

Diversity and hydrocarbon-degrading potential of epiphytic microbial communities on *Platanus x acerifolia* leaves in an urban area

Supplementary material

Gandolfi, Isabella; Canedoli, Claudia; IMPERATO, Valeria; Tagliaferri, Ilario; GKOREZIS, Panos; VANGRONSVELD, Jaco; Schioppa, Emilio Padoa; Papacchini, Maddalena; Bestetti, Giuseppina & Franzetti, Andrea (2017) Diversity and hydrocarbon-degrading potential of epiphytic microbial communities on *Platanus x acerifolia* leaves in an urban area. In: ENVIRONMENTAL POLLUTION, 220, p. 650-658.

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SUPPLEMENTARY MATERIAL

Diversity and hydrocarbon-degrading potential of epiphytic microbial communities on

***Platanus x acerifolia* leaves in an urban area**

Authors: Isabella Gandolfi^a, Claudia Canedoli^a, Valeria Imperato^a, Ilario Tagliaferri^a, Panagiotis Gkorezis^b, Jaco Vangronsveld^b, Emilio Padoa Schioppa^a, Maddalena Papacchini^c, Giuseppina Bestetti^a, Andrea Franzetti^a

^aDept. of Earth and Environmental Sciences, University of Milano-Bicocca, Milan, Italy

^bCentre for Environmental Sciences – Hasselt University, Hasselt, Belgium

^cINAIL, Dipartimento Innovazioni Tecnologiche e Sicurezza degli Impianti, Prodotti ed Insediamenti Antropici, Rome, Italy

Table S1 – Genera which significantly varied between sampling months on the basis of multiple t-tests ($p < 0.05$). Only genera with an abundance $\geq 2\%$ are reported. Significance of the obtained p-values was adjusted according to the False Discovery Rate procedure with Benjamini-Hochberg correction.

Genus	t	Corrected p-value	Prevalence
<i>Aeribacillus</i>	2.214970	0.001767601	April
<i>Buttiauxella</i>	3.868329	0.001767601	April
<i>Hymenobacter</i>	-3.742334	0.004272642	July
<i>Massilia</i>	-2.420413	0.018212689	July
<i>Methylobacterium</i>	1.509056	0.027313227	April
<i>Pseudomonas</i>	2.671517	0.037046296	April

Table S2 – Genera which significantly varied between sampling sites on the basis of multiple t-tests ($p < 0.05$). Only genera with an abundance $\geq 2\%$ are reported. Significance of the obtained p-values was adjusted according to the False Discovery Rate procedure with Benjamini-Hochberg correction.

Genus	t	Corrected p-value	Prevalence
<i>Aeribacillus</i>	-1.4962479	0.000004065	road
<i>Buttiauxella</i>	5.7981095	0.019961550	park

Fig. S1 – Map of sampling locations.

