

PERSONAL INFORMATION

Andrea Franzetti



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Sex M | Date of birth 18/07/1974 | Nationality Italian

POSITION

Associate Professor, Microbiology (BIO/19), Università degli Studi di Milano – Bicocca, Dep. Earth and Environmental Sciences (DISAT)

WORK EXPERIENCE

From December 2008 a March 2017

Researcher, General Microbiology (BIO/19)

Università degli Studi di Milano Bicocca, dip. Earth and Environmental Sciences (DISAT), piazza della Scienza, 1 – MILANO - ITALIA

- Research and teaching activities in the field of environmental microbiology

From October 2012 to August 2013

Visiting Scientist

Soderton University of Stoccolma (Svezia), Ospite: Prof. Sara Sjoling - School of Natural Science, Technology and Environmental Studies

- Research activities in the field of marine microbiology

Da December 2007 to December 2008

Post-doc Research assistant

Università degli Studi di Milano Bicocca, dip. Earth and Environmental Sciences (DISAT), piazza della Scienza, 1 – MILANO - ITALIA

- Research and teaching activities in the field of environmental microbiology

From November 2004 to December 2007

PhD student

Università degli Studi di Milano Bicocca, dip. Earth and Environmental Sciences (DISAT), piazza della Scienza, 1 – MILANO - ITALIA

- Research and teaching activities in the field of environmental microbiology

From September 2005 to June 2006

FEMS Fellow

Ulster University, Coleraine (UK), Ospite: Prof. Ibrahim Banat - School of Biomedical Sciences

- Research activities in the field of environmental microbiology

From May 2002 to November 2004

Research Fellow

Università degli Studi di Milano Bicocca, dip. Earth and Environmental Sciences (DISAT), piazza della Scienza, 1 – MILANO - ITALIA

- Research and teaching activities in the field of environmental microbiology

From September 2000 to July 2001

Compulsory civil service

Amici della Terra Lombardia onlus, MILANO

- Environmental education at school and touristic villages

EDUCATION AND TRAINING

- December 2007 **PhD in Environmental sciences**  
 Università degli Studi di Milano – Bicocca, piazza dell'Ateneo Nuovo, 1 MILANO - ITALIA
  - Research project: "Surface active compounds by Gordonia and their applications in environmental remediation", Tutor: Prof. Giuseppina Bestetti
- March 2001 **University Degree (five years) in Environmental Sciences, grade 110/110**  
 Università degli Studi di Milano – Bicocca, piazza dell'Ateneo Nuovo, 1 MILANO – ITALIA
- July 1993 **High School Diploma (Maturità Scientifica)**  
 Liceo Scientifico "G. Ferraris" - VARESE

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
French	A1	A1	A1	A1	A1

Communication skills 

- good communication skills gained through my experience in academic teaching and scientific dissemination at congresses

Organisational / managerial skills 

- leadership (currently responsible for a team of 6 people)
- project management (currently responsible of 3 research projects)

Digital competence

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient user	Proficient user	Proficient user	Proficient user	Proficient user

- good command of office suite (word processor, spread sheet, presentation software)
- good command of photo editing software
- good command of Linux Operating System
- good command of software for genomics and metagenomics
- good command of multi-user remote servers

Driving licence B

RESPONSIBILITY OF RESEARCH PROJECTS
 

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## Research calls

- FONDAZIONE CARIPLO 2015: BEVERAGE - BioElectrochemical Remediation of Groundwater plumes (24 mesi, 71.029 €)
- INAIL 2015: Fillobiorisanamento: utilizzo delle interazioni piante-batteri come Strumento INnovativo pER il trattamento bioloGico di inquinanti volatili per la sicurezZA negli impianti produttivi (SINERGIA) (12 mesi, 211.500 €)
- PRIN 2010\_2011: Contaminanti emergenti in aria, acqua e suolo: dalla sorgente all'ambiente marino. (36 mesi, 100.800 €)

## Research contracts

- INSTM 2017 - Studio delle potenzialità di biodegradazione aerobica in siti contaminati da solventi clorurati a catena corta (24 Mesi, 90,000 € + IVA)
- ENI 2016 (subcontractors of POLITECNICO DI MILANO) – MIAMI – Metodi integrati di analisi microbiologica e isotopica (30 mesi, 75.000 € + IVA)
- SISTEMI AMBIENTALI 2014/2015 – Sviluppo di metodi di rilevamento di indicatori di contaminazione fecale in impianti di trattamento biologico di suoli contaminati (24 mesi, 60.000 € + IVA)
- GIO ECO 2013. Sviluppo di un metodo biologico per la rimozione di mercurio da acque contaminate (12 mesi, 15.000 € + IVA)

 ACADEMIC TEACHING
 

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## From a.y. 2017/2018 to now

- Course: Microbiologia (Microbiology), CdS Scienze Biologiche (Biological Sciences), 4 CFU, Università degli Studi di Milano Bicocca
- Course: Marine Environmental Microbiology, CdS Marine Sciences, 6 CFU, Università degli Studi di Milano Bicocca

## From a. y. 2012/2013 to now

- Course: Microbiologia applicata (“Applied microbiology”), CdS Scienze Ambientali (Environmental Sciences), 6 CFU, Università degli Studi di Milano Bicocca

## From a.y. 2009/2010 to 2011/2012

- Course: Microbiologia ambientale (“Environmental microbiology”), CdS Scienze Ambientali (Environmental Sciences), 6 CFU, Università degli Studi di Milano Bicocca

 ADDITIONAL INFORMATION
 

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## Other teaching duties

- From 2011 Teacher at second-level master “Caratterizzazione e Risanamento di Siti Contaminati” (Characterization and remediation of Contaminated sites”), Università Ca’ Foscari di Venezia, 4-5 hours per edition
- AY 2013/2014 Teacher of the module “Environmental Microbiology” (3 CFU), course of “Environmental Chemistry and Microbiology”- PhD in Environmental and Infrastructure Engineering, Politecnico di Milano

## Academic responsibilities

- From 2008: Faculty member of Department of Earth and Environmental Sciences (DISAT), Univ. Milano - Bicocca
- From 2008: Teaching Board (CCD) of Department of Earth and Environmental Sciences (DISAT), Univ. Milano – Bicocca
- From 2009: Member of Doctorate board, PhD in Environmental Sciences, Univ. Milano Bicocca
- From 2016: Member of Join Committee (DISAT), Univ. Milano – Bicocca
- From 2016: Member of Stage and Work Commission, Department of Earth and Environmental Sciences (DISAT), Univ. Milano – Bicocca

## Evaluation and editorial activities

- From 2012: Member of Editorial Board of Journal of Petroleum Engineering, Hindawi Publisher, ISSN: 2314-5005 (Print), ISSN: 2314-5013 (Online)
- Dal 2016: Member of Editorial Board of PLOS ONE, Public Library of Science, ISSN: 1932-6203
- Referee: The ISME Journal, Nature Protocols, Plos One, Journal of Hazardous Materials, Science of

the Total Environment, Chemosphere, Applied Microbiology and Biotechnology, Atmospheric Environment, Soil and Sediment Contamination, Environmental Pollution, Biodegradation, Polar Biology, Marine Pollution Bulletin, New Biotechnology, Environmental Science and Pollution Research, Biochemical Engineering Journal, Annals of Microbiology, Applied Biochemistry and Biotechnology, Bioresource Technology

- Evaluator of research projects for: Executive Agency for Higher Education, Research, Development and Innovation Funding (Romania), Icelandic Center for Research (Islanda), Austrian Science Fund (FWF) (Austria), Università degli studi di Verona
- Member of organizing committee of the international congress "Environmental Microbiology and Biotechnology in the frame of the Knowledge-Based Bio and Green Economy" EMB2012- Bologna, April 10 12, 2012
- From 2003 invited and submitted oral presentation to congresses (>50).

