


Luciana Di Gregorio



PERSONAL INFORMATION

 ENEA, Biotechnologies and Agroindustry Division
 Agri-Food Sustainability, Quality and Safety Lab,
 Department for Sustainability
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F | 28/05/1990 | 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 / Principal Investigator
<input type="checkbox"/> Mid-Management Level	<input type="checkbox"/> Associate Professor	<input checked="" 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

May 2021 -Today **Permanent Research scientist**
 ENEA - Italian National Agency for New Technologies, Energy and Sustainable
 Economic Development - (Rome, Italy)
 Agri-food Sustainability, Quality and Safety Lab
 Department for Sustainability

The laboratory activities are focused on innovation in research, development, and transfer activities to increase competitiveness, quality, safety and sustainability of food production systems and agroforestry. Validation and application of diagnostic methods for food safety; analysis and assessment of microbiological transformations in production processes, food preservation and packaging; identification and quantification of components and quality markers to demonstrate the authenticity and origin of the agricultural food productions and to ensure their traceability.

September 2021 – Today **Academic tutoring in “Food Microbiology”**
 University “Campus Bio-medico” (Rome);
 Subject: Food Microbiology

October 2017 - February 2018 **Fellowship (DAAD grant)**
 Helmholtz-Centre for Environmental Research-UFZ (Magdeburg, Germany)

July 2014 - October 2015 **Fellowship**
 Water Research Institute of the National Research Council
 (IRSA – CNR) (Rome, Italy)

EDUCATION AND TRAINING

- November 2015 - January 2019 **PhD in Ecology and Evolutionary Biology**
University of Rome "Tor Vergata" - Water Research Institute of National Research Council (IRSA-CNR)
- February 2019 - May 2019 **Master "Experts and Managers in Management Systems Quality ISO 9001-Safety ISO 45001– Environment ISO 14001 and Energy management ISO 50001"**
Titles acquired: Auditor and lead auditor of management systems: ISO 9001, ISO 14001, ISO 45001, ISO 50001.
- June 2016 **Habilitation degree in Biology**
University of Rome "La Sapienza" (Rome, Italy)
- October 2011 - March 2014 **MSc in Biology cum laude**
University of Naples "Federico II" (Naples, Italy)
- October 2008 - October 2011 **BSc in General and Applied Biology**
University of Naples "Federico II" (Naples, Italy)

PERSONAL SKILLS

- Mother tongue(s) Italian
- Other language(s) English – proficient in spoken and written

ADDITIONAL INFORMATION**Publications**

- H-Index: 3 (Scopus), 5 (Google Scholar)
Google Scholar Page: <https://scholar.google.it/citations?hl=it&user=T6mSbigAAAAJ>
Scopus: <https://www.scopus.com/authid/detail.uri?authorId=57195946296>
ResearchGate <https://www.researchgate.net/profile/Luciana-Di-Gregorio>
ORCID: <https://orcid.org/0000-0001-6811-992X>
- Visca A, **Di Gregorio L**, Clagnan E, Bevivino A (2024) Sustainable strategies: Nature-based solutions to tackle antibiotic resistance gene proliferation and improve agricultural productivity and soil quality, *Environmental Research*, Volume 248, 2024, 118395, ISSN 0013-9351, <https://doi.org/10.1016/j.envres.2024.118395>.
 - Poscente V, **Di Gregorio L***, Costanzo M, Nobili C, Bemini 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
 - **Di Gregorio L**, Tchuenchieu A, Poscente V, Arioli S, Del Fiore A, Costanzo M, Giorgi D, Lucretti S, Bevivino A. 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*. 2022; 11(11):1615. <https://doi.org/10.3390/foods11111615>
 - **Di Gregorio L**, Congesti R, Tandoi V, Neu TR, Rossetti S, Di Pippo F "Biofilm diversity, structure and matrix seasonality in a full-scale cooling tower" *Biofouling* (2018)
DOI:10.1080/08927014.2018.1541454
 - Di Pippo F, **Di Gregorio L**, Congesti R, Tandoi V, Rossetti S "Biofilm growth and control in cooling water industrial systems" Minireview, *FEMS Microbiology Ecology* (2018)
DOI:10.1093/femsec/fiy044
 - **Di Gregorio L**, Tandoi V, Congesti R, Rossetti S, Di Pippo F "Unravelling the Biofilm Core Microbiome In Cooling Tower Systems", *Biofouling* (2017); DOI: 10.1080/08927014.2017.1367386
 - Di Pippo F, de Tora F, **Di Gregorio L**, Rossetti S, Tandoi V "Green bio-dispersant removal efficacy estimation for controlling biofilms in cooling towers", *Annals of Microbiology* (2017); DOI 10.1007/s13213-017-1301-3

