



Annamaria Bevivino

Nationality: Italian

 (+39) 3357664187

 (+39) 0630483868

Date of birth: 19/11/1964

Gender: Female

 **Email address:** annamaria.bevivino@enea.it

 **Website:** <https://bioag.sspt.enea.it/people/annamaria-bevivino>

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

 **Website:** <https://orcid.org/0000-0003-4277-7048>

 **Website:** <https://scholar.google.it/citations?user=rYqXUDEAAAAJ&hl=it>

 **Website:** <https://www.scopus.com/authid/detail.uri?authorId=6602516452>

 **Skype :** a.bevivino

 **LinkedIn :** <http://linkedin.com/in/annamaria-bevivino-a083812b>

 **Address :** Via Trionfale, 7130, 00135 Roma (Italy)

WORK EXPERIENCE

Head of Laboratory for AgriFood Sustainability, Quality and Safety (SSPT-BIOAG)

ENEA, Italian National Agency for New Technologies, Energy and Sustainable Economic Development [01/07/2018 – Current]

City: Rome

Country: Italy

Coordination and direction of the Laboratory activities that are focused on innovation on research, development and transfer activities to increase competitiveness, quality, safety and sustainability of food production systems and agroforestry **by making use of innovative infrastructures, equipment, facilities, technologies and service platforms. Main areas:** Agro-Environmental Microbiology and Biotechnology; Integrated management of insect pests and vectors; Diagnostics for Food Quality and Safety; Sustainability assessments of agro-food systems

Senior Scientist

ENEA, Italian National Agency for New Technologies, Energy and Sustainable Economic Development [30/12/2010 – 30/06/2018]

Address: Rome (Italy)

City: Rome

Country: Italy

Research Activity in Agro-Food, Environmental and Clinical Microbiology. Author of more than 45 peer-reviewed publications and 150 communications at national and international conferences (as invited and/or selected speaker, posters).

The research activity covered the following themes:

I) Soil microbiology: soil microbial diversity; effects of land uses and agricultural management on genetic and functional diversity of soil microbial communities; plant-microbe interactions; selection of plant-growth promoting rhizobacteria and biocontrol agents of fungal pathogens.

II) Environmental microbiology: microbial ecology; opportunistic pathogens in natural environment; polymicrobial interactions between environmental *Burkholderia cepacia* complex and *Pseudomonas aeruginosa*; microbial biofilm; host-pathogen interaction and adaptation of environmental strains.

III) Clinical microbiology: Cystic Fibrosis microbiome; metagenomic analysis; biomarkers of decline in pulmonary function; polymicrobial interactions between clinical *Burkholderia cepacia* complex and *Pseudomonas aeruginosa*

IV) Food microbiology: molecular tools for food quality and safety; characterization of food-associated bacteria; effect of innovative packaging and process in the microbial community composition.

<https://bioag.sspt.enea.it/people/annamaria-bevivino>

Professor

University Campus Bio-Medico of Rome [09/2013 – Current]

Address: Roma (Italy)

City: Rome

Country: Italy

Contract professor of Agro-Food and Food Microbiology, Master's Degree in Food Science and Human Nutrition .Actually, Faculty of Science and Technology for Humans and the Environment.

Professor

University of L'Aquila, L'Aquila (Italy) [22/11/1998 – 28/01/2011]

Address: L'Aquila (Italy)

1998-2011 Contracting Professor for Techniques of Industrial Fermentation, Environmental Microbiology, Microbial Ecology.

EDUCATION AND TRAINING

Master Degree in Biological Sciences cum laude

University La Sapienza [01/10/1982 – 25/02/1987]

Address: Rome (Italy)

Habilitation in Biology

University La Sapienza [05/1988 – Current]

Address: Rome (Italy)

Fellowship

University La Sapienza [1987 – 1988]

Address: Rome (Italy)

Research training in the Molecular Biology and Microbiology Institutes, University La Sapienza, Rome.

Fellowship

ENEA Casaccia Research Center [01/12/1988 – 30/04/1989]

Address: Rome (Italy)

Research fellowship on characterization and microbial degradation of chemical wastes.

ITALIAN NATIONAL HABILITATION TO UNIVERSITY PROFESSOR

Habilitation as Associate Professor in Genetics and Microbiology

[23/01/2014]

Habilitation as Associate Professor in Genetics and Microbiology Sector 05/I1 (ASN 2012)

PUBLICATIONS

Publications

Author of 50 peer-reviewed published papers in international journals, plus more than 150 communications (oral and poster)

Scopus: ID: 6602516452 Citations: 1738. **h index: 23.**

Google scholar– Citations 2883; **H index= 30**; i-10-index: 39.

