



toxics



an Open Access Journal by MDPI

Human Biomonitoring in Health Risk Assessment: Current Practices and Recommendations for the Future

Guest Editor:

Dr. Christophe Rousselle

The French Agency for Food,
Environmental and Occupational
Health & Safety (ANSES), 14 rue
Pierre et Marie Curie, 94701
Maisons-Alfort CEDEX, France

Deadline for manuscript
submissions:

closed (20 October 2022)

Message from the Guest Editor

Human Biomonitoring (HBM) is an important and useful tool for assessing the internal exposure of humans resulting from aggregated exposure to chemicals. Though there are still a number of obstacles that hinder the use of HBM data in a HRA, the growing availability of HBM data offers an opportunity for improving and refining RA.

This Special Issue intends to illustrate, using case studies, how HBM data can be used to better estimate internal exposure and resulting risks. Case studies either on exposure from the use of consumer products (cosmetic products, non-food products, etc.) or from exposures via food or water, in the general population or among workers, will contribute to better identifying the hurdles that prevent a broader use of HBM data in RA. New tools such as physiologically-based pharmacokinetic (PBPK) models, derivations of health-based guidance values, new approaches for integrating HBM with in vitro/in silico data, and adverse outcome pathways (AOP), by providing more accurate data on actual internal exposure, could improve HRA. The articles in this Special Issue are expected to give recommendations on the most suitable approaches for generating more reliable HRA.



mdpi.com/si/75097

Special Issue



toxics



an Open Access Journal by MDPI

Editor-in-Chief

Dr. Demetrio Raldúa

Department Environmental
Chemistry, IDAEA-CSIC, Jordi
Girona 18, 08034 Barcelona,
Spain

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.

Author Benefits

Open Access: free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

High Visibility: indexed within [Scopus](#), [SCIE \(Web of Science\)](#), [PubMed](#), [PMC](#), [Embase](#), [CAPus / SciFinder](#), [AGRIS](#), and [other databases](#).

Journal Rank: JCR - Q1 (*Toxicology*) / CiteScore - Q2 (*Chemical Health and Safety*)

Contact Us

Toxics Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/toxics
toxics@mdpi.com
X@Toxics_MDPI