, can identify links, defines problems, has difficulties suggesting possible alternatives Good collaboration with lab partner and team, good team attitude Professional communication with patients, team and collaborators, clear and structured message, listens actively and asks questions to clarify	understanding of the project and its broader context, identifies links, defines problems and suggests	understanding of the project and its broader context, identifies links, defines problems and suggests alternatives, summarizes results and comes up with plans for
Functioning in team Team attitude: is polite, is on time, keeps work area clean, reports when materials are used up or broken	concerning basic knowledge/background, has difficulty understanding the project Cannot collaborate with lab partner and/or team, no team attitude Difficult communication with patients, team and collaborators, message is mostly unclear and	understanding the project, cannot identify links, cannot identify problems and propose possible alternatives Difficult collaboration with lab partner and/or team, team attitude is limited Proper communication with patients, team and collaborators, message is mostly clear and	project, can identify links, has difficulties defining problems and possible alternatives Decent collaboration with lab partner and team, decent team attitude Professional communication with patients, team and collaborators, clear and structured message, tries to	project, can identify links, defines problems, has difficulties suggesting possible alternatives Good collaboration with lab partner and team, good team attitude Professional communication with patients, team and collaborators, clear and structured message, listens actively and asks questions to clarify understanding of	understanding of the project and its broader context, identifies links, defines problems and suggests	understanding of the project and its broader context, identifies links, defines problems and suggests alternatives, summarizes results and comes up with plans for



2.2.3 Rubric report - Track A and B

Are the correct scientific terms used on average?	No	Yes
Is the number of spelling mistakes limited?	No	Yes
Are sentences concise and well-constructed (linking words, verbs,)?	No	Yes
Does the length of the report meet the guidelines (max 15 pages)?	No	Yes
Is the Vancouver style correctly used for references in the text and the reference list?	No	Yes

				T			I =	B. 5 U. 5 - 5 U.
ABSTRACT	Abstract → Contains background, aims, result & conclusion	No abstract	Poorly reported, multiple parts are missing (background, aims, result, conclusion)	Reasonably reported, some parts are missing (background, aims, results or conclusion)	Reasonably reported, contains background, aims, results and conclusion, but different parts are not in proportion to each other	Well reported and clear, comprises background, aims, results and conclusion	Excellently reported, clear and concise, comprises background, aims, results and conclusion	Publishable quality
INTRODUCTION	Introduction → contains background, unknown, experimental approach, relevant references	No introduction	Poorly reported, little relevance to the topic, does not contain relevant background, superficial literature search	Poorly reported, contains relevant background, basic literature search	Reasonably reported, contains relevant background, sufficient literature search	Well reported and clear, relevant background, evidence of a thorough literature search	Excellently reported, clear and concise, relevant background, clear evidence of a thorough literature search	Publishable quality
	Problem statement	Not clearly stated		Present, but not to the point and relevance is missing	Present, but not to the point or relevance is missing	Clear, to the point and relevance is stated		
MATERIALS & METHODS	Material & methods → description of the methods, materials and statistics	No M&M	Poorly reported, poorly described, methods missing	Reasonably reported, not concise, information is missing, statistic methods are not defined	Reasonably reported, not concise or statistic methods are not defined	Well reported and clear, well described, statistic methods defined	Excellently reported, clear and concise, clearly described, statistic methods clearly defined	Publishable quality
RESULTS	Presentation of results → Figures: correct graph type and labeling of axes, readable, statistical info. Legend: title, experimental info, techniques, statistical info — Y Tables: labeling of columns and	Results poorly presented in figures and tables, legends are not present or incomplete	Results poorly presented in figures and tables, legends contain inaccuracies	Results presented in figures and tables, legends are sufficiently clear, but contain inaccuracies	results clearly presented in figures and tables, legends are clear	Figures are interpretable without text, legends are clear and complete	Publishable quality	
	rows, readable, statistical info, title Description of results → description of all results present in figures & tables, cross references to figures and tables	Not present	Poorly reported, essential results are missing, results are poorly described and structured	Reasonably reported, some results are not (sufficiently) described, logical order is missing	Reasonably reported, results are sufficiently described, logical order is missing	Well reported and clear, results are adequately described and ordered	Excellently reported, clear and concise, results are clearly described and ordered	Publishable quality
DISCUSSION	Discussion → summary of main results, comparison to literature, future perspectives, main conclusion and implication, relevant references	Not present	Poorly reported, results are poorly compared to literature, not well structured, superficial literature search	Reasonably reported, not all main results are compared to literature or argumentation is superficial, sufficient literature search	Reasonably reported, results are discussed and compared to literature, argumentation is not always clear, sufficient literature search	Well reported and clear, results are discussed and compared to literature, clearly structured, evidence of a thorough literature search	Excellently reported, clear, concise and structured, results are discussed and compared to literature, strong argumentation, clear evidence of a thorough literature search	Publishable quality



2.2.4 Rubric presentation - Track A and B

Was the duration of the presentation 10±1 min?

YES / No

Combons	ff -		Adamsta samas afaba	Full severes of the	Community of the	
Content	insufficient coverage of	coverage of the subject	Adequate coverage of the	Full coverage of the	Comprehensive, full	
→ content	the subject, the	is missing depth or is	content, the different	subject, selection of	coverage of the	
present on the	different sections of the	incomplete, the	sections of the	relevant results, the	subject, good selection	
slides and how	presentation are not	different sections of the	presentation are balanced	different sections of	of relevant results, the	
this is explained	balanced	presentation are not		the presentation are	different sections of the	
		balanced		well balanced	presentation are well	
					balanced	
Slides	Unclear or overloaded	Slides not always clear	Clear slides, good	Clear and attractive	Excellent, clear and	
	slides, little structure,	or are overloaded,	structure, proper citations	slides, good	attractive, good	
	important citations are	structure is mostly	are used	structure, proper	structure, creative,	
	missing	missing, citations are		citations are used	proper citations are	
		missing			used	
Posture and	Closed posture, sloppy,	Closed posture, tries to	Open posture, connects	Enthusiastic,	Excellent, compelling,	
persuasiveness	unmotivated,	connect to the	with audience, eye	enjoyable, open	enjoyable	
	presentation is	audience, presentation	contact, posture and	posture, frequent eye		
	mechanical	is mechanical	behavior are good but not	contact		
			consistent			
Oral delivery	Sloppy language,	Understandable, limited	Understandable, mostly	Understandable,	Clear and	
	unintelligible, no	use of scientific	scientific language, use of	mostly scientific	understandable,	
	scientific language,	language, monotonous,	intonation, too fast or	language, good use	scientific language,	
	monotonous,	too fast or slow	slow	of intonation,	natural flow, good use	
	distracting pacing			appropriate pacing	of intonation, excellent	
Ļ					pacing	
Discussion:	Knows little about the	Has a basic	Has sufficient	Has good	Has very good	Excellent, has
knowledge	topic, cannot correctly	understanding of the	understanding of the	understanding of the	understanding of the	extensive
→ Correctness	answer most trivial	topic, can only answer	topic, can answer most of	topic, can answer the	topic, gives a correct	knowledge of the
	questions	trivial questions	the questions correctly	questions	answer to all questions	topic, gives a
						correct answer
						to all questions,
						elaborates on
						the topic
Discussion:	Answers are	Answers are	Structured answers to the	Well-structured	Well-structured	
response to	unstructured, does not	unstructured but answer	questions, explores and	answers, to the point,	answers, to the point,	
questions	indicate exploration of	the questions, indicates	explains the issue	explores, explains	fully explores, explains	
\rightarrow	the issue, no direct	an attempt of		and expands upon	and expands upon the	
structure/thinking	answer to the questions	exploration of the issue		the issue	issue, incorporated	
				I	critical thinking skills	I

66

"Growth is never by mere chance; it is the result of forces working together." – James Cash Penney



Use the space below to note down important feedback, suggestions, strengths, or concerns discussed during your evaluation. Try to write during the meeting, this helps prevent forgetting key points later.

What were your main strengths according to your supervisor:
What areas do you still need to work on:
Were any expectations clarified:
Were any misunderstandings addressed:



2.3 Step 3 - Short reflection report

To be completed shortly after the midterm meeting

How did your self-evaluation compare to your supervisor's rubric scores:
Were there any surprises or differences in perception:
What feedback had the most impact on you:
How do you plan to act on the feedback in the remaining internship period:
What concrete steps will you take to grow in one of the rubric domains:

3. After the internship

To be completed after the internship Complete this section within 2 weeks of receiving your final rubric. Reflect on your results and prepare for your next step.

3.1 Final evaluation details

Final score/grade? ____/20

Please mark the scores your supervisor assigned you directly on the rubric on the next pages (correct track). Use colour to clearly indicate the score per criterion. You may also add brief comments or annotations next to individual items if needed.

"Practice doesn't make perfect. Reflective practice makes perfect." – Linda Finlay



3.1.1 Rubric process - Track A

deadlines, waits for instructions with structions of instructions of instructi	Planning /	Does not meet	Meets deadlines,	Meets deadlines,	Meets deadlines,	Meets deadlines,	
instructions instructions distructions difficulties with adjusting the schedule, adjusts checklue, the schedule for needed, thinks and proposed possible adjusting the schedule for needed, thinks alward, prioritizates to be sent to be a six few adjusting the schedule for needed, thinks alward, prioritizates to be sent		deadlines, waits for		tries to make a	tries to make a		
Effort/willingness to learn Secondary		100000000000000000000000000000000000000	100000000000000000000000000000000000000				
Effort/willingness to learn Independence Cannot perform a simple grotocol independently after supervision, has difficulties adjusting the feedback filters active, asks questions, asks for work Cannot perform a simple protocol independently after supervision, has difficulties adjusting his/her work after feedback Accuracy, safety, equipment hability adjusted the protocol independently after supervised difficulties adjusting his/her work after feedback Accuracy, safety, equipment regulations, handles equipment thandling Also includes correct Also includes correct, and data storage, waste handling Also includes correct Also includes correct Supervision Mistakes are made continuous and data storage, waste handling Also includes correct Also includes correct Supervision Mistakes are made continuous adjusting the propletic maintains and the many propose possible alternatives Insight, problem solving ability Most of the time: messy work area, does not always report mistakes Insight, problem solving ability Most of the time: messy work area, does not always report mistakes Insight, problem solving ability Most of the time: messy work area, does not always report mistakes Insight, problem solving ability Most of the time: messy work area, does not always report mistakes Insight, problem solving ability Most of the time: messy work area, does not always report mistakes Insight, problem and project, cannot identify links, understanding the project inconsistent communication Functioning in team attitude is partner and/or team, not am attitude, difficult to interpret with opening and adata storage, ability or problems and project, cannot identify links, understanding of the project and it's broader context, because the project cannot identify links, understanding of the project and it's broader context, because the project cannot identify links, understanding of the project and it's broader context, because the materials are used up or broken, refilis tipoboxes Lab book taking → title date, can				vorma voat tarr	the second secon	100 00001 100.1 001 001	
Sems indifferent, not take notes or ask questions, does not ask for help when needed for help when needed protected independently, needs constant supervision. has fill-culties adjusting higher work after feedback for deback feedback for supervision. Asso includes correct sample labeling and data storage, waste handling waste handling Insight, problem solving ability Project missakes are made not missakes are made for team, team attitude, is project in missakes are reported. Inconsistent communication Safety regulations and statistical, ability Difficult team terratives Safety propeler and its broader context, broad				1111 - 111 - 111	The second secon		
Time pendence Cannot perform a simple protocol independently after supervision, has difficulties adjustions, handles equipment handling Accuracy, safety, equipment requipment reductions, handles equipment feedback Accuracy, safety, equipment incorrect, sample bibling and data storage, waste handling Timespht, problem solving ability Timespht, project Timespht, project, cannot Also difficulties adjustions are respected, handles equipment (correctity, miss, understanding the project, cannot identify links, understanding the project, cannot collaborate with tab partner and/or team, not team attitude, difficulties with liab partner and/or team, not team attitude, difficulties with liab partner and/or team, not team attitude, difficulties with lab partner and/or team, not team attitude, difficulties with lab partner and/or team, reports when materials are used up or broken, reflist tipoboxes Tibiboxes Timespht, project, cannot collaboration with lab partner and/or team, to team attitude, difficult to interpret wite-organized, defining, protocol, observations, abistic solutions, asks for work aft						101 4000	
Independence	Effort/willingness	Is not motivated, does	Seems indifferent.				
Questions, does not away sak for help when needed for help when needed help when help when help when needed help when help wh						100 March 100 Ma	
Tindependence Cannot perform a simple protocol independently, needs constant supervision, nas difficulties adjusting his/her work after redeback redeback redeback redeback redeback are respected, handling			100 mm 10	Control of the contro			
Cannot perform a simple protocol independently after number of the protocol independently after numbers of the protocol independently after one supervised executions, algusts his/her work after feedback. Accuracy, safety, equipment control independently after numbers of the protocol independently after one supervised are respected, handles equipment correctly. Accuracy protocol independently after one supervised executions, algusts his/her work after feedback. Safety regulations are respected, handles equipment correctly. Safety regulations are respected. Safety regulations are respected. Safety regulations are respected			10.			170. 470	
Cannot perform a simple protocol independently, needs constant supervision, has difficulties adjusting his/her work after feedback pandles correct safety regulations are respected, abandling equipment incorrect, does not report mistakes are reported mistakes are made concerning basic knowledge/background, has difficulty understanding the project. Insight, problem solving ability Insight problem solving ability understanding the project. Concerning basic knowledge/background, has difficulty understanding the project. Concerning basic knowledge/background, project, cannot identify inits, cannot identify inits, and ternatives alternatives alternatives alternatives alternatives attitude, general mattrude, is jumptone to communication Incomplete or mattrude, experimental design, protocol, observations, observations, observations, observations, observations, adjusts simple protocol independently after as simple protocol independently after and simple protocol independently after as alternative alternative alternative and prospose of the work after feedback are feedback. Accuracy, safety, equipment incorrect, deback correct and the time; and the project and a simple protocol independently after and anternatives alternatives alternatives alternatives are respected, handles equipment correctly, accurately prepared solutions, clean work area, does not always report mistakes are reported understanding the project, can identify links, searches for protocols, bas difficulties distinguished propose possible alternatives and propose possible alternatives and team, good team attrude, is limited, communication until lab partner and/or team, to team attrude, is limited, communication until lab partner and/or team, to team attrude, diff			The same of the sa		the state of the s	p. 3,000	
Cannot perform a simple protocol independently after a simple protocol independently after a simple protocol independently after a few supervised executions, has difficulties adjusting his/her work after feedback Geodback Ge							
protocol independently, after authorized adjusting supervised, has difficulties adjusting his/her work after feedback Accuracy, safety, equipment handling equipment incorrect, sample labeling and data store, safety sustained about the time, waste handling waste handling ability Insight, problem solving ability understanding the project and time team approace possible alternatives Insight, problem solving ability Insight, problem solving ability Insight, problem solving ability Insight, propole mostiving ability Insight, problem solving ability Insight problem solving a direct state (incorrect, messay work area, does not always report mistakes are reported ability and understanding the project, cannot identify links, searches for protocols, bas difficulties defining problems and propose possible alternatives and suppets alternatives and supp	Independence	Cannot perform a simple	Can perform a	Can perform a			
needs constant supervision, has difficulties adjusting his/her work after feedback f		protocol independently,	simple protocol	simple protocol	simple protocol		
Supervision, has difficultes adjusting his/her work after feedback feedba			the same and the same and	The state of the s	independently after		
difficulties adjusting his/her work after feedback plas/her work after feedback plas plas plas plas plas plas plas plas			multiple supervised				
Nis/her work after feedback			executions, has		1000 100		
Accuracy, safety, equipment handling Also includes correct sample labeling and data storage, waste handling Insight, problem solving ability Functioning in team attitude: is polite, is on time, peept team attitude, reports when materials are used up or broken, refilis tipboxes Lab book taking — y tite, date, experimental design, protocol, observations, sign of the protoculo, observations, sign of the protoculor, protoculo, observations, sign of the programized, difficult to interpret Does not respect safety regulations are respected, handles equipment correctly, was respected, handles equipment correctly. Wato of the time. Work are, mistakes are reported project, can identify links, searches for protocols, bas difficulties defining problems and propose possible alternatives alternatives alternatives alternatives alternatives alternatives alternatives. Functioning in team attitude, is possible alternatives alternatives alternatives alternatives. Functioning in team attitude, is possible alternatives. Functioning in team attitude, is possible alternatives. Functioning in team attitude, is limi							
Accuracy, safety, equipment regulations, handles equipment handling Also includes correct sample labeling and data storage, waste handling Insight, problem solving ability Insight, proplem solving ability Insight ability Inderstands the project, can identify insight ability insight ability Insight ability Insight ability Insight ability Inderstands the project, can identify insight ability Insight ability Inderstands the project, can identify insight ability Insight ability Inderstands the project, can identify insight ability Insight ability Inderstands the project, can identify insight ability Inderstands the project and it's broader context, identifies links, adifficulties ability Insight ability Insight ability Insight ability Inderstands the project and it's broader context, identifies links, adifficulti			town town				
Does not respect safety equipment handling regulations, handles equipment incorrect, sample labeling and data storage, waste handling waste handling ability Mistakes are made concerning basic concerning basic concerning basic from project with fast difficulty understanding the project and stratification in team attitude, lab partner and/or team, politic, is on time, keeps lab clean, reports when materials are used up or broken, refills tipboxes Incorrect, unorganized, recognized, posservations, observations,							
equipment handling Also includes correct sample labeling and data storage, waste handling Insight, problem solving ability Insight, understanding the project Insight showling ability Insight showling and data storage, waste handling of concerning basic solutions, clean work area, mistakes are reported reported understandist the project, cannot identify links, identify links, searches for protocols, and ifficulties defining problems and propose possible alternatives Insight showling and data storage, was a solutions, clean work area, mistakes are reported Inderstandist the project, cannot identify links, identify links, identify links, identify links, identifies links, identifies links, defines problems and difficulties defining problems and propose possible alternatives Insight showling and data storage, was a solutions, clean work area, mistakes are reported Insight showling ability links, searches for protocols, has difficulties defining problems and difficulties defining problems and alternatives Insight showling are respected, was a solutions, clean work area, mistakes are reported Insight showling are respected, was a solutions, clean work area, mistakes	Accuracy, safety,	Does not respect safety		Safety regulations	Safety regulations		
Also includes correct sample labelling and data storage, waste handling Insight, problem solving ability Functioning in team titude: is polite, is on time, keeps lab clean, reports when materials are used up or broken, refills tipboxes Functioning in team attitude: is polite, is on time, keeps lab clean, reports when materials are used up or broken, refills tipboxes Insight, experimental of the time, and the problem or the time, and the propertion of the time, and the propertion of the time, accurately prepared solutions, clean work area, mistakes are reported reported of reported of the time, accurately prepared solutions, clean work area, mistakes are reported reported of concerning basic knowledge/background, has difficulty understanding the project, cannot identify links, cannot identify links, searches for protocols, as difficulties defining alternatives Insight, problem, solving ability Also includes correct, mistakes are made concerning basic knowledge/background, has difficulty understanding the project, cannot identify links, cannot identify links, searches for protocols, as difficulties defining propose possible alternatives Insight, project Insi							
Also includes correct sample labeling and data storage, waste handling Insight, problem solving ability Insight (street the time) ability Insight (street the time) ability Insight (street the time) and base the supervision Insight (street the time) and base the supervision (solutions, clean work area, mistakes are reported (solutions, clean work area, mistakes are reported (solutions, clean work area, mistakes are reported (solutions, clean) work area, mistakes are reported (solutions, clean work area, mistakes are reported (soluti	handling	equipment incorrect,	handles equipment	handles equipment	handles		
mistakes are regularly prepares solutions, clean work area, mistakes are reported reported concerning basic knowledge/background, has difficulty understanding the project with team Team attitude: is polite, is on time, keeps lab clean, reports when materials are used up or broken, refilist tipboxes Lab book taking → title, date, experimental design, protocolo, observations, messy work area, does not always report mistakes are reported reported reported reported reported solutions, clean work area, mistakes are reported reported project, can mistakes are reported reported project, can definitely understandist the project, can identify links, searches for protocols, has difficulty understanding the project and it's broader context, identifies links, definites problems, has difficulties defining problems and propose possible alternatives alternatives Functioning in team tititude: is polite, is on time, keeps lab clean, reports when materials are used up or broken, refilist tipboxes Lab book taking				correctly,	equipment		
and data storage, waste handling Mistakes are made concerning basic handlity Mistakes are reported Midentify links, searches for protocols, has difficulties defining problems and propose possible alternatives Mistakes are reported Mistakes are reported Midentify links, searches for problems, has difficulties defining problems and propose possible alternatives Mistakes are reported Mistakes are reported Mistakes are reported Mistakes are reported Midentify links, searches for problems, has difficulties defining problems and possible Mistakes are reported Mistakes are reported Mistakes are reported Mistakes are reported Mistak	Also includes correct	does not report	correctly most of	Most of the time:	correctly,		
waste handling Supervision Solutions incorrect, messy work area, does not always report mistakes are work area, does not always report mistakes are reported reported reported reported	sample labeling	mistakes	the time,	accurately	accurately		
messy work area, does not always report mistakes are mode reported reporte	and data storage,	→ needs constant	regularly prepares	100000000000000000000000000000000000000	100000000000000000000000000000000000000		
Insight	waste handling	supervision			121		
Insight, problem solving ability Mistakes are made concerning basic knowledge/background, has difficulty understanding the project, cannot identify links, understanding the project with project with project and it's protocols, has difficulties with team team attitude; is polite, is on time, keeps lab clean, reports when materials are used up or broken, refills tipboxes Mistakes are made concerning basic concerning basic concerning basic understanding the understanding the project, cannot identify links, searches for protocols, has difficulties defining problems and problems and problems and problems and problems and possible alternatives Functioning in team Cannot collaborate with lab partner and/or team, no team attitude, difficulties with communication Lab partner and/or team, reports when materials are used up or broken, refills tipboxes Lab book taking → title, date, experimental design, protocol, observations, Mising the problems and suggests and comers up with to interpret Mising the project, can identify project, can identify project, can identify links, searches for protocols, has difficulties defining problems and difficulties defining problems, has difficulted internatives Difficult collaboration with alb partner and with lab partner and and team, good team, decent team attitude, professional communication Lab partner and team, decent team attitude, professional communication Lab partner and team, decent team attitude, professional communication Lab partner and team, decent team accurate, highly organized, experimental Lab partner and team, decent team accurate, not well-organized, fr			All the second s	193-193	District Colonia Colon		
Insight, problem solving ability Mistakes are made concerning basic knowledge/background, has difficulty understanding the project, cannot identify links, searches for understanding the project with earn titude; is polite, is on time, keeps lab clean, reports when materials are used up or broken, refills tipboxes Mistakes are made concerning basic knowledge/background, has difficulty understanding the project, cannot identify links, searches for protocols, has difficulties defining problems and propose possible alternatives Mistakes are made concerning basic knowledge/background, has difficulty understanding the project, cannot identify links, searches for protocols, defines problems, has difficulties suggesting problems and suggests alternatives alternatives Mistakes are made concerning basic knowledge/background, has difficulties with lidentify links, searches for protocols, defines problems, has difficulties suggesting problems, has difficulties suggesting problems and suggests alternatives alternatives alternatives alternatives alternatives with lab partner and/or lab partner and/or team, team attitude, lis limited, linconsistent communication with lab partner and team, decent team attitude, proper communication with lab partner and team, decent team attitude, professional communication communication well-organized, frequently difficult to interpret well-organized, officulties well-organized, frequently difficult to interpret interpretable, information such as identify links, searches for protocols, defines prot							
problem solving ability Concerning basic knowledge/background, has difficulty understanding the project, cannot identify links, searches for protocols, has difficulties defining problems and propose possible alternatives Functioning in team tititude: is polite, is on time, keeps lab clean, reports when materials are used up or broken, refills tipboxes Lab book taking							
ability knowledge/background, has difficulty understanding the project cannot identify links, cannot identify problems and propose possible alternatives possible alte		111 122 141		1.0	101	10000000	
has difficulty understanding the project understanding the projects, has difficulties understanding problems and difficulties understanding problems and difficulties understanding underst		concerning basic	understanding the		project, can	The second secon	
understanding the project cannot identify problems and propose possible alternatives problems and problems and propose possible alternatives problems and difficulties suggesting problems and suggests alternatives and suggests alternatives possible alternatives and suggests alternatives and suggests alternatives and suggests alternatives possible alternatives and suggests alternatives and suggests alternatives and suggests alternatives and suggests alternatives possible alternatives and suggests alternatives and suggests alternatives and suggests alternatives and suggests alternatives possible alternatives and suggests alternatives and suggests alternatives and suggests alternatives possible alternatives and suggests alternatives and suggests alternatives and suggests alternatives and suggests alternatives possible alternatives and suggests alternatives and suggests alternatives and suggests alternatives and suggests alternatives possible alternatives and suggests alternatives and suggests alternatives and suggests alternatives possible alternatives and suggests alternatives, summarizes results and suggests alternatives, summarizes results and suggests alternatives, summarizes results and suggests alternatives and suggests alternatives.	ability		10.00				10.00 - 10.00 - 10.00
project problems and propose possible alternatives problems and propose possible alternatives and suggests alternatives and suggests alternatives and suggests alternatives possible alternatives and suggests alternatives and suggests alternatives possible alternatives possible alternatives and suggests alternatives. Functioning in team							
propose possible alternatives and suggests alternatives Functioning in team Cannot collaborate with lab partner and/or team, no team attitude; is polite, is on time, keeps lab clean, reports when materials are used up or broken, refills tipboxes Lab book taking → title, date, experimental design, protocol, observations, Propose possible alternatives suggesting possible alternatives and suggests alternatives Decent collaboration with lab partner and team, good team attitude, attitude, proper communication communication Decent collaboration with lab partner and team, good team attitude, professional communication Team attitude, is on time, keeps lab clean, communication Mainly complete and accurate, not well-organized, frequently difficult to interpret Mainly complete and accurate, organized, organized, interpretable, information such as		175.000					
Functioning in team tititude: is polite, is on time, keeps lab clean, reports when materials are used up or broken, refills tipboxes		project			The second secon	THE SECOND CONTRACTOR OF THE SECOND CONTRACTOR	
Functioning in team Cannot collaborate with lab partner and/or team, no team attitude, is polite, is on time, keeps lab clean, reports when materials are used up or broken, refills tipboxes Incomplete or experimental design, protocol, observations,			propose possible	problems and	difficulties	identifies links,	summarizes results
Functioning in team Team attitude: is polite, is on time, keeps lab clean, reports when materials are used up or broken, refills tipboxes Lab book taking → title, date, experimental design, protocol, observations, Cannot collaborate with lab partner and/or team, no team attitude, lab partner and/or team, team attitude is limited, lab partner and team, decent team attitude, proper communication Difficult Decent Good collaboration with lab partner and team, good team, decent team attitude, proper communication communication			alternatives	1.000	suggesting	defines problems	
Functioning in Cannot collaborate with lab partner and/or team, no team attitude, no team attitude, is polite, is on time, keeps lab clean, reports when materials are used up or broken, refills tipboxes Lab book taking - title, date, experimental design, protocol, observations, Team attitude: Iab partner and/or team, collaboration with lab partner and team, decent team attitude, collaboration with lab partner and team, decent team attitude, proper communication Tifficult collaboration with lab partner and team, good team, decent team attitude, proper communication Tommunication Decent collaboration with lab partner and team, good team, decent team attitude, proper communication Tommunication Tomplete or incorrect, unorganized, and accurate, not well-organized, frequently difficult to interpret Tomplete and accurate, accurate, highly organized, organized, organized, interpretable, information such as				alternatives		200	plans for follow up
team Team attitude: is polite, is on time, keeps lab clean, reports when materials are used up or broken, refills tipboxes Lab book taking → title, date, experimental design, protocol, observations, Ab partner and/or team, no team attitude, lab partner and team, decent team attitude, is limited, inconsistent communication Ab partner and/or team, decent team attitude, proper communication Ab partner and team, good team, decent team attitude, proper communication Communication Communication Communication					alternatives	alternatives	
Team attitude: is polite, is on time, keeps lab clean, reports when materials are used up or broken, refills tipboxes Lab book taking + title, date, experimental design, protocol, observations, Team attitude, lab partner and team, decent team attitude, proper communication Incomplete or incorrect, unorganized, frequently difficult to interpret Iab partner and team, good team attitude, proper communication Team attitude: lab partner and team, decent team attitude, proper communication Tommunication Tomplete or incorrect, unorganized, frequently difficult to interpret Team attitude: lab partner and team, good team attitude, proper communication Tommunication Tomplete and accurate, accurate, highly organized, organized, organized, easy interpretable, information such as	Functioning in	Cannot collaborate with	Difficult	Decent	Good collaboration		
polite, is on time, keeps lab clean, reports when materials are used up or broken, refills tipboxes Lab book taking experimental design, protocol, observations, Description Descr	team	lab partner and/or team,	collaboration with	collaboration with	with lab partner		
keeps lab clean, reports when materials are used up or broken, refills tipboxes communication is limited, inconsistent communication attitude, proper communication professional communication Lab book taking → title, date, experimental design, protocol, observations, Incomplete or incorrect, unorganized, design, protocol, observations, Mainly complete and accurate, not well-organized, frequently difficult to interpret Complete and accurate, organized, organized, organized, interpretable accurate, highly organized, organized, interpretable	Team attitude: is		lab partner and/or		and team, good		
reports when materials are used up or broken, refills tipboxes Lab book taking	12, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10	difficulties with	111 1111 1111		111111111111111111111111111111111111111		
materials are used up or broken, refills tipboxes Lab book taking → title, date, experimental design, protocol, observations, Mainly complete or incorrect, unorganized, difficult to interpret design, protocol, observations, Complete and accurate, not well-organized, frequently difficult to interpret Complete and accurate, accurate, highly organized, organized, organized, interpretable interpretable, information such as		communication	100000000000000000000000000000000000000	100	101		
Lab book taking > title, date, experimental design, protocol, observations, Incomplete or incorrect, unorganized, design, protocol, observations, Mainly complete and accurate, not well-organized, frequently difficult to interpret Complete and accurate, accurate, highly organized, frequently difficult to interpret interpretable	reports when		inconsistent	communication	communication		
Lab book taking Incomplete or incorrect, unorganized, design, protocol, observations, Mainly complete and and accurate, not well-organized, frequently difficult to interpret Complete and accurate, accurate, highly organized, organized, interpretable interpretable, information such as	700 000 000 000		communication				
Lab book taking Incomplete or incorrect, unorganized, experimental design, protocol, observations, Mainly complete and accurate, not well-organized, frequently difficult to interpret Complete and accurate, accurate, highly organized, organized, organized, interpretable interpretable, information such as							
→ title, date, incorrect, unorganized, experimental difficult to interpret design, protocol, observations, incorrect, unorganized, and accurate, not well-organized, organized, organized, organized, interpretable interpretable, information such as							
experimental difficult to interpret well-organized, organized, organized, organized, easy interpretable, observations, to interpret to interpret information such as							
design, protocol, observations, frequently difficult to interpret interpretable interpretable, information such as							
observations, to interpret information such as		difficult to interpret					
				interpretable			
results, reagents,			to interpret				
conclusion) equipment,	conclusion)						
sample/data							
storage is present					storage is present		