Participation and organisation of congresses

## PUBLICATIONS

ISI o SCOPUS

1. Ferrario, C., Pittino, F., Tagliaferri, I., Gandolfi, I., Bestetti, G., Azzoni, R.S., Diolaiuti, G., Franzetti, A., Ambrosini, R., Villa, S. Bacteria contribute to pesticide degradation in cryoconite holes in an Alpine glacier (2017) *Environmental Pollution*, 230, pp. 919-926.
2. Innocente, E., Squizzato, S., Visin, F., Facca, C., Rampazzo, G., Bertolini, V., Gandolfi, I., Franzetti, A., Ambrosini, R., Bestetti, G. Influence of seasonality, air mass origin and particulate matter chemical composition on airborne bacterial community structure in the Po Valley, Italy (2017) *Science of the Total Environment*, 593-594, pp. 677-687.
3. Daghigho, M., Aulenta, F., Vaiopoulou, E., Franzetti, A., Arends, J.B.A., Sherry, A., Suárez-Suárez, A., Head, I.M., Bestetti, G., Rabaey, K. Electrobioremediation of oil spills (2017) *Water Research*, 114, pp. 351-370.
4. Ambrosini, R., Musitelli, F., Navarra, F., Tagliaferri, I., Gandolfi, I., Bestetti, G., Mayer, C., Minora, U., Azzoni, R.S., Diolaiuti, G., Smiraglia, C., Franzetti, A. Diversity and Assembling Processes of Bacterial Communities in Cryoconite Holes of a Karakoram Glacier (2017) *Microbial Ecology*, 73 (4), pp. 827-837.
5. Franzetti, A., Navarra, F., Tagliaferri, I., Gandolfi, I., Bestetti, G., Minora, U., Azzoni, R.S., Diolaiuti, G., Smiraglia, C., Ambrosini, R. Temporal variability of bacterial communities in cryoconite on an alpine glacier (2017) *Environmental Microbiology Reports*, 9 (2), pp. 71-78.
6. Franzetti, A., Navarra, F., Tagliaferri, I., Gandolfi, I., Bestetti, G., Minora, U., Azzoni, R.S., Diolaiuti, G., Smiraglia, C., Ambrosini, R. Potential sources of bacteria colonizing the cryoconite of an Alpine glacier (2017) *PLoS ONE*, 12 (3), art. no. e0174786.
7. Palma, E., Daghigho, M., Franzetti, A., Petrangeli Papini, M., Aulenta, F. The bioelectric well: A novel approach for in situ treatment of hydrocarbon-contaminated groundwater (2017) *Microbial Biotechnology*, . Article in Press.
8. Franzetti, A., Daghigho, M., Parenti, P., Truppi, T., Bestetti, G., Trasatti, S.P., Cristiani, P. Monod kinetics degradation of low concentration residual organics in membraneless microbial fuel cells (2017) *Journal of the Electrochemical Society*, 164 (3), pp. H3091-H3096.
9. Roustazadeh Sheikhyousefi, P., Nasr Esfahany, M., Colombo, A., Franzetti, A., Trasatti, S.P., Cristiani, P. Investigation of different configurations of microbial fuel cells for the treatment of oilfield produced water (2017) *Applied Energy*, 192, pp. 457-465.
10. Gandolfi, I., Canedoli, C., Imperato, V., Tagliaferri, I., Gkorezis, P., Vangronsveld, J., Padoa Schioppa, E., Papacchini, M., Bestetti, G., Franzetti, A. Diversity and hydrocarbon-degrading potential of epiphytic microbial communities on *Platanus x acerifolia* leaves in an urban area (2017) *Environmental Pollution*, 220, pp. 650-658.
11. Franzetti, A., Tagliaferri, I., Gandolfi, I., Bestetti, G., Minora, U., Mayer, C., Azzoni, R.S., Diolaiuti, G., Smiraglia, C., Ambrosini, R. Light-dependent microbial metabolisms drive carbon fluxes on glacier surfaces (2016) *ISME Journal*, 10(12), pp. 2984-2988.
12. Gkorezis P., Daghigho M., Franzetti A., Van Hamme J.D., Sillen W., Vangronsveld J. The Interaction between Plants and Bacteria in the Remediation of Petroleum Hydrocarbons: An Environmental Perspective. (2016) *Frontiers in Microbiology*, 7; 1836
13. Ferrentino, R., Langone, M., Gandolfi, I., Bertolini, V., Franzetti, A., Andreottola, G. Shift in microbial community structure of anaerobic side-stream reactor in response to changes to anaerobic solid retention time and sludge interchange ratio (2016) *Bioresource Technology*, 221, pp. 588-597.
14. Tatangelo, V., Mangili, I., Caracino, P., Anzano, M., Najmi, Z., Bestetti, G., Collina, E., Franzetti, A., Lasagni, M. Biological devulcanization of ground natural rubber by *Gordonia desulfuricans* DSM 44462T strain (2016) *Applied Microbiology and Biotechnology*, 100 (20), pp. 8931-8942.
15. Thurebom, P., Franzetti, A., Lundin, D., Sjöling, S. Reconstructing ecosystem functions of the active microbial community of the baltic sea oxygen depleted sediments (2016) *PeerJ*, 2016 (1), art. no. e1593.
16. Daghigho, M., Vaiopoulou, E., Patil, S.A., Suárez-Suárez, A., Head, I.M., Franzetti, A., Rabaey, K. Anodes stimulate anaerobic toluene degradation via sulfur cycling in marine sediments (2016) *Applied and Environmental Microbiology*, 82 (1), pp. 297-307.
17. Gagliano, A.L., Tagliavia, M., D'Alessandro, W., Franzetti, A., Parello, F., Quatrini, P. So close, so different: geothermal flux shapes divergent soil microbial communities at neighbouring sites (2016) *Geobiology*, 14 (2), pp. 150-162.
18. Mangili, I., Lasagni, M., Anzano, M., Collina, E., Tatangelo, V., Franzetti, A., Caracino, P., Isayev, A.I. Mechanical and rheological properties of natural rubber compounds containing devulcanized Ground tire rubber