- Projects**
- SIMBA (Sustainable innovation of microbiome applications in food system) (H2020, 20182023, GA No. 818431);
 - AICS (Italian Agency for Development and cooperation)-ENEA: AGENDA 2030
 - Participant Microbial Resource Research Infrastructure Italian Node (MIRRI-IT), Food microorganisms Working group
 - EJP SOIL "Towards climate-smart sustainable management of agricultural soils – EJP-SOIL" funded by Research Executive Agency (REA) - Grant Agreement number: 862695 — EJP SOIL — H2020-SFS-2018-2020 / H2020-SFS-2019-1)
 - ECOREADY Achieving Ecological Resilient Dynamism for the European food system through consumer-driven policies - HORIZON- CL6-2022-CLIMATE-01-04 - Fostering the resilience of food security: from observation of changes to the development of resilience strategies (RIA)
 - DELISOIL - Horizon Europe Programme- Delivering Soil improvers through improved recycling and processing solutions for food industry residues streams project
 - BIOMEnext "Integrated biodiversity-based next generation Mediterranean farming systems: the case of the olive groves" (PRIMA)
 - "PNRR ON Foods - Research and innovation network on food and nutrition Sustainability, Safety and Security - Working ON Foods" PE00000003, PNRR M4C2 "-
 - PNRR AgriTech NATIONAL RESEARCH CENTRE FOR AGRICULTURAL TECHNOLOGIES
 - PNRR SUS-MIRRI Strengthening the MIRRI Italian Research Infrastructure for Sustainable Bioscience and Bioeconomy
 - PNRR METROFOOD-IT - Strengthening of the /Italian Research Infrastructure for Metrology and Open Access Data in support to the Agrifood

- Awards**
- DAAD scholarship; Short-Term Grant at Helmholtz-Centre for Environmental Research UFZ in Magdeburg (Germany), Research Grant
 - ESCMID (European Society of Clinical Microbiology and Infectious Diseases) Grant for the international congress "Eurobiofilms", Amsterdam – September 2017
 - Grant for "Biofilms 8" Conference in Aarhus, Denmark - May 2018

- Presentations at conferences**
- **Di Gregorio L.**, Latini A., Stefanova M., Bunnefeld N, Nikoloudakis N., Ó Cuanacháin D., Marino F., Rossi D., Toth K., Dettenhofer M., Manikas I, Bevivino A. "Do the existing EU policies effectively integrate scientific data to promote a transition towards the resilience of Biodiversity and Food Security against Climate Change? The ECO-READY Project analysis." The 37th EFFoST International Conference, Valencia, Spain, 6-8 November 2023
 - **Di Gregorio L**, Poscente V, Costanzo M, Nobili C, Bernini R, Garavaglia L, Bevivino A "Biofilm forming reduction by combining *L. plantarum* monolayer with carvacrol in antimicrobial-functionalized food packaging" 7th IMEKOFODDS conference (Oral presentation; Paris, 25-27 October 2023)
 - **Di Gregorio L**, Kuhlicke U, Congestri R, Tandoi V, Rossetti S, Di Pippo F, Neu TR "Biofilm control in cooling towers: the effect of biodispersants on freshwater biofilms developed in flow lanes" (2018) Biofilms 8 Conference, 27-29 May 2018, Aarhus, Denmark
 - **Di Gregorio L**, Tandoi V, Congestri R, Rossetti S, Di Pippo F "Unravelling The Biofilm Core Microbiome In Cooling Tower Systems", (2017) Eurobiofilms, 5th European Congress on Microbial Biofilms, 19-22 September 2017, Amsterdam, The Netherlands