

**PERSONAL INFORMATION****Eleonora Colantoni**

ENEA, Department for Sustainability,  
Biotechnologies and Agroindustry Division  
Agri-Food Sustainability, Quality and Safety Lab  
Email Address: eleonora.colantoni@enea.it Tel: +39 06 3048 3056  
Sex: F Date of birth: 05/02/1987 Nationality: Italian

**CURRENT POSITION**

Researcher

**RESEARCH FIELD**

Agri-food and environmental microbiology and biotechnology

**WORK EXPERIENCE****November 2023 - to present****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).

- July 2023** **Recognition of pain, suffering and distress and its application in the evaluation of severity of the procedures (species specific: mice and rats) - III Edition**  
IZS Teramo (Italy).
- January 2023** **Protection of laboratory animals in scientific research – VII Edition**  
Catholic University of Sacred Heart, Rome (Italy).
- January 2022** **Basic elements for the researcher’s approach to the use of animals for scientific purposes**  
IZS Lombardy and Emilia Romagna (Italy).
- 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

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## ADDITIONAL INFORMATION

### 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

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.

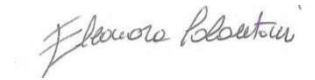
Fiaschini N, Mancuso M, Tanori M, Colantoni E, Vitali R, Diretto G, Lorenzo Rebenaque L, Stronati L, Negroni A. Liver Steatosis and Steatohepatitis Alter Bile Acid Receptors in Brain and Induce Neuroinflammation: A Contribution of Circulating Bile Acids and Blood-Brain Barrier. *Int J. Mol Sci.*, 2022.

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

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22/01/2024

Signature

A handwritten signature in black ink, appearing to read "Eleonora Colantoni", written in a cursive style.