3.1.2 Rubric process - Track B

	_			I		
Planning / organization	Does not meet deadlines, waits for instructions	Meets deadlines, waits for instructions	Meets deadlines, tries to make a daily schedule, has difficulties with adjusting the schedule	Meets deadlines, tries to make a daily schedule, tries to adjusts schedule if needed, thinks ahead	Meets deadlines, makes a daily schedule, adjusts schedule if needed, thinks ahead, prioritizes	
Effort/willingness to learn	Is not motivated, does not take notes or ask questions, does not ask for help when needed	Seems indifferent, asks few questions, does not always ask for help when needed	Is motivated, listens active, asks questions, asks for help when needed	Very motivated, listens active, asks questions, asks for help when needed, takes initiative, asks for work	Extremely motivated, interest goes beyond the project	
Independence	Cannot perform a simple activity independently, needs constant supervision, has difficulties adjusting his/her work after feedback	Can perform a simple activity independently after multiple supervised executions, has difficulties adjusting his/her work after feedback	Can perform a simple activity independently after a few supervised executions, adjusts his/her work after feedback	Can perform a simple activity independently after one supervised execution, adjusts his/her work after feedback		
GCP: operates in line with guidelines, integrity, accuracy	Mistakes are made regularly for the following aspects: accurate reporting, interpretation and verification, protects confidentiality of records Needs constant supervision	Small mistakes are made for the following aspects: accurate reporting, interpretation and verification, protects confidentiality of records	Follows the guidelines: accurate reporting, interpretation and verification, protects confidentiality of records			
Insight, problem solving ability	Mistakes are made concerning basic knowledge/background, has difficulty understanding the project	Has difficulty understanding the project, cannot identify links, cannot identify problems and propose possible alternatives	Understands the project, can identify links, has difficulties defining problems and possible alternatives	Understands the project, can identify links, defines problems, has difficulties suggesting possible alternatives	Good understanding of the project and its broader context, identifies links, defines problems and suggests alternatives	Good understanding of the project and its broader context, identifies links, defines problems and suggests alternatives, summarizes results and comes up with plans for follow up
Functioning in team Team attitude: is polite, is on time, keeps work area clean, reports when materials are used up or broken	Cannot collaborate with lab partner and/or team, no team attitude	Difficult collaboration with lab partner and/or team, team attitude is limited	Decent collaboration with lab partner and team, decent team attitude	Good collaboration with lab partner and team, good team attitude		
Communication	Difficult communication with patients, team and collaborators, message is mostly unclear and unstructured	Proper communication with patients, team and collaborators, message is mostly clear and structured	Professional communication with patients, team and collaborators, clear and structured message, tries to listen actively	Professional communication with patients, team and collaborators, clear and structured message, listens actively and asks questions to clarify understanding of person's point of view and reasoning		



3.1.3 Rubric report - Track A and B

Are the correct scientific terms used on average?	No	Yes
Is the number of spelling mistakes limited?	No	Yes
Are sentences concise and well-constructed (linking words, verbs,)?	No	Yes
Does the length of the report meet the guidelines (max 15 pages)?	No	Yes
Is the Vancouver style correctly used for references in the text and the reference list?	No	Yes

	Abstract	No abstract	Poorly reported,	Reasonably	Reasonably	Well reported and	Excellently reported,	Publishable
	→ Contains	110 00301000	multiple parts are	reported, some	reported, contains	clear, comprises	clear and concise,	quality
	background, aims,		missing	parts are missing	background, aims,	background,	comprises	quanty
5	result &		(background,	(background,	results and	aims, results and	background, aims,	
15	conclusion		aims, result,	aims, results or	conclusion, but	conclusion	results and	
ABSTRACT	Conclusion		conclusion)	conclusion)	different parts are	Concidatori	conclusion	
`			Conclusion	conclusiony	not in proportion		Conclusion	
					to each other			
\vdash	Introduction	No	Poorly reported,	Poorly reported,	Reasonably	Well reported and	Excellently reported,	Publishable
	→ contains	introduction	little relevance to	contains relevant	reported, contains	clear, relevant	clear and concise,	quality
l S	background,		the topic, does	background, basic	relevant	background,	relevant	,,
INTRODUCTION	unknown,		not contain	literature search	background,	evidence of a	background, clear	
3	experimental		relevant		sufficient	thorough	evidence of a	
1 2	approach,		background,		literature search	literature search	thorough literature	
I Z	relevant		superficial				search	
	references		literature search					
	Problem	Not clearly		Present, but not to	Present, but not to	Clear, to the		
	statement	stated		the point and	the point or	point and		
				relevance is	relevance is	relevance is		
				missing	missing	stated		
	Material &	No M&M	Poorly reported,	Reasonably	Reasonably	Well reported and	Excellently reported,	Publishable quality
æ	methods		poorly described,	reported, not	reported, not	clear, well	clear and concise,	quality
FRIALS	→ description of		methods missing	concise,	concise or statistic	described,	clearly described,	
E E	the methods,			information is	methods are not	statistic methods	statistic methods	
MATERIALS	materials and			missing, statistic	defined	defined	clearly defined	
Σ	statistics			methods are not				
			B	defined			P. Lucka blanca in	
	Presentation of results	Results poorly presented in	Results poorly presented in	Results presented	results clearly presented in	Figures are interpretable	Publishable quality	
	→ Figures: correct	figures and	figures and	in figures and	figures and tables,			
		tables,	tables, legends	tables, legends are sufficiently	legends are clear	without text, legends are clear		
	graph type and labeling of axes,	legends are	contain	clear, but contain	regerius are clear	and complete		
	readable,	not present or	inaccuracies	inaccuracies		and complete		
S	statistical info.	incomplete	moccoracies	maccaracies				
RESULTS	Legend: title,	meompiece						
ES	experimental info,							
•	techniques,							
	statistical info							
	→ Tables:							
	labeling of							
	columns and							
	rows, readable, statistical info,		ļ ļ					
	title							
	Description of	Not present	Poorly reported,	Reasonably	Reasonably	Well reported and	Excellently reported,	Publishable
	results	rot present	essential results	reported, some	reported, results	clear, results are	clear and concise,	quality
	→ description of		are missing,	results are not	are sufficiently	adequately	results are clearly	,,
	all results present		results are poorly	(sufficiently)	described, logical	described and	described and	
	in figures &		described and	described, logical	order is missing	ordered	ordered	
	tables, cross		structured	order is missing				
	references to							
	figures and tables							
\neg	Discussion	Not present	Poorly reported,	Reasonably	Reasonably	Well reported and	Excellently reported,	Publishable
	→ summary of		results are poorly	reported, not all	reported, results	clear, results are	clear, concise and	quality
	main results,		compared to	main results are	are discussed and	discussed and	structured, results	
N O	comparison to		literature, not	compared to	compared to	compared to	are discussed and	
DISCUSSION	literature, future		well structured,	literature or	literature,	literature, clearly	compared to	
Ë	perspectives,		superficial	argumentation is	argumentation is	structured,	literature, strong	
DIS	main conclusion		literature search	superficial,	not always clear,	evidence of a	argumentation,	
	and implication,			sufficient	sufficient	thorough	clear evidence of a	
	relevant			literature search	literature search	literature search	thorough literature	
	references						search	



3.1.4 Rubric presentation - Track A and B

Was the duration of the presentation 10 \pm 1 min?

YES / No

Content	insufficient coverage of	coverage of the subject	Adequate coverage of the	Full coverage of the	Comprehensive, full	
→ content	the subject, the	is missing depth or is	content, the different	subject, selection of	coverage of the	
present on the	different sections of the	incomplete, the	sections of the	relevant results, the	subject, good selection	
slides and how	presentation are not	different sections of the	presentation are balanced	different sections of	of relevant results, the	
this is explained	balanced	presentation are not		the presentation are	different sections of the	
		balanced		well balanced	presentation are well	
					balanced	
Slides	Unclear or overloaded	Slides not always clear	Clear slides, good	Clear and attractive	Excellent, clear and	
	slides, little structure,	or are overloaded,	structure, proper citations	slides, good	attractive, good	
	important citations are	structure is mostly	are used	structure, proper	structure, creative,	
	missing	missing, citations are		citations are used	proper citations are	
		missing			used	
Posture and	Closed posture, sloppy,	Closed posture, tries to	Open posture, connects	Enthusiastic,	Excellent, compelling,	
persuasiveness	unmotivated,	connect to the	with audience, eye	enjoyable, open	enjoyable	
	presentation is	audience, presentation	contact, posture and	posture, frequent eye		
	mechanical	is mechanical	behavior are good but not	contact		
			consistent			
Oral delivery	Sloppy language,	Understandable, limited	Understandable, mostly	Understandable,	Clear and	
	unintelligible, no	use of scientific	scientific language, use of	mostly scientific	understandable,	
	scientific language,	language, monotonous,	intonation, too fast or	language, good use	scientific language,	
	monotonous,	too fast or slow	slow	of intonation,	natural flow, good use	
	distracting pacing			appropriate pacing	of intonation, excellent	
					pacing	
Discussion:	Knows little about the	Has a basic	Has sufficient	Has good	Has very good	Excellent, has
knowledge	topic, cannot correctly	understanding of the	understanding of the	understanding of the	understanding of the	extensive
\rightarrow Correctness	answer most trivial	topic, can only answer	topic, can answer most of	topic, can answer the	topic, gives a correct	knowledge of the
	questions	trivial questions	the questions correctly	questions	answer to all questions	topic, gives a
						correct answer
						to all questions,
						elaborates on
						the topic
Discussion:	Answers are	Answers are	Structured answers to the	Well-structured	Well-structured	
response to	unstructured, does not	unstructured but answer	questions, explores and	answers, to the point,	answers, to the point,	
questions	indicate exploration of	the questions, indicates	explains the issue	explores, explains	fully explores, explains	
\rightarrow	the issue, no direct	an attempt of		and expands upon	and expands upon the	
structure/thinking	answer to the questions	exploration of the issue		the issue	issue, incorporated	
process		00			critical thinking skills	
						l



3.2 Reflection on your evaluation

What stands out to you in your final rubric results:		
Which domains improved since the midterm evaluation:		
What remained unchanged or still needs improvements		
What remained unchanged or still needs improvement:		
What are you most proud of:		
How did your actions or mindset influence your final outcome:		
	>>	
	liii /	A C C

3.3 Overall reflection

What did you learn about yourself during this internship:
How have you grown in terms of skills, mindset, or attitude:
What feedback will you carry forward to your senior internship:
What are your goals for your next internship and beyond:



3.4 Notes for the future

Use this space for personal notes, reminders, or tips for your next			
internship:			

Need inspiration?

- What surprised me most about this internship?
- A moment I learned from but didn't expect...
- Something I thought I was bad at, but turned out okay...



"Feedback turns effort into excellence."



Welcome to the senior internship phase

You've made it to the final internship of your Biomedical Sciences program at Hasselt University, congratulations!

The senior internship is more than just the last phase of your academic training. It is an opportunity to apply everything you've learned, to act more independently, and to show how you've grown — not only in knowledge, but also in mindset, communication, professionalism, and responsibility.

This internship prepares you for your future career or further academic steps. It challenges you to take initiative, reflect deeply, and function as a nearly-graduated biomedical scientist.

Reminder: specializations and rubric tracks

Just like in the junior internship, your evaluation rubrics in this journal depend on your chosen graduation track.

There are two rubric tracks:

Track A – BEN, MHD, or EHS

Use the Track A Process rubric for your midterm and final evaluations.

Track B - KBW

Use the Track B Process rubric, specifically designed for the clinical track. The presentation and report rubrics are the same for all students across tracks. Please double-check that you always fill in the rubric pages that match your specialization. The rubric pages are clearly marked as "Track A" or "Track B".

This is your chance to look back, move forward, and close the loop of your internship experience. Use this journal to gather everything you've learned, about your work, and about yourself.

