

PERSONAL INFORMATION

Silvia Lampis



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Sex: Female | Date of birth 09/11/1975 | Nationality Italian

Enterprise	University	EPR
<input type="checkbox"/> Management Level	<input type="checkbox"/> Full professor	<input type="checkbox"/> Research Director and 1st level Technologist / First Researcher and 2nd level Technologist
<input type="checkbox"/> Mid-Management Level	<input checked="" type="checkbox"/> Associate Professor	<input type="checkbox"/> Level III Researcher and Technologist
<input type="checkbox"/> Employee / worker level	<input type="checkbox"/> Researcher and Technologist of IV, V, VI and VII level / Technical collaborator	<input type="checkbox"/> Researcher and Technologist of IV, V, VI and VII level / Technical collaborator

PERSONAL STATEMENT

Expert of Environmental Microbiology (biodegradation of toxic organic pollutant and biotransformation of metals/metalloids)
Associate Professor in Microbiology at Department of Biotechnology – University of Verona (Italy)
Scientific coordinator of VUCC-DBT (Verona University Culture Collections – Department of BioTechnology)

Professor Lampis's research interests cover different aspects of environmental microbiology: i) toxic organic microbial biodegradation, ii) metals/metalloids bacterial biotransformation, iii) microbial synthesis of metal nanostructures and their exploitation in nanobiotechnology field, iv) bacterial production of biobased products such as biosurfactants and polyhydroxyalkanoates, v) plant growth promoting bacteria and bacterial endophytes even as biocontrol agents.. She is the scientific coordinator of VUCC-DBT, the microbial culture collection at University of Verona, which was established at department of Biotechnology (DBT) to support valorisation/exploitation of microbial resources in the agro-food, environmental and industrial sectors in the framework of the project funded by MIUR which awarded DBT as department of excellence in the "Chemical Sciences" area, to develop biotechnological solutions for green chemistry applications. At present, VUCC-DBT holds approximately 500 microbial resources (yeasts and bacteria) with biotechnological potential and expertise microbial manipulation, identification and characterization for different specific applications. Since 2021, the VUCC-DBT is member of the Microbial Resource Research Infrastructure Italian Node (MIRRI-IT).

WORK EXPERIENCE

(from 01/11/2019 – current)

Associate Professor in Microbiology

Department of Biotechnology – University of Verona

Strada Le Grazie 15, 37134 Verona, Italy

Main activities and responsibilities: Coordination of the Environmental Microbiology Lab in terms of research activities in the field of basic and applied microbiology, microbial biotechnology of environmental microorganisms for the development of industrial and environmental biotechnological application; coordination and participation of different research project; teaching and supervision of B.Sc., M.Sc. and PhD students; Coordination of the MS course in 'Biotechnology for the bioresources and eco sustainable development' LM8 at University of Verona; Establishment of VUCC-DBT at Department of Biotechnology at University of Verona. Participation in several Committee at Department of Biotechnology.

(from 01/10/2007 to 31/10/2009)

Assistant Professor in Microbiology

Department of Biotechnology – University of Verona

Strada Le Grazie 15, 37134 Verona, Italy

Main activities and responsibilities: Participation/Organization of research activities at the Environmental Microbiology Lab in the field of basic and applied microbiology and microbial biotechnology. Main Topics covered: i) investigation of Microbial transformations of toxic organic compounds (PAHs, PFAS; TPH), bacterial biotransformation of metals/metalloids, biosynthesis of metal nanostructures, investigation on plant growth promotion traits in environmental strains and endophytes; analysis of microbial communities specialized in PHAs production. Teaching and supervision of B.Sc., M.Sc. and PhD students. Participation in several Committee at Department of Biotechnology.

EDUCATION AND TRAINING

(from 2006 – to 2007)

Postdoctoral Researcher

University of Verona – Department of Science and Technology
 Postdoctoral fellowship entitled 'Characterization of PHAs producing bacterial cenosis from acidogenic sludges through PCR-DGGE and study of respiratory chinones' (01/08/2006-30/09/2007)

(from 2002 – to 2005)

PhD in Molecular, Industrial and Environmental Biotechnology (XVIII ciclo)

University of Verona – Department of Science and Technology
 Thesis title: "New insights in microbial transformations of selenium: a biotechnological perspective"

(from 01/08/2004 to 31/07/2006)

Research fellowship

University of Verona – Department of Science and Technology
 Research fellowship entitled 'Study of soil-plant-microorganisms system for selenium hyperaccumulator plant species'.