- from several methods (2015) *Polymer Degradation and Stability*, 121, pp. 369-377.
19. Gandolfi, I., Bertolini, V., Bestetti, G., Ambrosini, R., Innocente, E., Rampazzo, G., Papacchini, M., Franzetti, A. Spatio-temporal variability of airborne bacterial communities and their correlation with particulate matter chemical composition across two urban areas. (2015) *Applied Microbiology and Biotechnology*, 99 (11), pp. 4867-4877.
  20. Careghini, A., Saponaro, S., Sezenna, E., Daghigho, M., Franzetti, A., Gandolfi, I., Bestetti, G. Lab-scale tests and numerical simulations for in situ treatment of polluted groundwater (2015) *Journal of Hazardous Materials*, 287, pp. 162-170.
  21. Saliu, F., Anzano, M., Franzetti, A. Application of a 1,1,3,3-tetramethylguanidine (TMG)/MeOH-CO<sub>2</sub> in situ derivatization procedure for the gas chromatographic characterization of the fatty acid profile in olive oil (2015) *Analytical and Bioanalytical Chemistry*, 407 (7), pp. 1801-1806.
  22. Daghigho, M., Gandolfi, I., Bestetti, G., Franzetti, A., Guerrini, E., Cristiani, P. Anodic and cathodic microbial communities in single chamber microbial fuel cells (2015) *New Biotechnology*, 32 (1), pp. 79-84.
  23. Azzoni, R.S., Franzetti, A., Fontaneto, D., Zullini, A., Ambrosini, R. Nematodes and rotifers on two Alpine debris-covered glaciers (2015) *Italian Journal of Zoology*, 82 (4), pp. 616-623.
  24. Daghigho, M., Tatangelo, V., Franzetti, A., Gandolfi, I., Papacchini, M., Careghini, A., Sezenna, E., Saponaro, S., Bestetti, G. Hydrocarbon degrading microbial communities in bench scale aerobic biobarriers for gasoline contaminated groundwater treatment (2015) *Chemosphere*, 130, pp. 34-39.
  25. Federici, E., Rossi, R., Fidati, L., Paracucchi, R., Scargetta, S., Montalbani, E., Franzetti, A., La Porta, G., Fagotti, A., Simoncelli, F., Cenci, G., Di Rosa, I. Characterization of the skin microbiota in Italian stream frogs (*Rana italica*) infected and uninfected by a cutaneous parasitic disease (2015) *Microbes and Environments*, 30 (3), pp. 262-269.
  26. Gkorezis, P., Bottos, E. M., Van Hamme, J. D., Franzetti, A., Abbamondi, G. R., Balseiro-Romero, M., Weyens, N., Rineau, F. & Vangronsveld, J. (2015) Draft Genome Sequence of *Acinetobacter calcoaceticus* Strain GK1, a Hydrocarbon-Degrading Plant Growth-Promoting Rhizospheric Bacterium. *Genome announcements*, 3(4).
  27. Gkorezis, P., Rineau, F., Van Hamme, J., Franzetti, A., Daghigho, M., Thijs, S., Weyens, N. & Vangronsveld, J. (2015) Draft Genome Sequence of *Acinetobacter oleivorans* PF1, a Diesel-Degrading and Plant-Growth-Promoting Endophytic Strain Isolated from Poplar Trees Growing on a Diesel-Contaminated Plume. *Genome announcements*, 3(1).
  28. Tatangelo, V., Franzetti, A., Gandolfi, I., Bestetti, G., Ambrosini, R. Effect of preservation method on the assessment of bacterial community structure in soil and water samples (2014) *FEMS Microbiology Letters*, 356 (1), pp. 32-38.
  29. Cristiani, P., Franzetti, A., Gandolfi, I., Guerrini, E., Bestetti, G. Bacterial DGGE fingerprints of biofilms on electrodes of membraneless microbial fuel cells (2013) *International Biodeterioration and Biodegradation*, 84, pp. 211-219.
  30. Franzetti, A., Tatangelo, V., Gandolfi, I., Bertolini, V., Bestetti, G., Diolaiuti, G., D'agata, C., Mihalcea, C., Smiraglia, C., Ambrosini, R. Bacterial community structure on two alpine debris-covered glaciers and biogeography of *Polaromonas* phylotypes (2013) *ISME Journal*, 7 (8), pp. 1483-1492.
  31. Bertolini, V., Gandolfi, I., Ambrosini, R., Bestetti, G., Innocente, E., Rampazzo, G., Franzetti, A. Temporal variability and effect of environmental variables on airborne bacterial communities in an urban area of Northern Italy (2013) *Applied Microbiology and Biotechnology*, 97 (14), pp. 6561-6570.
  32. Gandolfi, I., Bertolini, V., Ambrosini, R., Bestetti, G., Franzetti, A. Unravelling the bacterial diversity in the atmosphere (2013) *Applied Microbiology and Biotechnology*, 97 (11), pp. 4727-4736.
  33. Longhin, E., Pezzolato, E., Mantecca, P., Holme, J.A., Franzetti, A., Camatini, M., Gualtieri, M. Season linked responses to fine and quasi-ultrafine Milan PM in cultured cells (2013) *Toxicology in Vitro*, 27 (2), pp. 551-559.
  34. Rivelli, V., Franzetti, A., Gandolfi, I., Cordoni, S., Bestetti, G. Persistence and degrading activity of free and immobilised allochthonous bacteria during bioremediation of hydrocarbon-contaminated soils (2013) *Biodegradation*, 24 (1), pp. 1-11.
  35. Daghigho, M., Gandolfi, I., Bestetti, G., Franzetti, A., Cristiani, P. Anodic and cathodic microbial communities in single chamber microbial fuel cells (2013) *EFC 2013 - Proceedings of the 5th European Fuel Cell Piero Lunghi Conference*, pp. 411-412.
  36. Saponaro, S., Careghini, A., Romele, L., Sezenna, E., Franzetti, A., Gandolfi, I., Daghigho, M., Bestetti, G. Remediation of groundwater polluted by gasoline-derived compounds with biobarriers (2012) *WIT Transactions on Ecology and the Environment*, 164, pp. 439-449.
  37. Franzetti, A., Gandolfi, I., Raimondi, C., Bestetti, G., Banat, I.M., Smyth, T.J., Papacchini, M., Cavallo, M., Fracchia, L. Environmental fate, toxicity, characteristics and potential applications of novel bioemulsifiers produced by *Variovorax paradoxus* 7bCT5 (2012) *Bioresource Technology*, 108, pp. 245-251.
  38. Franzetti, A., Gandolfi, I., Bertolini, V., Raimondi, C., Piscitello, M., Papacchini, M., Bestetti, G. Phylogenetic characterization of bioemulsifier-producing bacteria (2011) *International Biodeterioration and Biodegradation*, 65 (7), pp. 1095-1099.
  39. Gandolfi, I., Franzetti, A., Bertolini, V., Gaspari, E., Bestetti, G. Antibiotic resistance in bacteria associated with coarse atmospheric particulate matter in an urban area (2011) *Journal of Applied Microbiology*, 110 (6), pp. 1612-1620.
  40. Gualtieri, M., Franzetti, A., Longhin, E., Mantecca, P., Bestetti, G., Bolzacchini, E., Camatini, M. In vitro effects of microbiologically characterized Milan particulate matter (2011) *Procedia Environmental Sciences*, 4, pp. 192-197.
  41. Franzetti, A., Gandolfi, I., Gaspari, E., Ambrosini, R., Bestetti, G. Seasonal variability of bacteria in fine and coarse urban air particulate matter (2011) *Applied Microbiology and Biotechnology*, 90 (2), pp. 745-753.
  42. Franzetti, A., Tamburini, E., Banat, I.M. Applications of biological surface active compounds in remediation technologies (2010) *Advances in Experimental Medicine and Biology*, 672, pp. 121-134.
  43. Franzetti, A., Gandolfi, I., Bestetti, G., Smyth, T.J.P., Banat, I.M. Production and applications of trehalose lipid biosurfactants (2010) *European Journal of Lipid Science and Technology*, 112 (6), pp. 617-627.
  44. Banat, I.M., Franzetti, A., Gandolfi, I., Bestetti, G., Martinotti, M.G., Fracchia, L., Smyth, T.J., Marchant, R. Microbial biosurfactants production, applications and future potential (2010) *Applied Microbiology and Biotechnology*,

