

Curriculum Vitae - Alessio Mengoni

Work address: University of Firenze, Department of Biology, Via Madonna del Piano 6, I-50019 Sesto Fiorentino, Italy.

Education

INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
University of Florence (Italy)	MS, Biology	1995-1997	Plant molecular biology
University of Pavia (Italy)	PhD, Genetics	1997-2000	Plant population genetics
University of Florence (Italy)	Post doc	2001-2002	Molecular microbial ecology
Amsterdam Frije University (The Netherlands)	Post doc	2002	Molecular microbial ecology
University of Florence (Italy)	Post doc	2003-2004	Molecular microbial ecology
Nuclear Energy Research Center, Mol (Belgium)	Post doc	2004	Bacterial genomics
University of Florence (Italy)	Post doc	2005-2007	Bacterial genomics

Employment and Research Experience

Positions and Employment

2001-2002 Post doctoral research fellow, Department of Animal Biology and Genetics, University of Florence, Italy.

2002 Visiting Researcher, Department of Ecology and Ecotoxicology, Free University, Amsterdam, The Netherlands.

2003 Post doctoral research fellow, Department of Animal Biology and Genetics, University of Florence, Italy.

2004 Visiting Researcher, Laboratory of Microbiology, SCK-CEN, Mol, Belgium

2005-2007 Post doctoral research fellow, Department of Animal Biology and Genetics, University of Florence, Italy.

2008-2014 Assistant Professor of Genetics, Faculty of Science, University of Florence, Italy.

2014- present Associate Professor of Genetics, University of Florence, Italy.

Visiting professorships

2000 Invited teacher "*Molecular Techniques in Diversity, Phylogeny and Taxonomy of Plant-Associated Bacteria*", University of Varanasi, India.

2015- 2020 Visiting professor "*Bacterial Genomics*", Intercollegiate Faculty of Biotechnology, University of Gdansk, Poland

2015-2020 Visiting professor "*Bacterial Systems Biology*", Intercollegiate Faculty of Biotechnology, University of Gdansk, Poland

2016 Visiting Professor "*Bacterial Systems Biology*", College of Ecology and Evolution, Sun Yat-sen University, Guangzhou, P.R. China

International and National congress organization

- Member of the Scientific committee of the 2nd Mediterranean Congress on Biotechnology, March 16th-20th 2019, Hammamet, Tunisia
- Member of the Organizing committee of the 14th International Symposium on the Genetics of Industrial Microorganisms (GIM2019), 8-12 Sept, 2019, Pisa, Italy
- Member of the Organizing committee of the XXXIII SIMGBM Congress, 19-22 June, 2019, Firenze, Italy

Supervision of PhD students

Giovanni Bacci (cycle XXVIII, years 2012-2015), Khaled Farag Abdelrhman (cycle XXVIII, years 2012-2015), Alice Checcucci (cycle XXIX, years 2013-2016), Luana Presta (cycle XXX, years 2014-2017), Camilla Fagorzi (cycle XXXIII, years 2017-2020), Lisa Cangioli (cycle XXXVI, years 2020-2023). Co-supervisor: Darine Trabelsi (defence 2010), Sabina Zoledowska (defence 2019), Agata Motyka (defence 2019),

Academic responsibilities

2017-present Member of the Scientific Committee of DaVinci Biobank
 2021-presente Member of the Directorate of the Center for scientific education and dissemination OpenLab
 2008-present Contact person for the publication database U-GOV for the Department of Biology
 2013-2017 Contact person for the curriculum in Genetic and Microbiology of the PhD program in Biology, University of Florence
 2013- 2014 Head of post graduate curriculum TFA A060 (for habilitation of high school teacher in science)
 2008-present Teacher in the class of *Genomics* (then *Genomics and Systems Biology*), Master degree in Molecular Biotechnologies
 2009-2012 Teacher in the class of *Genetics*, Bachelor degree in Biotechnology
 2013 Teacher in the class of *Biology*, Bachelor degree in Faunistic Science
 2015-present Teacher in the class of *Genetic Engineering*, Bachelor degree in Biotechnology
 2015-2016 Teacher in the class of *Bacterial Genetics and Evolution*, Master degree in Biology
 2020-present Teacher in the class of *Genetics*, Bachelor degree in Biology
 2015-present Contact person for the University of Florence of the *Piano Nazionale Lauree Scientifiche Biologia e Biotecnologie* (National Plan of Scientific Degrees for Biology and Biotechnology)
 2017 Senior Scientist of the team iGEM_UNIFI of the University of Florence for iGEM Competition in Synthetic Biology
 2016-2020 Contact person for Job Placement Services of the School of Mathematical, Physics and Natural Science, University of Florence

Research Interests

Research is mainly concerned with bacterial comparative and evolutionary genetics and genomics. In particular, in the last 15 years, he worked on molecular ecology of bacterial communities and on bacterial genomics. In the last years he also promoted the creation of a computational biology group (<http://www.unifi.it/dbefcb/>), where new software and algorithms for managing genomic and metagenomic data are developed. He is the co-founder of the spin-off company "EcolGene S.r.l." of the University of Florence devoted to the development and use of genome-based biomarkers in ecologically relevant contexts (agro-food, health, environment).