(from 01/10/2002 to 31/07/2004)

Research fellowship

University of Verona – Department of Science and Technology
 Research fellowship entitled 'Molecular characterization of bacterial strains capable of transforming condensed thiophens in pure culture'

(from 01/01/2002 to 30/06/2002)

Research fellowship Institute for the Study of Ecosystem (ISE) Pisa CNR

(from 1994 – to 2001)

Degree in Agro-Industrial Biotechnology

University of Verona
 Thesis title "Characterization of bacterial cenosis of the rhizosphere of *Astragalus bisulcatus*, selenium hyperaccumulator plant, potentially exploitable for soil bioremediation protocols through phytoextraction."

BIBLIOMETRIC PARAMETERS

Author of Publications

60 documents; 2388 Citations by 1887 documents; h-index: 28; 135 co-authors (SCOPUS); 40 documents; 1471 Citations by 1147 documents; h-index: 22; 416 co-authors (WoS); 2394 Citations; h-index: 24; i10-index: 37 (Google Scholar); Research project funding success rate: 20% (25 funded/125 presented)

Author of 3 book Chapters

INSTITUTIONAL RESPONSIBILITIES

(from 2007 - current)

Member of the Department Council at the Department of Biotechnology – university of Verona
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(from 2009 – current)

Member of the Teaching Council in Biotechnology at the Department of Biotechnology – University of Verona

(from 2014 – to 2016)

Member of the Equity Commission at the Department of Biotechnology – University of Verona

(from 2019 – current)

Member of the College of teachers of the Doctoral Program in Biotechnology of the University of Verona.

(from 2019 – current)

Coordinator of the Master degree course in ' Biotechnology for the bioresources and the Eco sustainable development) at Department of Biotechnology – University of Verona

PROJECTS

(2000 – current)

CURRENT RESEARCH PROJECTS

As Principal Investigator

2018-2022

JP2018- UniVR - 'Microbially-tailored biobeds to face on-farm point-source pollution at areas devoted to filling and cleaning operations of

pesticide application equipment'.	
2022-2024	JointResearch project co-founded by UNIVR entitled ' Development of biotechnological products to bioremediate soil matrices polluted by triazole compounds'
2022-2025	SUS-MIRRI.IT Strengthening the MIRRI Italian Research Infrastructure for Sustainable Bioscience and Bioeconomy – in the frame of PNRR Infrastructures:
2023-2025	PRIN2022 – Se4SAFE – Coordinator of the Research Unit at the Dept. of Biotechnology – University of Verona
As member	
2021-2023	Cariverona - Sviluppo di nanoemulsioni di origine naturale ad azione antibatterica per la protezione delle colture: dal laboratorio al campo.
2019-2022	Regione Veneto Bando - DGR N. 736 Misura 16.1- MI.DI.FEN.DO. Uso di Microrganismi nella Difesa della vite contro la FlavEsceNza DOOrata -