- 87 (2), pp. 427-444.
45. Franzetti, A., Gandolfi, I., Piscitello, M., Porto, G., Biasiolo, A., Oltolini, F., Marangoni, T., Bestetti, G. Biodegradation of N,N diethylaniline in a contaminated aquifer: Laboratory- and field-scale evidences (2010) *Biodegradation*, 21 (2), pp. 193-201.
46. Gandolfi, I., Sicolo, M., Franzetti, A., Fontanarosa, E., Santagostino, A., Bestetti, G. Influence of compost amendment on microbial community and ecotoxicity of hydrocarbon-contaminated soils (2010) *Bioresource Technology*, 101 (2), pp. 568-575.
47. Franzetti, A., Caredda, P., La Colla, P., Pintus, M., Tamburini, E., Papacchini, M., Bestetti, G. Cultural factors affecting biosurfactant production by *Gordonia* sp. BS29 (2009) *International Biodeterioration and Biodegradation*, 63 (7), pp. 943-947.
48. Ruggeri, C., Franzetti, A., Bestetti, G., Caredda, P., La Colla, P., Pintus, M., Sergi, S., Tamburini, E. Isolation and characterisation of surface active compound-producing bacteria from hydrocarbon-contaminated environments (2009) *International Biodeterioration and Biodegradation*, 63 (7), pp. 936-942.
49. Franzetti, A., Caredda, P., Ruggeri, C., Colla, P.L., Tamburini, E., Papacchini, M., Bestetti, G. Potential applications of surface active compounds by *Gordonia* sp. strain BS29 in soil remediation technologies (2009) *Chemosphere*, 75 (6), pp. 801-807.
50. Cristiani, P., Franzetti, A., Bestetti, G. Monitoring of electro-active biofilm in soil (2008) *Electrochimica Acta*, 54 (1), pp. 41-46.
51. Di Gennaro, P., Franzetti, A., Bestetti, G., Lasagni, M., Pitea, D., Collina, E. Slurry phase bioremediation of PAHs in industrial landfill samples at laboratory scale (2008) *Waste Management*, 28 (8), pp. 1338-1345.
52. Franzetti, A., Di Gennaro, P., Bestetti, G., Lasagni, M., Pitea, D., Collina, E. Selection of surfactants for enhancing diesel hydrocarbons-contaminated media bioremediation (2008) *Journal of Hazardous Materials*, 152 (3), pp. 1309-1316.
53. Marchant, R., Franzetti, A., Pavlostathis, S.G., Tas, D.O., Erdbrugger, I., Unyayar, A., Mazmanci, M.A., Banat, I.M. Thermophilic bacteria in cool temperate soils: Are they metabolically active or continually added by global atmospheric transport? (2008) *Applied Microbiology and Biotechnology*, 78 (5), pp. 841-852.
54. Franzetti, A., Bestetti, G., Caredda, P., La Colla, P., Tamburini, E. Surface-active compounds and their role in the access to hydrocarbons in *Gordonia* strains (2008) *FEMS Microbiology Ecology*, 63 (2), pp. 238-248.
55. Caredda, P., La Colla, P., Pintus, M., Ruggeri, C., Viola, A., Tamburini, E., Suardi, E., Franzetti, A., Bestetti, G. Laboratory tests and bioremediation of a site chronically contaminated by diesel (2007) *Battelle Press - 9th International In Situ and On-Site Bioremediation Symposium 2007*, 1, pp. 198-206.
56. Collina, E., Lasagni, M., Pitea, D., Franzetti, A., Di Gennaro, P., Bestetti, G. Bioremediation of diesel fuel contaminated soil: effect of non ionic surfactants and selected bacteria addition (2007) *Annali di Chimica*, 97 (9), pp. 799-805.
57. Franzetti, A., Di Gennaro, P., Bevilacqua, A., Papacchini, M., Bestetti, G. Environmental features of two commercial surfactants widely used in soil remediation (2006) *Chemosphere*, 62 (9), pp. 1474-1480.
58. Collina, E., Bestetti, G., Di Gennaro, P., Franzetti, A., Gugliersi, F., Lasagni, M., Pitea, D. Naphthalene biodegradation kinetics in an aerobic slurry-phase bioreactor (2005) *Environment International*, 31 (2), pp. 167-171.
59. Di Gennaro, P., Collina, E., Franzetti, A., Lasagni, M., Luridiana, A., Pitea, D., Bestetti, G. Bioremediation of diethylhexyl phthalate contaminated soil: A feasibility study in slurry- and solid-phase reactors (2005) *Environmental Science and Technology*, 39 (1), pp. 325-330.
60. Collina, E., Bestetti, G., Di Gennaro, P., Franzetti, A., Gugliersi, F., Lasagni, M., Pitea, D. Kinetic study of naphthalene biodegradation in aerobic slurry phase reactor (2003) *Advances in Ecological Sciences*, 18, pp. 443-452.
61. Fracchia, L., Ceresa, C., Franzetti, A., Cavallo, M., Gandolfi, I., Van Hamme, J., Gkorezis, P., Marchant, R. & Banat, I. M. (2014) Industrial applications of biosurfactants. *Biosurfactants: Production and Utilization—Processes, Technologies, and Economics*, 159, 245.
62. Franzetti, A., Gandolfi, I., Fracchia, L., Van Hamme, J., Gkorezis, P., Marchant, R. & Banat, I. M. (2014) Biosurfactant use in heavy metal removal from industrial effluents and contaminated sites. *Biosurfactants: Production and Utilization—Processes, Technologies, and Economics*, 159, 361.
63. Marchant, R., Banat, I. M. & Franzetti, A. (2011) *Thermophilic bacteria in cool soils: metabolic activity and mechanisms of dispersal*. Cambridge, UK: Cambridge University Press.
64. Franzetti, A., Tamburini, E. & Banat, I. M. (2010) *Applications of biological surface active compounds in remediation technologies*, Biosurfactants Springer New York, 121-134.
65. Gandolfi, I., Sicolo, M., Fontanarosa, E., Belfiore, A., Napoletano, M., Franzetti, A., Centemero, M., Santagostino, A. & Bestetti, G. Valorizzazione economica e ambientale del compost: utilizzo nel biorisanamento (2009). *Rifiuti Solidi CIPA*.
66. Caredda, P., Franzetti, A., Papacchini, M., La Colla, P., Ruggeri, C., Tamburini, E. & Bestetti, G. (2009) Applications of Surface Active Compounds by *Gordonia* in bioremediation and washing of hydrocarbon-contaminated soils, *Current Research Topics In Applied Microbiology And Microbial Biotechnology*, 671-675.
67. Fontanarosa, E., Belfiore, A., Napoletano, M., Gandolfi, I., Sicolo, M., Franzetti, A., Santagostino, A., Bestetti, G. & Centemero, M. (2009) Economical and environmental valorization of compost: possible utilization for contaminated soil bioremediation. *RS. Rifiuti Solidi*, 23(2), 95

#### Other journals and book chapters

## INFORMAZIONI PERSONALI



## Andrea Franzetti

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Sesso M | Data di nascita 18/07/1974 | Nazionalità Italiana

