Special Issue

New Methods for Evaluating Effects of Exposure to Environmental Complex Mixtures on Human Health

Message from the Guest Editors

Humans are rarely exposed to a single agent; rather, they experience concurrent, time-varying mixtures spanning air pollutants, metals, pharmaceuticals/biocides, PFAS, nanomaterials, micro- and mesoplastics, noise, heat, and built-environment features. This Special Issue focuses on new methods, models, or approaches to treat data and evaluate the health risk of exposure to these different agents. Studies that provide clear implications for decision making across the human life course are also welcomed. We consider methodological advances in (1) risk assessment and inference methods with interaction (synergy/antagonism), (2) featured exposure–response modeling such as high-dimensional inference regarding Bayesian Kernel Machine Regression, g-computation, etc., and (3) evaluation of intervention measures targeting these mixtures based on causal frameworks. We also encourage applications that bridge epidemiology, toxicology, and risk assessment, with open code/data and rigid modeling techniques to unveil the link behind complex environmental mixtures and human health.

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About the Journal

Message from the Editor-in-Chief

Toxics (ISSN 2305-6304) is an international, peer-reviewed, open access journal which provides an advanced forum for studies related to all aspects of toxic chemicals and materials. We aim to publish high quality work that furthers our understanding of the exposure, effects, and risks of chemicals and materials in humans and the natural environment as well as approaches to assess and/or manage the toxicological and ecotoxicological risks of chemicals and materials. Please consider publishing in *Toxics* when preparing your next paper.

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