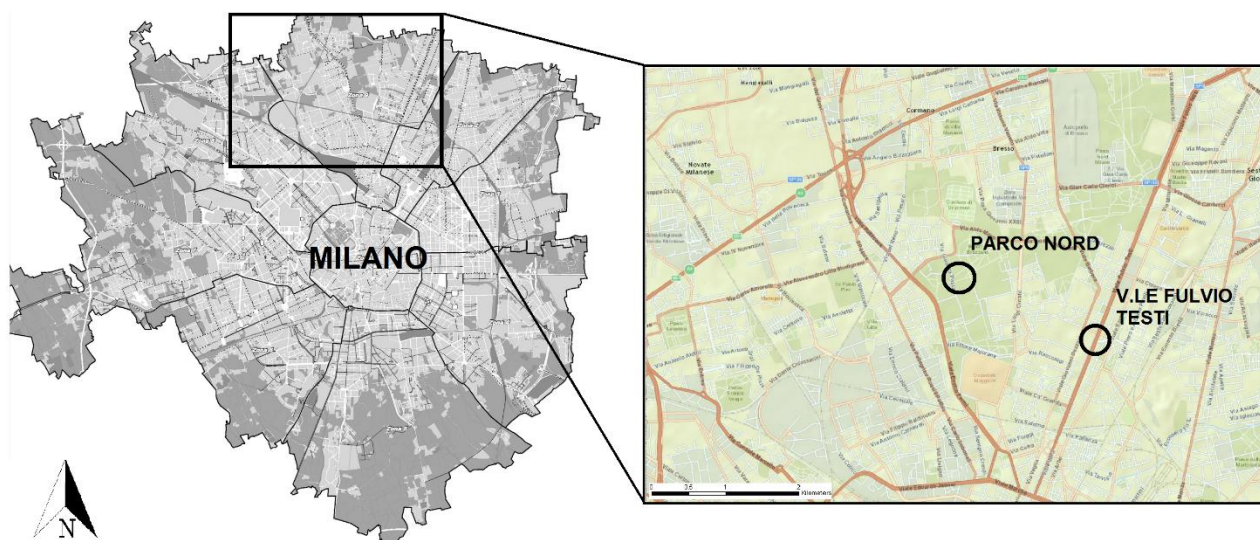


Fig. S2 – Meteorological data and atmospheric pollutant concentrations from 1st January 2014 to 31st December 2014 in Milan, Italy (source: Regional Agency of Environmental Protection, ARPA Lombardia). All data were retrieved from the nearest available sensors to the leaf sampling locations. Meteorological parameters (mean daily temperature, mean daily global solar radiation, cumulative daily precipitations, mean daily relative humidity, mean daily wind speed) were obtained from the ARPA Lombardia sampling point “Cinisello Balsamo Parco Nord”. Atmospheric pollutant concentrations (PM10 mean daily concentration, benzene mean daily concentration) were obtained from the ARPA Lombardia sampling point “Milano Pascal Città Studi”. The two days of sampling are shown on the graph as vertical black lines.