POSIZIONE RICOPERTA  
DAL 15 MARZO 2017

**Professore Associato, SSD Microbiologia (BIO/19), Università degli Studi di Milano – Bicocca, Dip. di Scienze dell'Ambiente e della Terra (DISAT)**

ESPERIENZA  
PROFESSIONALE

Da dicembre 2008 a marzo 2017

**Ricercatore Universitario, SSD Microbiologia Generale (BIO/19)**

Università degli Studi di Milano Bicocca, dip. Scienze dell'Ambiente e della Terra (DISAT), piazza della Scienza, 1 – MILANO - ITALIA

- Attività di ricerca e didattica nel campo della microbiologia ambientale

Da ottobre 2012 a agosto 2013

**Visiting Scientist**

Soderton University of Stoccolma (Svezia), Ospite: Prof. Sara Sjöling - School of Natural Science, Technology and Environmental Studies

- Attività di ricerca microbiologia marina

Da dicembre 2007 a dicembre 2008

**Assegnista di ricerca**

Università degli Studi di Milano Bicocca, dip. Scienze dell'Ambiente e della Terra (DUSAT), piazza della Scienza, 1 – MILANO – ITALIA

- Attività di ricerca e didattica nel campo della microbiologia ambientale

Da novembre 2004 a dicembre 2007

**Studente di dottorato**

Università degli Studi di Milano Bicocca, dip. Scienze dell'Ambiente e della Terra (DUSAT), piazza della Scienza, 1 – MILANO – ITALIA

- Attività di ricerca e didattica nel campo della microbiologia ambientale

Da settembre 2005 a giugno 2006

**FEMS Fellows**

Ulster University, Coleraine (UK), Ospite: Prof. Ibrahim Banat - School of Biomedical Sciences

- Attività di ricerca nel campo della microbiologia ambientale

Da maggio 2002 a novembre 2004

**Borsa di studio post laurea e assegno di ricerca**

Università degli Studi di Milano Bicocca, dip. Scienze dell'Ambiente e della Terra (DUSAT), piazza della Scienza, 1 – MILANO - ITALIA

- Attività di ricerca nel campo della microbiologia ambientale

Da Settembre 2000 a Luglio 2001

**Servizio civile obbligatorio**

Associazione Amici della Terra Lombardia onlus, MILANO

- Educazione ambientale presso scuole e villaggi turistici

**ISTRUZIONE E FORMAZIONE**

- Dicembre 2007 **Dottorato di ricerca in Scienze Ambientali**  
 Università degli Studi di Milano – Bicocca, piazza dell'Ateneo Nuovo, 1 MILANO - ITALIA

  - Titolo del progetto di ricerca: "Surface active compounds by Gordonia and their applications in environmental remediation", Tutor: Prof. Giuseppina Bestetti
- Marzo 2001 **Laurea a ciclo unico in Scienze Ambientali votazione 110/110**  
 Università degli Studi di Milano – Bicocca, piazza dell'Ateneo Nuovo, 1 MILANO – ITALIA
- Luglio 1993 **Scientific High school diploma (Diploma maturità scientifica)**  
 Liceo Scientifico "G. Ferraris" - VARESE

**COMPETENZE PERSONALI**

Lingua madre Italiano

Altre lingue	COMPRESIONE		PARLATO		PRODUZIONE SCRITTA
	Ascolto	Lettura	Interazione	Produzione orale	
Inglese	C2	C2	C2	C2	C2
Francese	A1	A1	A1	A1	A1

**Competenze comunicative** ▪ buone competenze comunicative acquisite durante l'esperienza di insegnamento accademico e divulgazione scientifica in congressi nazionali ed internazionali

**Competenze organizzative e gestionali** ▪ leadership (attualmente responsabile di un team di 6 persone)  
 ▪ project management (attualmente responsabile di tre progetti di ricerca)

**Competenza digitale**

AUTOVALUTAZIONE				
Elaborazione delle informazioni	Comunicazione	Creazione di Contenuti	Sicurezza	Risoluzione di problemi
Utente avanzato	Utente avanzato	Utente avanzato	Utente avanzato	Utente avanzato

- ottima padronanza degli strumenti della suite per ufficio (elaboratore di testi, foglio elettronico, software di presentazione)
- buona padronanza dei programmi per l'elaborazione digitale delle immagini
- buona padronanza del sistema operativo Linux
- buona padronanza di applicativi per elaborazioni bioinformatiche per la genomica e metagenomica



- buona padronanza nell'utilizzo di server remoti multiutente

Patente di guida B

## RESPONSABILITA' DI PROGETTI DI RICERCA

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### Bandi competitivi

- FONDAZIONE CARIPLO 2015 (Responsabile dell'unità di ricerca): BEVERAGE - BioElectrochemical Remediation of Groundwater plumes (24 mesi, 71.029 €)
- INAIL 2015: (Coordinatore): Fitolibiorisanamento: utilizzo delle interazioni piante-batteri come Strumento INnovativo per il trattamento biologico di inquinanti volatili per la sicurezza negli impianti produttivi (SINERGIA) (12 mesi, 211.500 €)
- PRIN 2010\_2011 (Responsabile dell'unità di ricerca): Contaminanti emergenti in aria, acqua e suolo: dalla sorgente all'ambiente marino. (36 mesi, 100.800 €)

### Ricerca commissionata

- INSTM 2017 - Studio delle potenzialità di biodegradazione aerobica in siti contaminati da solventi clorurati a catena corta (24 Mesi, 90,000 € + IVA)
- ENI 2016 (Subcontratto con il POLITECNICO DI MILANO) – Responsabile scientifico: MIAMI – Metodi integrati di analisi microbiologica e isotopica (30 mesi, 75.000 € + IVA)
- SISTEMI AMBIENTALI 2014/2015 – Responsabile scientifico: Sviluppo di metodi di rilevamento di indicatori di contaminazione fecale in impianti di trattamento biologico di suoli contaminati (24 mesi, 60.000 € + IVA)
- GIO ECO 2013. Sviluppo di un metodo biologico per la rimozione di mercurio da acque contaminate (12 mesi, 15.000 € + IVA)

## ATTIVITA' DIDATTICA ACCADEMICA

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### Da aa 2017/2018 a ora

- Insegnamento: Microbiologia, CdS Scienze Biologiche, 4 CFU, Università degli Studi di Milano Bicocca
- Insegnamento: Marine Environmental Microbiology, CdS Marine Sciences, 6 CFU, Università degli Studi di Milano Bicocca

### Da aa 2012/2013 a ora

- Insegnamento: Microbiologia applicata, CdS Scienze Ambientali, 6 CFU, Università degli Studi di Milano Bicocca

### Da aa 2009/2010 a 2011/2012

- Insegnamento: Microbiologia ambientale, CdS Scienze Ambientali, 6CFU, Università degli Studi di Milano Bicocca

## ULTERIORI INFORMAZIONI

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### Altri incarichi didattici

- Dal 2011 docente al master di secondo livello "Caratterizzazione e Risanamento di Siti Contaminati" Università Ca' Foscari di Venezia, 4-5 ore per edizione.
- AA 2013/2014 Docente del modulo "Environmental Microbiology" (3 CFU) del corso "Environmental Chemistry and Microbiology"- PhD in Environmental and Infrastructure Engineering, Politecnico di Milano