PAST RESEARCH PROJECTS

2017-2021	TEMART - Tecnologie e Materiali per la Manifattura artistica, i beni culturali, l'arredo, il decoro arhitettonico e urbano e il design del futuro - RIR - Regione Veneto
2017-2021	JP2017-UniVR- 'Development of synthetic textile materials with antimicrobial properties by using biogenic selenium nanoparticles'.
2017-2020	JP 2017 - UNIVR - 'Messa punto di un protocollo per la colonizzazione endofitica in Vitis vinifera del batterio "plant growth-promoting" Pseudomonas protegens MP12 per l'acquisizione di resistenza all'attacco di funghi fitopatogeni'. (member)
2016-2017	Programma Operativo FSE 2014-2020 – Asse 'Capitale umano' – Regione Veneto – 'Analisi dell'efficacia di bionanomateriali per l'inibizione ed eradicazione di biofilm micobici su superfici ad uso industriale'.(P.I.)
2016-2019	JP 2015 - UNIVR – 'Biological reclamation of polluted dredged sediments'. (P.I)
2016-2017	Programma Operativo FSE 2014-2020 – Asse 'Capitale umano' – Regione Veneto – 'Sviluppo di una procedura innovativa per il restauro di manufatti lapidei di interesse artistico mediante bio-pulitura e bio-cementazione, basata sullo sfruttamento integrato di microorganismi idrocarbonoclastici e del processo di carbonatogenesi microbica'. (nmber)
2015-2018	JP 2014 – UNIVR – 'Biocleaning of stone artworks by a combined use of hydrocarbon degrading microbial strains and sulfate reducing bacteria'. (member)
2012-2014	JP 2011 – UNIVR – 'Sviluppo di Inoculi Micobici per il recupero di terreni forestali percorsi da incendio'.(member)
2007-2011 Toscana	Regione APQ Ricerca e trasferimento tecnologico per il sistema produttivo: "R.E.P.E.T. (Rhizosphere-Enhanced Phyto-Extraction Technology)":(member)
2011-2013 MAE	- XVII Executive Programme of Scientific and Technological Co-operation between Italy and Hungary for the years 2011-2013: "Optimization of soil-plant- microbe interactions in the bioremediation of soils polluted with toxic organic compounds and heavy metals" (member)
2008-2010	MAE - XVII Executive Programme of Scientific and Technological Co-operation between Italy and Hungary for the years 2008-2010: "Plant-microbe interactions in bioremediation of polluted environmental matrices" (member)
2006-2008	MIUR PRIN 2005 - "Dinamica e caratterizzazione molecolare delle cenosi batteriche accumulatrici di polidrossialcanoati a seguito di processi sequenziali anaerobici/aerobici per lo sfruttamento delle acque di vegetazione dei frantoi oleari" (member)

INTERACTION WITH PRIVATE COMPANIES

2005 to today; numerous fruitful collaborations with private companies through the activation of conventions, services or co-financed projects of research and development in mainly in environmental microbiology and industrial microbial biotechnology

REVIEWER'S ACTIVITY AND EDITORIAL BOARD

Act as a reviewer for: African Journal of Microbiology Research; AMAB - Applied Microbial and Biotechnology, Applied Water Science; Bioresource Technology; BFSO - Biology and Fertility of Soil, Chemosphere; Ecotoxicology and Environmental Safety; Environmental Science and Pollution Research; Int J Phytoremediation, Journal of Hazardous Materials; Microbial Biotechnology, Microbial Cell Factories, New Biotechnology, Plants, PLOS ONE, Microorganisms.

TEACHING ACTIVITIES

(from 2007 – current)	Lecturer of 'Biotecnologie micobiche industriali [6 CFU]' - CdS 'Biotecnologie per le biorisorse e lo sviluppo ecosostenibile' [LM8-UNIVR] - aa 2019/2020; 2020/2021; 2021/2022; 2022/2023 Lecturer of 'Biotecnologie' [6 CFU]' - CdS BIOTECNOLOGIE PER L'AMBIENTE E LO SVILUPPO SOSTENIBILE [LM8-Ca' foscari Venezia] - aa 2020/2021 Lecturer 'Microbiologia ambientale e biorisanamento' [3 cfu]- CdS 'Biotecnologie per le biorisorse e lo sviluppo ecosostenibile' [LM8-UNIVR] - aa 2020/2021; 2021/2022; 2022/2023 Lecturer 'Microbiologia del suolo e interazioni pianta-microorganismi' [4CFU] - CdS Biotecnologie [L2 UNIVR] aa 2020-2021; 2021/2022; 2022/2023 Lecturer 'Microbiologia'-Practical class -[2CFU] aa 2015-2016: 2016-2017; 2017-2018; 2018-2019; 2019-2020, 2020-2021; 2021/2022 Lecturer 'Biotecnologie per la bioeconomia circolare' [2 CFU] – CdS Biotecnologie [L2 UNIVR] aa 2021/2022; 2022/2023 Lecturer 'Microbial biosynthesis of nanostructured materials [6 CFU]- CdS Scienze dei Bio e Nano Materiali [LM-53 Università di Venezia Ca' Foscari] aa 2013-2014; 2014-2015; 2015-2016; 2016-2017; 2017-2018; 2018-2019; Lecturer 'Metodologie di Microbiologia' [3 CFU] - CdS Biotecnologie [L2 UNIVR] aa 2009-2010; 2011-
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2012; 2012-2013; 2013-2014; 2014-2015
 Lecturer 'Microbiologia Applicata Ambientale' [3,5 CFU] CdS In Biotecnologie Agro-Industriali UNIVR)
 aa 2007-2008, 2008-2009, 2009-2010

