

# Environmental Science Processes & Impacts

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## IN THIS ISSUE

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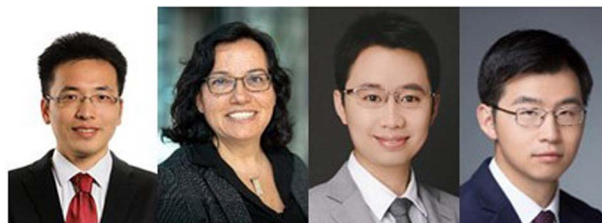
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## EDITORIAL

1741

### Introduction to the “Tracking complex mixtures of chemicals in human- and eco-exposome: the nexus of models, analytics, and toxicity” themed issue

Mingliang Fang, Li Li, Zhenyu Tian and Beate Escher

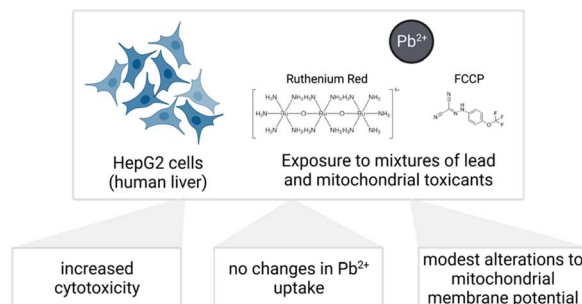


## COMMUNICATIONS

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### Increased cytotoxicity of $Pb^{2+}$ with co-exposures to a mitochondrial uncoupler and mitochondrial calcium uniporter inhibitor

Pooja Lalwani, Dillon E. King, Katherine S. Morton, Nelson A. Rivera, Jr, Javier Huayta, Heileen Hsu-Kim and Joel N. Meyer\*



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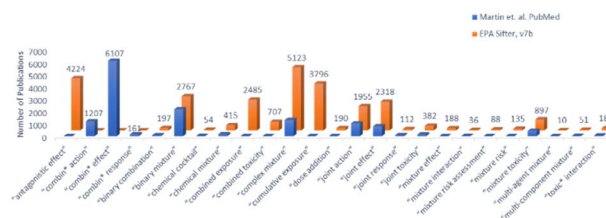


## COMMUNICATIONS

1752

## Evaluation of mixture toxicity literature and chemical space: a data centric approach

Vatsal Mehta, Mahmoud Shobair and Catherine Mahony\*

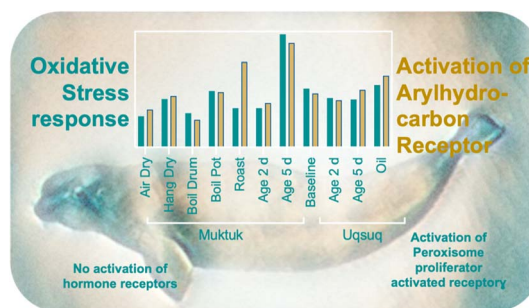


## PAPERS

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Mixture effect assessment applying *in vitro* bioassays to in-tissue silicone extracts of traditional foods prepared from beluga whale blubber

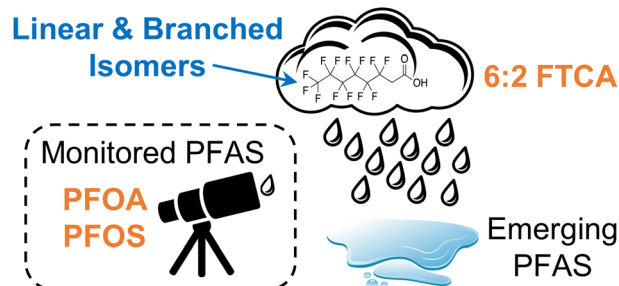
Beate I. Escher,\* Matthew J. Binnington, Maria König, Ying D. Lei and Frank Wania\*



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## Non-targeted identification and semi-quantitation of emerging per- and polyfluoroalkyl substances (PFAS) in US rainwater

Yubin Kim, Kyndal A. Pike, Rebekah Gray, Jameson W. Sprankle, Jennifer A. Faust and Paul L. Edmiston\*



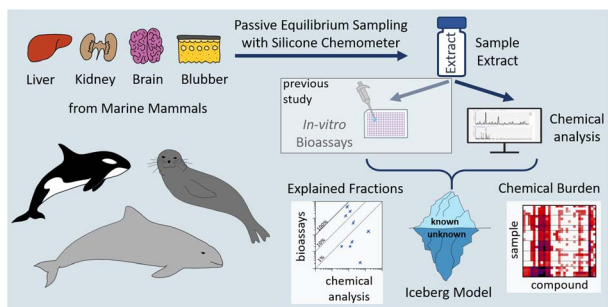
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## Adding open spectral data to MassBank and PubChem using open source tools to support non-targeted exposomics of mixtures

Anjana Elapavalore,\* Todor Kondić, Randolph R. Singh, Benjamin A. Shoemaker, Paul A. Thiessen, Jian Zhang, Evan E. Bolton and Emma L. Schymanski\*



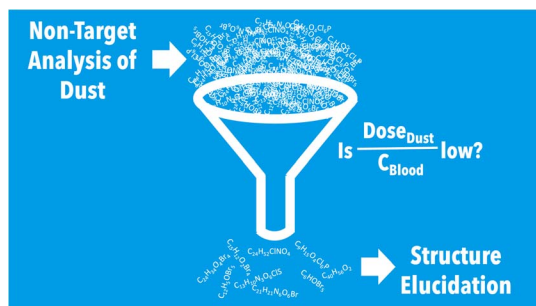
1802



### Characterizing the marine mammal exposome by iceberg modeling, linking chemical analysis and *in vitro* bioassays

Eva B. Reiter,\* Beate I. Escher, Elisa Rojo-Nieto, Hannah Nolte, Ursula Siebert and Annika Jahnke\*

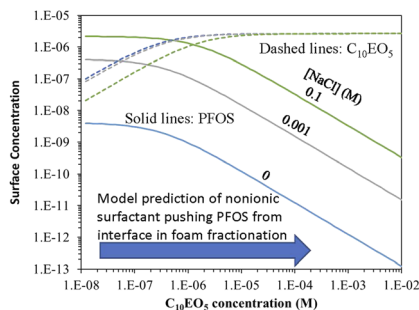
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### Prioritizing molecular formulae identified by non-target analysis through high-throughput modelling: application to identify compounds with high human accumulation potential from house dust

Zhizhen Zhang, Li Li, Hui Peng and Frank Wania\*

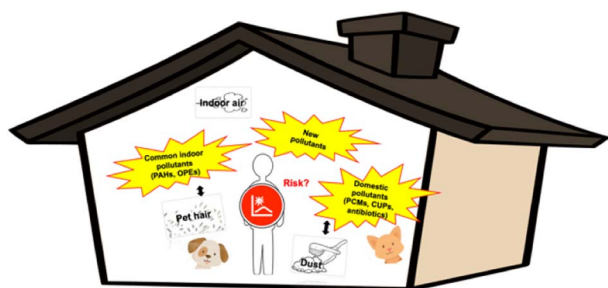
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### A fundamental model for calculating interfacial adsorption of complex ionic and nonionic PFAS mixtures in the presence of mixed salts

Yi Gao, Song-Thao Le, Tohren C. G. Kibbey, William Glamore and Denis M. O'Carroll\*

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### Occurrence of emerging contaminants in pet hair and indoor air: integrative health risk assessment using multiple ToxCast endpoints

Ying Zhang, Yujun Tong, Fei Cheng,\* Jingwen Shi, Jiehui Huang, Minqi Yu and Jing You

