

PERSONAL INFORMATION

Milva Pepi



✉ milva.pepi@szn.it

Date of birth 31/03/1963

Place of birth Montepulciano, Siena

Nationality Italian

POSITION

Contract Researcher

WORK EXPERIENCE

January 2015 - today

Research grant

Stazione Zoologica Anton Dohrn, Napoli, Italy www.szn.it

▪ Research, marine microbiology

Business or sector Bacterial adaptation to polyunsaturated aldehydes produced by diatoms and to contaminants detected in coastal areas

January 2014 – December 2014

Research grant

Stazione Zoologica Anton Dohrn, Napoli, Italy www.szn.it

▪ Research, marine microbiology

Business or sector Characterization of marine bacteria isolated from diatom bloom and of metal-resistant bacterial strains isolated from coastal sediments and water column

January 2007 – August 2013

Researcher

Polo Universitario Grossetano, Grosseto, Italy

▪ Research, microbiology and microbiological analyses

Business or sector Studies on bacteria isolated from polluted sediments

October 2005 – December 2006

Research contract

Polo Universitario Grossetano, Grosseto, Italy

▪ Research, environmental microbiology

Business or sector Studies of isolated metal resistant bacteria and bioremediation

February 2004 – August 2004

Fellowship

University of Siena, Italy

▪ Research, environmental microbiology

Business or sector Effect of climatic changes in biogeochemical cycles in Antarctic ecosystems

March 2003 – December 2003

Research contract

University of Siena, Italy

▪ Research, environmental microbiology

Business or sector Isolation and characterization of psychotropic bacteria isolated from Antarctic soil and water samples

May 2000 – September 2002

Research contract

Interuniversity consortium Chemistry for the Environment - University of Venice, Italy

▪ Research, environmental microbiology

Business or sector Studies of metal-resistant bacteria and bioremediation

April 1998 – April 2000

Postdoctoral fellowship

University of Siena, Italy

▪ Research, environmental microbiology

Business or sector Isolation and characterization of metal – resistant and hydrocarbons – degrading bacteria

- December 1999 – January 2000 **Participant Antarctic expedition**
University of Siena, Italy
▪ Research, environmental microbiology
Business or sector Isolation and characterization of psychotropic hydrocarbons-degrading bacteria
- October 1995 **Guest PhD - Student**
Flemish Institute for Technological Research – VITO – Environmental Technology, Mol, Belgium
▪ Research, environmental microbiology
Business or sector Bioavailable arsenic detection by using bacterial biosensors
- July 1994 – December 1994 **ERASMUS fellowship**
Wageningen Agriculture University, The Netherlands
▪ Research, biocatalysis by using bacteria degrading nitro-aromatic compounds
Business or sector Biodegradation of 3-nitrophenol by *Pseudomonas putida* B2
- October 1992 – September 1993 **Research contract**
University of Siena, Italy
▪ Research, environmental microbiology
Business or sector Microbial desulfurization of fossil fuels

EDUCATION AND TRAINING

- June 1997 **PhD**
University of Siena, Italy
Thesis: Study of mechanisms of microbial degradation of natural and industrial organic compounds.
Tutors Prof. Aristeo Renzoni, Prof. Franco Baldi
- November 1989 **Degree Biological Sciences**
University of Siena, Italy
Thesis: Study of chromium-resistance in a yeast isolated from tannery wastes. Full marks, 110/110.
Tutors Prof. Silvano Focardi, Prof. Franco Baldi
- Attended courses
- November 2001 “Identification of Microorganisms by Fluorescent in Situ Hybridization (FISH)”
CNR-IRSA,
Perugia, Italy
- June 1998 – July 1998 “Microbial Diversity Course”
Marine Biological Laboratory,
Woods Hole, MA - USA
- May 1992 “Microbial biotechnology for the environment: biodegradation, biotransformation, biosensors, bio-remediation, risk assessment”
School of Genetics
Cortona, Italy

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	C2	C1	C1	C1
French	B2	C2	B2	B2	B2

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
Common European Framework of Reference for Languages

