

## Special Issue

# Advances in Microbiota in Human Health and Diseases

### Message from the Guest Editors

This Special Issue welcomes articles that address a variety of hot-topics related to the human microbiota, such as the following:

- Gut microbiota and its implications for digestion, nutrient absorption, and metabolism;
- Skin microbiota and its relationship with skin diseases;
- Oral microbiota and its influence on oral and systemic health;
- Vaginal microbiota and its role in gynecological health;
- Pulmonary microbiota and its impact on respiratory conditions;
- Microbiota and autoimmune diseases, such as inflammatory bowel disease and rheumatoid arthritis;
- Microbiota and its contribution to cardiovascular health;
- Microbiota and neuropsychiatric health, including depression, anxiety, and neurodegenerative diseases;
- Microbiota-based therapies, including fecal microbiota transplantation, probiotics, and prebiotics;
- Challenges in microbiota research, including DNA sequencing techniques, metagenomics and data analysis;
- Ethical and regulatory issues related to microbiota research and application.

---

### Guest Editors

Dr. Pedro Barata

UFP–Faculdade de Ciências da Saúde, Universidade Fernando Pessoa,  
4200-253 Porto, Portugal

Prof. Dr. Rúben Fernandes

School of Medicine and Biomedical Sciences, University Fernando  
Pessoa, 4249-004 Porto, Portugal

---

### Deadline for manuscript submissions

20 November 2025



## Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.5



[mdpi.com/si/237758](https://mdpi.com/si/237758)

*Applied Sciences*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[appls@mdpi.com](mailto:appls@mdpi.com)

[mdpi.com/journal/](https://mdpi.com/journal/)

[appls](https://appls.mdpi.com)





# Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.5



[mdpi.com/journal/  
applsci](https://mdpi.com/journal/applsci)



## About the Journal

### Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

---

### Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo  
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,  
20133 Milano, Italy

---

### Author Benefits

#### Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

#### High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, Inspec, CAPlus / SciFinder, and other databases.

#### Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering )