



Foodborne Pathogens and Illnesses

Guest Editors:

Dr. Alexandre Lamas

Department of Analytical
Chemistry, Nutrition and
Bromatology, University of
Santiago de Compostela (USC),
27002 Lugo, Spain

Dr. Patricia Regal

Department of Analytical
Chemistry, Nutrition and
Bromatology, Santiago de
Compostela University, 27002
Lugo, Spain

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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.





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Editor-in-Chief

Prof. Dr. Paul B. Tchounwou

RCMI Center for Urban Health
Disparities Research and
Innovation, Richard Dixon
Research Center, Morgan State
University, 1700 E. Cold Spring
Lane, Baltimore, MD 21251, USA

Message from the Editor-in-Chief

Addressing the environmental and public health challenges requires engagement and collaboration among clinicians and public health researchers. Discovery and advances in this research field play a critical role in providing a scientific basis for 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, open access journal.

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