Let's begin.



1. Before the internship

To be completed before the start of your internship Set clear intentions, define your learning goals, and reflect on your growth so far.

1.1 General information

- BEN O
- EHS 0
- MHD O
- KBW O

nternship location / research group:
Project title / topic:
Daily supervisor:
Promotor:
Country (if abroad):
Start date – End date:



1.2 Your expectations and goals

What are your personal goals for this internship:			
What kind of prof	fessional role would you like to grow into during this		
Which rubric dom Presentation Process Report Why:	nain(s) do you want to improve in most: O O O		
What strengths f	rom previous internships will you bring into this one:		



	• •	
SONIOR	INTOKAC	hin
Selliul	interns	

1.3 Engaging with the rubric	
Please take time to review the correct set of rubrics for your specialise. Make sure you are looking at: Track A (BEN/MHD/EHS) Track B (KBW)	zation.
Now reflect: What parts of the rubric feel most familiar or achievable to you:	
What parts do you think will be most challenging:	
Are there rubric elements you still want to clarify with your supervisor before starting:	 or

UHASSELT KNOWLEDGE IN ACTION

2. Midpoint reflection (tussentijdse evaluatie)

To be completed in 3 steps: before, during and after your midterm evaluation meeting.

The midterm evaluation is a crucial checkpoint. It allows you and your supervisor to align your views, set priorities for the final internship weeks, and engage in open feedback. This journal is an active part of that process, you are expected to bring it to the evaluation meeting.

2.1 Step 1 - Before the meeting

Fill in your own rubric self-evaluation.

Go to the junior rubric on the next pages, Track A or B and mark your own scores for process and report.

This helps you prepare for the discussion and reflect critically on your own performance.





2.1.1 Rubric process - Track A

Planning / organization	Does not meet deadlines, waits for instructions	Meets deadlines, waits for instructions	Meets deadlines, tries to make a daily schedule, has difficulties with adjusting the schedule	Meets deadlines, tries to make a daily schedule, tries to adjusts schedule if needed, thinks ahead	Meets deadlines, makes a daily schedule, adjusts schedule if needed, thinks ahead, prioritizes	
Effort/willingness to learn	Is not motivated, does not take notes or ask questions, does not ask for help when needed	Seems indifferent, asks few questions, does not always ask for help when needed	Is motivated, listens active, asks questions, asks for help when needed	Very motivated, listens active, asks questions, asks for help when needed, takes initiative, asks for work	Extremely motivated, interest goes beyond the project	
Independence	Cannot perform a simple protocol independently, needs constant supervision, has difficulties adjusting his/her work after feedback	Can perform a simple protocol independently after multiple supervised executions, has difficulties adjusting his/her work after feedback	Can perform a simple protocol independently after a few supervised executions, adjusts his/her work after feedback	Can perform a simple protocol independently after one supervised execution, adjusts his/her work after feedback	Can independently perform experiments based on a protocol, adjusts his/her work after feedback	
Accuracy, safety, equipment handling Also includes correct sample labeling and data storage, waste handling	Does not respect safety regulations, handles equipment incorrect, does not report mistakes — needs constant supervision	Safety regulations are respected, handles equipment correctly most of the time, regularly prepares solutions incorrect, messy work area, does not always report mistakes	Safety regulations are respected, handles equipment correctly Most of the time: accurately prepared solutions, clean work area, mistakes are reported	Safety regulations are respected, handles equipment correctly, accurately prepared solutions, clean work area, mistakes are reported		
Insight, problem solving ability	Mistakes are made concerning basic knowledge/background, has difficulty understanding the project	Has difficulty understanding the project, cannot identify links, cannot identify problems and propose possible alternatives	Understands the project, can identify links, searches for protocols, has difficulties defining problems and possible alternatives	Understands the project, can identify links, searches for protocols, defines problems, has difficulties suggesting possible alternatives	Good understanding of the project and it's broader context, searches for protocols, identifies links, defines problems and suggests alternatives	Good understanding of the project and it's broader context, identifies links, defines problems and suggests alternatives, summarizes results and comes up with plans for follow up
Team attitude: is polite, is on time, keeps lab clean, reports when materials are used up or broken, refills tipboxes	Cannot collaborate with lab partner and/or team, no team attitude, difficulties with communication	Difficult collaboration with lab partner and/or team, team attitude is limited, inconsistent communication	Decent collaboration with lab partner and team, decent team attitude, proper communication	Good collaboration with lab partner and team, good team attitude, professional communication		
Lab book taking > title, date, experimental design, protocol, observations, results, conclusion)	Incomplete or incorrect, unorganized, difficult to interpret	Mainly complete and accurate, not well-organized, frequently difficult to interpret	Complete and accurate, organized, interpretable	Complete and accurate, highly organized, easy interpretable, information such as reagents, equipment, sample/data storage is present		



2.1.2 Rubric process - Track B

Planning /	Door not most	Meets deadlines,	Monte don dinne	Meets deadlines,	Meets deadlines,	
organization	Does not meet	waits for	Meets deadlines,	tries to make a daily		
organization	deadlines, waits for		tries to make a		makes a daily	
	instructions	instructions	daily schedule,	schedule, tries to	schedule, adjusts	
			has difficulties	adjusts schedule if	schedule if needed,	
			with adjusting the	needed, thinks	thinks ahead,	
			schedule	ahead	prioritizes	
Effort/willingness	Is not motivated, does	Seems indifferent,	Is motivated,	Very motivated,	Extremely	
to learn	not take notes or ask	asks few	listens active, asks	listens active, asks	motivated, interest	
	questions, does not ask	questions, does	questions, asks for	questions, asks for	goes beyond the	
	for help when needed	not always ask for	help when needed	help when needed,	project	
		help when needed		takes initiative, asks		
		,		for work		
Independence	Cannot perform a simple	Can perform a	Can perform a	Can perform a	Can independently	
ziiucpeiiuciice	activity independently,	simple activity	simple activity	simple activity	perform an activity,	
		independently after	independently after	independently after	adjusts his/her work	
	needs constant					
	supervision, has	multiple supervised	a few supervised	one supervised	after feedback	
	difficulties adjusting	executions, has	executions, adjusts	execution, adjusts		
	his/her work after	difficulties adjusting	his/her work after	his/her work after		
	feedback	his/her work after	feedback	feedback		
		feedback				
GCP: operates in	Mistakes are made	Small mistakes are	Follows the			
line with	regularly for the	made for the	guidelines:			
guidelines,	following aspects:	following aspects:	accurate reporting,			
integrity,	accurate reporting,	accurate reporting,	interpretation and			
accuracy	interpretation and	interpretation and	verification,			
uccuracy	verification, protects	verification,	protects			
	confidentiality of	protects	confidentiality of			
	records	confidentiality of	records			
	→ Needs constant	records				
	supervision					
Insight,	Mistakes are made	Has difficulty	Understands the	Understands the	Good	Good
problem solving	concerning basic	understanding the	project, can	project, can identify	understanding of	understanding of
ability		project, cannot	identify links, has	links, defines	the project and its	the project and its
aviiity	knowledge/background, has difficulty	identify links,	difficulties defining	problems, has	broader context,	broader context,
				difficulties	CONTRACTOR OF CONTRACTOR	
	understanding the	cannot identify	problems and		identifies links,	identifies links,
	project	problems and	possible	suggesting possible	defines problems	defines problems
		propose possible	alternatives	alternatives	and suggests	and suggests
		alternatives			alternatives	alternatives,
						summarizes
						results and comes
1						up with plans for
Functioning in	Cannot collaborate with	Difficult	Decent	Good collaboration		up with plans for
team	lab partner and/or team,	collaboration with	collaboration with	with lab partner and		up with plans for
team Team attitude: is		collaboration with lab partner and/or	collaboration with lab partner and	with lab partner and team, good team		up with plans for
team	lab partner and/or team,	collaboration with	collaboration with	with lab partner and		up with plans for
team Team attitude: is	lab partner and/or team,	collaboration with lab partner and/or	collaboration with lab partner and	with lab partner and team, good team		up with plans for
team Team attitude: is polite, is on time,	lab partner and/or team,	collaboration with lab partner and/or team, team attitude	collaboration with lab partner and team, decent team	with lab partner and team, good team		up with plans for
team Team attitude: is polite, is on time, keeps work area	lab partner and/or team,	collaboration with lab partner and/or team, team attitude	collaboration with lab partner and team, decent team	with lab partner and team, good team		up with plans for
team Team attitude: is polite, is on time, keeps work area clean, reports when	lab partner and/or team,	collaboration with lab partner and/or team, team attitude	collaboration with lab partner and team, decent team	with lab partner and team, good team		up with plans for
team Team attitude: is polite, is on time, keeps work area clean, reports when materials are used	lab partner and/or team,	collaboration with lab partner and/or team, team attitude	collaboration with lab partner and team, decent team	with lab partner and team, good team		up with plans for
team Team attitude: is polite, is on time, keeps work area clean, reports when materials are used	lab partner and/or team,	collaboration with lab partner and/or team, team attitude	collaboration with lab partner and team, decent team	with lab partner and team, good team		up with plans for
team Team attitude: is polite, is on time, keeps work area clean, reports when materials are used up or broken	lab partner and/or team, no team attitude	collaboration with lab partner and/or team, team attitude is limited	collaboration with lab partner and team, decent team attitude	with lab partner and team, good team attitude		up with plans for
team Team attitude: is polite, is on time, keeps work area clean, reports when materials are used up or broken	lab partner and/or team, no team attitude Difficult communication	collaboration with lab partner and/or team, team attitude is limited	collaboration with lab partner and team, decent team attitude	with lab partner and team, good team attitude		up with plans for
team Team attitude: is polite, is on time, keeps work area clean, reports when materials are used up or broken	lab partner and/or team, no team attitude Difficult communication with patients, team and	collaboration with lab partner and/or team, team attitude is limited Proper communication	collaboration with lab partner and team, decent team attitude	with lab partner and team, good team attitude Professional communication		up with plans for
team Team attitude: is polite, is on time, keeps work area clean, reports when materials are used up or broken	lab partner and/or team, no team attitude Difficult communication with patients, team and collaborators, message	collaboration with lab partner and/or team, team attitude is limited Proper communication with patients,	collaboration with lab partner and team, decent team attitude Professional communication with patients,	with lab partner and team, good team attitude Professional communication with patients,		up with plans for
team Team attitude: is polite, is on time, keeps work area clean, reports when materials are used up or broken	lab partner and/or team, no team attitude Difficult communication with patients, team and collaborators, message is mostly unclear and	collaboration with lab partner and/or team, team attitude is limited Proper communication with patients, team and collaborators,	collaboration with lab partner and team, decent team attitude Professional communication with patients, team and collaborators,	with lab partner and team, good team attitude Professional communication with patients, team and collaborators, clear		up with plans for
team Team attitude: is polite, is on time, keeps work area clean, reports when materials are used up or broken	lab partner and/or team, no team attitude Difficult communication with patients, team and collaborators, message is mostly unclear and	collaboration with lab partner and/or team, team attitude is limited Proper communication with patients, team and collaborators, message is mostly	collaboration with lab partner and team, decent team attitude Professional communication with patients, team and collaborators, clear and	with lab partner and team, good team attitude Professional communication with patients, team and collaborators, clear and structured		up with plans for
team Team attitude: is polite, is on time, keeps work area clean, reports when materials are used up or broken	lab partner and/or team, no team attitude Difficult communication with patients, team and collaborators, message is mostly unclear and	collaboration with lab partner and/or team, team attitude is limited Proper communication with patients, team and collaborators, message is mostly clear and	collaboration with lab partner and team, decent team attitude Professional communication with patients, team and collaborators, clear and structured	with lab partner and team, good team attitude Professional communication with patients, team and collaborators, clear and structured message, listens		up with plans for
team Team attitude: is polite, is on time, keeps work area clean, reports when materials are used up or broken	lab partner and/or team, no team attitude Difficult communication with patients, team and collaborators, message is mostly unclear and	collaboration with lab partner and/or team, team attitude is limited Proper communication with patients, team and collaborators, message is mostly	collaboration with lab partner and team, decent team attitude Professional communication with patients, team and collaborators, clear and structured message, tries to	with lab partner and team, good team attitude Professional communication with patients, team and collaborators, clear and structured message, listens actively and asks		up with plans for
team Team attitude: is polite, is on time, keeps work area clean, reports when materials are used up or broken	lab partner and/or team, no team attitude Difficult communication with patients, team and collaborators, message is mostly unclear and	collaboration with lab partner and/or team, team attitude is limited Proper communication with patients, team and collaborators, message is mostly clear and	collaboration with lab partner and team, decent team attitude Professional communication with patients, team and collaborators, clear and structured	with lab partner and team, good team attitude Professional communication with patients, team and collaborators, clear and structured message, listens actively and asks questions to clarify		up with plans for
team Team attitude: is polite, is on time, keeps work area clean, reports when materials are used up or broken	lab partner and/or team, no team attitude Difficult communication with patients, team and collaborators, message is mostly unclear and	collaboration with lab partner and/or team, team attitude is limited Proper communication with patients, team and collaborators, message is mostly clear and	collaboration with lab partner and team, decent team attitude Professional communication with patients, team and collaborators, clear and structured message, tries to	with lab partner and team, good team attitude Professional communication with patients, team and collaborators, clear and structured message, listens actively and asks questions to clarify understanding of		up with plans for
team Team attitude: is polite, is on time, keeps work area clean, reports when materials are used up or broken	lab partner and/or team, no team attitude Difficult communication with patients, team and collaborators, message is mostly unclear and	collaboration with lab partner and/or team, team attitude is limited Proper communication with patients, team and collaborators, message is mostly clear and	collaboration with lab partner and team, decent team attitude Professional communication with patients, team and collaborators, clear and structured message, tries to	with lab partner and team, good team attitude Professional communication with patients, team and collaborators, clear and structured message, listens actively and asks questions to clarify understanding of person's point of		up with plans for
team Team attitude: is polite, is on time, keeps work area clean, reports when materials are used up or broken	lab partner and/or team, no team attitude Difficult communication with patients, team and collaborators, message is mostly unclear and	collaboration with lab partner and/or team, team attitude is limited Proper communication with patients, team and collaborators, message is mostly clear and	collaboration with lab partner and team, decent team attitude Professional communication with patients, team and collaborators, clear and structured message, tries to	with lab partner and team, good team attitude Professional communication with patients, team and collaborators, clear and structured message, listens actively and asks questions to clarify understanding of		up with plans for



2.1.3 Rubric report - Track A and B

Are the correct scientific terms used on average?	No	Yes
Is the number of spelling mistakes limited?	No	Yes
Are sentences concise and well-constructed (linking words, verbs,)?	No	Yes
Does the length of the report meet the guidelines (max 25p exclusive supplementals)?	No	Yes
Is the Vancouver style correctly used for references in the text and the reference list?	No	Yes
Is the essence of the work (M&M, results) selected for the report, are side issues in the supplementals?	No	Yes

	Abstract	No abstract	Boorby reported	Reasonably	Beaconably	Well reported and	Evcellently reported	Publishable
		IVO abstract	Poorly reported,		Reasonably reported, contains	Well reported and clear, comprises	Excellently reported,	
	→ Contains		multiple parts are	reported, some			clear and concise,	quality
5	background, aims,		missing	parts are missing	background, aims,	background,	comprises	
2	result &		(background,	(background,	results and	aims, results and	background, aims,	
ABSTRACT	conclusion		aims, result,	aims, results or	conclusion, but	conclusion	results and	
AB			conclusion)	conclusion)	different parts are		conclusion	
					not in proportion			
					to each other			
	Introduction	No	Poorly reported,	Poorly reported,	Reasonably	Well reported and	Excellently reported,	Publishable
	→ contains	introduction	little relevance to	contains relevant	reported, contains	clear, relevant	clear and concise,	quality
S O	background,		the topic, does	background, basic	relevant	background,	relevant	quanty
Ē	unknown,			literature search	background,	evidence of a	background, clear	
ž	000 (000 (0)		not contain	interacure search		193		
õ	experimental		relevant		sufficient	thorough	evidence of a	
INTRODUCTION	approach,		background,		literature search	literature search	thorough literature	
-	relevant		superficial				search	
	references		literature search					
	Problem	Not clearly		Present, but not to	Present, but not to	Clear, to the		
	statement	stated		the point and	the point or	point and		
				relevance is	relevance is	relevance is		
				missing	missing	stated		
						510100		
	Material &	No M&M	Poorly reported,	Reasonably	Reasonably	Well reported and	Excellently reported,	Publishable
	methods	TO FIGURE		411.707	reported, not			quality
05 UN			poorly described,	reported, not		clear, well	clear and concise,	
ALS	→ description of		methods missing	concise,	concise or statistic	described,	clearly described,	
MATERIALS &	the methods,			information is	methods are not	statistic methods	statistic methods	
A	materials and			missing, statistic	defined	defined	clearly defined	
Σ	statistics			methods are not				
				defined				
	Presentation of	Results poorly	Results poorly	Results presented	results clearly	Figures are	Publishable quality	
	results	presented in	presented in	in figures and	presented in	interpretable		
	→ Figures: correct	figures and	figures and	tables, legends	figures and tables,	without text,		
	graph type and	tables,	tables, legends	are sufficiently	legends are clear	legends are clear		
	labeling of axes,	legends are	contain	clear, but contain		and complete		
	readable,	not present or	inaccuracies	inaccuracies				
w	statistical info.	incomplete	maccaracies	moces deles				
RESULTS	Legend: title,	meompiece						
ESU								
2	experimental info,							
	techniques,							
	statistical info							
	→ Tables:							
	labeling of							
	columns and							
	rows, readable,							
	statistical info,							
	title							
	Description of	Not present	Poorly reported,	Reasonably	Reasonably	Well reported and	Excellently reported,	Publishable
	results		essential results	reported, some	reported, results	clear, results are	clear and concise,	quality
	→ description of		are missing,	results are not	are sufficiently	adequately	results are clearly	
	all results present		results are poorly	(sufficiently)	described, logical	described and	described and	
			december december	described, logical	order is missing	ordered	ordered	
	in figures &		described and					
	in figures & tables, cross		structured	order is missing				
	tables, cross							
	tables, cross references to	Not present	structured	order is missing	Reasonably	Well reported and	Excellently reported.	Publishable
	tables, cross references to figures and tables Discussion	Not present	structured Poorly reported,	order is missing	Reasonably reported, results	100	Excellently reported, clear, concise and	
	tables, cross references to figures and tables Discussion → summary of	Not present	Poorly reported, results are poorly	order is missing Reasonably reported, not all	reported, results	clear, results are	clear, concise and	Publishable quality
z	tables, cross references to figures and tables Discussion → summary of main results,	Not present	Poorly reported, results are poorly compared to	Reasonably reported, not all main results are	reported, results are discussed and	clear, results are discussed and	clear, concise and structured, results	
ION	tables, cross references to figures and tables Discussion → summary of main results, comparison to	Not present	Poorly reported, results are poorly compared to literature, not	Reasonably reported, not all main results are compared to	reported, results are discussed and compared to	clear, results are discussed and compared to	clear, concise and structured, results are discussed and	
NOISSION	tables, cross references to figures and tables Discussion → summary of main results, comparison to literature, future	Not present	Poorly reported, results are poorly compared to literature, not well structured,	Reasonably reported, not all main results are compared to literature or	reported, results are discussed and compared to literature,	clear, results are discussed and compared to literature, clearly	clear, concise and structured, results are discussed and compared to	
SCUSSION	tables, cross references to figures and tables Discussion → summary of main results, comparison to literature, future perspectives,	Not present	Poorly reported, results are poorly compared to literature, not well structured, superficial	Reasonably reported, not all main results are compared to literature or argumentation is	reported, results are discussed and compared to literature, argumentation is	clear, results are discussed and compared to literature, clearly structured,	clear, concise and structured, results are discussed and compared to literature, strong	
DISCUSSION	tables, cross references to figures and tables Discussion > summary of main results, comparison to literature, future perspectives, main conclusion	Not present	Poorly reported, results are poorly compared to literature, not well structured,	Reasonably reported, not all main results are compared to literature or argumentation is superficial,	reported, results are discussed and compared to literature, argumentation is not always clear,	clear, results are discussed and compared to literature, clearly structured, evidence of a	clear, concise and structured, results are discussed and compared to literature, strong argumentation,	
DISCUSSION	tables, cross references to figures and tables Discussion → summary of main results, comparison to literature, future perspectives,	Not present	Poorly reported, results are poorly compared to literature, not well structured, superficial	Reasonably reported, not all main results are compared to literature or argumentation is	reported, results are discussed and compared to literature, argumentation is	clear, results are discussed and compared to literature, clearly structured,	clear, concise and structured, results are discussed and compared to literature, strong	
DISCUSSION	tables, cross references to figures and tables Discussion > summary of main results, comparison to literature, future perspectives, main conclusion	Not present	Poorly reported, results are poorly compared to literature, not well structured, superficial	Reasonably reported, not all main results are compared to literature or argumentation is superficial,	reported, results are discussed and compared to literature, argumentation is not always clear,	clear, results are discussed and compared to literature, clearly structured, evidence of a	clear, concise and structured, results are discussed and compared to literature, strong argumentation,	
DISCUSSION	tables, cross references to figures and tables Discussion > summary of main results, comparison to literature, future perspectives, main conclusion and implication,	Not present	Poorly reported, results are poorly compared to literature, not well structured, superficial	Reasonably reported, not all main results are compared to literature or argumentation is superficial, sufficient	reported, results are discussed and compared to literature, argumentation is not always clear, sufficient	clear, results are discussed and compared to literature, clearly structured, evidence of a thorough	clear, concise and structured, results are discussed and compared to literature, strong argumentation, clear evidence of a	



2.1.4 Rubric presentation - Track A and B

Was the duration of the presentation 10±1 min?

