

Annamaria Bevivino



PERSONAL INFORMATION

 ENEA, Italian National Agency for New Technologies, Energy and Sustainable Economic Development, Department for Sustainability, Via Anguillarese 301, Rome
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 <https://bioagro.sostenibilita.enea.it/people/annamaria-bevivino>

Sex Female | Date of birth 19/11/1964 | Nationality Italian

Enterprise	University	EPR
<input checked="" type="checkbox"/> Management Level	<input checked="" type="checkbox"/> Full professor	<input checked="" type="checkbox"/> Research Director and 1st level Technologist / First Researcher and 2nd level Technologist / Principal Investigator
<input type="checkbox"/> Mid-Management Level	<input 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

WORK EXPERIENCE

From 2018 to Present

Head of the ENEA Laboratory for AgriFood Sustainability, Quality and Safety (SOQUAS), Biotechnologies and Agroindustry Division (BIOAG), Department for Sustainability (SSPT)

ENEA, Italian National Agency for New Technologies, Energy and Sustainable Economic Development, <https://www.enea.it/en>

- Director of the laboratory BIOAG-SOQUAS focused on innovation on research, development and transfer activities to increase competitiveness, quality, safety and sustainability of food production systems and agroforestry.

From 2013 to Present

Professor of Food Microbiology, University Campus Bio-Medico of Rome

University Campus Bio-Medico of Rome, <http://www.unicampus.it/eng/>

- Professor of Agro-Food and Food Microbiology, Master's Degree in Food Science and Human Nutrition. Master's Degree in Food Science and Technology, and Supply Chain Management

Business or sector Research and Technology Transfer

EDUCATION AND TRAINING

From 2021 to present

National Scientific Habilitation (ASN) as Full Professor in the Italian higher education system

Disciplinary field 05/I2 - MICROBIOLOGY, ASN call 2018-2020 — Italian Ministry of Education, universities and research (MIUR, Ministerial Decree n. 2175/2018); Academic Recruitment Field 05/I - Genetics and microbiology, according to the national classification

From 2014 to 2020

National Scientific Habilitation (ASN) as Full Professor in the Italian higher education system

Disciplinary field 05/I1 (ASN 2012-2013) – GENETICS AND MICROBIOLOGY- Italian
 Ministry of Education, universities and research (MIUR, Ministerial Decree n. 222/2012)

1988 Professional Habilitation of Biologist
 University La Sapienza, Rome

1987 Degree in Biological Sciences (110/110 e lode)
 University La Sapienza, Rome

WORK ACTIVITIES

Awards Award Poster AMCLI 2016, Association of Italian Clinical Microbiologists
Editorial activity PLOSONE, Frontiers in Microbiology, Microorganisms-MDPI
Invited presentations More than 100 oral communications at national and international congresses as invited and/or selected
Grants H2020, Horizon Europe, European recovery programme NextGenerationEU.
Patents None

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s) English, C1

Editorial activity: Member of Editorial Board of Frontiers in Microbiology, PlosOne and Microbiology-MDPI
 Leading Guest Editor of Special issue "Beneficial Microbiomes in Agriculture and Human Health: The Food Connection" - Microorganisms MDPI Journal, Section Environmental Microbiology
 Editor of the Research Topic "Soil Nutrients and Soil Biota Interactions: A Pathway to Improve Soil Carbon Sequestration and Boost Land Restoration, Adaptation, and Resilience to Climate Change?", Frontiers in soil Science
 Editor of Proceedings at International Congress
 Reviewer for The ISME Journal, npj Biofilms and Microbiomes Nature Research Journal, Scientific reports, Trends in Molecular Medicine, Frontiers, Environmental Microbiology, PLOSONE, BMC Microbiology, Food Microbiology, European Journal of Plant Pathology, Applied Soil Ecology, Journal of Clinical Microbiology, Annals of Microbiology, African Journal of Agricultural research, African Journal of Microbiological Research.

Digital skills Microsoft Office, Proficient in MAC tools Keynote Numbers Pages, Social medias (Facebook LinkedIn YouTube), Video conferencing platforms, GraphPad PRISM, MAC OS, Google Gmail, Google Drive, Collaboration Tools (MS Teams, Zoom, Webex, Skype for Business)

Other skills Good organizational and managerial skills of research groups developed over the years.