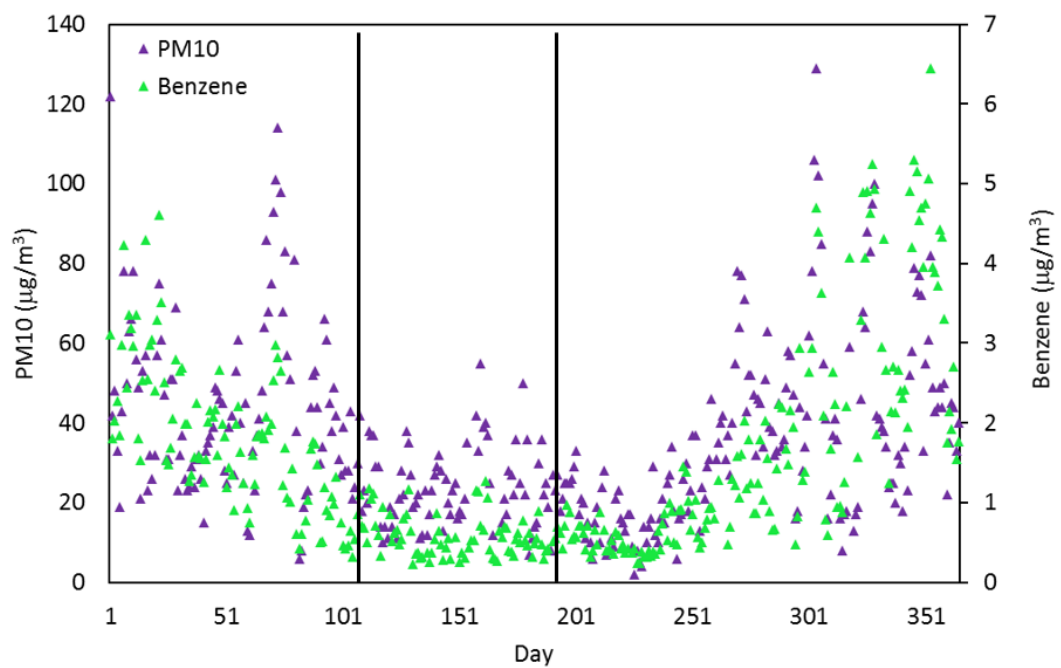
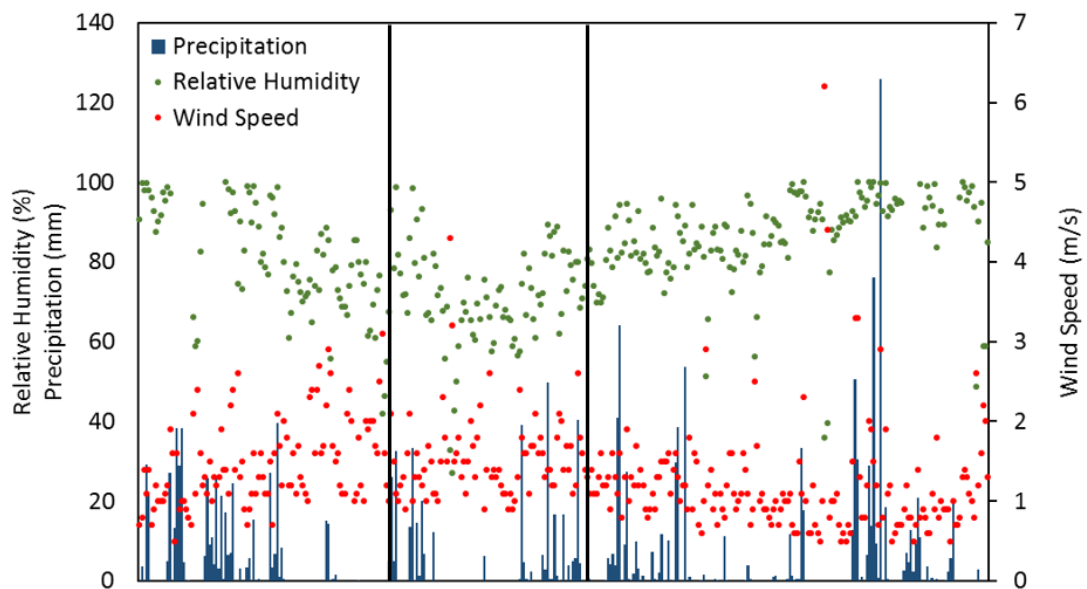
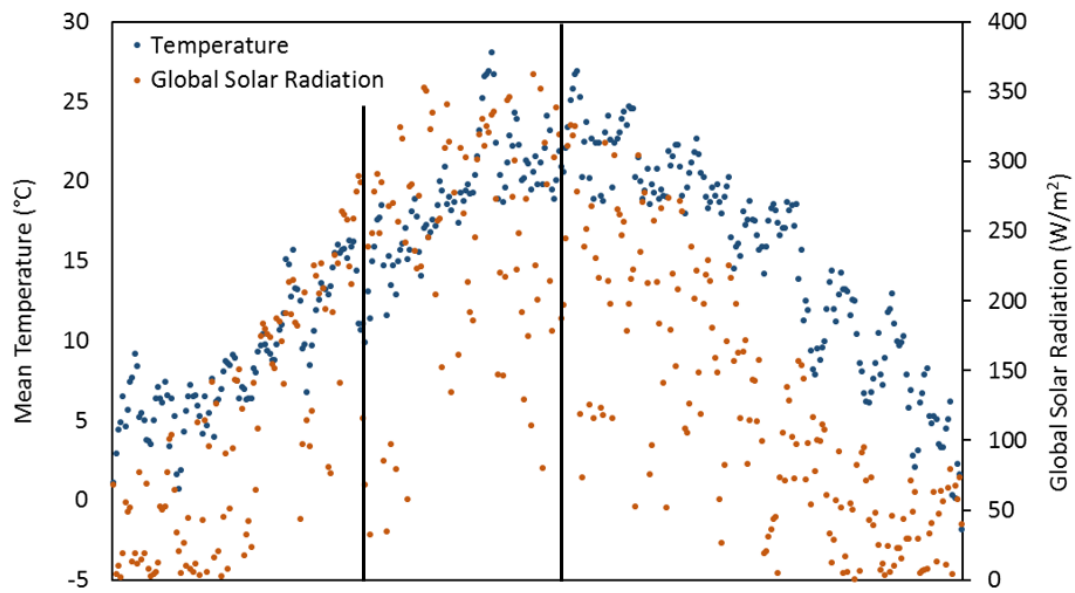


Fig. S3 – Boxplot of average OTU number in April and July samples.