YES / No

Content	insufficient coverage	coverage of the subject is	Adequate coverage of the	Full coverage of the	Comprehensive, full	
→ content	of the subject, the	missing depth or is	content, the different	subject, selection of	coverage of the	
present on the	different sections of	incomplete, the different	sections of the	relevant results, the	subject, good selection	
slides and how	the presentation are	sections of the	presentation are balanced	different sections of	of relevant results, the	
this is explained	not balanced	presentation are not		the presentation are	different sections of the	
		balanced		well balanced	presentation are well	
					balanced	
Slides	Unclear or overloaded	Slides not always clear or	Clear slides, good	Clear and attractive	Excellent, clear and	
	slides, little structure,	are overloaded, structure	structure, proper citations	slides, good	attractive, good	
	important citations are	is mostly missing,	are used	structure, proper	structure, creative,	
	missing	citations are missing		citations are used	proper citations are	
					used	
Posture and	Closed posture,	Closed posture, tries to	Open posture, connects	Enthusiastic,	Excellent, compelling,	
persuasiveness	sloppy, unmotivated,	connect to the audience,	with audience, eye	enjoyable, open	enjoyable	
	presentation is	presentation is	contact, posture and	posture, frequent eye		
	mechanical	mechanical	behavior are good but not	contact		
			consistent			
Oral delivery	Sloppy language,	Understandable, limited	Understandable, mostly	Understandable,	Clear and	
	unintelligible, no	use of scientific	scientific language, use of	mostly scientific	understandable,	
	scientific language,	language, monotonous,	intonation, too fast or	language, good use of	scientific language,	
	monotonous,	too fast or slow	slow	intonation,	natural flow, good use	
	distracting pacing			appropriate pacing	of intonation, excellent	
					pacing	
Discussion:	Know little about the	Has a basic	Has sufficient	Has good	Has very good	Excellent, has
knowledge	topic, cannot correctly	understanding of the	understanding of the	understanding of the	understanding of the	extensive
→ Correctness	answer most trivial	topic, can only answer	topic, can answer most of	topic, can answer the	topic, gives a correct	knowledge of the
	questions	trivial questions	the questions correctly	questions	answer to all questions	topic, gives a
						correct answer
						to all questions,
						elaborates on
						the topic
Discussion:	Answers are	Answers are unstructured	Structured answers to the	Well-structured	Well-structured	
response to	unstructured, does not	but answer the	questions, explores and	answers, to the point,	answers, to the point,	
questions	indicate exploration of	questions, indicates an	explains the issue	explores, explains	fully explores, explains	
\rightarrow	the issue, no direct	attempt of exploration of		and expands upon	and expands upon the	
structure/thinking	answer to the	the issue		the issue	issue, incorporated	
process	questions				critical thinking skills	



2.2 Step 2 - During the meeting

Your supervisor will bring their own completed version of the rubric to the midterm evaluation.

During the conversation, you will:

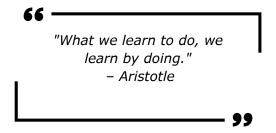
- Look at your supervisor's scores, and
- Mark their scores yourself on the second rubric copy included in this journal on the next pages. Make sure you use the correct track.

This means that you are responsible for accurately recording your supervisor's scores in your own journal.

We recommend that you:

- · Use colour.
- Pay attention to where your scores align, and where they don't.

This active marking process helps you internalize the feedback, rather than just hearing it.





2.2.1 Rubric process - Track A

Planning / organization Effort/willingness to learn	Does not meet deadlines, waits for instructions Is not motivated, does not take notes or ask questions, does not ask for help when needed	Meets deadlines, waits for instructions Seems indifferent, asks few questions, does not always ask for help when needed	Meets deadlines, tries to make a daily schedule, has difficulties with adjusting the schedule Is motivated, listens active, asks questions, asks for help when needed	Meets deadlines, tries to make a daily schedule, tries to adjusts schedule if needed, thinks ahead Very motivated, listens active, asks questions, asks for help when needed, takes initiative, asks for work	Meets deadlines, makes a daily schedule, adjusts schedule if needed, thinks ahead, prioritizes Extremely motivated, interest goes beyond the project	
Independence	Cannot perform a simple protocol independently, needs constant supervision, has difficulties adjusting his/her work after feedback	Can perform a simple protocol independently after multiple supervised executions, has difficulties adjusting his/her work after feedback	Can perform a simple protocol independently after a few supervised executions, adjusts his/her work after feedback	Can perform a simple protocol independently after one supervised execution, adjusts his/her work after feedback	Can independently perform experiments based on a protocol, adjusts his/her work after feedback	
Accuracy, safety, equipment handling Also includes correct sample labeling and data storage, waste handling	Does not respect safety regulations, handles equipment incorrect, does not report mistakes → needs constant supervision	Safety regulations are respected, handles equipment correctly most of the time, regularly prepares solutions incorrect, messy work area, does not always report mistakes	Safety regulations are respected, handles equipment correctly Most of the time: accurately prepared solutions, clean work area, mistakes are reported	Safety regulations are respected, handles equipment correctly, accurately prepared solutions, clean work area, mistakes are reported		
Insight, problem solving ability	Mistakes are made concerning basic knowledge/background, has difficulty understanding the project	Has difficulty understanding the project, cannot identify links, cannot identify problems and propose possible alternatives	Understands the project, can identify links, searches for protocols, has difficulties defining problems and possible alternatives	Understands the project, can identify links, searches for protocols, defines problems, has difficulties suggesting possible alternatives	Good understanding of the project and it's broader context, searches for protocols, identifies links, defines problems and suggests alternatives	Good understanding of the project and it's broader context, identifies links, defines problems and suggests alternatives, summarizes results and comes up with plans for follow up
Functioning in team Team attitude: is polite, is on time, keeps lab clean, reports when materials are used up or broken, refills tipboxes	Cannot collaborate with lab partner and/or team, no team attitude, difficulties with communication	Difficult collaboration with lab partner and/or team, team attitude is limited, inconsistent communication	Decent collaboration with lab partner and team, decent team attitude, proper communication	Good collaboration with lab partner and team, good team attitude, professional communication		
Lab book taking → title, date, experimental design, protocol, observations, results, conclusion)	Incomplete or incorrect, unorganized, difficult to interpret	Mainly complete and accurate, not well-organized, frequently difficult to interpret	Complete and accurate, organized, interpretable	Complete and accurate, highly organized, easy interpretable, information such as reagents, equipment, sample/data storage is present		



2.2.2 Rubric process - Track B

Planning /	Does not meet	Meets deadlines,	Meets deadlines,	Meets deadlines,	Meets deadlines,	
organization	deadlines, waits for	waits for	tries to make a	tries to make a daily	makes a daily	
	instructions	instructions	daily schedule,	schedule, tries to	schedule, adjusts	
			has difficulties	adjusts schedule if	schedule if needed,	
			with adjusting the	needed, thinks	thinks ahead,	
			schedule	ahead	prioritizes	
Effort/willingness	Is not motivated, does	Seems indifferent,	Is motivated,	Very motivated,	Extremely	
to learn	not take notes or ask	asks few	listens active, asks	listens active, asks	motivated, interest	
	questions, does not ask	questions, does	questions, asks for	questions, asks for	goes beyond the	
	for help when needed	not always ask for	help when needed	help when needed,	project	
		help when needed		takes initiative, asks	, , , , , , , , , , , , , , , , , , , ,	
		neip men needed		for work		
				TOT WOLK		
Tudou ou dou oo	Connet necleon a simple	Can andrew a	Con andrew o	Con conform o	Can independently	
Independence	Cannot perform a simple	Can perform a	Can perform a	Can perform a	Can independently	
	activity independently,	simple activity	simple activity	simple activity	perform an activity,	
	needs constant	independently after	independently after	independently after	adjusts his/her work	
	supervision, has	multiple supervised	a few supervised	one supervised	after feedback	
	difficulties adjusting	executions, has	executions, adjusts	execution, adjusts		
	his/her work after	difficulties adjusting	his/her work after	his/her work after		
	feedback	his/her work after	feedback	feedback		
		feedback				
	Management		F-11	I	I	1
GCP: operates in	Mistakes are made	Small mistakes are	Follows the			
line with	regularly for the	made for the	guidelines:			
guidelines,	following aspects:	following aspects:	accurate reporting,			
integrity,	accurate reporting,	accurate reporting,	interpretation and			
accuracy	interpretation and	interpretation and	verification,			
	verification, protects	verification,	protects			
	confidentiality of	protects	confidentiality of			
	Control of Control Control (Control Control	confidentiality of				
	records		records			
	→ Needs constant	records				
	supervision					
Insight.	Mistakes are made	Has difficulty	Understands the	Understands the	Good	Good
Insight,	Mistakes are made	Has difficulty	Understands the	Understands the	Good understanding of	Good understanding of
problem solving	concerning basic	understanding the	project, can	project, can identify	understanding of	understanding of
	concerning basic knowledge/background,	understanding the project, cannot	project, can identify links, has	project, can identify links, defines	understanding of the project and its	understanding of the project and its
problem solving	concerning basic knowledge/background, has difficulty	understanding the project, cannot identify links,	project, can identify links, has difficulties defining	project, can identify links, defines problems, has	understanding of the project and its broader context,	understanding of the project and its broader context,
problem solving	concerning basic knowledge/background, has difficulty understanding the	understanding the project, cannot identify links, cannot identify	project, can identify links, has difficulties defining problems and	project, can identify links, defines problems, has difficulties	understanding of the project and its broader context, identifies links,	understanding of the project and its broader context, identifies links,
problem solving	concerning basic knowledge/background, has difficulty	understanding the project, cannot identify links, cannot identify problems and	project, can identify links, has difficulties defining problems and possible	project, can identify links, defines problems, has difficulties suggesting possible	understanding of the project and its broader context, identifies links, defines problems	understanding of the project and its broader context, identifies links, defines problems
problem solving	concerning basic knowledge/background, has difficulty understanding the	understanding the project, cannot identify links, cannot identify problems and propose possible	project, can identify links, has difficulties defining problems and	project, can identify links, defines problems, has difficulties	understanding of the project and its broader context, identifies links, defines problems and suggests	understanding of the project and its broader context, identifies links, defines problems and suggests
problem solving	concerning basic knowledge/background, has difficulty understanding the	understanding the project, cannot identify links, cannot identify problems and	project, can identify links, has difficulties defining problems and possible	project, can identify links, defines problems, has difficulties suggesting possible	understanding of the project and its broader context, identifies links, defines problems	understanding of the project and its broader context, identifies links, defines problems
problem solving	concerning basic knowledge/background, has difficulty understanding the	understanding the project, cannot identify links, cannot identify problems and propose possible	project, can identify links, has difficulties defining problems and possible	project, can identify links, defines problems, has difficulties suggesting possible	understanding of the project and its broader context, identifies links, defines problems and suggests	understanding of the project and its broader context, identifies links, defines problems and suggests
problem solving	concerning basic knowledge/background, has difficulty understanding the	understanding the project, cannot identify links, cannot identify problems and propose possible	project, can identify links, has difficulties defining problems and possible	project, can identify links, defines problems, has difficulties suggesting possible	understanding of the project and its broader context, identifies links, defines problems and suggests	understanding of the project and its broader context, identifies links, defines problems and suggests alternatives,
problem solving	concerning basic knowledge/background, has difficulty understanding the	understanding the project, cannot identify links, cannot identify problems and propose possible	project, can identify links, has difficulties defining problems and possible	project, can identify links, defines problems, has difficulties suggesting possible	understanding of the project and its broader context, identifies links, defines problems and suggests	understanding of the project and its broader context, identifies links, defines problems and suggests alternatives, summarizes
problem solving	concerning basic knowledge/background, has difficulty understanding the	understanding the project, cannot identify links, cannot identify problems and propose possible	project, can identify links, has difficulties defining problems and possible	project, can identify links, defines problems, has difficulties suggesting possible	understanding of the project and its broader context, identifies links, defines problems and suggests	understanding of the project and its broader context, identifies links, defines problems and suggests alternatives, summarizes results and comes
problem solving	concerning basic knowledge/background, has difficulty understanding the	understanding the project, cannot identify links, cannot identify problems and propose possible	project, can identify links, has difficulties defining problems and possible	project, can identify links, defines problems, has difficulties suggesting possible	understanding of the project and its broader context, identifies links, defines problems and suggests	understanding of the project and its broader context, identifies links, defines problems and suggests alternatives, summarizes results and comes up with plans for
problem solving ability	concerning basic knowledge/background, has difficulty understanding the project	understanding the project, cannot identify links, cannot identify problems and propose possible alternatives	project, can identify links, has difficulties defining problems and possible alternatives	project, can identify links, defines problems, has difficulties suggesting possible alternatives	understanding of the project and its broader context, identifies links, defines problems and suggests	understanding of the project and its broader context, identifies links, defines problems and suggests alternatives, summarizes results and comes up with plans for
problem solving ability Functioning in team	concerning basic knowledge/background, has difficulty understanding the project Cannot collaborate with lab partner and/or team,	understanding the project, cannot identify links, cannot identify problems and propose possible alternatives Difficult collaboration with	project, can identify links, has difficulties defining problems and possible alternatives	project, can identify links, defines problems, has difficulties suggesting possible alternatives	understanding of the project and its broader context, identifies links, defines problems and suggests	understanding of the project and its broader context, identifies links, defines problems and suggests alternatives, summarizes results and comes up with plans for
problem solving ability Functioning in team Team attitude: is	concerning basic knowledge/background, has difficulty understanding the project	understanding the project, cannot identify links, cannot identify problems and propose possible alternatives Difficult collaboration with lab partner and/or	project, can identify links, has difficulties defining problems and possible alternatives Decent collaboration with lab partner and	project, can identify links, defines problems, has difficulties suggesting possible alternatives Good collaboration with lab partner and team, good team	understanding of the project and its broader context, identifies links, defines problems and suggests	understanding of the project and its broader context, identifies links, defines problems and suggests alternatives, summarizes results and comes up with plans for
Functioning in team Team attitude: is polite, is on time,	concerning basic knowledge/background, has difficulty understanding the project Cannot collaborate with lab partner and/or team,	understanding the project, cannot identify links, cannot identify problems and propose possible alternatives Difficult collaboration with lab partner and/or team, team attitude	project, can identify links, has difficulties defining problems and possible alternatives Decent collaboration with lab partner and team, decent team	project, can identify links, defines problems, has difficulties suggesting possible alternatives	understanding of the project and its broader context, identifies links, defines problems and suggests	understanding of the project and its broader context, identifies links, defines problems and suggests alternatives, summarizes results and comes up with plans for
Functioning in team Team attitude: is polite, is on time, keeps work area	concerning basic knowledge/background, has difficulty understanding the project Cannot collaborate with lab partner and/or team,	understanding the project, cannot identify links, cannot identify problems and propose possible alternatives Difficult collaboration with lab partner and/or	project, can identify links, has difficulties defining problems and possible alternatives Decent collaboration with lab partner and	project, can identify links, defines problems, has difficulties suggesting possible alternatives Good collaboration with lab partner and team, good team	understanding of the project and its broader context, identifies links, defines problems and suggests	understanding of the project and its broader context, identifies links, defines problems and suggests alternatives, summarizes results and comes up with plans for
Functioning in team Team attitude: is polite, is on time, keeps work area clean, reports when	concerning basic knowledge/background, has difficulty understanding the project Cannot collaborate with lab partner and/or team,	understanding the project, cannot identify links, cannot identify problems and propose possible alternatives Difficult collaboration with lab partner and/or team, team attitude	project, can identify links, has difficulties defining problems and possible alternatives Decent collaboration with lab partner and team, decent team	project, can identify links, defines problems, has difficulties suggesting possible alternatives Good collaboration with lab partner and team, good team	understanding of the project and its broader context, identifies links, defines problems and suggests	understanding of the project and its broader context, identifies links, defines problems and suggests alternatives, summarizes results and comes up with plans for
Functioning in team Team attitude: is polite, is on time, keeps work area clean, reports when materials are used	concerning basic knowledge/background, has difficulty understanding the project Cannot collaborate with lab partner and/or team,	understanding the project, cannot identify links, cannot identify problems and propose possible alternatives Difficult collaboration with lab partner and/or team, team attitude	project, can identify links, has difficulties defining problems and possible alternatives Decent collaboration with lab partner and team, decent team	project, can identify links, defines problems, has difficulties suggesting possible alternatives Good collaboration with lab partner and team, good team	understanding of the project and its broader context, identifies links, defines problems and suggests	understanding of the project and its broader context, identifies links, defines problems and suggests alternatives, summarizes results and comes up with plans for
Functioning in team Team attitude: is polite, is on time, keeps work area clean, reports when	concerning basic knowledge/background, has difficulty understanding the project Cannot collaborate with lab partner and/or team,	understanding the project, cannot identify links, cannot identify problems and propose possible alternatives Difficult collaboration with lab partner and/or team, team attitude	project, can identify links, has difficulties defining problems and possible alternatives Decent collaboration with lab partner and team, decent team	project, can identify links, defines problems, has difficulties suggesting possible alternatives Good collaboration with lab partner and team, good team	understanding of the project and its broader context, identifies links, defines problems and suggests	understanding of the project and its broader context, identifies links, defines problems and suggests alternatives, summarizes results and comes up with plans for
Functioning in team Team attitude: is polite, is on time, keeps work area clean, reports when materials are used up or broken	concerning basic knowledge/background, has difficulty understanding the project Cannot collaborate with lab partner and/or team, no team attitude	understanding the project, cannot identify links, cannot identify problems and propose possible alternatives Difficult collaboration with lab partner and/or team, team attitude is limited	project, can identify links, has difficulties defining problems and possible alternatives Decent collaboration with lab partner and team, decent team attitude	project, can identify links, defines problems, has difficulties suggesting possible alternatives Good collaboration with lab partner and team, good team attitude	understanding of the project and its broader context, identifies links, defines problems and suggests	understanding of the project and its broader context, identifies links, defines problems and suggests alternatives, summarizes results and comes up with plans for
Functioning in team Team attitude: is polite, is on time, keeps work area clean, reports when materials are used	concerning basic knowledge/background, has difficulty understanding the project Cannot collaborate with lab partner and/or team, no team attitude Difficult communication	understanding the project, cannot identify links, cannot identify problems and propose possible alternatives Difficult collaboration with lab partner and/or team, team attitude is limited Proper	project, can identify links, has difficulties defining problems and possible alternatives Decent collaboration with lab partner and team, decent team attitude Professional	project, can identify links, defines problems, has difficulties suggesting possible alternatives Good collaboration with lab partner and team, good team attitude	understanding of the project and its broader context, identifies links, defines problems and suggests	understanding of the project and its broader context, identifies links, defines problems and suggests alternatives, summarizes results and comes up with plans for
Functioning in team Team attitude: is polite, is on time, keeps work area clean, reports when materials are used up or broken	concerning basic knowledge/background, has difficulty understanding the project Cannot collaborate with lab partner and/or team, no team attitude	understanding the project, cannot identify links, cannot identify problems and propose possible alternatives Difficult collaboration with lab partner and/or team, team attitude is limited	project, can identify links, has difficulties defining problems and possible alternatives Decent collaboration with lab partner and team, decent team attitude	project, can identify links, defines problems, has difficulties suggesting possible alternatives Good collaboration with lab partner and team, good team attitude	understanding of the project and its broader context, identifies links, defines problems and suggests	understanding of the project and its broader context, identifies links, defines problems and suggests alternatives, summarizes results and comes up with plans for
Functioning in team Team attitude: is polite, is on time, keeps work area clean, reports when materials are used up or broken	concerning basic knowledge/background, has difficulty understanding the project Cannot collaborate with lab partner and/or team, no team attitude Difficult communication	understanding the project, cannot identify links, cannot identify problems and propose possible alternatives Difficult collaboration with lab partner and/or team, team attitude is limited Proper	project, can identify links, has difficulties defining problems and possible alternatives Decent collaboration with lab partner and team, decent team attitude Professional	project, can identify links, defines problems, has difficulties suggesting possible alternatives Good collaboration with lab partner and team, good team attitude	understanding of the project and its broader context, identifies links, defines problems and suggests	understanding of the project and its broader context, identifies links, defines problems and suggests alternatives, summarizes results and comes up with plans for
Functioning in team Team attitude: is polite, is on time, keeps work area clean, reports when materials are used up or broken	concerning basic knowledge/background, has difficulty understanding the project Cannot collaborate with lab partner and/or team, no team attitude Difficult communication with patients, team and	understanding the project, cannot identify links, cannot identify problems and propose possible alternatives Difficult collaboration with lab partner and/or team, team attitude is limited Proper communication	project, can identify links, has difficulties defining problems and possible alternatives Decent collaboration with lab partner and team, decent team attitude Professional communication	project, can identify links, defines problems, has difficulties suggesting possible alternatives Good collaboration with lab partner and team, good team attitude Professional communication	understanding of the project and its broader context, identifies links, defines problems and suggests	understanding of the project and its broader context, identifies links, defines problems and suggests alternatives, summarizes results and comes up with plans for
Functioning in team Team attitude: is polite, is on time, keeps work area clean, reports when materials are used up or broken	concerning basic knowledge/background, has difficulty understanding the project Cannot collaborate with lab partner and/or team, no team attitude Difficult communication with patients, team and collaborators, message	understanding the project, cannot identify links, cannot identify problems and propose possible alternatives Difficult collaboration with lab partner and/or team, team attitude is limited Proper communication with patients,	project, can identify links, has difficulties defining problems and possible alternatives Decent collaboration with lab partner and team, decent team attitude Professional communication with patients,	project, can identify links, defines problems, has difficulties suggesting possible alternatives Good collaboration with lab partner and team, good team attitude Professional communication with patients,	understanding of the project and its broader context, identifies links, defines problems and suggests	understanding of the project and its broader context, identifies links, defines problems and suggests alternatives, summarizes results and comes up with plans for
Functioning in team Team attitude: is polite, is on time, keeps work area clean, reports when materials are used up or broken	concerning basic knowledge/background, has difficulty understanding the project Cannot collaborate with lab partner and/or team, no team attitude Difficult communication with patients, team and collaborators, message is mostly unclear and	understanding the project, cannot identify links, cannot identify problems and propose possible alternatives Difficult collaboration with lab partner and/or team, team attitude is limited Proper communication with patients, team and	project, can identify links, has difficulties defining problems and possible alternatives Decent collaboration with lab partner and team, decent team attitude Professional communication with patients, team and	project, can identify links, defines problems, has difficulties suggesting possible alternatives Good collaboration with lab partner and team, good team attitude Professional communication with patients, team and	understanding of the project and its broader context, identifies links, defines problems and suggests	understanding of the project and its broader context, identifies links, defines problems and suggests and suggests summarizes results and comes up with plans for
Functioning in team Team attitude: is polite, is on time, keeps work area clean, reports when materials are used up or broken	concerning basic knowledge/background, has difficulty understanding the project Cannot collaborate with lab partner and/or team, no team attitude Difficult communication with patients, team and collaborators, message is mostly unclear and	understanding the project, cannot identify links, cannot identify problems and propose possible alternatives Difficult collaboration with lab partner and/or team, team attitude is limited Proper communication with patients, team and collaborators, message is mostly	project, can identify links, has difficulties defining problems and possible alternatives Decent collaboration with lab partner and team, decent team attitude Professional communication with patients, team and collaborators, clear and	project, can identify links, defines problems, has difficulties suggesting possible alternatives Good collaboration with lab partner and team, good team attitude Professional communication with patients, team and collaborators, clear and structured	understanding of the project and its broader context, identifies links, defines problems and suggests	understanding of the project and its broader context, identifies links, defines problems and suggests and suggests summarizes results and comes up with plans for
Functioning in team Team attitude: is polite, is on time, keeps work area clean, reports when materials are used up or broken	concerning basic knowledge/background, has difficulty understanding the project Cannot collaborate with lab partner and/or team, no team attitude Difficult communication with patients, team and collaborators, message is mostly unclear and	understanding the project, cannot identify links, cannot identify problems and propose possible alternatives Difficult collaboration with lab partner and/or team, team attitude is limited Proper communication with patients, team and collaborators, message is mostly clear and	project, can identify links, has difficulties defining problems and possible alternatives Decent collaboration with lab partner and team, decent team attitude Professional communication with patients, team and collaborators, clear and structured	project, can identify links, defines problems, has difficulties suggesting possible alternatives Good collaboration with lab partner and team, good team attitude Professional communication with patients, team and collaborators, clear and structured message, listens	understanding of the project and its broader context, identifies links, defines problems and suggests	understanding of the project and its broader context, identifies links, defines problems and suggests alternatives, summarizes results and comes up with plans for
Functioning in team Team attitude: is polite, is on time, keeps work area clean, reports when materials are used up or broken	concerning basic knowledge/background, has difficulty understanding the project Cannot collaborate with lab partner and/or team, no team attitude Difficult communication with patients, team and collaborators, message is mostly unclear and	understanding the project, cannot identify links, cannot identify problems and propose possible alternatives Difficult collaboration with lab partner and/or team, team attitude is limited Proper communication with patients, team and collaborators, message is mostly	project, can identify links, has difficulties defining problems and possible alternatives Decent collaboration with lab partner and team, decent team attitude Professional communication with patients, team and collaborators, clear and structured message, tries to	project, can identify links, defines problems, has difficulties suggesting possible alternatives Good collaboration with lab partner and team, good team attitude Professional communication with patients, team and collaborators, clear and structured message, listens actively and asks	understanding of the project and its broader context, identifies links, defines problems and suggests	understanding of the project and its broader context, identifies links, defines problems and suggests alternatives, summarizes results and comes up with plans for
Functioning in team Team attitude: is polite, is on time, keeps work area clean, reports when materials are used up or broken	concerning basic knowledge/background, has difficulty understanding the project Cannot collaborate with lab partner and/or team, no team attitude Difficult communication with patients, team and collaborators, message is mostly unclear and	understanding the project, cannot identify links, cannot identify problems and propose possible alternatives Difficult collaboration with lab partner and/or team, team attitude is limited Proper communication with patients, team and collaborators, message is mostly clear and	project, can identify links, has difficulties defining problems and possible alternatives Decent collaboration with lab partner and team, decent team attitude Professional communication with patients, team and collaborators, clear and structured	project, can identify links, defines problems, has difficulties suggesting possible alternatives Good collaboration with lab partner and team, good team attitude Professional communication with patients, team and collaborators, clear and structured message, listens actively and asks questions to clarify	understanding of the project and its broader context, identifies links, defines problems and suggests	understanding of the project and its broader context, identifies links, defines problems and suggests alternatives, summarizes results and comes up with plans for
Functioning in team Team attitude: is polite, is on time, keeps work area clean, reports when materials are used up or broken	concerning basic knowledge/background, has difficulty understanding the project Cannot collaborate with lab partner and/or team, no team attitude Difficult communication with patients, team and collaborators, message is mostly unclear and	understanding the project, cannot identify links, cannot identify problems and propose possible alternatives Difficult collaboration with lab partner and/or team, team attitude is limited Proper communication with patients, team and collaborators, message is mostly clear and	project, can identify links, has difficulties defining problems and possible alternatives Decent collaboration with lab partner and team, decent team attitude Professional communication with patients, team and collaborators, clear and structured message, tries to	project, can identify links, defines problems, has difficulties suggesting possible alternatives Good collaboration with lab partner and team, good team attitude Professional communication with patients, team and collaborators, clear and structured message, listens actively and asks questions to clarify understanding of	understanding of the project and its broader context, identifies links, defines problems and suggests	understanding of the project and its broader context, identifies links, defines problems and suggests alternatives, summarizes results and comes up with plans for
Functioning in team Team attitude: is polite, is on time, keeps work area clean, reports when materials are used up or broken	concerning basic knowledge/background, has difficulty understanding the project Cannot collaborate with lab partner and/or team, no team attitude Difficult communication with patients, team and collaborators, message is mostly unclear and	understanding the project, cannot identify links, cannot identify problems and propose possible alternatives Difficult collaboration with lab partner and/or team, team attitude is limited Proper communication with patients, team and collaborators, message is mostly clear and	project, can identify links, has difficulties defining problems and possible alternatives Decent collaboration with lab partner and team, decent team attitude Professional communication with patients, team and collaborators, clear and structured message, tries to	project, can identify links, defines problems, has difficulties suggesting possible alternatives Good collaboration with lab partner and team, good team attitude Professional communication with patients, team and collaborators, clear and structured message, listens actively and asks questions to clarify understanding of person's point of	understanding of the project and its broader context, identifies links, defines problems and suggests	understanding of the project and its broader context, identifies links, defines problems and suggests alternatives, summarizes results and comes up with plans for
Functioning in team Team attitude: is polite, is on time, keeps work area clean, reports when materials are used up or broken	concerning basic knowledge/background, has difficulty understanding the project Cannot collaborate with lab partner and/or team, no team attitude Difficult communication with patients, team and collaborators, message is mostly unclear and	understanding the project, cannot identify links, cannot identify problems and propose possible alternatives Difficult collaboration with lab partner and/or team, team attitude is limited Proper communication with patients, team and collaborators, message is mostly clear and	project, can identify links, has difficulties defining problems and possible alternatives Decent collaboration with lab partner and team, decent team attitude Professional communication with patients, team and collaborators, clear and structured message, tries to	project, can identify links, defines problems, has difficulties suggesting possible alternatives Good collaboration with lab partner and team, good team attitude Professional communication with patients, team and collaborators, clear and structured message, listens actively and asks questions to clarify understanding of	understanding of the project and its broader context, identifies links, defines problems and suggests	understanding of the project and its broader context, identifies links, defines problems and suggests alternatives, summarizes results and comes up with plans for