PUBLICATIONS

Relevat Publication

2024

Lebano, I., Fracchetti, F., Vigni, M.L. et al. **Lampis**, S. MALDI-TOF as a powerful tool for identifying and differentiating closely related microorganisms: the strange case of three reference strains of *Paenibacillus polymyxa*. *Sci Rep* **14**, 2585 (2024). <https://doi.org/10.1038/s41598-023-50010-w>

Giovanna Pesante, Chiara Tesoriero, Emma Cadòria, Marco Andreolli, Silvia Lampis, Andrea Vettori, Nicola Frison,
 Valorisation of agricultural residues into Thauera sp. Sel9 microbial proteins for aquaculture,
Environmental Technology & Innovation, Volume 36, 2024, 103772, ISSN 2352-1864,
<https://doi.org/10.1016/j.eti.2024.103772>.

Moretti, M.; Tartaglia, J.; Accotto, G.P.; Beato, M.S.; Bernini, V.; Bevvino, A.; Boniotti, M.B.; Budroni, M.; Buzzini, P.; Carrara, S.; et al. Treasures of Italian Microbial Culture Collections: An Overview of Preserved Biological Resources, Offered Services and Know-How, and Management. *Sustainability* **2024**, *16*, 3777.
<https://doi.org/10.3390/su16093777>

Kovács, B.; Andreolli, M.; Lampis, S.; Biró, B.; Kotrczó, Z. Bacterial Community Structure Responds to Soil Management in the Rhizosphere of Vine Grape Vineyards. *Biology* **2024**, *13*, 254.
<https://doi.org/10.3390/biology13040254>

Federico Battista, Alessandro Zeni, Marco Andreolli, Elisa Salvetti, Fabio Rizzoli, Silvia Lampis, David Bolzonella,
 Treatment of food processing wastes for the production of medium chain fatty acids via chain elongation,
Environmental Technology & Innovation,
 Volume 33, 2024, 103453, ISSN 2352-1864, <https://doi.org/10.1016/j.eti.2023.103453>.

Bombardi, L.; Salini, A.; Aulitto, M.; Zuliani, L.; Andreolli, M.; Bordoli, P.; Coltro, A.; Vitulo, N.; Zaccone, C.; Lampis, S.; et al. Lignocellulolytic Potential of Microbial Consortia Isolated from a Local Biogas Plant: The Case of Thermostable Xylanases Secreted by Mesophilic Bacteria. *Int. J. Mol. Sci.* **2024**, *25*, 1090.
<https://doi.org/10.3390/ijms25021090>

2023

Andreolli, M. Villanova, V Zanzoni, S. Vallini G., Secchi, N. **Lampis**, S.
 Characterization of trehalolipid biosurfactant produced by the novel marine strain *Rhodococcus* sp. SP1d and its potential for environmental applications
Microbial Cell Factories, 2023, *22*(1), 126

Andreolli, M-, Lampis, S., Tosi, L., Marano, V., Zapparoli, G.
 Fungicide sensitivity of grapevine bacteria with plant growth-promoting traits and antagonistic activity as non-target microorganisms
World Journal of Microbiology and Biotechnology, 2023, *39*(5), 121

2022

Andreolli, M., Scerbacov, V., Frison, N., Zaccone, C., Lampis, S.
 Thauera sp. Sel9, a new bacterial strain for polyhydroxyalkanoates production from volatile fatty acids
New Biotechnology, 2022, *72*, pp. 71–79

Shiriaev, A., Pezzarossa, B., Rosellini, I., Lampis S., ...Ippolito, A., Tonutti, P.
 Efficacy and Comparison of Different Strategies for Selenium Biofortification of Tomatoes
Horticulturae, 2022, *8*(9), 800

2021

Andreolli M., Lampis S., Lorenzini M., Zapparoli G. Features of basidiomycetous yeasts from grapes and apples associated with crop environment and fermenting juice. 2021. J Appl Microbiol, Oct;131(4):1932-1941. doi: 10.1111/jam.15083. Epub 2021 Apr 3. PMID: 33759285

Baggio G., Groves R.A., Chignola R., Piacenza E., Presentato A., Lewis I.A., Lampis S., Vallini G. Untargeted Metabolomics Investigation on Selenite Reduction to Elemental Selenium by *Bacillus mycoides* SelTE01. 2021. Front Microbiol 12, 711000 <https://www.frontiersin.org/article/10.3389/fmicb.2021.711000>