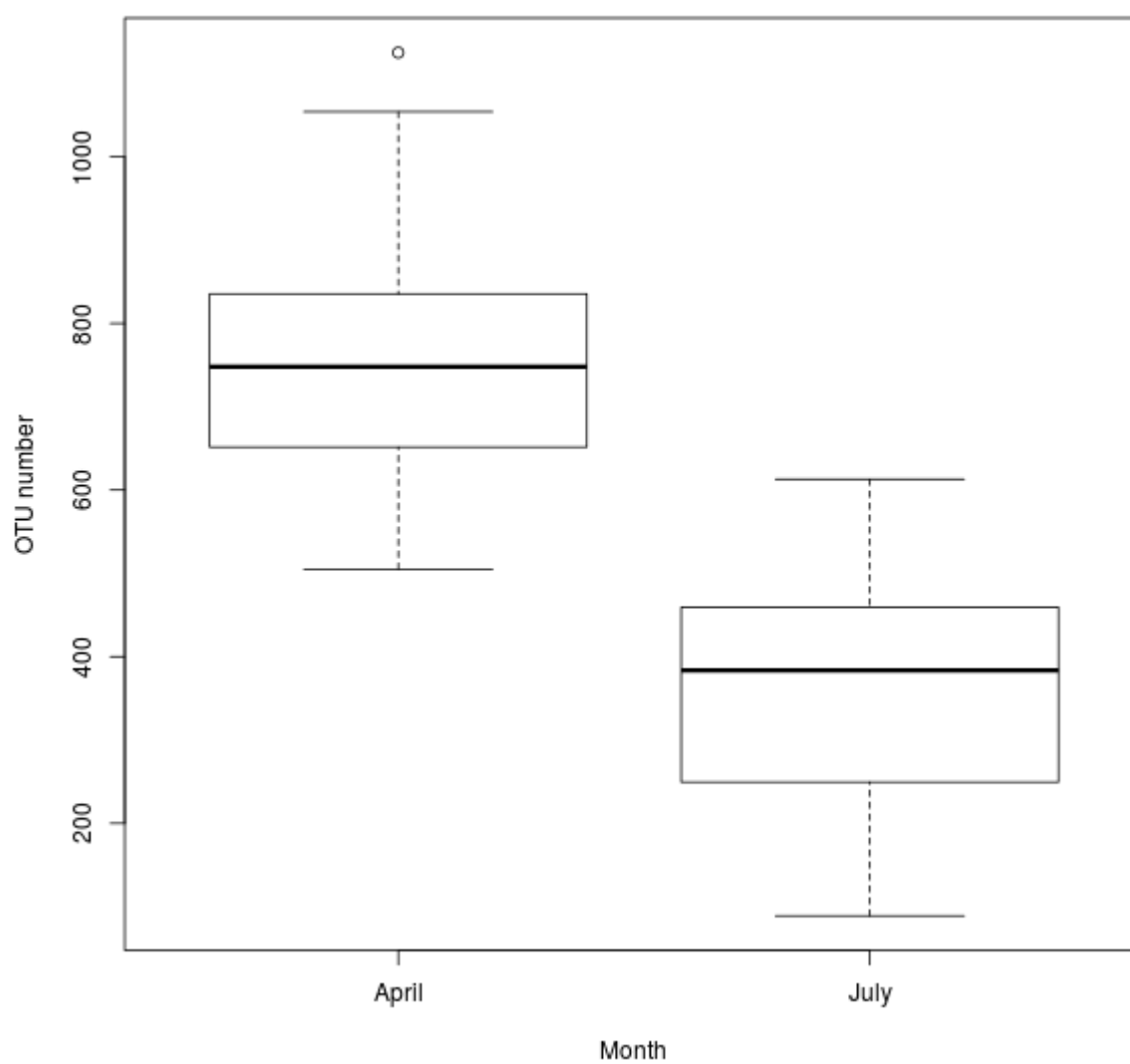


Fig. S4 – Boxplot of average number of *alkB* phylotypes in April and July samples.