Organisational / managerial skills

Management and sense of organization
▪ Good experience in project

Computer skills

▪ Good command of Microsoft Office™ tools (Word™, Excel™ and PowerPoint™)

ADDITIONAL INFORMATION

- M. Pepi, S. Focardi, A. Lobianco, D.L. Angelini, F. Borghini, S.E. Focardi.** 2013. Oleic acid degradation and biosurfactant production by a bacterial strain *Pseudomonas aeruginosa* DG2a isolated from aquaculture wastewaters. **Water Air and Soil Pollution** **224**: 1772.
- M. Pepi, S. Cappelli, N. Hachicho, G. Perra, M. Renzi, A. Tarabelli, R. Altieri, A. Esposito, S.E. Focardi, and H.J. Heipieper.** 2013. *Klebsiella* sp. strain C2A isolated from olive oil mill waste is able to tolerate and degrade tannic acid in very high concentrations. **FEMS Microbiology Letters** **343**:105-112.
- S. Focardi, M. Pepi, G. Landi, S. Gasperini, M. Ruta, P. Di Biasio and S.E. Focardi.** 2012. Hexavalent chromium reduction by whole cells and cell free extract of the moderate halophilic bacterial strain *Halomonas aquamarina* TA-04. **Int. Biodeter. Biodegrad.** **66**: 63-70.
- E. Federici, M. Pepi, A. Esposito, S. Scargetta, L. Fidati, S. Gasperini, G. Cenci and R. Altieri.** 2011. Two-phase olive mill waste composting: community dynamics and functional role of the resident microbiota. **Bioresour. Technol.** **102**: 10965-10972.
- M. Pepi, G. Protano, M. Ruta, V. Nicolardi, E. Bernardini, S.E. Focardi and C. Gaggi.** 2011. Arsenic-resistant *Pseudomonas* spp. and *Bacillus* sp. bacterial strains reducing As(V) to As(III), isolated from Alps soils, Italy. **Folia Microbiologica** **56**: 29-35.
- M. Ruta, M. Pepi, C. Gaggi, E. Bernardini, S. Focardi, E. Magaldi, S. Gasperini, M. Volterrani, A. Zanini, and S.E. Focardi.** 2011. As(V)-reduction to As(III) by arsenic-resistant *Bacillus* spp. bacterial strains isolated from low-contaminated sediments of the Oliveri-Tindari Lagoon, Italy. **Chemistry and Ecology** **27**: 207-219.
- F. Parati, L. Montesi, R. Altieri, A. Esposito, A. Lobianco, M. Pepi, T. Nair.** 2011. Validation of thermal composting process using olive mill solid waste for industrial scale cultivation of *Agaricus bisporus*. **Int. Biodet. Biodegr.** **65**:160-163
- M. Pepi, C. Gaggi, E. Bernardini, S. Focardi, A. Lobianco, M. Ruta, V. Nicolardi, M. Volterrani, S. Gasperini, G. Trinchera, P. Renzi, M. Gabellini, and S.E. Focardi.** 2011. Mercury-resistant bacterial strains *Pseudomonas* and *Psychrobacter* spp. isolated from sediments of Orbetello Lagoon (Italy) and their possible use in bioremediation processes. **Int. Biodeter. Biodegr.** **65**:85-91