ADDITIONAL INFORMATION

total number of publications in peer-review journals: 65
 Scopus: ID: 6602516452; ORCID: <http://orcid.org/0000-0003-4277-7048>; ResearchGate

https://www.researchgate.net/profile/Annamaria_Bevivino

More than 100 oral communications at national and international congresses (invited or selected)

total number of citations: 2364 (Scopus)

H index: 26 (Scopus)

Relevant publications 2021-2024

- Visca A, Di Gregorio L, Clagnan E, Bevivino A. Sustainable strategies: Nature-based solutions to tackle antibiotic resistance gene proliferation and improve agricultural productivity and soil quality. *Environ Res.* Published online February 1, 2024. doi:10.1016/j.envres.2024.118395
- Poscente V, Di Gregorio L, Costanzo M, Nobili C, Bernini R, Garavaglia L and Bevivino A* (2023) *Lactiplantibacillus plantarum* monolayer enhanced bactericidal action of carvacrol: biofilm inhibition of viable foodborne pathogens and spoilage microorganisms. *Front. Microbiol.* 14:1296608. doi: 10.3389/fmicb.2023.1296608
- Turchetti B, Bevivino A, Casella P, Coleine C, Felis GE, Girometta CE, Molino A, Perugini I, Pollio A, Prigione V, et al. Selected Case Studies on Fastidious Eukaryotic Microorganisms: Issues and Investigation Strategies. *Diversity.* 2023; 15(7):862. <https://doi.org/10.3390/d15070862>
- Hett, J.; Neuhoﬀ, D.; Döring, T.F.; Masoero, G.; Ercole, E.; Bevivino, A. Effects of Multi-Species Microbial Inoculants on Early Wheat Growth and Litterbag Microbial Activity. *Agronomy* 2022, 12, 899. doi.org/10.3390/agronomy12040899
- Graziano, S.; Caldara, M.; Gulli, M.; Bevivino, A.; Maestri, E.; Marmioli, N. A Metagenomic and Gene Expression Analysis in Wheat (*T. durum*) and Maize (*Z. mays*) Biofertilized with PGPM and Biochar. *Int. J. Mol. Sci.* 2022, 23, 10376. <https://doi.org/10.3390/ijms231810376>
- Hett J, Neuhoﬀ D, Döring TF, Masoero G, Ercole E, Bevivino A. Effects of Multi-Species Microbial Inoculants on Early Wheat Growth and Litterbag Microbial Activity. *Agronomy.* 2022; 12(4):899. <https://doi.org/10.3390/agronomy12040899>
- Di Gregorio L, Tchuenchieu A, Poscente V, Arioli S, Del Fiore A, Costanzo M, Giorgi D, Lucretti S, Bevivino A* (2022) Synergistic Action of Mild Heat and Essential Oil Treatments on Culturability and Viability of *Escherichia coli* ATCC 25922 Tested In Vitro and in Fruit Juice. *Foods* 11, 1615. <https://doi.org/10.3390/foods11111615>
- Tchuenchieu A, Kamdem SS, Bevivino A, Etoa F-X, Ngang J-JE (2022) Development of a predictive model of the microbial inactivation of *L. monocytogenes* during low thermal treatment of fruit juices in combination with carvacrol as aroma compound. *Current Research in Food Science* 5, 374-381. <https://doi.org/10.1016/j.crf.2022.02.002>
- Koutika L-S, Zagatto MRG, Pereira APdA, Miyittah M, Tabacchioni S, Bevivino A and Rumpel C (2021) Does the Introduction of N -Fixing Trees in Forest Plantations on Tropical Soils Ameliorate Low Fertility and Enhance Carbon Sequestration via Interactions Between Biota and Nutrient Availability? Case Studies From Central Africa and South America. *Front. Soil Sci.*1:752747. doi: 10.3389/fsoil.2021.752747
- Latini A, Fiorani F, Galeffi P, Cantale C, Bevivino A and Jablonowski ND (2021) Phenotyping of Different Italian Durum Wheat Varieties in Early Growth Stage With the Addition of Pure or Digestate-Activated Biochars. *Front. Plant Sci.* 12:782072. doi: 10.3389/fpls.2021.782072
- Tabacchioni S, Passato S, Ambrosino P, Huang L, Caldara M, Cantale C, Hett J, Del Fiore A, Fiore A, Schlüter A, Sczyrba A, Maestri E, Marmioli N, Neuhoﬀ D, Nesme J, Sørensen SJ, Aprea G, Nobili C, Presenti O, Giovannetti G, Giovannetti C, Pihlanto A, Brunori A, Bevivino A* (2021) Identification of Beneficial Microbial Consortia and Bioactive Compounds with Potential as Plant Biostimulants for a Sustainable Agriculture. *Microorganisms.* 19;9(2):426. doi: 10.3390/microorganisms9020426

