

## Special Issue

# Foodborne Pathogens and Illnesses

### Message from the Guest Editors

Microbiota have a fundamental role in both human and animal health and disease. Gut microbiota act as a second barrier against colonization by pathogens, regulate the development and maturation of the immune system, provide beneficial metabolites for host nutrition, and, more importantly, have a functional influence on each component that maintains intestinal homeostasis. While healthy microbiota can promote resistance to colonization by pathogenic species, dysbiosis or a microbial imbalance may promote the expansion or enhanced virulence of pathogenic populations. In addition, saccharolytic members of the microbiota can be liberated from sugars in mucus layers as sialic acid or fucose that can be used by *Salmonella typhimurium* as a source of energy, promoting its growth. However, healthy microbiota also have mechanisms for protection. This Special Issue welcomes original research articles and literature reviews on interactions between pathogens and microbiota or specific components of microbiota, such as bacterial metabolites, studies on the development of new strategies for modulating microbiota to make them resistant to bacterial infections.

### Guest Editors

Dr. Alexandre Lamas

Food Hygiene, Inspection and Control Laboratory (LHICA-USC), Department of Analytical Chemistry, Nutrition and Bromatology, Faculty of Veterinary Science, Campus Terra, Universidade de Santiago de Compostela (USC), 27002 Lugo, Spain.

Dr. Patricia Regal

Food Hygiene, Inspection and Control Laboratory (LHICA-USC), Department of Analytical Chemistry, Nutrition and Bromatology, Faculty of Veterinary Science, Campus Terra, Universidade de Santiago de Compostela (USC), 27002 Lugo, Spain

### Deadline for manuscript submissions

closed (28 February 2022)



## International Journal of Environmental Research and Public Health

an Open Access Journal  
by MDPI

CiteScore 8.5  
Indexed in PubMed



[mdpi.com/si/44203](https://mdpi.com/si/44203)

*International Journal of  
Environmental Research and  
Public Health*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[ijerph@mdpi.com](mailto:ijerph@mdpi.com)

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





# International Journal of Environmental Research and Public Health

---

an Open Access Journal  
by MDPI

---

CiteScore 8.5  
Indexed in PubMed



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



## About the Journal

### Message from the Editor-in-Chief

Addressing the environmental and public health challenges requires engagement and collaboration among clinicians and public health researchers. Scientific discoveries and advances in this research field play a critical role in providing a rational basis for informed decision-making toward control and prevention of human diseases, especially the illnesses that are induced from environmental exposure to health hazards.

*IJERPH* provides a forum for discussion of discoveries and knowledge in these multidisciplinary fields. Please consider publishing your research in this high quality peer-reviewed journal.

---

### Editor-in-Chief

Prof. Dr. Paul R. Ward

Centre for Public Health, Equity and Human Flourishing, Torrens  
University Australia, Adelaide 5000, Australia

---

### Author Benefits

#### Open Access:

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

#### High Visibility:

indexed within Scopus, PubMed, MEDLINE, PMC, Embase, GEOBASE, CAPlus / SciFinder, and other databases.

#### Journal Rank:

CiteScore - Q1 (Public Health, Environmental and Occupational Health)