Strazzera, G., Battista, F., Andreolli, M., Menini, M., Bolzonella, D., Lampis, S. (2021). Influence of different household Food Wastes Fractions on Volatile Fatty Acids production by anaerobic fermentation. 2021. Bioresource Technol. 335, 125289. <https://doi.org/10.1016/j.biortech.2021.125289>

Frison N., Andreolli* M., Botturi A., Lampis S., Fatone F. Effects of the Sludge Retention Time and Carbon Source on Polyhydroxyalkanoate-Storing Biomass Selection under Aerobic-Feast and Anoxic-Famine Conditions. 2021. ACS Sustainable Chemistry and Engineering 9(28), pp. 9455-9464. <https://doi.org/10.1021/acssuschemeng.1c02973>

Franco, G., Manca, V., Andreolli, M., Lampis, S. Emergence of random selections in evolution of biological populations. 2021. Theoretical Computer Science, 862, pp. 130-143

Andreolli, M., Zapparoli, G., Lampis, S., Angelini, E., Bertazzon, N. In vivo endophytic, rhizospheric and epiphytic colonization of *vitis vinifera* by the plant-growth promoting and antifungal strain *pseudomonas protegens* MP12. 2021. Microorganisms, 9(2), pp. 1–14, 234

Andreolli, M., Lampis, S., Brignoli P., Vallini G. Mesocosm-based simulations to optimize a bioremediation strategy for the effective restoration of wildfire-impacted soils contaminated with high-molecular-weight hydrocarbons. 2021. Journal of Applied Microbiology, 131(3), pp. 1249-1260 DOI: [10.1111/jam.15018](https://doi.org/10.1111/jam.15018)

Bulgarini, A., Lampis, S., Turner, R.J., Vallini, G. Biomolecular composition of capping layer and stability of biogenic selenium nanoparticles synthesized by five bacterial species. 2021. Microbial Biotechnology, 14(1), pp. 198–212. <https://doi.org/10.1111/1751-7915.13666>

Botturi, A.; Battista, F.; Andreolli, M.; Faccenda, F.; Fusco, S.; Bolzonella, D.; Lampis, S.; Frison, N. Polyhydroxyalkanoated-Rich Microbial Cells from Bio-Based Volatile Fatty Acids as Potential Ingredient for Aquaculture Feed. Energies 2021, 14, 38. <https://doi.org/10.3390/en14010038>

2020

Bolzonella, D., Battista, F., Mattioli, A., ...Frison, N., Lampis, S. Biological thermophilic post hydrolysis of digestate enhances the biogas production in the anaerobic digestion of agro-waste. Renewable and Sustainable Energy Reviews, 2020, 134, 110174

Ojeda, J.J., Merroun, M.L., Tugarova, A.V., ...Kamnev, A.A., Gardiner, P.H.E. Developments in the study and applications of bacterial transformations of selenium species. Critical Reviews in Biotechnology, 2020, 40(8), pp. 1250–1264

Andreolli, M., Lampis, S., Bernardi, P., Calò, S., Vallini, G. Bacteria from black crusts on stone monuments can precipitate CaCO₃ allowing the development of a new bio-consolidation protocol for ornamental stone. International Biodeterioration and Biodegradation, 2020, 153, 105031

Presentato, A., Lampis, S., Vantini, A., ...Zuccoli, S., Vallini, G. On the ability of perfluorohexane sulfonate (PFHxS) bioaccumulation by two *Pseudomonas* sp. strains isolated from PFAS - contaminated environmental matrices. Microorganisms, 2020, 8(1), 92

2019

Milanesi C., Falieri C., Cresti M., Andreolli M., Lampis S., Vallini G., Sfriso A., Gallo M. and Baldi F. Apple seeds in an excavated Roman amphora remained intact for 2000 years despite exposure to a broadly-degrading microbial community. Journal of Archaeological Science: Reports 2019 25: 472-485 <https://doi.org/10.1016/j.jasrep.2019.04.024>

Andreolli M., Zapparoli G., Angelini E., Lucchetta G., Lampis S.*, Vallini G. *Pseudomonas protegens* MP12: A plant growth-promoting endophytic bacterium with broad-spectrum antifungal activity against grapevine phytopathogens. *Microbiol Res.* 2019;219:123-131. doi: 10.1016/j.micres.2018.11.003. Epub 2018 Nov 23.