2.2.3 Rubric report - Track A and B

Are the correct scientific terms used on average?	No	Yes
Is the number of spelling mistakes limited?	No	Yes
Are sentences concise and well-constructed (linking words, verbs,)?	No	Yes
Does the length of the report meet the guidelines (max 25p exclusive supplementals)?	No	Yes
Is the Vancouver style correctly used for references in the text and the reference list?	No	Yes
Is the essence of the work (M&M, results) selected for the report, are side issues in the supplementals?	No	Yes

INTRODUCTION ABSTRACT	Abstract Contains background, aims, result & conclusion Introduction contains background, unknown, experimental approach, relevant references Problem	No abstract No introduction	Poorly reported, multiple parts are missing (background, aims, result, conclusion) Poorly reported, little relevance to the topic, does not contain relevant background, superficial literature search	Reasonably reported, some parts are missing (background, aims, results or conclusion) Poorly reported, contains relevant background, basic literature search Present, but not to	Reasonably reported, contains background, aims, results and conclusion, but different parts are not in proportion to each other Reasonably reported, contains relevant background, sufficient literature search	Well reported and clear, comprises background, aims, results and conclusion Well reported and clear, relevant background, evidence of a thorough literature search Clear, to the	Excellently reported, clear and concise, comprises background, aims, results and conclusion Excellently reported, clear and concise, relevant background, clear evidence of a thorough literature search	Publishable quality Publishable quality
	statement	stated		the point and relevance is missing	the point or relevance is missing	point and relevance is stated		
MATERIALS & METHODS	Material & methods → description of the methods, materials and statistics	No M&M	Poorly reported, poorly described, methods missing	Reasonably reported, not concise, information is missing, statistic methods are not defined	Reasonably reported, not concise or statistic methods are not defined	Well reported and clear, well described, statistic methods defined	Excellently reported, clear and concise, clearly described, statistic methods clearly defined	Publishable quality
RESULTS	Presentation of results → Figures: correct graph type and labeling of axes, readable, statistical info. Legend: title, experimental info, techniques, statistical info → Tables: labeling of columns and rows, readable,	Results poorly presented in figures and tables, legends are not present or incomplete	Results poorly presented in figures and tables, legends contain inaccuracies	Results presented in figures and tables, legends are sufficiently clear, but contain inaccuracies	results clearly presented in figures and tables, legends are clear	Figures are interpretable without text, legends are clear and complete	Publishable quality	
	statistical info, title Description of results description of all results present in figures & tables, cross references to figures and tables	Not present	Poorly reported, essential results are missing, results are poorly described and structured	Reasonably reported, some results are not (sufficiently) described, logical order is missing	Reasonably reported, results are sufficiently described, logical order is missing	Well reported and clear, results are adequately described and ordered	Excellently reported, clear and concise, results are clearly described and ordered	Publishable quality
DISCUSSION	Discussion → summary of main results, comparison to literature, future perspectives, main conclusion and implication, refevant references	Not present	Poorly reported, results are poorly compared to literature, not well structured, superficial literature search	Reasonably reported, not all main results are compared to literature or argumentation is superficial, sufficient literature search	Reasonably reported, results are discussed and compared to literature, argumentation is not always clear, sufficient literature search	Well reported and clear, results are discussed and compared to literature, clearly structured, evidence of a thorough literature search	Excellently reported, clear, concise and structured, results are discussed and compared to literature, strong argumentation, clear evidence of a thorough literature search	Publishable quality



2.2.4 Rubric presentation - Track A and B

Was the duration of the presentation 10±1 min?

YES / No

Content	insufficient coverage	coverage of the subject is	Adequate coverage of the	Full coverage of the	Comprehensive, full	
→ content	of the subject, the	missing depth or is	content, the different	subject, selection of	coverage of the	
present on the	different sections of	incomplete, the different	sections of the	relevant results, the	subject, good selection	
slides and how	the presentation are	sections of the	presentation are balanced	different sections of	of relevant results, the	
this is explained	not balanced	presentation are not		the presentation are	different sections of the	
		balanced		well balanced	presentation are well	
					balanced	
Slides	Unclear or overloaded	Slides not always clear or	Clear slides, good	Clear and attractive	Excellent, clear and	
	slides, little structure,	are overloaded, structure	structure, proper citations	slides, good	attractive, good	
	important citations are	is mostly missing,	are used	structure, proper	structure, creative,	
	missing	citations are missing		citations are used	proper citations are	
					used	
Posture and	Closed posture,	Closed posture, tries to	Open posture, connects	Enthusiastic,	Excellent, compelling,	
persuasiveness	sloppy, unmotivated,	connect to the audience,	with audience, eye	enjoyable, open	enjoyable	
	presentation is	presentation is	contact, posture and	posture, frequent eye		
	mechanical	mechanical	behavior are good but not	contact		
			consistent			
Oral delivery	Sloppy language,	Understandable, limited	Understandable, mostly	Understandable,	Clear and	
	unintelligible, no	use of scientific	scientific language, use of	mostly scientific	understandable,	
	scientific language,	language, monotonous,	intonation, too fast or	language, good use of	scientific language,	
	monotonous,	too fast or slow	slow	intonation,	natural flow, good use	
	distracting pacing			appropriate pacing	of intonation, excellent	
					pacing	
Discussion:	Know little about the	Has a basic	Has sufficient	Has good	Has very good	Excellent, has
knowledge	topic, cannot correctly	understanding of the	understanding of the	understanding of the	understanding of the	extensive
→ Correctness	answer most trivial	topic, can only answer	topic, can answer most of	topic, can answer the	topic, gives a correct	knowledge of the
	questions	trivial questions	the questions correctly	questions	answer to all questions	topic, gives a
						correct answer
						to all questions,
						elaborates on
						the topic
Discussion:	Answers are	Answers are unstructured	Structured answers to the	Well-structured	Well-structured	
response to	unstructured, does not	but answer the	questions, explores and	answers, to the point,	answers, to the point,	
questions	indicate exploration of	questions, indicates an	explains the issue	explores, explains	fully explores, explains	
\rightarrow	the issue, no direct	attempt of exploration of		and expands upon	and expands upon the	
structure/thinking	answer to the	the issue		the issue	issue, incorporated	
process	questions				critical thinking skills	



Use the space below to note down important feedback, suggestions, strengths, or concerns discussed during your evaluation. Try to write during the meeting, this helps prevent forgetting key points later.

What were your main strengths according to your supervisor:
What areas do you still need to work on:
Were any expectations clarified:
Were any misunderstandings addressed:



2.3 Step 3 - Short reflection report

To be completed shortly after the midterm meeting

How did your self-evaluation compare to your supervisor's rubric scores:
Were there any surprises or differences in perception:
What feedback had the most impact on you:
How do you plan to act on the feedback in the remaining internship period:
What concrete steps will you take to grow in one of the rubric domains:
>

3. After the internship

To be completed after the internship Complete this section within 2 weeks of receiving your final rubric. Reflect on your results and prepare for your next step.

3.1 Final evaluation details

Final score/grade? ____/20

Please mark the scores your supervisor assigned you directly on the rubric on the next pages (correct track). Use colour to clearly indicate the score per criterion. You may also add brief comments or annotations next to individual items if needed.

"Honest feedback is a gift —
receive it with curiosity, not
defensiveness."
– Sheila Heen



3.1.1 Rubric process - Track A

Planning / organization Effort/willingness	Does not meet deadlines, waits for instructions Is not motivated, does	Meets deadlines, waits for instructions	Meets deadlines, tries to make a daily schedule, has difficulties with adjusting the schedule	Meets deadlines, tries to make a daily schedule, tries to adjusts schedule if needed, thinks ahead	Meets deadlines, makes a daily schedule, adjusts schedule if needed, thinks ahead, prioritizes	
to learn	not take notes or ask questions, does not ask for help when needed	asks few questions, does not always ask for help when needed	active, asks questions, asks for help when needed	listens active, asks questions, asks for help when needed, takes initiative, asks for work	motivated, interest goes beyond the project	
Independence	Cannot perform a simple protocol independently, needs constant supervision, has difficulties adjusting his/her work after feedback	Can perform a simple protocol independently after multiple supervised executions, has difficulties adjusting his/her work after feedback	Can perform a simple protocol independently after a few supervised executions, adjusts his/her work after feedback	Can perform a simple protocol independently after one supervised execution, adjusts his/her work after feedback	Can independently perform experiments based on a protocol, adjusts his/her work after feedback	
Accuracy, safety, equipment handling Also includes correct sample labeling and data storage, waste handling	Does not respect safety regulations, handles equipment incorrect, does not report mistakes → needs constant supervision	Safety regulations are respected, handles equipment correctly most of the time, regularly prepares solutions incorrect, messy work area, does not always report mistakes	Safety regulations are respected, handles equipment correctly Most of the time: accurately prepared solutions, clean work area, mistakes are reported	Safety regulations are respected, handles equipment correctly, accurately prepared solutions, clean work area, mistakes are reported		
Insight, problem solving ability	Mistakes are made concerning basic knowledge/background, has difficulty understanding the project	Has difficulty understanding the project, cannot identify links, cannot identify problems and propose possible alternatives	Understands the project, can identify links, searches for protocols, has difficulties defining problems and possible alternatives	Understands the project, can identify links, searches for protocols, defines problems, has difficulties suggesting possible alternatives	Good understanding of the project and it's broader context, searches for protocols, identifies links, defines problems and suggests alternatives	Good understanding of the project and it's broader context, identifies links, defines problems and suggests alternatives, summarizes results and comes up with plans for follow up
Functioning in team Team attitude: is polite, is on time, keeps lab clean, reports when materials are used up or broken, refills tipboxes	Cannot collaborate with lab partner and/or team, no team attitude, difficulties with communication	Difficult collaboration with lab partner and/or team, team attitude is limited, inconsistent communication	Decent collaboration with lab partner and team, decent team attitude, proper communication	Good collaboration with lab partner and team, good team attitude, professional communication		
Lab book taking → title, date, experimental design, protocol, observations, results, conclusion)	Incomplete or incorrect, unorganized, difficult to interpret	Mainly complete and accurate, not well-organized, frequently difficult to interpret	Complete and accurate, organized, interpretable	Complete and accurate, highly organized, easy interpretable, information such as reagents, equipment, sample/data storage is present		