### Incarichi accademici

- Dal 2008: Membro del Consiglio del dipartimento di Scienze dell'Ambiente e della Terra (DISAT), Univ. Milano - Bicocca
- Dal 2008: Membro del Consiglio del Coordinamento Didattico (CCD) di Scienze Ambientali e della Commissione Orientamento del CCD, Univ. Milano – Bicocca del CCD
- Dal 2009: Membro del collegio dei docenti del Dottorato in Scienze Ambientali, Univ. Milano Bicocca
- Dal 2016: Membro docente della Commissione Paritetica del Dipartimento Scienze dell'Ambiente e della Terra (DISAT), Univ. Milano – Bicocca
- Dal 2016: Membro della Commissione Stage e Lavoro del CCD in Scienze Ambientali, Univ. Milano Bicocca

## Attività editoriali e di valutazione

- Dal 2012: Membro dell'Editorial Board della rivista Journal of Petroleum Engineering, Hindawi Publisher, ISSN: 2314-5005 (Print), ISSN: 2314-5013 (Online)
- Dal 2016: Membro dell' Editorial Board della rivista PLOS ONE, Public Library of Science, ISSN: 1932-6203
- Referee per numerose riviste scientifiche internazionali tra le quali: The ISME Journal, Nature Protocols, Plos One, Journal of Hazardous Materials, Science of the Total Environment, Chemosphere, Applied Microbiology and Biotechnology, Atmospheric Environment, Soil and Sediment Contamination, Environmental Pollution, Biodegradation, Polar Biology, Marine Pollution Bulletin, New Biotechnology, Environmental Science and Pollution Research, Biochemical Engineering Journal, Annals of Microbiology, Applied Biochemistry and Biotechnology, Bioresource Technology
- Valutazione di progetti di ricerca per conto di: Executive Agency for Higher Education, Research, Development and Innovation Funding (Romania), Icelandic Center for Research (Islanda), Austrian Science Fund (FWF) (Austria), Università degli studi di Verona

## Organizzazione e partecipazione a congressi

- Membro del comitato scientifico del congresso internazionale "Environmental Microbiology and Biotechnology in the frame of the Knowledge-Based Bio and Green Economy" EMB2012- Bologna, Aprile 10 12, 2012
- A partire dal 2003 partecipazione a diversi congressi scientifici, convegni nazionali e internazionali, presentando più di 50 contributi tra relazioni orali e poster.

## PUBBLICAZIONI SCIENTIFICHE

## Riviste indicizzate ISI o SCOPUS

1. Ferrario, C., Pittino, F., Tagliaferri, I., Gandolfi, I., Bestetti, G., Azzoni, R.S., Diolaiuti, G., Franzetti, A., Ambrosini, R., Villa, S. Bacteria contribute to pesticide degradation in cryoconite holes in an Alpine glacier (2017) *Environmental Pollution*, 230, pp. 919-926.
2. Innocente, E., Squizzato, S., Visin, F., Facca, C., Rampazzo, G., Bertolini, V., Gandolfi, I., Franzetti, A., Ambrosini, R., Bestetti, G. Influence of seasonality, air mass origin and particulate matter chemical composition on airborne bacterial community structure in the Po Valley, Italy (2017) *Science of the Total Environment*, 593-594, pp. 677-687.
3. Daghigho, M., Aulenta, F., Vaiopoulou, E., Franzetti, A., Arends, J.B.A., Sherry, A., Suárez-Suárez, A., Head, I.M., Bestetti, G., Rabaey, K. Electrobioremediation of oil spills (2017) *Water Research*, 114, pp. 351-370.
4. Ambrosini, R., Musitelli, F., Navarra, F., Tagliaferri, I., Gandolfi, I., Bestetti, G., Mayer, C., Minora, U., Azzoni, R.S., Diolaiuti, G., Smiraglia, C., Franzetti, A. Diversity and Assembling Processes of Bacterial Communities in Cryoconite Holes of a Karakoram Glacier (2017) *Microbial Ecology*, 73 (4), pp. 827-837.
5. Franzetti, A., Navarra, F., Tagliaferri, I., Gandolfi, I., Bestetti, G., Minora, U., Azzoni, R.S., Diolaiuti, G., Smiraglia, C., Ambrosini, R. Temporal variability of bacterial communities in cryoconite on an alpine glacier (2017) *Environmental Microbiology Reports*, 9 (2), pp. 71-78.
6. Franzetti, A., Navarra, F., Tagliaferri, I., Gandolfi, I., Bestetti, G., Minora, U., Azzoni, R.S., Diolaiuti, G., Smiraglia, C., Ambrosini, R. Potential sources of bacteria colonizing the cryoconite of an Alpine glacier (2017) *PLoS ONE*, 12 (3), art. no. e0174786, .
7. Palma, E., Daghigho, M., Franzetti, A., Petrangeli Papini, M., Aulenta, F. The bioelectric well: A novel approach for in situ treatment of hydrocarbon-contaminated groundwater (2017) *Microbial Biotechnology*, . Article in Press.
8. Franzetti, A., Daghigho, M., Parenti, P., Truppi, T., Bestetti, G., Trasatti, S.P., Cristiani, P. Monod kinetics degradation of low concentration residual organics in membraneless microbial fuel cells (2017) *Journal of the Electrochemical Society*, 164 (3), pp. H3091-H3096.
9. Roustazadeh Sheikhyousefi, P., Nasr Esfahany, M., Colombo, A., Franzetti, A., Trasatti, S.P., Cristiani, P. Investigation of different configurations of microbial fuel cells for the treatment of oilfield produced water (2017) *Applied Energy*, 192, pp. 457-465.
10. Gandolfi, I., Canedoli, C., Imperato, V., Tagliaferri, I., Gkorezis, P., Vangronsveld, J., Padoa Schioppa, E., Papacchini, M., Bestetti, G., Franzetti, A. Diversity and hydrocarbon-degrading potential of epiphytic microbial communities on *Platanus x acerifolia* leaves in an urban area (2017) *Environmental Pollution*, 220, pp. 650-658.
11. Franzetti, A., Tagliaferri, I., Gandolfi, I., Bestetti, G., Minora, U., Mayer, C., Azzoni, R.S., Diolaiuti, G., Smiraglia, C., Ambrosini, R. Light-dependent microbial metabolisms drive carbon fluxes on glacier surfaces (2016) *ISME Journal*, 10(12), pp. 2984-2988.
12. Gkorezis P., Daghigho M., Franzetti A., Van Hamme J.D., Sillen W., Vangronsveld J. The Interaction between Plants and Bacteria in the Remediation of Petroleum Hydrocarbons: An Environmental Perspective. (2016) *Frontiers in Microbiology*, 7; 1836
13. Ferrentino, R., Langone, M., Gandolfi, I., Bertolini, V., Franzetti, A., Andreottola, G. Shift in microbial community structure of anaerobic side-stream reactor in response to changes to anaerobic solid retention time and sludge interchange ratio (2016) *Bioresource Technology*, 221, pp. 588-597.
14. Tatangelo, V., Mangili, I., Caracino, P., Anzano, M., Najmi, Z., Bestetti, G., Collina, E., Franzetti, A., Lasagni, M. Biological devulcanization of ground natural rubber by *Gordonia desulfuricans* DSM 44462T strain (2016) *Applied Microbiology and Biotechnology*, 100 (20), pp. 8931-8942.
15. Thureborn, P., Franzetti, A., Lundin, D., Sjöling, S. Reconstructing ecosystem functions of the active