Piacenza E., Presentato A., Bardelli M., Lampis S.*, Vallini G., Turner R.J. Influence of Bacterial Physiology on Processing of Selenite, Biogenesis of Nanomaterials and Their Thermodynamic Stability. *Molecules.* 2019 Jul 11;24(14). pii: E2532. doi: 10.3390/molecules24142532.

2018

Piacenza E, Presentato A, Ambrosi E, Speghini A, Turner RJ, Vallini G, Lampis S. Physical-Chemical Properties of Biogenic Selenium Nanostructures Produced by *Stenotrophomonas maltophilia* SelTE02 and *Ochrobactrum* sp. MPV1. *Front Microbiol.* 2018 Dec 19;9:3178. doi: 10.3389/fmicb.2018.03178. eCollection 2018.

Cremonini E, Boaretti M, Vandecandelaere I, Zonaro E, Coenye T, Lleo MM, Lampis S*, Vallini G. Biogenic selenium nanoparticles synthesized by *Stenotrophomonas maltophilia* SelTE02 loose antibacterial and antibiofilm efficacy as a result of the progressive alteration of their organic coating layer. *Microb Biotechnol.* 2018 Nov;11(6):1037-1047. doi:

10.1111/1751-7915.13260. Epub 2018 Apr 10.

Doni S., S., Macci C., Martinelli C., Iannelli R., Brignoli P., Lampis S., Andreolli M., Vallini G., Masciandaro G. Combination of sediment washing and bioactivators as a potential strategy for dredged marine sediment recovery. *Ecological Engineering,* 2018; 125: 26-37

Piacenza E., Presentato A., Zonaro E., Lampis S., Vallini G., Turner R.J. Selenium and tellurium nanomaterials. *Physical Sciences Reviews.* 2018; 20170100 DOI: 10.1515/psr-2017-0100

2017

Piacenza E., Presentato A., Zonaro E., Lampis S., Vallini G., Turner R.J. 2017. Microbial-Based Bioremediation of Selenium and Tellurium Compounds, Biosorption, Jan Dercq and Branislav Vrana, IntechOpen, DOI: 10.5772/intechopen.72096. Available from: <https://www.intechopen.com/books/biosorption/microbial-based-bioremediation-of-selenium-and-tellurium-compounds>

Piacenza E, Presentato A, Zonaro E, Lemire JA, Demeter M, Vallini G, Turner RJ, Lampis S. Antimicrobial activity of biogenically produced spherical Se-nanomaterials embedded in organic material against *Pseudomonas aeruginosa* and *Staphylococcus aureus* strains on hydroxyapatite-coated surfaces. *Microb Biotechnol.* 2017 Jul;10(4):804-818. doi:

10.1111/1751-7915.12700.

Zonaro E, Piacenza E, Presentato A, Monti F, Dell'Anna R, Lampis S*, Vallini G. *Ochrobactrum* sp. MPV1 from a dump of roasted pyrites can be exploited as bacterial catalyst for the biogenesis of selenium and tellurium nanoparticles. *Microb Cell Fact.* 2017. 16(1):215. doi: 10.1186/s12934-017-0826-2

Khoei NS, Lampis S*, Zonaro E, Yrjälä K, Bernardi P, Vallini G. Insights into selenite reduction and biogenesis of elemental selenium nanoparticles by two environmental isolates of *Burkholderia fungorum*. *N Biotechnol.* 2017. 34:1-11. doi: 10.1016/j.nbt.2016.10.002. Epub 2016 Oct 4.

Lampis S*, Zonaro E, Bertolini C, Cecconi D, Monti F, Micaroni M, Turner RJ, Butler CS, Vallini G. Selenite biotransformation and detoxification by *Stenotrophomonas maltophilia* SelTE02: Novel clues on the route to bacterial biogenesis of selenium nanoparticles. *J Hazard Mater.* 2017;324: 3-14. doi: 10.1016/j.jhazmat.2016.02.035.

Andreolli M., Lampis S.*, Vallini G. Diversity, Distribution and Functional Role of Bacterial Endophytes in *Vitis vinifera* - [Chapter 10] © Springer International Publishing AG 2017 D.K. Maheshwari (ed.), *Endophytes: Biology and Biotechnology, Sustainable Development and Biodiversity* 15, DOI 10.1007/978-3-319-66541-2_10

2016

Cremonini E, Zonaro E, Donini M, Lampis S, Boaretti M, Dusi S, Melotti P, Lleo MM, Vallini G. Biogenic selenium nanoparticles: characterization, antimicrobial activity and effects on human dendritic cells and fibroblasts. *Microb Biotechnol.* 2016 Jun 20. doi: 10.1111/1751-7915.12374.