ORCID: <http://orcid.org/0000-0003-4277-7048>

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

RG Score 36.9 (higher than 95% of ResearchGate members'). h-index 27. Citations 2281.

ORAL COMMUNICATIONS

Speaker at international and national conferences

More than one hundred and forty contributions as poster and oral communications as invited speaker and/or selected speaker in national and International Congresses.

Years 2018-2020

- Microbiome application for sustainable food system: from field to food quality and safety. FAO-ENEA webinar "Promoting collaborative agricultural research for sustainable agrifood systems for achieving Agenda 2030", FAO, 6 June 2020
- SIMBA: Design, formulation and optimization of plant growth-promoting microbes for their use as microbial consortia inoculants. International miCROPe 2019 symposium "Microbe-assisted crop production – opportunities, challenges and needs", 2-5 December 2019, Vienna, Austria.
- SIMBA Project - Sustainable innovation of microbiome applications in the food system. "The Microbiome at the heart of sustainable food production". European Biotech Week 2019, Rome, Italy.
- Microbiology aspects of food quality and safety: from culture-based methods to molecular approaches. CREA-ENEA-Israel Workshop "Working together for sustainable agri-food systems", 7 March 2019, Rome, Italy.
- The airway microbiome in cystic fibrosis: where are we now? MicrobiotaMi 2018, University of Milano - Bicocca, 5-7 November 2018, Milan, Italy.
- Why is soil biodiversity so important in keeping soil healthy: An overview from culture-based to metagenomic investigations. Discovering Microbial Solutions for Agricultural Challenges. 4^o Edition of International Conference on Plant Genomics, Frontiers in Plant and Agricultural Science, 20-21 June 2018
- Nutrizione e microbioma in FC. La Fibrosi Cistica (FC) dell'adulto. Attualità e proposta di un network italiano, 11-12 Maggio 2018, Hotel Quirinale, Via Nazionale 7 Roma

PROJECTS

Projects

Coordinator and Principal Investigator of research projects funded by Ministry of Education, Universities and Research (MIUR), Ministry of Agricultural, Food and Forestry Policies (MIPAF), Ministry of Economic Development (MISE), Italian Cystic Fibrosis Research Foundation (FFC). Collaborator in several national and international projects. Management Committee Substitute for Italy, Action CostFP1305: Linking belowground biodiversity and ecosystem function in European Forests (Biolink)

At present:

- WP Leader and Partner of SIMBA Project, Sustainable Innovation of Microbiome Applications in the Food-Systems, funded by the European Union's Horizon 2020, Grant Agreement N. 818431 (2018-2022)
- Head ENEA Unit, subcontractor CREA in EJP-SOIL: Towards climate-smart sustainable management of agricultural soils, funded by the European Union's Horizon 2020, Grant Agreement N. 862695 (2020-20125)
- Partner Italian Project 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 (DM 35581, 5/11/2019) (2020-2023)

NETWORKS AND MEMBERSHIPS

Memberships

- Italian Society of General Microbiology and Microbial Biotechnologies (SIMGBM)
- Italian Society of Agro-Food and Environmental Microbiology (SIMTREA)
- Federation of European Member Societies (FEMS)
- International Union of Microbiological Societies (IUMS)
- Italian Society of Cystic Fibrosis (SIFC)
- Member of Research Committee of Italian Society of Cystic Fibrosis (SIFC)
- Member of Research Committee of International Congress Environmental Microbiology and Biotechnology in the frame of the Knowledge-Based Bio and Green Economy, Bologna, 2011, Italy
- Member of Research Committee of the 3rd Annual Meeting COST Action FP1305 BioLink "Linking belowground biodiversity and ecosystem function in European forests", 17-19 November 2015, Rome, Italy
- Member of Scientific Committee of European Society of Cystic Fibrosis (ECFS)

HONOURS AND AWARDS

Best poster AMCLI 2016

AMCLI, Association of Italian Clinical Microbiologists [09/11/2016]

Award Poster AMCLI 2016, Association of Italian Clinical Microbiologists

Bacci G, Mengoni A, Fiscarelli EV, Segata N, Taccetti G, Dolce D, Morelli P, Paganin P, Vanessa T, De Alessandri A, Lucidi V, Bevivino A. L'analisi metagenomica dell'espettorato di pazienti affetti da fibrosi cistica rivela un diverso pool di geni associati ad un differente grado di severità polmonare.