Publications: 174 papers, h index=36, 3888 total citations (source Scopus database, June 2021)

Social media: ORCHID ID: 0000-0002-1265-8251; Loop ID: 107432; Twitter: @alessiome73

Honors and memberships

- "A. Marzullo Award", University of Trieste, Italy, for graduate students in Molecular Biology, 1997.
- "Best Master Degree of the Faculty of Science Award" of University of Florence, 1997.

Invited lecturer at: Symposium on Signalling, Environment, and Functional Genomics, Chungbuk National University, Cheonju, Korea (2002), XIII Meeting of the Organization for the Phyto-Taxonomic Investigation of the Mediterranean Area (OPTIMA), Antalya, Turkey (2010), 11th International Conference on the Biogeochemistry of Trace Elements (ICOBTE), Florence, Italy (2011), Journées Internationales de Biotechnologie, JIB2013, Hammamet, Tunisia (2013), 7th Joint conference of the Polish Society of Experimental Plant Biology (2015).BioLink COST Action FP1305 meeting, Sofia, Bulgaria (2016), XXXII SIMGBM Congress, Palermo, Italy (2017), Journées Internationales de Biotechnologie, JIB2017, Hammamet, Tunisia (2017), 2nd Mediterranean Congress on Biotechnology, Hammamet, Tunisia (2019), VII Congress of Vavilov Society of Geneticists and Breeder,(June 18-22, 2019, St. Petersburg, Russia.

- Member of the Italian Society of Genetics (AGI)
- Member of the Italian Society of General Microbiology and Microbial Biotechnologies (SIMGBM)
- Member of the local directorate of the Italian Association of Science Teachers (ANISN) (2012-2016)
- Member of the International Serpentine Ecology Society (ISES)
- Member of the Directorate of SIMGBM years 2019-2021

- Member of the Scientific Board of the Da Vinci Biobank (daVEB)

- Editor of BMC Genomics
- Editor of the “Pianeta Redi” book series, Florence University Press, Firenze
- Member of the Editorial Advisory board of “The Open Microbiology Journal”
- Associate Editor of Frontiers in Genetics (sections of Evolutionary and Population Genetics, Bioinformatics and Computational Biology, Systems Biology)
- Associate Editor of Advances in Horticultural Science
- Associate Editor of International Journal of Molecular Science
- Guest Associate Editor of Frontiers in Genetics (Research Topic From Sequence to Models)
- Guest Associate Editor of Frontiers in Microbiology (Research Topic Emerging Research Challenges Associated with Plant-Rhizobium Symbiosis)
- Guest Editor of Genes (Special Issue Genomics of Bacterial Metal Resistance)
- Guest Editor of PLOS Genetics
- Member of the scientific advisory board of the book series “Costruire il lavoro”, Pacini Editore, Pisa

Fund rising (last five years)

- Local PI: FFC#14/2015 (Investigating the airway microbiome in cystic fibrosis ...), financed by the Italian Cystic Fibrosis Foundation. Budget: 80'000 Euro
- Local PI: FFC#19/2017 (A longitudinal metagenomic analysis to uncover microbial signatures of lung disease:...) financed by the Italian Cystic Fibrosis Foundation. Budget: 60'000 Euro
- Local collaborator: HARMONIA (The application of pangenome-based approach to identify genes responsible for adaptation of pectinolytic bacteria ...) 2015-2018, Polish Academy of Science. Budget: 260'000 Euro
- Coordinator PI: Strategic project research intramural grant – University of Florence 2015. Budget 23'000 Euro
- Local co-PI: H2020 BIOWYSE, 2015-2018 Local Budget: 45'000 Euro
- Coordinator: Fondazione CR Firenze, contribute ordinary 2017 (Metatrack) Budget 10'000 Euro

- Local PI: PNRA 2018, Italian National Plan for Antarctic Research, (Transcriptional Regulatory Networks in Antarctic bacteria as a proxy for global warming effects on microbial life in the Polar Oceans), Total budget 170'000 Euro
- Coordinator: MIPAAF MICRO4Legumes, 2020-2023. Total budget 345'000 Euro
- Sub-contractor: H2020 SIMBA, 2020-2023. Budget 30'000 Euro