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Environmental Contaminants of Emerging Public Health Concern: PFAS

Guest Editors:

Prof. Dr. Clyde F. Martin
Department of Mathematics and Statistics, Texas Tech University, Lubbock, TX 79409, USA

Dr. Andrea Kirk
Department of Occupational and Environmental Health, Milken Institute School of Public Health, George Washington University, Washington, DC 20052, USA

Deadline for manuscript submissions:
closed (31 March 2023)

Message from the Guest Editors

Dear Colleagues,

While PFAS chemicals have long been in use, our understanding of the mechanisms by which they adversely affect biological systems and the endpoints they alter need elucidation so that risks posed to human and environmental targets can be understood. PFAS present challenges to public health by the sheer number of chemical forms, molecular targets, adverse outcome pathways, and potential developmental or homeostatic impacts. PFAS have now been detected worldwide, including in some of the most pristine environments on Earth and in large percentages of human blood samples from broad populational surveys. Expanding scientific understanding of the molecular targets, adverse outcome pathways, and endpoints would aid in strategies for both PFAS-related regulatory and translational science and in predictive toxicology efforts. In these perspectives, collecting evidence om nuclear receptor interactions, biomolecular cascades, and endpoints detrimental to individual or community health will help to shed light on the challenges presented by these “forever” chemicals.

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Editor-in-Chief

Prof. Dr. Paul B. Tchounwou
RCMI Center for Urban Health Disparities Research and Innovation, Richard N. Dixon Research Center, Morgan State University, 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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International Journal of Environmental Research and Public Health Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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