- S. Focardi, M. Pepi, M. Ruta, M. Marvasi, E. Bernardini, S. Gasperini, and S.E. Focardi.** 2010. Arsenic precipitation by an anaerobic arsenic-respiring bacterial strain isolated from polluted sediments of the Orbetello Lagoon, Italy. **Lett. Appl. Microbiol.** **51**:578-585.
- M. Renzi, G. Perra, A. Lobianco, E. Mari, C. Guerranti, A. Specchiulli, M. Pepi, and S.E. Focardi.** 2010 Environmental quality assessment of the marine reserves of the Tuscan Archipelago, Central Tyrrhenian (Italy). **Chemistry and Ecology** **26**:299-317.
- M. Pepi, L.R. Lampariello, R. Altieri, A. Esposito, G. Perra, M. Renzi, A. Lobianco, A. Feola, S. Gasperini, and S.E. Focardi.** 2010 Tannic acid degradation by bacterial strains *Serratia* spp. and *Pantoea* sp. isolated from olive mill waste mixtures. **Int. Biodeterior. Biodegrad.** **64**:73-80.
- M. Pepi, A. Lobianco, M. Renzi, G. Perra, M. Marvasi, E. Bernardini, S. Gasperini, M. Volterrani, E. Franchi, H.J. Heipieper, and S.E. Focardi.** 2009 Two naphthalene degrading bacteria belonging to the genera *Paenibacillus* and *Pseudomonas* isolated from a highly polluted lagoon perform different sensitivities to the organic and heavy metal contaminants. **Extremophiles** **13**:839-848.
- R. Altieri, A. Esposito, F. Parati, A. Lobianco, M. Pepi.** 2009 Performance of olive mill solid waste as a constituent of the substrate in commercial cultivation of *Agaricus bisporus*. **Int. Biodeterior. Biodegrad.** **63**:993-997.
- M. Pepi, R. Altieri, A. Esposito, A. Lobianco, F. Borghini, A. Stendardi, S. Gasperini, and S.E. Focardi.** 2009 Effects of olive mill by-products amendment on soils revealed by nitrifying bacteria. **Chemistry and Ecology** **25**(4):293-303.
- M. Ruta, M. Pepi, E. Franchi, M. Renzi, M. Volterrani, G. Perra, C. Guerranti, A. Zanini, and S.E. Focardi.** 2009. Contamination levels and state assessment in the lakes of the Oliveri-Tindari Lagoon (North-Eastern Sicily, Italy). **Chemistry and Ecology** **25**:27-38.
- M. Pepi, H.J. Heipieper, J. Fischer, M. Ruta, M. Volterrani, and S.E. Focardi.** 2008. Membrane fatty acids adaptive profile in the simultaneous presence of arsenic and toluene in *Bacillus* sp. ORAs2 and *Pseudomonas* sp. ORAs5 strains. **Extremophiles** **12**:343-349.
- M. Pepi, M. Volterrani, M. Renzi, M. Marvasi, S. Gasperini, E. Franchi, and S.E. Focardi.** 2007. Arsenic-resistant bacteria isolated from contaminated sediments of the Orbetello Lagoon, Italy, and their characterization. **J. Appl. Microbiol.** **103**:2299-2308.