Deciphering the Ecology of Cystic Fibrosis Bacterial Communities: Towards Systems-Level Integration

Trends Editors' Picks: The best new reviews for December 2019 [05/12/2019]

Trends Editors' Picks: The best new reviews for December 2019

<http://crosstalk.cell.com/blog/trends-editors-picks-the-best-new-reviews-for-december>

Bevivino A, Bacci G, Drevinek P, Nelson MT, Hoffman L, and Mengoni A. Deciphering the Ecology of Cystic Fibrosis Bacterial Communities: Towards Systems-Level Integration. Trends in Molecular Medicine - Cell Press December 2019, Vol. 25, No. 12 <https://doi.org/10.1016/j.molmed.2019.07.008>
dal 05-12-2019 al 05-12-2019

Travel awards for valuable contribution as speaker

29th North American Cystic Fibrosis Conference [10/10/2015]

ORGANISATIONAL SKILLS

Organisational skills

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

- Leadership in several national funded by Italian Cystic Fibrosis Foundation and international projects
- Leadership in the ENEA's Microbiology Laboratory in research projects funded by the Ministry of Education, University and Research (MIUR), the Ministry of Agricultural, Food and Forestry Policies (MIPAF), the Ministry of Economic Development (MISE), the Cystic Fibrosis Foundation Research (FFC).
- Supervisor International fellow within the International fellowship programme TWAS –ENEA: Congolese scientist Lydie-Stella Koutika”, dedicated to encouraging research and technological development in developing countries. The research focuses, also on soil organic matter (C, N and P) dynamics related to soil fertility and C sequestration in different ecosystems.
- Supervisor International fellow within the International fellowship programme TWAS –ENEA: Cameroonian scientist Alex Dimitri Tchuenchieu Kamgain, Centre for Food and Nutrition Research-IMPM, Cameroon, form the title: "Optimization of the antimicrobial efficiency of low thermal treatment of fruit juices in combination with natural aroma compounds".
- Tutor for PhD students (research and thesis), grants and ENEA's research fellowship post-doctoral, grants and research fellowship post- doctoral.
- Good experience in project or team management.
- Management Committee Substitute Member for Italy, Action Cost FP1305: Linking belowground biodiversity and ecosystem function in European Forests (Biolink). Coordinator: Dr. Martin Lukac, University of Reading, School of Agriculture, Policy and Development, United Kingdom, Reading.
- Coordinator of ENEA Research Activity on Sustainable Agro-Food Systems

COMMUNICATION AND INTERPERSONAL SKILLS

Communication and interpersonal skills

Good communication skills gained through my experience as

- Speaker in several national and international congresses
- Chair in International Conferences
- Teacher in Microbial Ecology, Environmental Microbiology and Industrial Fermentation Techniques, Agro-Food Microbiology (University of L'Aquila and Università Campus Bio-Medico di Roma, Italy).
- Academic Editor for PlosOne and Frontiers in Microbiology
- Coordinator and principal investigator of research projects funded by Italian Cystic Fibrosis Research Foundation, Ministero dell'Istruzione, dell'Università e della Ricerca (MIUR), Ministero delle Risorse Agricole, Alimentari e Forestali (MIPAF), Ministero dello Sviluppo Economico (MISE)
- WP leader European Project "Sustainable innovation of microbiome applications in food system".

LANGUAGE SKILLS

Mother tongue(s):

Italian

English

LISTENING: B2 READING: C1 UNDERSTANDING: C1

SPOKEN PRODUCTION: C1

SPOKEN INTERACTION: B2

DIGITAL SKILLS

Microsoft Office (Microsoft Word Microsoft Excel Microsoft PowerPoint Microsoft Access / Proficient in MAC tools Keynote Numbers Pages / Social medias (Facebook LinkedIn YouTube) / Good listener and comunication / Video conferencing platforms / GraphPad PRISM / MAC OS / Google Gmail Google Drive / Collaboration Tools (MS Teams Zoom Webex Skype for Business)

