

PERSONAL INFORMATION

Eleonora Colantoni

ENEA, Department for Sustainability,
Biotechnologies Division
Red Biotechnologies Lab
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Sex: F Date of birth: 05/02/1987 Nationality: Italian



CURRENT POSITION

Researcher

RESEARCH FIELD

Biotechnologies Applied to the Study of Novel Biomarkers of Therapeutic Efficacy and the Development of New Therapeutic Strategies

WORK EXPERIENCE

January 2026-to present

Researcher

Red Biotechnologies, ENEA Casaccia Research Centre (Rome, Italy).
Study of novel biomarkers of therapeutic efficacy and development of new therapeutic strategies

November 2023 – December 2025

Researcher

Agri-food Sustainability, Quality and Safety Lab- ENEA Casaccia Research Centre (Rome, Italy).
Identification, characterization and quality control of the ENEA microbial collection and insertion into the database within the scope of the SUS-MIRRI.IT project.

September 2021 - November 2023

Research fellow

Biomedical Technologies Laboratory - ENEA Casaccia Research Centre (Rome, Italy).
Molecular mechanisms of the gut-brain axis and neurodegenerative diseases with the identification of therapeutic efficacy markers following a novel magnetic stimulation treatment using *in vitro* models and serum samples from patients.

January 2020 - September 2021

Research fellow

Department of Molecular Medicine- University of Rome Sapienza (Rome, Italy).
Molecular mechanisms of chronic inflammatory diseases, the influence of the microbiota in the gut-liver-brain axis, effects of natural extracts and probiotics grown in anaerobic conditions in inflammatory diseases.

January 2018 - December 2019

Research fellow

Department of Maternal Pediatric and Urological Sciences - University of Rome Sapienza (Rome, Italy) in collaboration with Biomedical Technologies Laboratory - ENEA Casaccia Research Centre (Rome, Italy).
Molecular mechanisms of inflammatory bowel diseases, bacterial involvement, identification of diagnostic and therapeutic targets and the study of anti-inflammatory effects of probiotics and extracts of natural origin.

EDUCATION AND TRAINING

- November 2023** **Training Course “Isolation, cultivation, preservation and characterization of bacteria, fungi and viruses”.**
Project SUS-MIRRI.IT, ENEA Casaccia Research center (Rome, Italy).
- April 2023** **Qualification to practice as a biologist**
University of Rome Tor Vergata (Rome, Italy).
- April 2022** **“The basic elements for researchers' approach to the use of animals for scientific purposes”**
20/04/2022, IZS della Lombardia ed Emilia-Romagna
- November 2014 - March 2018** **PhD in Biomedical Techniques in Clinical Medicine**
Department of Internal Medicine and Medical Specialties, University of Rome Sapienza (Rome, Italy).
- October 2011 - December 2013** **Master’s Degree in Applied Biology for Biomedical Research**
University of Rome Sapienza, Rome (Italy).
- October 2006 - December 2011** **Bachelor’s Degree in Biological Sciences**
University of Rome Sapienza, Rome (Italy).
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PERSONAL SKILLS

Mother tongue Italian
Other languages tongue English B1

ADDITIONAL INFORMATION

Publications and main indexes

Total number of publications in peer-review journals: 14
H-Index: 6 (Scopus)
Scopus ID: 57189868906
ORCID ID: <https://orcid.org/0000-0003-1301-2492>

Relevant publications for the call (max 5)

Colantoni E., Palone F., Cesi V., Leter B., Sugoni G., Laudadio I., Negroni A., Vitali R. Stronati L. "Innovative method to grow the probiotic *Lactobacillus reuteri* in the omega3-rich microalga *Isochrysis galbana*". *Sci. Rep.* 2022.

Negroni A., Colantoni E., Vitali R., Palone F., Pierdomenico M., Costanzo M., Cesi V., Cucchiara S., Stronati L. "NOD2 induces autophagy to control AIEC bacteria infectiveness in intestinal epithelial cells" *Inflammation research* 2016.

Costanzo M., Cesi V., Palone F., Pierdomenico M., Colantoni E., Leter B., Vitali R., Negroni A., Cucchiara S., Stronati L. "Krill oil, vitamin D and *Lactobacillus reuteri* cooperate to reduce gut inflammation", *Beneficial Microbes* 2018.

Fiaschini N., Mancuso M., Tanori M., Colantoni E., Vitali R., Diretto G., Lorenzo Rebenaque L., Stronati L., Negroni A. Liver Steatosis and Steatohepatitis Alter Bile Acid Receptors in Brain and Induce Neuroinflammation: A Contribution of Circulating Bile Acids and Blood-Brain Barrier. *Int J. Mol Sci.*, 2022.

Stronati L., Palone F., Negroni A., Colantoni E., Mancuso AB, Cucchiara S, Cesi V, Isoldi S, Vitali R. "Dipotassium Glycyrrhizate improves intestinal mucosal healing by modulating extracellular matrix remodeling genes and restoring epithelial barrier functions", *Front Immunol.* 2019.

Date
30/11/2023

Signature