- R. Marcon, G. Bestetti, F. Frati, M. Pepi, and F. Baldi.** 2007. Naphthalene and biphenyl oxidation by two marine *Pseudomonas* strains isolated from Venice Lagoon sediment. **Int. Biodeterior. Biodegrad.** **59**:25-31.
- M. Pepi, D. Reniero, F. Baldi, and P. Barbieri.** 2006. A comparison of *mer::lux* whole cell biosensors and moss, a bioindicator for estimating mercury pollution. **Wat. Air Soil Pollut.** **173**:164-175.
- M. Pepi, C. Agnorelli, and R. Bargagli.** 2005. Iron demand by thermophilic and mesophilic bacteria isolated from an antarctic geothermal soil. **BioMetals** **18**:529-536.
- M. Pepi, A. Cesàro, G. Liut, and F. Baldi.** 2005. An antarctic psychrotrophic bacterium *Halomonas* sp. ANT-3b, growing on *n*-hexadecane, produces a new emulsifying glycolipid. **FEMS Microbiol. Ecol.** **53**:157-166.
- R. Bargagli, M.L. Skotnicki, L. Marri, M. Pepi, A. Mackenzie, and C. Agnorelli.** 2004. New record of moss and thermophilic bacteria species in geothermal soils on the NW slope of Mt. Melbourne (northern Victoria Land, Antarctica). **Polar Biology** **27**:423-431.
- M. Pepi, A. Minacci, F. Di Cello, F. Baldi, and R. Fani.** 2003. Long-term analysis of diesel fuel consumption in a co-culture of *Acinetobacter venetianus*, *Pseudomonas putida* and *Alcaligenes faecalis*. **Anton. Leeuw. Int. J. G.** **83**:3-9.
- F. Baldi, M. Pepi, M. A. Capone, C. della Giovampaola, C. Milanesi, R. Fani, and R. Focarelli.** 2003. Envelope glycosylation determined by lectins in microscopy sections of *Acinetobacter venetianus* induced by diesel fuel. **Res. Microbiol.** **154**:417-424.
- F. Baldi, M. Pepi, and F. Fava.** 2003. Growth of *Rhodospiridium toruloides* strain DBVPG 6662 on dibenzothiophene crystals and orimulsion. **Appl. Environ. Microbiol.** **69**:4689-4696.
- I. Ciglencečki, M. Plavšić, V. Vojvodić, B. Čosović, M. Pepi, and F. Baldi.** 2003. Mucopolysaccharide transformation by sulfide in diatom cultures and natural mucilage. **Mar. Ecol.-Progr. Ser.** **263**:17-27.
- F. Baldi, A. Minacci, M. Pepi, and A. Scozzafava.** 2001. Gel sequestration of heavy metals by *Klebsiella oxytoca* isolated from iron mat. **FEMS Microbiol. Ecol.** **36**:169-174.
- F. Podda, P. Zuddas, A. Minacci, M. Pepi, and F. Baldi.** 2000. Heavy metal co-precipitation with hydrozincite $[Zn_5(CO_3)_2(OH)_6]$ caused by photosynthetic microorganisms from mine waters. **Appl. Environ. Microbiol.** **66**:5092-5098.
- M. Vaneechoutte, I. Tjernberg, F. Baldi, M. Pepi, R. Fani, E. R. Sullivan, and L. Dijkshoorn.** 1999. Oil-degrading *Acinetobacter* strain RAG-1 and strains described as '*Acinetobacter venetianus* sp. nov.' belong to the same DNA-group. **Res. Microbiol.** **150**:69-73.
- F. Baldi, N. Ivosevic, A. Minacci, M. Pepi, R. Fani, V. Svetlicic, and V. Zutic.** 1999. Adhesion of *Acinetobacter venetianus* to diesel fuel droplets studied with in situ electrochemical and molecular probes. **Appl. Environ. Microbiol.** **65**:2041-2048.
- E. Capolino, M. Tredici, M. Pepi, and F. Baldi.** 1997. Tolerance to mercury chloride in *Scenedesmus* strains. **BioMetals** **10**:85-94.
- L. Bisconti, M. Pepi, S. Mangani, and F. Baldi.** 1997. Reduction of vanadate to vanadyl by a strain of *Saccharomyces cerevisiae*. **BioMetals** **10**:239-246.
- F. Baldi, M. Pepi, R. Fani, F. Di Cello, L. Da Ros, and V. U. Fossato.** 1997. Complementary degradation of fuel oil in superficial waters and in axenic cultures of aerobic Gram-negative bacteria isolated from Venice Lagoon. **Croat. Chem. Acta** **70**:333-346.
- F. Di Cello, M. Pepi, F. Baldi, and R. Fani.** 1997. Molecular characterization of an *n*-alkane-degrading bacterial community and identification of a new species, *Acinetobacter venetianus*. **Res. Microbiol.** **148**:237-249.
- R. Meulenberg, M. Pepi, and J. A. M. de Bont.** 1996. Degradation of 3-nitrophenol by *Pseudomonas putida* B2 occurs via 1,2,4-benzenetriol. **Biodegradation** **7**:303-311.
- F. Baldi, M. Pepi, D. Burrini, G. Kniewald, D. Scali, and E. Lanciotti.** 1996. Dissolution of barium from barite in sewage sludges and cultures of *Desulfovibrio desulfuricans*. **Appl. Environ. Microbiol.** **62**:2398-2404.
- F. Baldi, A. M. Bianco, and M. Pepi.** 1995. Mercury, arsenic and boron-resistant bacteria isolated from phyllosphere as positive bioindicators for airborne pollution near geothermal plants. **Sci. Total Environ.** **164**:99-107.
- M. Pepi, and F. Baldi.** 1995. Chromate tolerance in strains of *Rhodospiridium toruloides* modulated