- microbial community of the baltic sea oxygen depleted sediments (2016) PeerJ, 2016 (1), art. no. e1593, .
16. Daglio, M., Vaiopoulou, E., Patil, S.A., Suárez-Suárez, A., Head, I.M., Franzetti, A., Rabaey, K. Anodes stimulate anaerobic toluene degradation via sulfur cycling in marine sediments (2016) Applied and Environmental Microbiology, 82 (1), pp. 297-307.
  17. Gagliano, A.L., Tagliavia, M., D'Alessandro, W., Franzetti, A., Parelo, F., Quatrini, P. So close, so different: geothermal flux shapes divergent soil microbial communities at neighbouring sites (2016) Geobiology, 14 (2), pp. 150-162.
  18. Mangili, I., Lasagni, M., Anzano, M., Collina, E., Tatangelo, V., Franzetti, A., Caracino, P., Isayev, A.I. Mechanical and rheological properties of natural rubber compounds containing devulcanized Ground tire rubber from several methods (2015) Polymer Degradation and Stability, 121, pp. 369-377.
  19. Gandolfi, I., Bertolini, V., Bestetti, G., Ambrosini, R., Innocente, E., Rampazzo, G., Papacchini, M., Franzetti, A. Spatio-temporal variability of airborne bacterial communities and their correlation with particulate matter chemical composition across two urban areas. (2015) Applied Microbiology and Biotechnology, 99 (11), pp. 4867-4877.
  20. Careghini, A., Saponaro, S., Sezenna, E., Daglio, M., Franzetti, A., Gandolfi, I., Bestetti, G. Lab-scale tests and numerical simulations for in situ treatment of polluted groundwater (2015) Journal of Hazardous Materials, 287, pp. 162-170.
  21. Saliu, F., Anzano, M., Franzetti, A. Application of a 1,1,3,3-tetramethylguanidine (TMG)/MeOH-CO<sub>2</sub> in situ derivatization procedure for the gas chromatographic characterization of the fatty acid profile in olive oil (2015) Analytical and Bioanalytical Chemistry, 407 (7), pp. 1801-1806.
  22. Daglio, M., Gandolfi, I., Bestetti, G., Franzetti, A., Guerrini, E., Cristiani, P. Anodic and cathodic microbial communities in single chamber microbial fuel cells (2015) New Biotechnology, 32 (1), pp. 79-84.
  23. Azzoni, R.S., Franzetti, A., Fontaneto, D., Zullini, A., Ambrosini, R. Nematodes and rotifers on two Alpine debris-covered glaciers (2015) Italian Journal of Zoology, 82 (4), pp. 616-623.
  24. Daglio, M., Tatangelo, V., Franzetti, A., Gandolfi, I., Papacchini, M., Careghini, A., Sezenna, E., Saponaro, S., Bestetti, G. Hydrocarbon degrading microbial communities in bench scale aerobic biobarriers for gasoline contaminated groundwater treatment (2015) Chemosphere, 130, pp. 34-39.
  25. Federici, E., Rossi, R., Fidati, L., Paracucchi, R., Scargetta, S., Montalbani, E., Franzetti, A., La Porta, G., Fagotti, A., Simoncelli, F., Cenci, G., Di Rosa, I. Characterization of the skin microbiota in italian stream frogs (*Rana italica*) infected and uninfected by a cutaneous parasitic disease (2015) Microbes and Environments, 30 (3), pp. 262-269.
  26. Gkorezis, P., Bottos, E. M., Van Hamme, J. D., Franzetti, A., Abbamondi, G. R., Balseiro-Romero, M., Weyens, N., Rineau, F. & Vangronsveld, J. (2015) Draft Genome Sequence of *Acinetobacter calcoaceticus* Strain GK1, a Hydrocarbon-Degrading Plant Growth-Promoting Rhizospheric Bacterium. Genome announcements, 3(4).
  27. Gkorezis, P., Rineau, F., Van Hamme, J., Franzetti, A., Daglio, M., Thijs, S., Weyens, N. & Vangronsveld, J. (2015) Draft Genome Sequence of *Acinetobacter oleivorans* PF1, a Diesel-Degrading and Plant-Growth-Promoting Endophytic Strain Isolated from Poplar Trees Growing on a Diesel-Contaminated Plume. Genome announcements, 3(1).
  28. Tatangelo, V., Franzetti, A., Gandolfi, I., Bestetti, G., Ambrosini, R. Effect of preservation method on the assessment of bacterial community structure in soil and water samples (2014) FEMS Microbiology Letters, 356 (1), pp. 32-38.
  29. Cristiani, P., Franzetti, A., Gandolfi, I., Guerrini, E., Bestetti, G. Bacterial DGGE fingerprints of biofilms on electrodes of membraneless microbial fuel cells (2013) International Biodeterioration and Biodegradation, 84, pp. 211-219.
  30. Franzetti, A., Tatangelo, V., Gandolfi, I., Bertolini, V., Bestetti, G., Diolaiuti, G., D'agata, C., Mihalcea, C., Smiraglia, C., Ambrosini, R. Bacterial community structure on two alpine debris-covered glaciers and biogeography of *Polaromonas* phylotypes (2013) ISME Journal, 7 (8), pp. 1483-1492.
  31. Bertolini, V., Gandolfi, I., Ambrosini, R., Bestetti, G., Innocente, E., Rampazzo, G., Franzetti, A. Temporal variability and effect of environmental variables on airborne bacterial communities in an urban area of Northern Italy (2013) Applied Microbiology and Biotechnology, 97 (14), pp. 6561-6570.
  32. Gandolfi, I., Bertolini, V., Ambrosini, R., Bestetti, G., Franzetti, A. Unravelling the bacterial diversity in the atmosphere (2013) Applied Microbiology and Biotechnology, 97 (11), pp. 4727-4736.
  33. Longhin, E., Pezzolato, E., Mantecca, P., Holme, J.A., Franzetti, A., Camatini, M., Gualtieri, M. Season linked responses to fine and quasi-ultrafine Milan PM in cultured cells (2013) Toxicology in Vitro, 27 (2), pp. 551-559.
  34. Rivelli, V., Franzetti, A., Gandolfi, I., Cordoni, S., Bestetti, G. Persistence and degrading activity of free and immobilised allochthonous bacteria during bioremediation of hydrocarbon-contaminated soils (2013) Biodegradation, 24 (1), pp. 1-11.
  35. Daglio, M., Gandolfi, I., Bestetti, G., Franzetti, A., Cristiani, P. Anodic and cathodic microbial communities in single chamber microbial fuel cells (2013) EFC 2013 - Proceedings of the 5th European Fuel Cell Piero Lunghi Conference, pp. 411-412.
  36. Saponaro, S., Careghini, A., Romele, L., Sezenna, E., Franzetti, A., Gandolfi, I., Daglio, M., Bestetti, G. Remediation of groundwater polluted by gasoline-derived compounds with biobarriers (2012) WIT Transactions on Ecology and the Environment, 164, pp. 439-449.
  37. Franzetti, A., Gandolfi, I., Raimondi, C., Bestetti, G., Banat, I.M., Smyth, T.J., Papacchini, M., Cavallo, M., Fracchia, L. Environmental fate, toxicity, characteristics and potential applications of novel bioemulsifiers produced by *Variovorax paradoxus* 7bCT5 (2012) Bioresource Technology, 108, pp. 245-251.
  38. Franzetti, A., Gandolfi, I., Bertolini, V., Raimondi, C., Piscitello, M., Papacchini, M., Bestetti, G. Phylogenetic characterization of bioemulsifier-producing bacteria (2011) International Biodeterioration and Biodegradation, 65 (7), pp. 1095-1099.
  39. Gandolfi, I., Franzetti, A., Bertolini, V., Gaspari, E., Bestetti, G. Antibiotic resistance in bacteria associated with coarse atmospheric particulate matter in an urban area (2011) Journal of Applied Microbiology, 110 (6), pp. 1612-1620.
  40. Gualtieri, M., Franzetti, A., Longhin, E., Mantecca, P., Bestetti, G., Bolzacchini, E., Camatini, M. In vitro effects of microbiologically characterized Milan particulate matter (2011) Procedia Environmental Sciences, 4, pp.

