

PERSONAL INFORMATION

Andrea Visca



📍 AgriFood Sustainability, Quality and Safety ENEA Lab
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🌐 <https://bioagro.sostenibilita.enea.it/people/andrea-visca>

Sex Male | Date of birth 25/02/1989 | Nationality Italy

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

From 05/06/2023 to present

Researcher

ENEA Casaccia Research Center

- Soil microbiology, molecular biology, bioinformatic, metabarcoding

Business or sector Biotechnology applied to agroecosystems, From farm to fork, One Health

From 01/02/2019 to 31/05/2023

Post-Doc

Italian National Research Council – Water Research Institute (IRSA-CNR)

- Soil microbiology, molecular biology, bioinformatic, metabarcoding

Business or sector Ecology of soil and water ecosystems. Antibiotic resistance genes transmission from agroecosystems.

EDUCATION AND TRAINING

From 01/05/2022 to 31/05/2023

Postgraduate Specialization in Bioinformatic and Data Science

EQF 8

University of Siena (Italy)

- Validation of a bioinformatic tool for the identification of microorganisms through amplicon sequencing

From 01/11/2015 to 31/10/2018

PhD in Chemical processes for industry and the environment

EQF 8

University of Rome "La Sapienza" (Italy)

- Isolation and genomic characterization of a microalgal strain capable of growing on cheese whey, to produce high-value compounds from microalgal biomass

From 01/10/2012 to 14/12/2014

Master's degree in Genomic Biotechnology

EQF 7

University of Roma "La Sapienza" (Italy)

WORK ACTIVITIES

Editorial activity

Reviewer for the "Marine Pollution Bulletin" journal (ISSN: 0025-326X) and two MDPI journals "Antibiotics" (ISSN: 2079-6382) and "Sustainability" (ISSN: 2071-1050) ☐

PERSONAL SKILLS

Mother tongue(s)	Italian
Other language(s)	English (B2)
Job-related skills	DNA and RNA extraction and analysis (PCR, qPCR, RT-PCR), DNA library construction for Next Generation Sequencing (Illumina and Oxford Nanopore platforms. Protein extraction and analysis (Western Blot) and enzymatic assays. Optical and fluorescence microscope, scanning electron microscope (SEM)..
Digital skills	Experience in Unix/Linux systems, Python, Bash and R languages. Experience in microbial and fungal genomics. Deep experience of standard NGS bioinformatic toolsets at the command line. Strong coding skills in appropriate languages for bioinformatics. Experience with all Microsoft Office software

ADDITIONAL INFORMATION

Publications Total number of publications in peer-review journals: 17
 total Impact Factor (IF) (average IF/paper) 7
 total number of citations: 165
 H index: 7

- Visca, A., Rauseo, J., Spataro, F., Patrolecco, L., Grenni, P., Massini, G., Mazzurco Miritana, V., Barra Caracciolo, A., 2022. Antibiotics and antibiotic resistance genes in anaerobic digesters and predicted concentrations in agroecosystems. *Journal of Environmental Management* 301, 113891. <https://doi.org/10.1016/j.jenvman.2021.113891>
- Barra Caracciolo, A., Visca, A., Rauseo, J., Spataro, F., Garbini, G.L., Grenni, P., Mariani, L., Mazzurco Miritana, V., Massini, G., Patrolecco, L., 2022. Bioaccumulation of antibiotics and resistance genes in lettuce following cattle manure and digestate fertilization and their effects on soil and phyllosphere microbial communities. *Environmental Pollution* 315, 120413. <https://doi.org/10.1016/j.envpol.2022.120413>
- Visca, A., Barra Caracciolo, A., Grenni, P., Patrolecco, L., Rauseo, J., Massini, G., Mazzurco Miritana, V., Spataro, F., 2021a. Anaerobic Digestion and Removal of Sulfamethoxazole, Enrofloxacin, Ciprofloxacin and Their Antibiotic Resistance Genes in a Full-Scale Biogas Plant. *Antibiotics* 10, 502. <https://doi.org/10.3390/antibiotics10050502>
- Visca, A., Barra Caracciolo, A., Grenni, P., Rolando, L., Mariani, L., Rauseo, J., Spataro, F., Monostory, K., Sperlagh, B., Patrolecco, L., 2021b. Legacy and Emerging Pollutants in an Urban River Stretch and Effects on the Bacterioplankton Community. *Water* 13, 3402. <https://doi.org/10.3390/w13233402>
- Mazzurco Miritana, V., Massini, G., Visca, A., Grenni, P., Patrolecco, L., Spataro, F., Rauseo, J., Garbini, G.L., Signorini, A., Rosa, S., Barra Caracciolo, A., 2020. Effects of Sulfamethoxazole on the Microbial Community Dynamics During the Anaerobic Digestion Process. *Front. Microbiol.* 11, 537783. <https://doi.org/10.3389/fmicb.2020.537783>

Projects DELISOIL (HORIZON Europe): Delivering, safe, sustainable, tailored & socially accepted soil improvers from circular food production processes for boosting soil health. Project duration: 3 years.
 - SUS-MIRRI (PNRR): Strengthening the MIRRI Italian Research Infrastructure for Sustainable Bioscience and Bioeconomy. SUS-MIRRI.IT coordinated by University of Turin, involves 15 institutions with 24 UOs, funded by National Recovery and Resilience Plan (PNRR) is granted by the European Commission's NextGenerationEU programme.
 -AZeRO antibiotici (Lazio Innova): strategie ecosostenibili per contrastare la diffusione degli antibiotici e dell'antibiotico resistenza negli ecosistemi. LazioInnova Project. Project duration: 26 months.