by thiosulphate and sulphur amino acids. **BioMetals** **8**:99-104.

F. Baldi, M. Pepi, and M. Filippelli. 1993. Methylmercury resistance in *Desulfovibrio desulfuricans* strains in relation to methylmercury degradation. **Appl. Environ. Microbiol.** **59**:2479-2485.

M. Pepi, and F. Baldi. 1992. Modulation of chromium(VI) toxicity by organic and inorganic sulfur species in yeasts from industrial wastes. **BioMetals** **5**:179-185.

Book chapters

S. Focardi, M. Pepi, and S.E. Focardi. 2013. Microbial Reduction of Hexavalent Chromium as a Mechanism of Detoxification and Possible Bioremediation Applications. Agricultural and Biological Sciences "Biodegradation - Life of Science", book edited by Rolando Chamy and Francisca Rosenkranz, ISBN 978-953-51-1154-2, Published: June 14, 2013 under CC BY 3.0 license.

H.J. Heipieper, S. Cornelissen, M. Pepi. 2010. Surface properties and cellular energetics of bacteria in response to the presence of hydrocarbons. In: Timmis K.N. (Ed.) Handbook of Hydrocarbon and Lipid Microbiology. Springer, Berlin. Vol. 2, Part 9, pp. 1615-1624.

R. Altieri, M. Pepi, A. Esposito, and G. Fontanazza. 2005. Chemical and microbiological characterization of olive oil mills waste waters based substrata produced by olive mill by-products processor (O.MI.BY.P.) technology and their grounds amendment. pp. 91-101. *In* Integrated soil and water management for orchard development. Role and importance. FAO Land and Water Bulletin, n. 10: Benitez, J. Ed., Roma.

Proceedings of Congresses

Pepi, S. Focardi, A. Tarabelli, M. Volterrani and S. E. Focardi. 2013. Bacterial strains resistant to inorganic and organic forms of mercury isolated from polluted sediments of the Orbetello Lagoon, Italy, and their possible use in bioremediation processes. **E3S Web of Conferences** DOI: 10.1051/C/_Owned by the authors, published by EDP Sciences, 2013, /20130131002 1 e3sconf 31002 (2013).

M. Ruta, S. Focardi, P. Di Biasio, R. Greco, F. Lico, T. Vicchio, M.T. Garcea, P. Gradia, L. Russo, C. Cannizzaro, M. Pepi, and N. Marchettini. 2010. Cr(VI)-reduction by an halophilic bacterial strain *Halomonas* sp. VO-04 isolated from contaminated sediments and its use in bioremediation processes. Abstract. **J. Biotechnol.** doi 10.1016/j.jbiotec.2010.09.104.

E. Bernardini, S. Focardi, V. Niccolucci, S. Gasperini, M. Ruta, M. Pepi, S.E. Focardi. 2010 Arsenite [As(III)] oxidation to arsenate [As(V)] in heterotrophic bacterial strains isolated from the dump site of Scarlino, Tuscany, Italy. Abstract. **J. Biotechnol.** doi 10.1016/j.jbiotec.2010.09.078.

A. Lobianco, D.L. Angelini, F. Borghini, S. Focardi, M. Pepi and S.E. Focardi. 2010 Biosurfactant production by heterotrophic bacteria isolated from aquaculture plant wastes and their growth in the presence of oleic acid as sole carbon and energy source. Abstract. **J. Biotechnol.** doi 10.1016/j.jbiotec.2010.09.079.

F. Baldi, R. Marcon, M. Pepi, and F. Zecchini. 2003. Preliminary results on degradation of organic compounds by microbial communities in Venice Lagoon. Scientific Research and Safeguarding of Venice. *In* Co.Ri.La. Research. Ist. Ven. Sci. (ed.) pp.365-371.

F. Baldi, F. Zecchini, e M. Pepi. 2002. Studio di un nuovo processo chimico-microbiologico per sanare suoli inquinati da metalli pesanti. *In* Pubbl. Progetto Sisifo. P. Canepa (ed.). pp.15-22.