3.1.2 Rubric process - Track B

Planning /	Does not meet	Meets deadlines,	Meets deadlines,	Meets deadlines,	Meets deadlines,	
organization	deadlines, waits for	waits for	tries to make a	tries to make a daily	makes a daily	
	instructions	instructions	daily schedule,	schedule, tries to	schedule, adjusts	
			has difficulties	adjusts schedule if	schedule if needed,	
			with adjusting the	needed, thinks	thinks ahead,	
			schedule	ahead	prioritizes	
Effort/willingness	Is not motivated, does	Seems indifferent,	Is motivated,	Very motivated,	Extremely	
to learn	not take notes or ask	asks few	listens active, asks	listens active, asks	motivated, interest	
	questions, does not ask	questions, does	questions, asks for	questions, asks for	goes beyond the	
	for help when needed	not always ask for	help when needed	help when needed,	project	
		help when needed		takes initiative, asks	, , , , , , , , , , , , , , , , , , , ,	
		neip men needed		for work		
				TOT WOLK		
Tudou ou dou oo	Connet necleon a simple	Can andrew a	Con andrew o	Con andrew o	Can independently	
Independence	Cannot perform a simple	Can perform a	Can perform a	Can perform a	Can independently	
	activity independently,	simple activity	simple activity	simple activity	perform an activity,	
	needs constant	independently after	independently after	independently after	adjusts his/her work	
	supervision, has	multiple supervised	a few supervised	one supervised	after feedback	
	difficulties adjusting	executions, has	executions, adjusts	execution, adjusts		
	his/her work after	difficulties adjusting	his/her work after	his/her work after		
	feedback	his/her work after	feedback	feedback		
		feedback				
	Management		F-11	I	I	1
GCP: operates in	Mistakes are made	Small mistakes are	Follows the			
line with	regularly for the	made for the	guidelines:			
guidelines,	following aspects:	following aspects:	accurate reporting,			
integrity,	accurate reporting,	accurate reporting,	interpretation and			
accuracy	interpretation and	interpretation and	verification,			
	verification, protects	verification,	protects			
	confidentiality of	protects	confidentiality of			
	Control of Control Control (Control Control	confidentiality of				
	records		records			
	→ Needs constant	records				
	supervision					
Insight.	Mistakes are made	Has difficulty	Understands the	Understands the	Good	Good
Insight,	Mistakes are made	Has difficulty	Understands the	Understands the	Good understanding of	Good understanding of
problem solving	concerning basic	understanding the	project, can	project, can identify	understanding of	understanding of
	concerning basic knowledge/background,	understanding the project, cannot	project, can identify links, has	project, can identify links, defines	understanding of the project and its	understanding of the project and its
problem solving	concerning basic knowledge/background, has difficulty	understanding the project, cannot identify links,	project, can identify links, has difficulties defining	project, can identify links, defines problems, has	understanding of the project and its broader context,	understanding of the project and its broader context,
problem solving	concerning basic knowledge/background, has difficulty understanding the	understanding the project, cannot identify links, cannot identify	project, can identify links, has difficulties defining problems and	project, can identify links, defines problems, has difficulties	understanding of the project and its broader context, identifies links,	understanding of the project and its broader context, identifies links,
problem solving	concerning basic knowledge/background, has difficulty	understanding the project, cannot identify links, cannot identify problems and	project, can identify links, has difficulties defining problems and possible	project, can identify links, defines problems, has difficulties suggesting possible	understanding of the project and its broader context, identifies links, defines problems	understanding of the project and its broader context, identifies links, defines problems
problem solving	concerning basic knowledge/background, has difficulty understanding the	understanding the project, cannot identify links, cannot identify problems and propose possible	project, can identify links, has difficulties defining problems and	project, can identify links, defines problems, has difficulties	understanding of the project and its broader context, identifies links, defines problems and suggests	understanding of the project and its broader context, identifies links, defines problems and suggests
problem solving	concerning basic knowledge/background, has difficulty understanding the	understanding the project, cannot identify links, cannot identify problems and	project, can identify links, has difficulties defining problems and possible	project, can identify links, defines problems, has difficulties suggesting possible	understanding of the project and its broader context, identifies links, defines problems	understanding of the project and its broader context, identifies links, defines problems
problem solving	concerning basic knowledge/background, has difficulty understanding the	understanding the project, cannot identify links, cannot identify problems and propose possible	project, can identify links, has difficulties defining problems and possible	project, can identify links, defines problems, has difficulties suggesting possible	understanding of the project and its broader context, identifies links, defines problems and suggests	understanding of the project and its broader context, identifies links, defines problems and suggests
problem solving	concerning basic knowledge/background, has difficulty understanding the	understanding the project, cannot identify links, cannot identify problems and propose possible	project, can identify links, has difficulties defining problems and possible	project, can identify links, defines problems, has difficulties suggesting possible	understanding of the project and its broader context, identifies links, defines problems and suggests	understanding of the project and its broader context, identifies links, defines problems and suggests alternatives,
problem solving	concerning basic knowledge/background, has difficulty understanding the	understanding the project, cannot identify links, cannot identify problems and propose possible	project, can identify links, has difficulties defining problems and possible	project, can identify links, defines problems, has difficulties suggesting possible	understanding of the project and its broader context, identifies links, defines problems and suggests	understanding of the project and its broader context, identifies links, defines problems and suggests alternatives, summarizes
problem solving	concerning basic knowledge/background, has difficulty understanding the	understanding the project, cannot identify links, cannot identify problems and propose possible	project, can identify links, has difficulties defining problems and possible	project, can identify links, defines problems, has difficulties suggesting possible	understanding of the project and its broader context, identifies links, defines problems and suggests	understanding of the project and its broader context, identifies links, defines problems and suggests alternatives, summarizes results and comes
problem solving	concerning basic knowledge/background, has difficulty understanding the	understanding the project, cannot identify links, cannot identify problems and propose possible	project, can identify links, has difficulties defining problems and possible	project, can identify links, defines problems, has difficulties suggesting possible	understanding of the project and its broader context, identifies links, defines problems and suggests	understanding of the project and its broader context, identifies links, defines problems and suggests alternatives, summarizes results and comes up with plans for
problem solving ability	concerning basic knowledge/background, has difficulty understanding the project	understanding the project, cannot identify links, cannot identify problems and propose possible alternatives	project, can identify links, has difficulties defining problems and possible alternatives	project, can identify links, defines problems, has difficulties suggesting possible alternatives	understanding of the project and its broader context, identifies links, defines problems and suggests	understanding of the project and its broader context, identifies links, defines problems and suggests alternatives, summarizes results and comes up with plans for
problem solving ability Functioning in team	concerning basic knowledge/background, has difficulty understanding the project Cannot collaborate with lab partner and/or team,	understanding the project, cannot identify links, cannot identify problems and propose possible alternatives Difficult collaboration with	project, can identify links, has difficulties defining problems and possible alternatives	project, can identify links, defines problems, has difficulties suggesting possible alternatives	understanding of the project and its broader context, identifies links, defines problems and suggests	understanding of the project and its broader context, identifies links, defines problems and suggests alternatives, summarizes results and comes up with plans for
problem solving ability Functioning in team Team attitude: is	concerning basic knowledge/background, has difficulty understanding the project	understanding the project, cannot identify links, cannot identify problems and propose possible alternatives Difficult collaboration with lab partner and/or	project, can identify links, has difficulties defining problems and possible alternatives Decent collaboration with lab partner and	project, can identify links, defines problems, has difficulties suggesting possible alternatives Good collaboration with lab partner and team, good team	understanding of the project and its broader context, identifies links, defines problems and suggests	understanding of the project and its broader context, identifies links, defines problems and suggests alternatives, summarizes results and comes up with plans for
Functioning in team Team attitude: is polite, is on time,	concerning basic knowledge/background, has difficulty understanding the project Cannot collaborate with lab partner and/or team,	understanding the project, cannot identify links, cannot identify problems and propose possible alternatives Difficult collaboration with lab partner and/or team, team attitude	project, can identify links, has difficulties defining problems and possible alternatives Decent collaboration with lab partner and team, decent team	project, can identify links, defines problems, has difficulties suggesting possible alternatives	understanding of the project and its broader context, identifies links, defines problems and suggests	understanding of the project and its broader context, identifies links, defines problems and suggests alternatives, summarizes results and comes up with plans for
Functioning in team Team attitude: is polite, is on time, keeps work area	concerning basic knowledge/background, has difficulty understanding the project Cannot collaborate with lab partner and/or team,	understanding the project, cannot identify links, cannot identify problems and propose possible alternatives Difficult collaboration with lab partner and/or	project, can identify links, has difficulties defining problems and possible alternatives Decent collaboration with lab partner and	project, can identify links, defines problems, has difficulties suggesting possible alternatives Good collaboration with lab partner and team, good team	understanding of the project and its broader context, identifies links, defines problems and suggests	understanding of the project and its broader context, identifies links, defines problems and suggests alternatives, summarizes results and comes up with plans for
Functioning in team Team attitude: is polite, is on time, keeps work area clean, reports when	concerning basic knowledge/background, has difficulty understanding the project Cannot collaborate with lab partner and/or team,	understanding the project, cannot identify links, cannot identify problems and propose possible alternatives Difficult collaboration with lab partner and/or team, team attitude	project, can identify links, has difficulties defining problems and possible alternatives Decent collaboration with lab partner and team, decent team	project, can identify links, defines problems, has difficulties suggesting possible alternatives Good collaboration with lab partner and team, good team	understanding of the project and its broader context, identifies links, defines problems and suggests	understanding of the project and its broader context, identifies links, defines problems and suggests alternatives, summarizes results and comes up with plans for
Functioning in team Team attitude: is polite, is on time, keeps work area clean, reports when materials are used	concerning basic knowledge/background, has difficulty understanding the project Cannot collaborate with lab partner and/or team,	understanding the project, cannot identify links, cannot identify problems and propose possible alternatives Difficult collaboration with lab partner and/or team, team attitude	project, can identify links, has difficulties defining problems and possible alternatives Decent collaboration with lab partner and team, decent team	project, can identify links, defines problems, has difficulties suggesting possible alternatives Good collaboration with lab partner and team, good team	understanding of the project and its broader context, identifies links, defines problems and suggests	understanding of the project and its broader context, identifies links, defines problems and suggests alternatives, summarizes results and comes up with plans for
Functioning in team Team attitude: is polite, is on time, keeps work area clean, reports when	concerning basic knowledge/background, has difficulty understanding the project Cannot collaborate with lab partner and/or team,	understanding the project, cannot identify links, cannot identify problems and propose possible alternatives Difficult collaboration with lab partner and/or team, team attitude	project, can identify links, has difficulties defining problems and possible alternatives Decent collaboration with lab partner and team, decent team	project, can identify links, defines problems, has difficulties suggesting possible alternatives Good collaboration with lab partner and team, good team	understanding of the project and its broader context, identifies links, defines problems and suggests	understanding of the project and its broader context, identifies links, defines problems and suggests alternatives, summarizes results and comes up with plans for
Functioning in team Team attitude: is polite, is on time, keeps work area clean, reports when materials are used up or broken	concerning basic knowledge/background, has difficulty understanding the project Cannot collaborate with lab partner and/or team, no team attitude	understanding the project, cannot identify links, cannot identify problems and propose possible alternatives Difficult collaboration with lab partner and/or team, team attitude is limited	project, can identify links, has difficulties defining problems and possible alternatives Decent collaboration with lab partner and team, decent team attitude	project, can identify links, defines problems, has difficulties suggesting possible alternatives Good collaboration with lab partner and team, good team attitude	understanding of the project and its broader context, identifies links, defines problems and suggests	understanding of the project and its broader context, identifies links, defines problems and suggests alternatives, summarizes results and comes up with plans for
Functioning in team Team attitude: is polite, is on time, keeps work area clean, reports when materials are used	concerning basic knowledge/background, has difficulty understanding the project Cannot collaborate with lab partner and/or team, no team attitude Difficult communication	understanding the project, cannot identify links, cannot identify problems and propose possible alternatives Difficult collaboration with lab partner and/or team, team attitude is limited Proper	project, can identify links, has difficulties defining problems and possible alternatives Decent collaboration with lab partner and team, decent team attitude Professional	project, can identify links, defines problems, has difficulties suggesting possible alternatives Good collaboration with lab partner and team, good team attitude	understanding of the project and its broader context, identifies links, defines problems and suggests	understanding of the project and its broader context, identifies links, defines problems and suggests alternatives, summarizes results and comes up with plans for
Functioning in team Team attitude: is polite, is on time, keeps work area clean, reports when materials are used up or broken	concerning basic knowledge/background, has difficulty understanding the project Cannot collaborate with lab partner and/or team, no team attitude	understanding the project, cannot identify links, cannot identify problems and propose possible alternatives Difficult collaboration with lab partner and/or team, team attitude is limited	project, can identify links, has difficulties defining problems and possible alternatives Decent collaboration with lab partner and team, decent team attitude	project, can identify links, defines problems, has difficulties suggesting possible alternatives Good collaboration with lab partner and team, good team attitude	understanding of the project and its broader context, identifies links, defines problems and suggests	understanding of the project and its broader context, identifies links, defines problems and suggests alternatives, summarizes results and comes up with plans for
Functioning in team Team attitude: is polite, is on time, keeps work area clean, reports when materials are used up or broken	concerning basic knowledge/background, has difficulty understanding the project Cannot collaborate with lab partner and/or team, no team attitude Difficult communication	understanding the project, cannot identify links, cannot identify problems and propose possible alternatives Difficult collaboration with lab partner and/or team, team attitude is limited Proper	project, can identify links, has difficulties defining problems and possible alternatives Decent collaboration with lab partner and team, decent team attitude Professional	project, can identify links, defines problems, has difficulties suggesting possible alternatives Good collaboration with lab partner and team, good team attitude	understanding of the project and its broader context, identifies links, defines problems and suggests	understanding of the project and its broader context, identifies links, defines problems and suggests alternatives, summarizes results and comes up with plans for
Functioning in team Team attitude: is polite, is on time, keeps work area clean, reports when materials are used up or broken	concerning basic knowledge/background, has difficulty understanding the project Cannot collaborate with lab partner and/or team, no team attitude Difficult communication with patients, team and	understanding the project, cannot identify links, cannot identify problems and propose possible alternatives Difficult collaboration with lab partner and/or team, team attitude is limited Proper communication	project, can identify links, has difficulties defining problems and possible alternatives Decent collaboration with lab partner and team, decent team attitude Professional communication	project, can identify links, defines problems, has difficulties suggesting possible alternatives Good collaboration with lab partner and team, good team attitude Professional communication	understanding of the project and its broader context, identifies links, defines problems and suggests	understanding of the project and its broader context, identifies links, defines problems and suggests alternatives, summarizes results and comes up with plans for
Functioning in team Team attitude: is polite, is on time, keeps work area clean, reports when materials are used up or broken	concerning basic knowledge/background, has difficulty understanding the project Cannot collaborate with lab partner and/or team, no team attitude Difficult communication with patients, team and collaborators, message	understanding the project, cannot identify links, cannot identify problems and propose possible alternatives Difficult collaboration with lab partner and/or team, team attitude is limited Proper communication with patients,	project, can identify links, has difficulties defining problems and possible alternatives Decent collaboration with lab partner and team, decent team attitude Professional communication with patients,	project, can identify links, defines problems, has difficulties suggesting possible alternatives Good collaboration with lab partner and team, good team attitude Professional communication with patients,	understanding of the project and its broader context, identifies links, defines problems and suggests	understanding of the project and its broader context, identifies links, defines problems and suggests alternatives, summarizes results and comes up with plans for
Functioning in team Team attitude: is polite, is on time, keeps work area clean, reports when materials are used up or broken	concerning basic knowledge/background, has difficulty understanding the project Cannot collaborate with lab partner and/or team, no team attitude Difficult communication with patients, team and collaborators, message is mostly unclear and	understanding the project, cannot identify links, cannot identify problems and propose possible alternatives Difficult collaboration with lab partner and/or team, team attitude is limited Proper communication with patients, team and	project, can identify links, has difficulties defining problems and possible alternatives Decent collaboration with lab partner and team, decent team attitude Professional communication with patients, team and	project, can identify links, defines problems, has difficulties suggesting possible alternatives Good collaboration with lab partner and team, good team attitude Professional communication with patients, team and	understanding of the project and its broader context, identifies links, defines problems and suggests	understanding of the project and its broader context, identifies links, defines problems and suggests and suggests summarizes results and comes up with plans for
Functioning in team Team attitude: is polite, is on time, keeps work area clean, reports when materials are used up or broken	concerning basic knowledge/background, has difficulty understanding the project Cannot collaborate with lab partner and/or team, no team attitude Difficult communication with patients, team and collaborators, message is mostly unclear and	understanding the project, cannot identify links, cannot identify problems and propose possible alternatives Difficult collaboration with lab partner and/or team, team attitude is limited Proper communication with patients, team and collaborators, message is mostly	project, can identify links, has difficulties defining problems and possible alternatives Decent collaboration with lab partner and team, decent team attitude Professional communication with patients, team and collaborators, clear and	project, can identify links, defines problems, has difficulties suggesting possible alternatives Good collaboration with lab partner and team, good team attitude Professional communication with patients, team and collaborators, clear and structured	understanding of the project and its broader context, identifies links, defines problems and suggests	understanding of the project and its broader context, identifies links, defines problems and suggests and suggests summarizes results and comes up with plans for
Functioning in team Team attitude: is polite, is on time, keeps work area clean, reports when materials are used up or broken	concerning basic knowledge/background, has difficulty understanding the project Cannot collaborate with lab partner and/or team, no team attitude Difficult communication with patients, team and collaborators, message is mostly unclear and	understanding the project, cannot identify links, cannot identify problems and propose possible alternatives Difficult collaboration with lab partner and/or team, team attitude is limited Proper communication with patients, team and collaborators, message is mostly clear and	project, can identify links, has difficulties defining problems and possible alternatives Decent collaboration with lab partner and team, decent team attitude Professional communication with patients, team and collaborators, clear and structured	project, can identify links, defines problems, has difficulties suggesting possible alternatives Good collaboration with lab partner and team, good team attitude Professional communication with patients, team and collaborators, clear and structured message, listens	understanding of the project and its broader context, identifies links, defines problems and suggests	understanding of the project and its broader context, identifies links, defines problems and suggests alternatives, summarizes results and comes up with plans for
Functioning in team Team attitude: is polite, is on time, keeps work area clean, reports when materials are used up or broken	concerning basic knowledge/background, has difficulty understanding the project Cannot collaborate with lab partner and/or team, no team attitude Difficult communication with patients, team and collaborators, message is mostly unclear and	understanding the project, cannot identify links, cannot identify problems and propose possible alternatives Difficult collaboration with lab partner and/or team, team attitude is limited Proper communication with patients, team and collaborators, message is mostly	project, can identify links, has difficulties defining problems and possible alternatives Decent collaboration with lab partner and team, decent team attitude Professional communication with patients, team and collaborators, clear and structured message, tries to	project, can identify links, defines problems, has difficulties suggesting possible alternatives Good collaboration with lab partner and team, good team attitude Professional communication with patients, team and collaborators, clear and structured message, listens actively and asks	understanding of the project and its broader context, identifies links, defines problems and suggests	understanding of the project and its broader context, identifies links, defines problems and suggests alternatives, summarizes results and comes up with plans for
Functioning in team Team attitude: is polite, is on time, keeps work area clean, reports when materials are used up or broken	concerning basic knowledge/background, has difficulty understanding the project Cannot collaborate with lab partner and/or team, no team attitude Difficult communication with patients, team and collaborators, message is mostly unclear and	understanding the project, cannot identify links, cannot identify problems and propose possible alternatives Difficult collaboration with lab partner and/or team, team attitude is limited Proper communication with patients, team and collaborators, message is mostly clear and	project, can identify links, has difficulties defining problems and possible alternatives Decent collaboration with lab partner and team, decent team attitude Professional communication with patients, team and collaborators, clear and structured	project, can identify links, defines problems, has difficulties suggesting possible alternatives Good collaboration with lab partner and team, good team attitude Professional communication with patients, team and collaborators, clear and structured message, listens actively and asks questions to clarify	understanding of the project and its broader context, identifies links, defines problems and suggests	understanding of the project and its broader context, identifies links, defines problems and suggests alternatives, summarizes results and comes up with plans for
Functioning in team Team attitude: is polite, is on time, keeps work area clean, reports when materials are used up or broken	concerning basic knowledge/background, has difficulty understanding the project Cannot collaborate with lab partner and/or team, no team attitude Difficult communication with patients, team and collaborators, message is mostly unclear and	understanding the project, cannot identify links, cannot identify problems and propose possible alternatives Difficult collaboration with lab partner and/or team, team attitude is limited Proper communication with patients, team and collaborators, message is mostly clear and	project, can identify links, has difficulties defining problems and possible alternatives Decent collaboration with lab partner and team, decent team attitude Professional communication with patients, team and collaborators, clear and structured message, tries to	project, can identify links, defines problems, has difficulties suggesting possible alternatives Good collaboration with lab partner and team, good team attitude Professional communication with patients, team and collaborators, clear and structured message, listens actively and asks questions to clarify understanding of	understanding of the project and its broader context, identifies links, defines problems and suggests	understanding of the project and its broader context, identifies links, defines problems and suggests alternatives, summarizes results and comes up with plans for
Functioning in team Team attitude: is polite, is on time, keeps work area clean, reports when materials are used up or broken	concerning basic knowledge/background, has difficulty understanding the project Cannot collaborate with lab partner and/or team, no team attitude Difficult communication with patients, team and collaborators, message is mostly unclear and	understanding the project, cannot identify links, cannot identify problems and propose possible alternatives Difficult collaboration with lab partner and/or team, team attitude is limited Proper communication with patients, team and collaborators, message is mostly clear and	project, can identify links, has difficulties defining problems and possible alternatives Decent collaboration with lab partner and team, decent team attitude Professional communication with patients, team and collaborators, clear and structured message, tries to	project, can identify links, defines problems, has difficulties suggesting possible alternatives Good collaboration with lab partner and team, good team attitude Professional communication with patients, team and collaborators, clear and structured message, listens actively and asks questions to clarify understanding of person's point of	understanding of the project and its broader context, identifies links, defines problems and suggests	understanding of the project and its broader context, identifies links, defines problems and suggests alternatives, summarizes results and comes up with plans for
Functioning in team Team attitude: is polite, is on time, keeps work area clean, reports when materials are used up or broken	concerning basic knowledge/background, has difficulty understanding the project Cannot collaborate with lab partner and/or team, no team attitude Difficult communication with patients, team and collaborators, message is mostly unclear and	understanding the project, cannot identify links, cannot identify problems and propose possible alternatives Difficult collaboration with lab partner and/or team, team attitude is limited Proper communication with patients, team and collaborators, message is mostly clear and	project, can identify links, has difficulties defining problems and possible alternatives Decent collaboration with lab partner and team, decent team attitude Professional communication with patients, team and collaborators, clear and structured message, tries to	project, can identify links, defines problems, has difficulties suggesting possible alternatives Good collaboration with lab partner and team, good team attitude Professional communication with patients, team and collaborators, clear and structured message, listens actively and asks questions to clarify understanding of	understanding of the project and its broader context, identifies links, defines problems and suggests	understanding of the project and its broader context, identifies links, defines problems and suggests alternatives, summarizes results and comes up with plans for



3.1.3 Rubric report - Track A and B

Are the correct scientific terms used on average?	No	Yes
Is the number of spelling mistakes limited?	No	Yes
Are sentences concise and well-constructed (linking words, verbs,)?	No	Yes
Does the length of the report meet the guidelines (max 25p exclusive supplementals)?	No	Yes
Is the Vancouver style correctly used for references in the text and the reference list?	No	Yes
Is the essence of the work (M&M, results) selected for the report, are side issues in the supplementals?	No	Yes

INTRODUCTION ABSTRACT	Abstract Contains background, aims, result & conclusion Introduction contains background, unknown, experimental approach, relevant references Problem	No abstract No introduction	Poorly reported, multiple parts are missing (background, aims, result, conclusion) Poorly reported, little relevance to the topic, does not contain relevant background, superficial literature search	Reasonably reported, some parts are missing (background, aims, results or conclusion) Poorly reported, contains relevant background, basic literature search Present, but not to	Reasonably reported, contains background, aims, results and conclusion, but different parts are not in proportion to each other Reasonably reported, contains relevant background, sufficient literature search	Well reported and clear, comprises background, aims, results and conclusion Well reported and clear, relevant background, evidence of a thorough literature search Clear, to the	Excellently reported, clear and concise, comprises background, aims, results and conclusion Excellently reported, clear and concise, relevant background, clear evidence of a thorough literature search	Publishable quality Publishable quality
	statement	stated		the point and relevance is missing	the point or relevance is missing	point and relevance is stated		
MATERIALS & METHODS	Material & methods → description of the methods, materials and statistics	No M&M	Poorly reported, poorly described, methods missing	Reasonably reported, not concise, information is missing, statistic methods are not defined	Reasonably reported, not concise or statistic methods are not defined	Well reported and clear, well described, statistic methods defined	Excellently reported, clear and concise, clearly described, statistic methods clearly defined	Publishable quality
RESULTS	Presentation of results > Figures: correct graph type and labeling of axes, readable, statistical info. Legend: title, experimental info, techniques, statistical info > Tables: labeling of columns and rows, readable,	Results poorly presented in figures and tables, legends are not present or incomplete	Results poorly presented in figures and tables, legends contain inaccuracies	Results presented in figures and tables, legends are sufficiently clear, but contain inaccuracies	results clearly presented in figures and tables, legends are clear	Figures are interpretable without text, legends are clear and complete	Publishable quality	
	statistical info, title Description of results description of all results present in figures & tables, cross references to figures and tables	Not present	Poorly reported, essential results are missing, results are poorly described and structured	Reasonably reported, some results are not (sufficiently) described, logical order is missing	Reasonably reported, results are sufficiently described, logical order is missing	Well reported and clear, results are adequately described and ordered	Excellently reported, clear and concise, results are clearly described and ordered	Publishable quality
DISCUSSION	Discussion → summary of main results, comparison to literature, future perspectives, main conclusion and implication, refevant references	Not present	Poorly reported, results are poorly compared to literature, not well structured, superficial literature search	Reasonably reported, not all main results are compared to literature or argumentation is superficial, sufficient literature search	Reasonably reported, results are discussed and compared to literature, argumentation is not always clear, sufficient literature search	Well reported and clear, results are discussed and compared to literature, clearly structured, evidence of a thorough literature search	Excellently reported, clear, concise and structured, results are discussed and compared to literature, strong argumentation, clear evidence of a thorough literature search	Publishable quality



3.1.4 Rubric presentation - Track A and B

Was the duration of the presentation 10±1 min?