JOB-RELATED SKILLS

Job-related skills

- Member of several Scientific Society: Società Italiana di Microbiologia Generale e Biotecnologie Microbiche SIMGBM, Federation of European Microbiological Societies FEMS, Società Italiana Fibrosi Cistica SIFC, Società Italiana di Microbiologia Agraria, Alimentare e Ambientale SIMTREA, European Cystic Fibrosis Society (ECFS)
- Member of Research Committee of Italian Society of Cystic Fibrosis
- Member of Scientific Committee of European Cystic Fibrosis Society
- Member of Scientific Committee of International Congress
- Reviewer for The ISME Journal, npj Biofilms and Microbiomes, Nature Research Journal, Scientific reports, Trends in Molecular Medicine, Frontiers, Environmental Microbiology, PLOS ONE, 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, Bioelectromagnetics.
- Editor for PLoS ONE and Frontiers in Microbiology (formerly for BMC Microbiology)
- Editor of Proceedings at Congress
- Chair in national and international congresses
- Referee of international projects (BSAC, British Society for Antimicrobial Chemotherapy)
- Representative of ENEA in the Research Technical Tables of the Ministry of Agriculture, Food and Forestry
- Representative of ENEA at the International Climate Change and Agroforestry Conference - FAO, Rome, Italy, 28-11-2016.
- Member of the Task Force ENEA for METROFOOD-RI: a new European infrastructure for the development of the agrifood systems and consumer protection

INTERNATIONAL COLLABORATORS

Past and present collaborators:

[1992 – Current]

Martin Lukac (University of Reading), Lucas Trakal (University of Prague), Jesus Mercado Blanco (Agencia Estatal Consejo Superior de Investigaciones Cientificas (CSIC, Spain), Manuel Fernandez-Lopez (Dept. Microbiologia del Suelo, Estacion Experimental del Zaidin, CSIC, Granada, Spain), Diogo Proeca and Isabel Abrantes (University of Coimbra, Portugal), Katarzyna Hryniewicz (Nicolaus Copernicus University, Lwowska, Poland), Taina Pennanen (Natural Resources Institute Finland, Finland), Douglas L. Godbold (University of Natural Resources and Life Sciences, Wien), Ivano Brunner, (Swiss Federal Research Institute WSL, Birmensdorf), Smith Andy (University of Wales, Bangor, UK), Peter Vandamme (University of Gent, Gent, Belgium), Chris Dowson (University of Warwick, Coventry, UK), Eshwar Mahenthiralingam (Cardiff School of Biosciences, Cardiff, UK), Robert Ryan (Biomerit Research Centre, Department of Microbiology, University College Cork, Ireland), Siobhan Mc Clean (Centre of Microbial Host Interactions, Institute of Technology Tallaght Dublin, Dublin, Ireland), Anne Pihlanto and Vastila Sinikka (LUKE, Finland), Daniel Neuhoff (Rheinische Friedrich-Wilhelms-Universität Bonn), Stella Koutika (Research Center on the Durability and the Productivity of Industrial Plantations (CRDPI), Republic of the Congo), Pavel Drevinek (Charles University and Motol University Hospital, Prague, Czech Republic), Lucas Hoffman and Maria T Nelson (Center for Clinical and Translational Research, Seattle Children's Research Institute, Seattle, WA, USA), Lukas Trakal (Czech University of Life Sciences Prague), Joseph Nesme, Tim Evison and Søren J. Sørensen (Københavns Universitet (UCPH), Andreas Schlüter and Alexander Sczyrba (Center for Biotechnology, Bielefeld University, Germany), Ine van der Fels-Klerx (Wageningen University, The Netherlands), Marieke Reuver and Jane Maher (AquaTT)

NATIONAL COLLABORATORS

Past and present collaborators

[1989 – Current]

Alessio Mengoni, Giovanni Bacci and Renato Fani (University of Florence), Anna Benedetti, Roberta Farina and Rosario Napoli (CREA, Rome), Mauro Gamboni (CNR, Rome), Luigi Ledda (University of Sassari), Fiorentina Ascenzioni (University "La Sapienza", Rome), Serena Quattrucci, Maria Trancassini e Daniela Savi (University La Sapienza, Ospedale Policlinico Umberto I, Rome), Paolo Visca (University of Roma Tre, Rome), Maddalena Del Gallo (University of L'Aquila), Alessio Farcomeni (University of Rome "La Sapienza"), Alessandra Bragonzi (Istituto Scientifico San Raffaele, Milano), Alessandra De Alessandri (G. Gaslini Institute, Genoa), Giovanni Taccetti (Cystic Fibrosis Center, Meyer Hospital, Florence), Ersilia Fiscarelli and Vincenzina Lucidi (Children's Hospital and Research Institute Bambino Gesù, Rome), Nicola Segata (University of Trento), Anna Barra Caracciolo and Paola Grenni (IRSA-CNR, Rome), Stefano Alberti (Università degli Studi di Milano).