M. Pepi, L. Bisconti, and F. Baldi. 1999. Preliminary studies of aerobic and anaerobic degradation of various polysaccharides with pure and mixed bacterial cultures isolated from the Gulf of Trieste. *In* T. S. Hopkins, A. Artegiani, G. Cauwet, D. Degobbis, and A. Malej (eds.) Ecosystems research report, The Adriatic Sea, EU/Environment, Brussels, **32**:319-327.

M. Pepi, R. Meulenberg, F. Baldi, e J. A. M. de Bont. 1996. Degradazione di 3-nitrofenolo e produzione di 1,2,4-benzenetriolo in colture di *Pseudomonas putida* B2. *In* A. Virzo De Santo, A. Alfani, G. C. Carrada, e F. A. Rutigliano (eds.), S.It.E. Atti, **17**:765-768.

R. Fani, A. Grifoni, L. Da Ros, V. U. Fossato, A. Guidoni, M. Pepi, e F. Baldi. 1995. Caratterizzazione fisiologica e molecolare di una popolazione batterica degradante il gasolio isolata dalla Laguna Veneta. *In* O. Ravera e A. Anelli (eds.), Edizioni Zara, S.It.E. Atti, **16**:269-271.

F. Baldi, e M. Pepi. 1993. Resistenza microbica al Cr(VI) in relazione ad alcune specie chimiche di zolfo. *In* Ciclo Biogeochimico dei metalli nel suolo. Ann. Fac. Agr. Univ. Sassari **35**:419-426.

F. Baldi, and M. Pepi. 1992. Microbial response to chromium toxicity. *In* G.P. Gabrielides (ed.), The Biological Effects of Pollutants in Marine Organisms. MAP Technical Report series UNEP Athens, **69**:91-112.

F. Baldi, and M. Pepi. 1991. Study of metal and non-metal resistances in chromate resistant yeasts

isolated from industrial wastes, p. 255-258. *In* H. Verachter and W. Verstraete (eds.), Proc. Int. Symp. on Environmental Biotechnology. Royal Flemish Society of Engineers.

International/national congresses

selected for oral presentations

M. Pepi, A. Feola, S. Scargetta, S. Focardi, G. Cenci and E. Federici. 2012. Structure and function of bacterial and fungal communities in olive mill waste composts produced with different technological approaches. 1st International Workshop of the International Association of Mediterranean Agro-Industrial Wastes (IAMAW). 5 to 8 June, Santarém, Portugal.

M. Pepi, S. Focardi, M. Ruta, and S.E. Focardi. 2011. An arsenic-respiring bacterium isolated from pollutes sites as an example of bacterial adaptation to extreme conditions. Origins 2011 International Conference July 3rd–8th, 2011, Montpellier, France.

M. Pepi, E. Bernardini, S. Gasperini, A. Lobianco, M. Ruta, and S.E Focardi. 2010. Bacterial degradation of natural compounds and hydrophobic substrata: strategies of adaptation and possible insights for new technologies. Second International Conference on Natural Polymers and Biomaterials (ICNP – 2010). September 24-26 2010, Kottayam, Kerala, India.

M. Pepi and S.E. Focardi. 2010. Arsenic bioremediation by using As(III)-oxidizing and As(V)-respiring bacteria, with arsenic sulphide precipitation. 2010. BIT's 3rd Annual Congress of Industrial Biotechnology, July 25-27, Dalian, China.

M. Pepi, E. Federici, A. Esposito, E. Magaldi, S. Scargetta, S.E Focardi, G. Cenci, and R. Altieri. 2010 Biodiversity and tannase activity of mesophilic and thermophilic bacteria isolated during composting of olive mill waste. Vth International Bioengineering Congress, 16-19 June, Izmir, Turkey.

M. Pepi, M. Ruta, E. Bernardini, S. Gasperini and S.E. Focardi. 2009. As(V) reduction to As(III) and related *ars* genes in bacterial strains isolated from arsenic-polluted sediments of the Orbetello Lagoon, Italy. p. 65 *In* 11th Symposium on Aquatic Microbial Ecology. August 30 – September 04, Piran, Slovenia.