- 192-197.
41. Franzetti, A., Gandolfi, I., Gaspari, E., Ambrosini, R., Bestetti, G. Seasonal variability of bacteria in fine and coarse urban air particulate matter (2011) *Applied Microbiology and Biotechnology*, 90 (2), pp. 745-753.
  42. Franzetti, A., Tamburini, E., Banat, I.M. Applications of biological surface active compounds in remediation technologies (2010) *Advances in Experimental Medicine and Biology*, 672, pp. 121-134.
  43. Franzetti, A., Gandolfi, I., Bestetti, G., Smyth, T.J.P., Banat, I.M. Production and applications of trehalose lipid biosurfactants (2010) *European Journal of Lipid Science and Technology*, 112 (6), pp. 617-627.
  44. Banat, I.M., Franzetti, A., Gandolfi, I., Bestetti, G., Martinotti, M.G., Fracchia, L., Smyth, T.J., Marchant, R. Microbial biosurfactants production, applications and future potential (2010) *Applied Microbiology and Biotechnology*, 87 (2), pp. 427-444.
  45. Franzetti, A., Gandolfi, I., Piscitello, M., Porto, G., Biasiolo, A., Oltolini, F., Marangoni, T., Bestetti, G. Biodegradation of N,N diethylaniline in a contaminated aquifer: Laboratory- and field-scale evidences (2010) *Biodegradation*, 21 (2), pp. 193-201.
  46. Gandolfi, I., Sicolo, M., Franzetti, A., Fontanarosa, E., Santagostino, A., Bestetti, G. Influence of compost amendment on microbial community and ecotoxicity of hydrocarbon-contaminated soils (2010) *Bioresource Technology*, 101 (2), pp. 568-575.
  47. Franzetti, A., Caredda, P., La Colla, P., Pintus, M., Tamburini, E., Papacchini, M., Bestetti, G. Cultural factors affecting biosurfactant production by *Gordonia* sp. BS29 (2009) *International Biodeterioration and Biodegradation*, 63 (7), pp. 943-947.
  48. Ruggeri, C., Franzetti, A., Bestetti, G., Caredda, P., La Colla, P., Pintus, M., Sergi, S., Tamburini, E. Isolation and characterisation of surface active compound-producing bacteria from hydrocarbon-contaminated environments (2009) *International Biodeterioration and Biodegradation*, 63 (7), pp. 936-942.
  49. Franzetti, A., Caredda, P., Ruggeri, C., Colla, P.L., Tamburini, E., Papacchini, M., Bestetti, G. Potential applications of surface active compounds by *Gordonia* sp. strain BS29 in soil remediation technologies (2009) *Chemosphere*, 75 (6), pp. 801-807.
  50. Cristiani, P., Franzetti, A., Bestetti, G. Monitoring of electro-active biofilm in soil (2008) *Electrochimica Acta*, 54 (1), pp. 41-46.
  51. Di Gennaro, P., Franzetti, A., Bestetti, G., Lasagni, M., Pitea, D., Collina, E. Slurry phase bioremediation of PAHs in industrial landfill samples at laboratory scale (2008) *Waste Management*, 28 (8), pp. 1338-1345.
  52. Franzetti, A., Di Gennaro, P., Bestetti, G., Lasagni, M., Pitea, D., Collina, E. Selection of surfactants for enhancing diesel hydrocarbons-contaminated media bioremediation (2008) *Journal of Hazardous Materials*, 152 (3), pp. 1309-1316.
  53. Marchant, R., Franzetti, A., Pavlostathis, S.G., Tas, D.O., Erdbrugger, I., Unyayar, A., Mazmanci, M.A., Banat, I.M. Thermophilic bacteria in cool temperate soils: Are they metabolically active or continually added by global atmospheric transport? (2008) *Applied Microbiology and Biotechnology*, 78 (5), pp. 841-852.
  54. Franzetti, A., Bestetti, G., Caredda, P., La Colla, P., Tamburini, E. Surface-active compounds and their role in the access to hydrocarbons in *Gordonia* strains (2008) *FEMS Microbiology Ecology*, 63 (2), pp. 238-248.
  55. Caredda, P., La Colla, P., Pintus, M., Ruggeri, C., Viola, A., Tamburini, E., Suardi, E., Franzetti, A., Bestetti, G. Laboratory tests and bioremediation of a site chronically contaminated by diesel (2007) *Battelle Press - 9th International In Situ and On-Site Bioremediation Symposium 2007*, 1, pp. 198-206.
  56. Collina, E., Lasagni, M., Pitea, D., Franzetti, A., Di Gennaro, P., Bestetti, G. Bioremediation of diesel fuel contaminated soil: effect of non ionic surfactants and selected bacteria addition (2007) *Annali di Chimica*, 97 (9), pp. 799-805.
  57. Franzetti, A., Di Gennaro, P., Bevilacqua, A., Papacchini, M., Bestetti, G. Environmental features of two commercial surfactants widely used in soil remediation (2006) *Chemosphere*, 62 (9), pp. 1474-1480.
  58. Collina, E., Bestetti, G., Di Gennaro, P., Franzetti, A., Gugliersi, F., Lasagni, M., Pitea, D. Naphthalene biodegradation kinetics in an aerobic slurry-phase bioreactor (2005) *Environment International*, 31 (2), pp. 167-171.
  59. Di Gennaro, P., Collina, E., Franzetti, A., Lasagni, M., Luridiana, A., Pitea, D., Bestetti, G. Bioremediation of diethylhexyl phthalate contaminated soil: A feasibility study in slurry- and solid-phase reactors (2005) *Environmental Science and Technology*, 39 (1), pp. 325-330.
  60. Collina, E., Bestetti, G., Di Gennaro, P., Franzetti, A., Gugliersi, F., Lasagni, M., Pitea, D. Kinetic study of naphthalene biodegradation in aerobic slurry phase reactor (2003) *Advances in Ecological Sciences*, 18, pp. 443-452.
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- Articoli su riviste non indicizzate e capitoli di libri
61. Fracchia, L., Ceresa, C., Franzetti, A., Cavallo, M., Gandolfi, I., Van Hamme, J., Gkorezis, P., Marchant, R. & Banat, I. M. (2014) Industrial applications of biosurfactants. *Biosurfactants: Production and Utilization—Processes, Technologies, and Economics*, 159, 245.
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**Dati personali** Autorizzo il trattamento dei miei dati personali ai sensi del Decreto Legislativo 30 giugno 2003, n. 196 "Codice in materia di protezione dei dati personali".