

## Human exposure to emerging contaminants: monitoring and modeling

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Almost 20,000 chemicals are currently in commercial use and humans are potentially exposed to these via environmental media, direct contact, food or drinking water. Additionally, humans might be exposed to unintentionally formed chemicals, byproducts and transformation products. The actual human exposure and associated health effects have been characterized only for a minor fraction of these chemicals, mainly classical air pollutants, metals and more recently some emerging pollutants such as brominated flame retardants and perfluorinated surfactants. To prioritize the vast amount of new and existing chemicals for toxicological studies and risk assessment, a better characterization of human exposure is required. This session addresses recent developments for characterizing human exposure to emerging contaminants based on direct monitoring of exposure media, monitoring of human tissues and fluids for biomarkers or contaminants, exposure modeling and combinations thereof.

Keywords: Human biomonitoring, exposure modeling, emerging contaminants, exposure assessment

**SESSION TYPE:** Platform, Poster Spotlight and Poster