M. Pepi, R. Altieri, A. Esposito, A. Stendardi, F. Borghini, S. Gasperini, E. Franchi and S.E. Focardi. 2006. Isolation of nitrifying bacteria imaged by “fish” analyses and organic carbon modification in soils amended with olive mills wastes. p. 94 *In* 25th Congresso della Società Italiana di Microbiologia e Biotecnologie Microbiche, Orvieto 8-10 Giugno.

F. Baldi, e M. Pepi. 2001. Trattamenti avanzati di valorizzazione e detossificazione delle matrici stabilizzate. Workshop Tecnologie avanzate per il trattamento delle acque reflue e la riduzione dei fanghi, Venezia, 26 luglio.

F. Di Cello, F. Baldi, A. Minacci, M. Pepi, and R. Fani. 1999. Long-term analysis of *Acinetobacter venetianus*, *Pseudomonas putida* and *Alcaligenes faecalis* co-cultures growing on diesel-fuel, p. 76. *In* 6th Symposium on Bacterial Genetics and Ecology. Florence, Italy, June 20-24.

M. Pepi, L. Bisconti, and F. Baldi. 1996. Aerobic and anaerobic degradation of various polysaccharides with mixed and axenic bacterial cultures isolated from Trieste Gulf. International Congress on Physical and Biogeochemical Processes of the Adriatic Sea, Portonovo di Ancona 23-27 April.

M. Pepi, e F. Baldi. 1991. Tolleranza del Cr(VI) in lieviti in relazione al trasporto dei solfati, p. 251-252. *In* Atti X Convegno Scientifico SIMGBM. Viterbo, 9-12 ottobre.

Projects

ENPI S&T MED “Coastal monitoring and evaluation of water quality and bacteriological methods for the purpose of sustainable tourism and environmental protection” from January 2015. Supervisor Doctor Raffaella Casotti

‘Ischia Gas’ “Effect of microbial community on the water turbidity”. January-December 2014. Supervisor Doctor Raffaella Casotti

Fondazione Monte dei Paschi di Siena: “Biogeochemical cycles of environmental contaminants in the Lagoon of Orbetello , related biomarkers and risk indices” January - December 2009. Supervisor Professor Silvano Focardi

EU LIFE05 ENV/IT/000845 TIRSAV PLUS: “Innovative Technologies for Recycling of Pomace and Vegetation Water ‘Plus’, research of microbiology” January 2007- December 2009. Supervisor Professor Silvano Focardi

University of Siena: “Environmental microbial bioremediation of sites contaminated with metals and non-metals and organic pollutants” 2008-2009. Supervisor Professor Silvano Focardi

ISPRA-Università di Siena: “Bioremediation of mercury (Hg) in the sediments of the lagoon of Orbetello, through the use of Hg -resistant native bacteria” 2008-2009. Supervisor Professor Silvano Focardi

ICRAM-Università di Siena: “Plan of investigations aimed at the reclamation and environmental restoration of the Lagoon of Orbetello”, August 2007-December 2007. Supervisor Professor Silvano Focardi

Fondazione Monte dei Paschi di Siena: “Detection of integrated indexes for monitoring bioremediation from organic contaminants and metals in the Lagoon of Orbetello”, December 2006-November 2007. Supervisor Professor Silvano Focardi

ARSIA, Toscana Region: “Different solutions for spreading in the field of by-products of the mills”, January 2005-December 2007.

Fondazione Monte dei Paschi di Siena: “Bioremediation of polycyclic aromatic hydrocarbons (PAHs) and arsenic (As) in the Lagoon of Orbetello (GR) through the use of indigenous microorganisms”, November 2005-October 2006. Supervisor Professor Silvano Focardi

University of Siena: “Environmental characterization of the former Sitoco perimeter at sea”, March-August 2005. Supervisor Professor Silvano Focardi

Institutional charges

April 2008 – August 2013: Vice-director of the Laboratory Ecolab, Orbetello, Grosseto, Italy, Polo Universitario Grossetano, Director Prof. Silvano Focardi

Full member in the Commission for the Examination, by the Ministry of Education, to enable the profession of Biologist (junior and senior), University of Siena, sessions of years 2004 and 2006

Member of the Examining Committee for the graduation of PhD in " Polar Sciences " (XX and XXII cycle), University of Siena, Italy, Rector's Decree No. 236/2009-2010

Memberships

September 1996 – today, member of “Società Italiana di Ecologia” (S.It.E.)