Andreolli M, Lampis S*, Brignoli P, Vallini G. *Trichoderma longibrachiatum* Evx1 is a fungal biocatalyst suitable for the remediation of soils contaminated with diesel fuel and polycyclic aromatic hydrocarbons. Environ Sci Pollut Res Int. 2016 May;23(9):9134-43. doi: 10.1007/s11356-016-6167-6. Epub 2016 Feb 1.

Andreolli M, Lampis S.*, Zapparoli G, Angelini E, Vallini G. Diversity of bacterial endophytes in 3 and 15 year-old grapevines of *Vitis vinifera* cv. Corvina and their potential for plant growth promotion and phytopathogen control. Microbiol Res. 2016 Feb;183:42-52. doi: 10.1016/j.micres.2015.11.009. Epub 2016 Nov 25. PubMed PMID: 26805617.

Andreolli M, Albertarelli N, Lampis S, Brignoli P, Khoei NS, Vallini G. Bioremediation of diesel contamination at an underground storage tank site: a spatial analysis of the microbial community. World J Microbiol Biotechnol. 2016. Jan;32(1):6. doi: 10.1007/s11274-015-1967-2. Epub 2015 Dec 28. PubMed PMID: 26712621.

Khoei NS., Andreolli M., Lampis S., Vallini G., Turner R.J. A comparison of the response of two *Burkholderia fungorum* strains grown as planktonic cells versus biofilm to dibenzothiophene and select polycyclic aromatic hydrocarbons. Can J Microbiol. 2016 Oct;62(10):851-860. <https://doi.org/10.1139/cjm-2016-0160> Epub 2016 Jun 7.

2015

Zonaro E., Lampis S., Turner RJ., Qazi SJS, Vallini G. Biogenic selenium and tellurium nanoparticles synthesized by environmental microbial isolates efficaciously inhibit bacterial planktonic cultures and biofilms. Front. Microbiol. 2015 | <http://dx.doi.org/10.3389/fmicb.2015.00584>

Zeppilli M, Villano M, Aulenta F, Lampis S, Vallini G, Majone M. Effect of the anode feeding composition on the performance of a continuous-flow methane-producing microbial electrolysis cell. Environ Sci Pollut Res Int. 2015 22(10):7349-60. doi: 10.1007/s11356-014-3158-3. Epub 2014 Jul 5.

Andreolli M, Lampis S*, Brignoli P, Vallini G. Bioaugmentation and biostimulation as strategies for the bioremediation of a burned woodland soil contaminated by toxic hydrocarbons: A comparative study. J Environ Manage. 2015 Apr 15;153:121-31. doi: 10.1016/j.jenvman.2015.02.007

Lampis S*, Santi C, Ciurli A, Andreolli M, Vallini G. Promotion of arsenic phytoextraction efficiency in the fern *Pteris vittata* by the inoculation of As-resistant bacteria: a soil bioremediation perspective. Front Plant Sci. 2015 Feb 18;6:80. doi: 10.3389/fpls.2015.00080.

2014

Lampis, S*, Zonaro, E., Bertolini, C., Bernardi, P., Butler, C.S., Vallini, G. Delayed formation of zero-valent selenium nanoparticles by *Bacillus mycoides* SelTE01 as a consequence of selenite reduction under aerobic conditions. Microbial Cell Factories 2014 13(1):1-14 doi: 10.1186/1475-2859-13-35.

Piccoli S, Andreolli M, Giorgetti A, Zordan F, Lampis S*, Vallini G. Identification of aldolase and ferredoxin reductase within the dbt operon of *Burkholderia fungorum* DBT1. J Basic Microbiol. 2014 May;54(5):464-9. doi: 10.1002/jobm.201200408.

Bertolini C, van Aerle R, Lampis S, Moore KA, Paszkiewicz K, Butler CS, Vallini G, van der Giezen M. Draft Genome Sequence of *Stenotrophomonas maltophilia* SelTE02, a Gammaproteobacterium Isolated from Selenite-Contaminated Mining Soil. Genome Announc. 2014 May 8;2(3). pii: e00331-14. doi: 10.1128/genomeA.00331-14.

2013

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PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s) English

Verona 20/09/2024