YES / No

Content	insufficient coverage	coverage of the subject is	Adequate coverage of the	Full coverage of the	Comprehensive, full	
→ content	of the subject, the	missing depth or is	content, the different	subject, selection of	coverage of the	
present on the	different sections of	incomplete, the different	sections of the	relevant results, the	subject, good selection	
slides and how	the presentation are	sections of the	presentation are balanced	different sections of	of relevant results, the	
ATTENDED TO THE TOTAL TO	not balanced	presentation are not	presentation are balanced	the presentation are	different sections of the	
this is explained	not balanced			10.000		
		balanced		well balanced	presentation are well balanced	
					balanced	
Slides	Unclear or overloaded	Slides not always clear or	Clear slides, good	Clear and attractive	Excellent, clear and	
	slides, little structure,	are overloaded, structure	structure, proper citations	slides, good	attractive, good	
	important citations are	is mostly missing,	are used	structure, proper	structure, creative,	
	missing	citations are missing		citations are used	proper citations are	
					used	
Posture and	Closed posture,	Closed posture, tries to	Open posture, connects	Enthusiastic,	Excellent, compelling,	
persuasiveness	sloppy, unmotivated,	connect to the audience,	with audience, eye	enjoyable, open	enjoyable	
	presentation is	presentation is	contact, posture and	posture, frequent eye		
	mechanical	mechanical	behavior are good but not	contact		
			consistent			
Oral delivery	Sloppy language,	Understandable, limited	Understandable, mostly	Understandable,	Clear and	
	unintelligible, no	use of scientific	scientific language, use of	mostly scientific	understandable,	
	scientific language,	language, monotonous,	intonation, too fast or	language, good use of	scientific language,	
	monotonous,	too fast or slow	slow	intonation,	natural flow, good use	
	distracting pacing			appropriate pacing	of intonation, excellent	
					pacing	
Discussion:	Know little about the	Has a basic	Has sufficient	Has good	Has very good	Excellent, has
knowledge	topic, cannot correctly	understanding of the	understanding of the	understanding of the	understanding of the	extensive
→ Correctness	answer most trivial	topic, can only answer	topic, can answer most of	topic, can answer the	topic, gives a correct	knowledge of the
	questions	trivial questions	the questions correctly	questions	answer to all questions	topic, gives a
						correct answer
						to all questions,
						elaborates on
						the topic
Discussion:	Answers are	Answers are unstructured	Structured answers to the	Well-structured	Well-structured	
response to	unstructured, does not	but answer the	questions, explores and	answers, to the point,	answers, to the point,	
questions	indicate exploration of	questions, indicates an	explains the issue	explores, explains	fully explores, explains	
\rightarrow	the issue, no direct	attempt of exploration of		and expands upon	and expands upon the	
structure/thinking	answer to the	the issue		the issue	issue, incorporated	
process	questions				critical thinking skills	

66

"Time spent in self-reflection is never wasted – it is an intimate date with yourself." – Paul TP Wong



3.2 Reflection on your evaluation

What stands out to you in your final rubric results:
Which domains improved since the midterm evaluation:
What remained unchanged or still needs improvement:
What are you most proud of:
How did your actions or mindset influence your final outcome:

3.3 Overall reflection

What did you learn about yourself during this internship:
How have you grown in terms of skills, mindset, or attitude:
What feedback will you carry forward to your future career:
What are your goals for your future career:



3.4 Notes for the future

Use this space for personal notes, reminders, or tips for your next
internship/future career:

Need inspiration?

- What surprised me most about this internship?
- A moment I learned from but didn't expect...
- Something I thought I was bad at, but turned out okay...



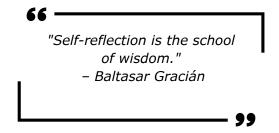
"The goal is not to be perfect by the end. The goal is to be better tomorrow." – Simon Sinek



At the end of your internships

End-stage reflection: Preparing for your career

How have you changed since your very first internship:
What habits or skills do you now feel confident in:
What kind of professional do you see yourself becoming:
What feedback or lesson from this internship will you carry into your first job:





The end

"Learning never ends.

Internships teach you how to learn from life, not just from books."





Example of how to fill in your journal

This is a **fictional**, **illustrative example** of how to fill in your **journal**. The following pages are meant to guide and inspire you when completing your own journal. They show one possible way to reflect on your internship experience, provide responses to feedback, and engage with the rubric. Please note that all names, details, and experiences described are entirely fictional.

Do not copy these answers. Your internship is unique, and your reflections should be too.

Use this example to:

- Understand what is expected at each stage (before, during, and after the internship),
- See how to engage with the rubric in a meaningful way,
- Learn how to write clear, honest, and personal reflections.

Reflection is not about being perfect. It's about being aware of how you learn and grow.



1. Before the internship

To be completed before the start of your internship.

Please complete this section in the week before your internship starts. This helps you prepare your goals and expectations.

1.1 General information

Do y	you com	plete	your	bachelor	internship	at	Hasselt	University	y ?
------	---------	-------	------	----------	------------	----	---------	------------	-----

- YES O
- NO O

7 II 110, piedse ilidicate your 110st ilistitution/	\rightarrow If no,	please indicate	your host institution:	/
---	----------------------	-----------------	------------------------	---

Internship location / research group: BIOMED – Immunology and Inflammation Lab

Project title / topic : Exploring cytokine profiles in autoimmune disease models

Daily supervisor: Dr. L. Willems

Start date - End date: 05/02/2025 - 18/04/2025

1.2 Your expectations and goals

What are your expectations for this internship:

I expect to gain hands-on experience with cell culture, ELISA, and data interpretation. I also hope to understand better how research teams operate and how lab planning works in real life.

What are you most looking forward to:

Working independently on a real project, learning new lab techniques, and getting feedback from experienced researchers.

Which skills or competencies do you hope to develop:

- Lab skills (especially sterile technique and ELISA)
- Scientific reporting
- Time management
- Interpreting experimental results

Are there any aspects of the rubric you are unsure about or would like clarification on before starting:

I'm a bit unsure about the expectations for the 'scientific depth' in the report. Also, how detailed the presentation needs to be is not completely clear to me.

Which criteria from the rubric do you want to focus on improving during this internship:

- Structuring a clear and logical lab report
- Taking more initiative in solving small problems
- Becoming more confident during oral presentations

1.3 Getting to know the rubric

During your internship, you will be evaluated on three domains: process, report and presentation. Take a few minutes to review the rubrics for bachelor internships.

1.3.1 Rubric process

Planning /	Does not meet	Meets deadlines, waits	Meets deadlines, tries	Meets deadlines, tries	Moote doadlines makes
organization	deadlines, waits for	for instructions	to make a daily	to make a daily	Meets deadlines, makes a daily schedule, adjusts
organization	instructions	TOT ITISCI UCCIONS	schedule, has	schedule, tries to	schedule if needed,
	IIIstractions		difficulties with	adjusts schedule if	thinks ahead, prioritizes
			adjusting the schedule	needed, thinks ahead	chinks diledu, prioritizes
Effort/willingness	Is not motivated, does	Seems indifferent,	Is motivated, listens	Very motivated, listens	Extremely motivated,
to learn	not take notes or ask	asks few questions,	active, asks questions,	active, asks questions,	interest goes beyond the
to rearri	questions, does not ask	does not always ask	asks for help when	asks for help when	project
	for help when needed	for help when needed	needed	needed, takes	project
	l l l l l l l l l l l l l l l l l l l	l los many miles made a		initiative, asks for work	
Independence	Cannot perform a simple	Can perform a simple	Can perform a simple	Can perform a simple	
	protocol independently,	protocol independently	protocol independently	protocol independently	
	needs constant	after multiple	after a few supervised	after one supervised	
	supervision, has	supervised executions,	executions, adjusts	execution, adjusts	
	difficulties adjusting	has difficulties adjusting	his/her work after	his/her work after	
	his/her work after	his/her work after	feedback	feedback	
	feedback	feedback			
Accuracy, safety,	Does not respect safety	Safety regulations are	Safety regulations are	Safety regulations are	
equipment	regulations, handles	respected, handles	respected, handles	respected, handles	
handling	equipment incorrect,	equipment correctly	equipment correctly	equipment correctly,	
Also includes correct	does not report	most of the time,	Most of the time:	accurately prepared	
sample labeling	mistakes	regularly prepares	accurately prepared	solutions, clean work	
and data storage,	→ needs constant	solutions incorrect,	solutions, clean work	area, mistakes are	
waste handling	supervision	messy work area, does		reported	
		not always report	area, mistakes are		
		mistakes	reported		
Insight,	Mistakes are made	Has difficulty	Understands the	Understands the	Good understanding of
problem solving	concerning basic	understanding the	project, can identify	project, can identify	the project and it's
ability	knowledge/background,	project, cannot	links, searches for	links, searches for	broader context,
	has difficulty	identify links, cannot	protocols, has	protocols, defines	searches for protocols,
	understanding the	identify problems and	difficulties defining	problems, has	identifies links, defines
	project	propose possible	problems and possible	difficulties suggesting	problems and suggests
	101	alternatives	alternatives	possible alternatives	alternatives
Functioning in	Cannot collaborate with	Difficult collaboration	Decent collaboration	Good collaboration with	
team	lab partner and/or team,	with lab partner and/or	with lab partner and	lab partner and team,	
Team attitude: is	no team attitude,	team, team attitude is	team, decent team	good team attitude,	
polite, is on time,	difficulties with	limited, inconsistent	attitude, proper	professional	
keeps lab clean,	communication	communication	communication	communication	
reports when					
materials are used					
up or broken, refills					
tipboxes					
Lab book taking	Incomplete or	Mainly complete and	Complete and	Complete and accurate,	
→ title, date,	incorrect, unorganized,	accurate, not well-	accurate, organized,	highly organized, easy	
experimental	difficult to interpret	organized, frequently	interpretable	interpretable,	
design, protocol,		difficult to interpret		information such as	
observations,				reagents, equipment,	
results,				sample/data storage is	



1.3.2 Rubric report

Are the correct scientific terms used on average?	No	Yes
Is the number of spelling mistakes limited?	No	Yes
Are sentences concise and well-constructed (linking words, verbs,)?	No	Yes
Does the length of the report meet the guidelines (max 15 pages)?	No	Yes
Is the Vancouver style correctly used for references in the text and the reference list?	No	Yes

		No obstant	D	B	D	W-II	E	D. LU-L-LI-
	Abstract	No abstract	Poorly reported,	Reasonably	Reasonably	Well reported and	Excellently reported,	Publishable
	→ Contains		multiple parts are	reported, some	reported, contains	clear, comprises	clear and concise,	quality
ABSTRACT	background, aims,		missing	parts are missing	background, aims,	background,	comprises	
	result &		(background,	(background,	results and	aims, results and	background, aims,	
	conclusion		aims, result,	aims, results or	conclusion, but	conclusion	results and	
			conclusion)	conclusion)	different parts are		conclusion	
					not in proportion			
					to each other			
	Introduction	No	Poorly reported,	Poorly reported,	Reasonably	Well reported and	Excellently reported,	Publishable
	→ contains	introduction	little relevance to	contains relevant	reported, contains	clear, relevant	clear and concise,	quality
5	background,		the topic, does	background, basic	relevant	background,	relevant	
:	unknown,		not contain	literature search	background,	evidence of a	background, clear	
5	experimental		relevant		sufficient	thorough	evidence of a	
2	approach,		background,		literature search	literature search	thorough literature	
NOT DO ON IN	relevant		superficial				search	
١	references		literature search					
4	Duchlom	Not alongly		Deccent but not to	Descent but not to	Close to the		
	Problem	Not clearly		Present, but not to	Present, but not to	Clear, to the		
	statement	stated		the point and	the point or	point and		
				relevance is	relevance is	relevance is		
_	Material 2	No More	Doods so t- t	missing	missing	stated	Eventlanth	Dublish - ht-
	Material &	No M&M	Poorly reported,	Reasonably	Reasonably	Well reported and	Excellently reported,	Publishable quality
, K	methods		poorly described,	reported, not	reported, not	clear, well	clear and concise,	
METHODS	→ description of		methods missing	concise,	concise or statistic	described,	clearly described,	
ĮΞ	the methods,			information is	methods are not	statistic methods	statistic methods	
Z Z	materials and			missing, statistic	defined	defined	clearly defined	
Ē	statistics			methods are not				
				defined				
	Presentation of	Results poorly	Results poorly	Results presented	results clearly	Figures are	Publishable quality	
	results	presented in	presented in	in figures and	presented in	interpretable		
	→ Figures: correct	figures and	figures and	tables, legends	figures and tables,	without text,		
	graph type and	tables,	tables, legends	are sufficiently	legends are clear	legends are clear		
	labeling of axes,	legends are	contain	clear, but contain		and complete		
	readable,	not present or	inaccuracies	inaccuracies				
2	statistical info.	incomplete						
RESULTS	Legend: title,							
¥	experimental info,							
	techniques,							
	statistical info							
	→ Tables:							
	labeling of							
	columns and							
	rows, readable,							
	statistical info,							
	title							
	Description of	Not present	Poorly reported,	Reasonably	Reasonably	Well reported and	Excellently reported,	Publishable
	results		essential results	reported, some	reported, results	clear, results are	clear and concise,	quality
	→ description of		are missing,	results are not	are sufficiently	adequately	results are clearly	
	all results present		results are poorly	(sufficiently)	described, logical	described and	described and	
	in figures &		described and	described, logical	order is missing	ordered	ordered	
	tables, cross		structured	order is missing				
	references to							
	figures and tables							
	Discussion	Not present	Poorly reported,	Reasonably	Reasonably	Well reported and	Excellently reported,	Publishable
	→ summary of		results are poorly	reported, not all	reported, results	clear, results are	clear, concise and	quality
	main results,		compared to	main results are	are discussed and	discussed and	structured, results	
S O	comparison to		literature, not	compared to	compared to	compared to	are discussed and	
SSI	literature, future		well structured,	literature or	literature,	literature, clearly	compared to	
Ë	perspectives,		superficial	argumentation is	argumentation is	structured,	literature, strong	
•	main conclusion		literature search	superficial,	not always clear,	evidence of a	argumentation,	
					The summary of the same of the	100.00		
DIS	and implication,			sufficient	sufficient	thorough	clear evidence of a	
DISCUSSION	and implication, relevant			sufficient literature search	sufficient literature search	thorough literature search	clear evidence of a thorough literature	



1.3.3 Rubric presentation

Was the duration of the presentation 10±1 min?

YES / No

Contont	ingufficient coverns	anyonna of the auti	Adaminto como con contra	Full sources of the	Comprehensive 6:"	
Content	insufficient coverage of	coverage of the subject	Adequate coverage of the	Full coverage of the	Comprehensive, full	
→ content	the subject, the	is missing depth or is	content, the different	subject, selection of	coverage of the	
present on the	different sections of the	incomplete, the	sections of the	relevant results, the	subject, good selection	
slides and how	presentation are not	different sections of the	presentation are balanced	different sections of	of relevant results, the	
this is explained	balanced	presentation are not		the presentation are	different sections of the	
		balanced		well balanced	presentation are well	
					balanced	
Slides	Unclear or overloaded	Slides not always clear	Clear slides, good	Clear and attractive	Excellent, clear and	
	slides, little structure,	or are overloaded,	structure, proper citations	slides, good	attractive, good	
	important citations are	structure is mostly	are used	structure, proper	structure, creative,	
	missing	missing, citations are		citations are used	proper citations are	
		missing			used	
Posture and	Closed posture, sloppy,	Closed posture, tries to	Open posture, connects	Enthusiastic,	Excellent, compelling,	
persuasiveness	unmotivated,	connect to the	with audience, eye	enjoyable, open	enjoyable	
	presentation is	audience, presentation	contact, posture and	posture, frequent eye		
	mechanical	is mechanical	behavior are good but not	contact		
			consistent			
Oral delivery	Sloppy language,	Understandable, limited	Understandable, mostly	Understandable,	Clear and	
	unintelligible, no	use of scientific	scientific language, use of	mostly scientific	understandable,	
	scientific language,	language, monotonous,	intonation, too fast or	language, good use	scientific language,	
	monotonous,	too fast or slow	slow	of intonation,	natural flow, good use	
	distracting pacing			appropriate pacing	of intonation, excellent	
					pacing	
Discussion:	Knows little about the	Has a basic	Has sufficient	Has good	Has very good	Excellent, has
knowledge	topic, cannot correctly	understanding of the	understanding of the	understanding of the	understanding of the	extensive
→ Correctness	answer most trivial	topic, can only answer	topic, can answer most of	topic, can answer the	topic, gives a correct	knowledge of the
	questions	trivial questions	the questions correctly	questions	answer to all questions	topic, gives a
						correct answer
						to all questions,
						elaborates on
						the topic
Discussion:	Answers are	Answers are	Structured answers to the	Well-structured	Well-structured	
response to	unstructured, does not	unstructured but answer	questions, explores and	answers, to the point,	answers, to the point,	
questions	indicate exploration of	the questions, indicates	explains the issue	explores, explains	fully explores, explains	
→	the issue, no direct	an attempt of		and expands upon	and expands upon the	
structure/thinking	answer to the questions	exploration of the issue		the issue	issue, incorporated	
process					critical thinking skills	

66

"Without reflection, we go blindly on our way, creating more unintended consequences, and failing to achieve anything useful." – Margaret J. Wheatley



1.3.4 Reflect on the rubric

Now reflect on the following:

After reading the rubric, which evaluation criteria seem most important to you:

- Taking initiative during lab work
- Reflective thinking in the report
- Clear communication of results (written and oral)

Which terms or elements are unclear or new to you:

'Scientific maturity' and 'ownership of learning', I would like more clarification on how these are demonstrated.

Choose 1 or 2 criteria (from any of the rubrics) that you want to pay special attention to during your internship. Why:

- Time management: I know this is a challenge for me, and I want to improve.
- Reflective learning: Because it's new to me and seems essential for growth.

Are there parts of the rubric that you feel unsure about, or would like to discuss with your supervisor at the start:

Yes, I want to ask how they define 'scientific maturity' and how to show it clearly during the internship.

You may highlight, annotate, or mark any parts of the rubric that raise questions. Bring this journal to your kickoff meeting, and don't hesitate to ask your supervisor about what's expected.



2. During the internship

To be completed during your internship (week 2–3). Use this section to note feedback moments and reflect on your progress.

2.1 Mid-internship reflections

What are some examples of feedback you have received so far (formally or informally):

- I was too hesitant in the first week, but I'm improving.
- Good pipetting technique.
- I need to plan my day better to avoid rushing in the afternoon.
- My lab notebook could be more structured.

What went well in the first half of your internship? (e.g. tasks, communication, lab skills...):

- I quickly picked up how to perform an ELISA independently.
- I asked for help when needed.
- I communicate clearly with my supervisor.

What challenges or areas for improvement have been mentioned to you:

- Better time planning in the lab.
- Being more assertive during lab meetings.
- Structuring my lab notes more consistently.

How are you responding to feedback? Can you describe any actions you took as a result:

- I created a daily checklist and started writing my notes during the experiment instead of afterward.
- I made a planning board in the lab notebook.
- I tried to speak at least once in each lab meeting.



Have you made progress on the rubric criteria you identified before the internship:

Yes, especially on initiative and communication. I'm still working on report structure and time management.

2.2 Compliments and strengths

Supervisors often give feedback that highlights strengths. What compliments have you received so far:

- "You're very precise with your lab work."
- "You pick up techniques quickly."
- "Nice job staying calm during unexpected results."