January 1997 – today, member of the “ Società Italiana di Microbiologia Generale e Biotecnologie Microbiche” (SIMGBM)

January 2002 – January 2007, member of the American Society of Microbiology

September 2007 – today, member of the “Società di Microbiologia” S.It.E-Micro

August 2008 – today, member of the International Association of Mediterranean Agro-Industrial Wastes (IAMAW)

Reviewer, journals

Journal of General Microbiology; Ecotoxicology and Environmental Safety; Journal of Applied Microbiology; Letters in Applied Microbiology; BMC Microbiology; World Journal of Microbiology and Biotechnology; Microbial Ecology; Water Research; International Journal of Phytoremediation; Journal of Hazardous Materials; Folia Microbiologica; World Journal of Microbiology and Biotechnology; Journal of Agricultural and Food Chemistry; Pakistan Journal of Zoology; African Journal of Biotechnology ; Astrobiology; Applied Microbiology and Biotechnology; International Biodeterioration and Biodegradation; Agriculture; Annals of Microbiology ; Biodegradation; Current Microbiology; African Journal of Environmental Science and Technology; FEMS Microbiology Ecology; Journal of Agricultural Science and Technology; Science of the Total Environment; Chemosphere; BBA Proteins and Proteomics; PLOS ONE

- Editorial boards** Included in Editorial Board of Open Acces journal: “Journal of Waste Management” Hindawi from October 18th 2012
- Translations** Microbiologia Vol. 1 Fisiologia, Genetica, Virologia, Evoluzione e Diversità. Authors: J.J. Perry, T.L. Staley; Translation: E. Lanciotti and M. Pepi, Editore: Zanichelli, Codice: ISBN: 8808075834
- Microbiologia Vol. 2 Ecologia, Microbiologia medica, Microbiologia applicata. Authors: J.J. Perry, T.L. Staley; Translation: E. Lanciotti and M. Pepi, Editore: Zanichelli, Codice: ISBN: 8808122166
- Deposited sequences** 104 sequences of the bacterial gene rDNA 16S, www.ncbi.com
- Didactic activity
University Teaching**
- Academic years **2005-09**: Contract professor *Bioremediation*, University of Siena, Italy
- Academic years **2005-09**: Contract professor Food *Microbiology*, University of Siena, Italy
- Academic years **2003-09**: Contract professor *Biosensors in environmental monitoring*, University of Siena, Italy
- Academic years **2002-05**: Contract professor *Microbial Ecology*, University of Siena, Italy
- Academic years **2001-05**: Contract professor *Laboratory of Environmental Microbiology*, University of Siena, Italy
- Academic year **2000-2001**: Contract professor *Study of microbial biodiversity with molecular techniques in lagoon, marine and antarctic areas*, University of Venice, Italy
- Academic years **1999 – 2009**: Contract professor of *Environmental Microbiology*, School of Specialization in Microbiology and Virology, Faculty of Medicine, University of Siena, Italy
- Academic years **2001-08**: Contract professor of *Microbiology*, School of Specialization for Teachers (SSIS), University of Siena, Italy
- Academic year **2011-12**: Contract professor of *Bioremediation*, Master, Polo Universitario Grossetano, University of Siena, Italy
- Academic year **2005-06**: Contract professor *Microbiology*, Master Polo Universitario Grossetano, University of Siena, Italy
- Academic years **2003-06**: Contract professor *Microbiology of wine*, Master, University of Siena, Italy
- Academic years **1991-2012**: Students tutoring

Napoli, July 2nd 2015

Milva Pepi