Projects

PI in the following projects:

PNRR SUS-MIRRI.IT - Strengthening the MIRRI Italian Research Infrastructure for Sustainable Bioscience and Bioeconomy”

PNRR PE0000003 “Partenariato Estesio ON Foods - Research and innovation network on food and nutrition Sustainability, Safety and Security – Working ON Foods”

DELISOIL (Delivering, safe, sustainable, tailored & socially accepted soil improvers from circular food production processes for boosting soil health, Horizon Europe 2021-2017), WP leader

ECO-READY (Achieving Ecological Resilient Dynamism for the European food system through consumer-driven policies, Horizon Europe 2021-2017, GA No.101084201) Task Leader

SIMBA (Sustainable innovation of microbiome applications in food system) (H2020, 2018-2023, GA No. 818431) WP Leader

EJP SOIL (Towards climate-smart sustainable management of agricultural soils) (H2020, 2020-2025, GA No. 862695, Head ENEA unit, subcontractor CREA

SOMMIT (Sustainable management of soil organic matter to mitigate trade-offs between c

sequestration and nitrous oxide, methane and nitrate losses). Partner, Head ENEA unit, funded by the EU's Horizon 2020, GA N. 862695 (2021-2024)

MINOTAUR (Modeling and mapping soil biodiversity patterns and functions across Europe) funded by the EU's Horizon 2020, GA n. 862695 (2021-2024). Partner Head ENEA unit

ARTEMIS (Agro-ecological strategies for promoting climate change mitigation and adaptation by enhancing soil ecosystem services and sustainable crop production) Partner Head ENEA unit, funded by the EU's Horizon 2020

SOIL HUB (Creazione di un HUB italiano a supporto della partecipazione dell'Italia alla Global soil partnership ed alla rete di eccellenza europea sulla ricerca sul suolo), funded by MIPAAFT (d.m. 35581, 5/11/2019 2020-2023, Role: partner.

BIOLINK Cost Action (Linking belowground biodiversity and ecosystem function in European forests), Management Committee substitute for Italy (2015-2018)

SAFE&SMART (2013-2017), CLUSTER A.GRIFOOD N.AZIONALE – CL.A.N.), Budget: Role: Coordinator ENEA microbiological activity

SOILSINK (FISR, 2007-2009: Head ENEA unit, subcontractor University of Florence)

Other Relevant Information

Member of The Geografical Academy, Florence.

Member of Agenzia Regionale per lo Sviluppo e l'Innovazione dell'Agricoltura del Lazio (ARSIAL)

Scientific coordinator and curator of ENEA microbial collection and member of the Scientific Committee of Microbial Resource Research Infrastructure Italian Node (JRU-MIRRI)

<http://www.mirri-it.it/index.php/associated/enea/>

Member of CTS of Microbial Resource Research Infrastructure Italian Node (MIRRI-IT).

Member of National and International Scientific Societies: Italian Society of General Microbiology and Microbial Biotechnologies (SIMGBM), Italian Society of Agro-Food and Environmental Microbiology (SIMTREA), Federation of European Microbiological Societies (FEMS), International Union of Microbiological Societies (IUMS), Italian Society of Cystic Fibrosis (SIFC), European Cystic Fibrosis Society (ECFS)

Member of Bashan Foundation <http://www.bashanfoundation.org>

2014-2018: Management Committee Substitute for Italy, Action CostFP1305: Linking belowground biodiversity and ecosystem function in European Forests (Biolink)

Rome, February 15, 2024