What do these tell you about your professional attitude or competencies:

That I can work independently and with attention to detail, which are important traits for research. I feel more confident in my technical abilities now.



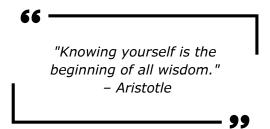
2.3 Rubric clarity check

Are there any elements of the rubric that you find unclear or difficult to interpret now that you're in the internship:

- YES 0
- NO O
- → If yes, which ones:
- Still not fully sure what qualifies as 'scientific maturity'
- Unsure about how much background theory to include in the report

Would you like extra guidance or explanation:

Yes, I would like an example of a good bachelor report and more feedback on my first report draft.





3. After the internship

To be completed after the internship Complete this section within 2 weeks of receiving your final rubric. Reflect on your results and prepare for your next step.

3.1 Evaluation results

Final score/grade? 14/20

Please mark the scores your supervisor assigned you directly on the rubric on the next pages. Use colour to clearly indicate the score per criterion. You may also add brief comments or annotations next to individual items if needed.



3.1.1 Rubric process

Planning /	Does not meet	Meets deadlines, waits	Meets deadlines, tries	M deadlines es	Meets deadlines, makes
organization	deadlines, waits for	for instructions	to make a daily	to may a da'	a daily schedule, adjusts
organization	instructions	Tor mod decions	schedule, has	schedule s to	schedule if needed,
	mscraccions		difficulties with	adjust checks if	thinks ahead, prioritizes
			adjusting the schedule	ne ed, thinks a ad	chinic diredd, prioricizes
Effort/willingness	Is not motivated, does	Seems indifferent,	I otivated, limits	Very motivated, listens	Extremely motivated,
to learn	not take notes or ask	asks few questions,	activ sks estions,	active, asks questions,	interest goes beyond the
	questions, does not ask	does not always ask	asks for when	asks for help when	project
	for help when needed	for help when needed	need	needed, takes	F. 5,544
				initiative, asks for work	
Independence	Cannot perform a simple	Can perform a simple	Can perform a simple	Can perform a simple	
	protocol independently,	protocol independently	protocol independently	pro al indepe ently	
	needs constant	after multiple	after a few supervised	after on vised	
	supervision, has	supervised executions,	executions, adjusts	executio usts	
	difficulties adjusting	has difficulties adjusting	his/her work after	his/ work a	
	his/her work after	his/her work after	feedback	feedback	
	feedback	feedback			
Accuracy, safety,	Does not respect safety	Safety regulations are	Safety regulations are	Safety regulations are	
equipment	regulations, handles	respected, handles	respected, handles	respected, handles	
handling	equipment incorrect,	equipment correctly	equ. ent correct	equipment correctly,	
Also includes correct	does not report	most of the time,	Most o he t' a:	accurately prepared	
sample labeling	mistakes	regularly prepares	accurately pared	solutions, clean work	
and data storage,	→ needs constant	solutions incorrect,	solution clear ork	area, mistakes are	
waste handling	supervision	messy work area, does		reported	
		not always report	area, mistakes are		
		mistakes	reported		
Insight,	Mistakes are made	Has difficulty	Understands the	Understands the	Good understanding of
problem solving	concerning basic	understanding the	prest, can id cify	project, can identify	the project and it's
ability	knowledge/background,	project, cannot	links, r s for	links, searches for	broader context,
	has difficulty	identify links, cannot	protoc	protocols, defines	searches for protocols,
	understanding the	identify problems and	diff ities de. ng	problems, has	identifies links, defines
	project	propose possible	problems and possible	difficulties suggesting	problems and suggests
		alternatives	alternatives	possible alternatives	alternatives
Functioning in	Cannot collaborate with	Difficult collaboration	Decent collaboration	Good collaboration with	
team	lab partner and/or team,	with lab partner and/or	with lab partner and	lab partner and team,	
Team attitude: is	no team attitude,	team, team attitude is	ton, decent ton	good team attitude,	
polite, is on time,	difficulties with	limited, inconsistent	attitu pr er	professional	
keeps lab clean,	communication	communication	commy sion	communication	
reports when					
materials are used					
up or broken, refills					
tipboxes					
Lab book taking	Incomplete or	Mainly complete and	Complete and	Complete and accurate,	
→ title, date,	incorrect, unorganized,	accurate, not well-	accuste, organizer	highly organized, easy	
experimental	difficult to interpret	organized, frequently	interpre ble	interpretable,	
		1160 - It to total		information such as	
design, protocol,		difficult to interpret		miormation sacinas	
		difficult to interpret		reagents, equipment,	
design, protocol,		difficult to interpret			



3.1.2 Rubric report

No	Yes	X	
No	Yes	X	
No	Yes	X	
No	Yes	∇	
No	Yes	∇	
	No No No	No Yes No Yes No Yes	No Yes No Yes No Yes

	Abstract	No abstract	Poorly reported,	Reasonably	Reasonably	Well reported and	Excellently reported,	Publishable
	→ Contains		multiple parts are	reported, some	reported, contains	clear, comprises	clear and concise,	quality
	background, aims,		missing	parts are missing	background, aims,	background,	comprises	
ַ	result &				results and	aims result and		
ABSTRACT			(background,	(background,			background, aims,	
BS	conclusion		aims, result,	aims, results or	conclusion, but	conclus	results and	
₹			conclusion)	conclusion)	different parts are		conclusion	
					not in proportion			
					to each other			
	Introduction	No	Poorly reported,	Poorly reported,	Reasonably	Well reported and	Excellently reported,	Publishable
	→ contains	introduction	little relevance to	contains relevant	reported, contains	clear, relevant	clear and concise,	quality
,	background,	mi oddetion	the topic, does	background, basic	relevant	background,	relevant	quanty
ō.								
ᄓ	unknown,		not contain	literature search	background,	evid nce of	background, clear	
2	experimental		relevant		sufficient	thoroug	evidence of a	
INTRODUCTION	approach,		background,		literature search	litera are sorch	thorough literature	
Ξ	relevant		superficial				search	
_	references		literature search					
	Problem	Not clearly		Present, but not to	Pi sent ut not to	Clear, to the		
	statement	stated		the point and	the rant or	point and		
				relevance is	ry evance is	relevance is		
				missing	missing	stated		
	Material &	No M&M	Poorly reported,	Reasonably		000000000	Excellently reported	Dublichable
		No M&M			Reasonably	Well reported and	Excellently reported,	Publishable quality
త	methods		poorly described,	reported, not	reported, not	clear, well	clear and concise,	quanty
MATERIALS METHODS	→ description of		methods missing	concise,	concise or statistic	described,	clearly described,	
글	the methods,			information is	methods are not	statistic ethods	statistic methods	
田戸	materials and			missing, statistic	defined	defin	clearly defined	
Σž	statistics			methods are not				
				defined				
	Dunnamentation of	Describe recents	Docube accelu			Flavores and	Dublishable quality	
	Presentation of	Results poorly	Results poorly	Results presented	results clearly	Figures are	Publishable quality	
	results	presented in	presented in	in figures and	presented in	interpretable		
	→ Figures: correct	figures and	figures and	tables, legends	figures and tables,	without text,		
	graph type and	tables,	tables, legends	are sufficiently	legends are clear	legends are clear		
	labeling of axes,	legends are	contain	clear, but contain		and countrice		
	readable,	not present or	inaccuracies	inaccuracies				
w	statistical info.	incomplete						
RESULTS	Legend: title,	meompiece						
S								
_								
œ	experimental info,							
ď								
œ	experimental info,							
œ	experimental info, techniques,							
~	experimental info, techniques, statistical info							
~	experimental info, techniques, statistical info → Tables: labeling of							
~	experimental info, techniques, statistical info → Tables: labeling of columns and							
~	experimental info, techniques, statistical info → Tables: labeling of columns and rows, readable,							
~	experimental info, techniques, statistical info → Tables: labeling of columns and rows, readable, statistical info,							
~	experimental info, techniques, statistical info Tables: labeling of columns and rows, readable, statistical info, title		Donkus	Passashi	Passanti	Well one and	Escallant	Dublish
~	experimental info, techniques, statistical info Tables: labeling of columns and rows, readable, statistical info, title Description of	Not present	Poorly reported,	Reasonably	Reasonably	Well reported and	Excellently reported,	Publishable
~	experimental info, techniques, statistical info Tables: labeling of columns and rows, readable, statistical info, title Description of results	Not present	essential results	reported, some	reported, result	clear, results are	clear and concise,	Publishable quality
~	experimental info, techniques, statistical info Tables: labeling of columns and rows, readable, statistical info, title Description of	Not present			reported, results are sufficiency	111	clear and concise, results are clearly	184-4
~	experimental info, techniques, statistical info Tables: labeling of columns and rows, readable, statistical info, title Description of results	Not present	essential results	reported, some	reported, result	clear, results are	clear and concise,	184-4
~	experimental info, techniques, statistical info Tables: labeling of columns and rows, readable, statistical info, title Description of results description of	Not present	essential results are missing,	reported, some results are not	reported, results are sufficiency	clear, results are adequately	clear and concise, results are clearly	184-4
~	experimental info, techniques, statistical info Tables: labeling of columns and rows, readable, statistical info, title Description of results description of all results present	Not present	essential results are missing, results are poorly	reported, some results are not (sufficiently)	reported, results are sufficiency describes, logical	clear, results are adequately described and	clear and concise, results are clearly described and	184-4
œ e	experimental info, techniques, statistical info Tables: labeling of columns and rows, readable, statistical info, title Description of results description of all results present in figures & tables, cross	Not present	essential results are missing, results are poorly described and	reported, some results are not (sufficiently) described, logical	reported, results are sufficiency describes, logical	clear, results are adequately described and	clear and concise, results are clearly described and	184-1
œ	experimental info, techniques, statistical info → Tables: labeling of columns and rows, readable, statistical info, title Description of results → description of all results present in figures & tables, cross references to	Not present	essential results are missing, results are poorly described and	reported, some results are not (sufficiently) described, logical	reported, results are sufficiency describes, logical	clear, results are adequately described and	clear and concise, results are clearly described and	184-1
œ	experimental info, techniques, statistical info → Tables: labeling of columns and rows, readable, statistical info, title Description of results → description of all results present in figures & tables, cross references to figures and tables		essential results are missing, results are poorly described and structured	reported, some results are not (sufficiently) described, logical order is missing	reported, results are sufficiency described to stal order is missing	clear, results are adequately described and ordered	clear and concise, results are clearly described and ordered	quality
œ	experimental info, techniques, statistical info → Tables: labeling of columns and rows, readable, statistical info, title Description of results → description of all results present in figures & tables, cross references to figures and tables Discussion	Not present Not present	essential results are missing, results are poorly described and structured	reported, some results are not (sufficiently) described, logical order is missing	reported, results are sufficiently described to scal order is missing	clear, results are adequately described and ordered	clear and concise, results are clearly described and ordered Excellently reported,	quality Publishable
œ	experimental info, techniques, statistical info → Tables: labeling of columns and rows, readable, statistical info, title Description of results → description of all results present in figures & tables, cross references to figures and tables Discussion → summary of		essential results are missing, results are poorly described and structured Poorly reported, results are poorly	reported, some results are not (sufficiently) described, logical order is missing Reasonably reported, not all	reported, results are sufficiently describes to sal order is missing Reasonably reported, results	clear, results are adequately described and ordered Well reported and clear result are	clear and concise, results are clearly described and ordered Excellently reported, clear, concise and	quality
	experimental info, techniques, statistical info → Tables: labeling of columns and rows, readable, statistical info, title Description of results → description of all results present in figures & tables, cross references to figures and tables Discussion		essential results are missing, results are poorly described and structured	reported, some results are not (sufficiently) described, logical order is missing Reasonably reported, not all main results are	reported, results are sufficiently described to sall order is missing Reasonably reported, results are discussed and	clear, results are adequately described and ordered Well reported and clear results are discuss and	clear and concise, results are clearly described and ordered Excellently reported,	quality Publishable
	experimental info, techniques, statistical info → Tables: labeling of columns and rows, readable, statistical info, title Description of results → description of all results present in figures & tables, cross references to figures and tables Discussion → summary of		essential results are missing, results are poorly described and structured Poorly reported, results are poorly	reported, some results are not (sufficiently) described, logical order is missing Reasonably reported, not all	reported, results are sufficiently describes to sal order is missing Reasonably reported, results	clear, results are adequately described and ordered Well reported and clear result are	clear and concise, results are clearly described and ordered Excellently reported, clear, concise and	quality Publishable
	experimental info, techniques, statistical info Tables: labeling of columns and rows, readable, statistical info, title Description of results description of all results present in figures & tables, cross references to figures and tables Discussion summary of main results,		essential results are missing, results are poorly described and structured Poorly reported, results are poorly compared to	reported, some results are not (sufficiently) described, logical order is missing Reasonably reported, not all main results are	reported, results are sufficiently described to sall order is missing Reasonably reported, results are discussed and	clear, results are adequately described and ordered Well reported and clear results are discuss and	clear and concise, results are clearly described and ordered Excellently reported, clear, concise and structured, results	quality Publishable
	experimental info, techniques, statistical info Tables: labeling of columns and rows, readable, statistical info, title Description of results description of all results present in figures & tables, cross references to figures and tables Discussion summary of main results, comparison to		essential results are missing, results are poorly described and structured Poorly reported, results are poorly compared to literature, not	reported, some results are not (sufficiently) described, logical order is missing Reasonably reported, not all main results are compared to	reported, results are sufficiently described to sall order is missing. Reasonably reported, results are discussed and compared to	clear, results are adequately described and ordered Well reported and clear results are discussionand communed to	clear and concise, results are clearly described and ordered Excellently reported, clear, concise and structured, results are discussed and	quality Publishable
	experimental info, techniques, statistical info Tables: labeling of columns and rows, readable, statistical info, title Description of results description of all results present in figures & tables, cross references to figures and tables Discussion summary of main results, comparison to literature, future perspectives,		essential results are missing, results are poorly described and structured Poorly reported, results are poorly compared to literature, not well structured, superficial	reported, some results are not (sufficiently) described, logical order is missing Reasonably reported, not all main results are compared to literature or argumentation is	reported, result are sufficiently describes, to call order is missing. Reasonably reported, results are discussed and compared to literature, argumentation is	clear, results are adequately described and ordered Well reported and clear result are discuss and compared to literature, clearly structured,	clear and concise, results are clearly described and ordered Excellently reported, clear, concise and structured, results are discussed and compared to literature, strong	quality Publishable
DISCUSSION	experimental info, techniques, statistical info Tables: labeling of columns and rows, readable, statistical info, title Description of results description of all results present in figures & tables, cross references to figures and tables Discussion summary of main results, comparison to literature, future perspectives, main conclusion		essential results are missing, results are poorly described and structured Poorly reported, results are poorly compared to literature, not well structured,	reported, some results are not (sufficiently) described, logical order is missing Reasonably reported, not all main results are compared to literature or argumentation is superficial,	reported, result are sufficiently describes, to sal order is missing. Reasonably reported, results are discussed and compared to literature, argumentation is not always clear,	clear, results are adequately described and ordered Well reported and clear result, are discuss, and compared to literature, clearly structured, evidence of a	clear and concise, results are clearly described and ordered Excellently reported, clear, concise and structured, results are discussed and compared to literature, strong argumentation,	quality Publishable
	experimental info, techniques, statistical info Tables: labeling of columns and rows, readable, statistical info, title Description of results description of all results present in figures & tables, cross references to figures and tables Discussion summary of main results, comparison to literature, future perspectives, main conclusion and implication,		essential results are missing, results are poorly described and structured Poorly reported, results are poorly compared to literature, not well structured, superficial	reported, some results are not (sufficiently) described, logical order is missing Reasonably reported, not all main results are compared to literature or argumentation is superficial, sufficient	reported, result are sufficient, videscribes, logical order is missing. Reasonably reported, results are discussed and compared to literature, argumentation is not always clear, sufficient.	clear, results are adequately described and ordered Well reported and clear results are discuss; and compared to literature, clearly structured, evidence of a thorough	clear and concise, results are clearly described and ordered Excellently reported, clear, concise and structured, results are discussed and compared to literature, strong argumentation, clear evidence of a	quality Publishable
	experimental info, techniques, statistical info Tables: labeling of columns and rows, readable, statistical info, title Description of results description of all results present in figures & tables, cross references to figures and tables Discussion summary of main results, comparison to literature, future perspectives, main conclusion		essential results are missing, results are poorly described and structured Poorly reported, results are poorly compared to literature, not well structured, superficial	reported, some results are not (sufficiently) described, logical order is missing Reasonably reported, not all main results are compared to literature or argumentation is superficial,	reported, result are sufficiently describes, to sal order is missing. Reasonably reported, results are discussed and compared to literature, argumentation is not always clear,	clear, results are adequately described and ordered Well reported and clear result, are discuss, and compared to literature, clearly structured, evidence of a	clear and concise, results are clearly described and ordered Excellently reported, clear, concise and structured, results are discussed and compared to literature, strong argumentation,	quality Publishable



3.1.3 Rubric presentation

Was the duration of the presentation 10±1 min?



Content	insufficient coverage of	coverage of the subject	Adequate coverage of the	Full coverage of the	Comprehensive, full	
→ content	the subject, the	is missing depth or is	content, the different	subject, selection of	coverage of the	
present on the	different sections of the	incomplete, the	sections of the	relevant regults, the	subject, good selection	
slides and how	presentation are not	different sections of the	presentation are balanced	different actions of	of relevant results, the	
this is explained	balanced	presentation are not		the presentation are	different sections of the	
		balanced		well balanced	presentation are well	
					balanced	
Slides	Unclear or overloaded	Slides not always clear	Clear slides, good	Clear and attractive	Excellent, clear and	
	slides, little structure,	or are overloaded,	structure, proper citations	slides, or .	attractive, good	
	important citations are	structure is mostly	are used	structi e, roper	structure, creative,	
	missing	missing, citations are		citations are used	proper citations are	
		missing			used	
Posture and	Closed posture, sloppy,	Closed posture, tries to	Open posture, connects	Enthusiastic,	Excellent, compelling,	
persuasiveness	unmotivated,	connect to the	with audience, eye	enj vable open	enjoyable	
	presentation is	audience, presentation	contact, posture and	postur frequent eye		
	mechanical	is mechanical	behavior are good but not	cor .act		
			consistent			
Oral delivery	Sloppy language,	Understandable, limited	Understandable, mostly	Understandable,	Clear and	
	unintelligible, no	use of scientific	scientific language, use of	mostly scientific	understandable,	
	scientific language,	language, monotonous,	intonation, too fast or	language, good use	scientific lar guage,	
	monotonous,	too fast or slow	slow	of intonation,	natural ow, good use	
	distracting pacing			appropriate pacing	of intonation, excellent	
II					pacing	
Discussion:	Knows little about the	Has a basic	Has sufficient	Has good	Has very good	Excellent, has
knowledge	topic, cannot correctly	understanding of the	understanding of the	understanding of the	understanding of the	extensive
→ Correctness	answer most trivial	topic, can only answer	topic, can answer most of	topic, can answer the	topic, gives a correct	knowledge of the
	questions	trivial questions	the questions correctly	questions	anster to a questions	topic, gives a
						correct answer
						to all questions,
						elaborates on
						the topic
Discussion:	Answers are	Answers are	Structured answers to the	Well-structured	Well-structured	
response to	unstructured, does not	unstructured but answer	questions, explores and	answers, to the point,	answers, to the point,	
questions	indicate exploration of	the questions, indicates	explains the issue	explores, explains	fully explores, explains	
→	the issue, no direct	an attempt of		and e ands upon	and expands upon the	
structure/thinking						
- a cotta. s/ cimining	answer to the questions	exploration of the issue		the ssue	issue, incorporated	
process	answer to the questions	exploration of the issue		therissue	issue, incorporated critical thinking skills	

"Reflection turns experience into insight." – John C. Maxwell



3.2 Reflection on your evaluation

What stands out to you in your final rubric:

- Higher score on process than I expected
- My report score was slightly lower than I hoped

Which criteria were stronger than expected:

- · Communication with supervisor
- Taking initiative in problem-solving

Were there any lower scores or remarks that surprised you:

I got feedback that my discussion section lacked depth and that I didn't refer to literature enough—this surprised me because I thought I had done enough.

What do you think contributed most to the results you received:

Being proactive in the lab and asking for feedback regularly. But I underestimated how detailed the report needs to be.

What feedback would you like to carry forward to your next internship:

- · Start writing earlier and leave more time for feedback rounds
- · Use more recent scientific sources in my writing
- Dare to propose ideas more during meetings



3.3 Overall reflection

What did you learn about yourself during this internship:

That I enjoy working in a lab environment, but I still need to grow in reporting and critical thinking.

What skills or attitudes do you feel you improved on:

- Lab techniques
- Self-confidence
- Professional communication

What would you like to approach differently in your junior internship:

- Ask for mid-stage feedback on my writing
- Be more structured from day one
- · Clarify rubric expectations at the start

Has this internship influenced your thoughts on your future master's specialization:

Yes. I thought I wanted to do molecular biology, but now I'm more interested in immunology and translational research.



3.4 Notes for the future

Use this space for personal notes, reminders, or tips for your next internship:

- Bring notebook to every feedback moment
- Ask your supervisor to review your discussion early
- Don't be afraid to ask "stupid" questions, better than making wrong assumptions
- · Plan your week on Monday morning
- Keep a Word doc open with key lit references from the start
- You're more capable than you think, just take initiative

Need inspiration?

- What surprised me most about this internship?
- A moment I learned from but didn't expect...
- Something I thought I was bad at, but turned out okay...

