

Environmental Science Processes & Impacts

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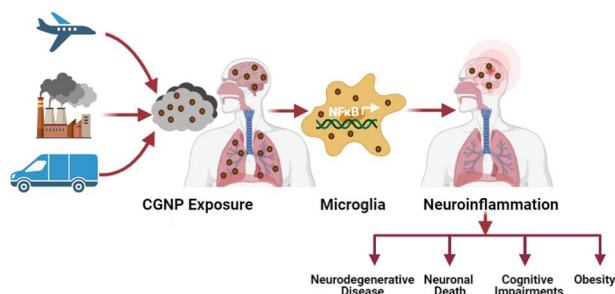
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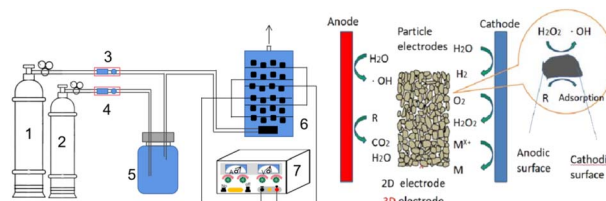
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An amended *in vitro*–*in vivo* extrapolation model that accounts for first pass clearance effects on chemical bioaccumulation in fish

The diagram shows a fish with a syringe icon on the left. A green arrow labeled 'IVIVE' points into the fish's mouth. Inside the fish, a yellow arrow leads from the 'Gut lumen' to the 'Intestinal epithelia', and another yellow arrow leads from the 'Intestinal epithelia' to the 'Liver'. Red lightning bolt symbols are shown above the 'Intestinal epithelia' and 'Liver' boxes, indicating metabolism. A yellow arrow exits the liver towards the tail. The text 'First pass clearance' is written below the fish's body.

A multi-pathway exposure assessment for polycyclic aromatic hydrocarbons among residents in the Athabasca oil sands region, Canada

Diagram illustrating the pathways of POPs (Polycyclic Aromatic Hydrocarbons) to human exposure:

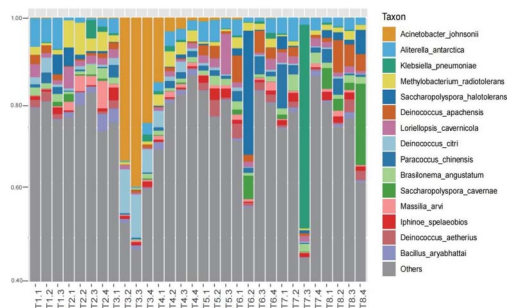
- Market Food:** Represented by a bowl of fruit, contributing to the ACC-Human (Atmospheric Concentration in Humans) box.
- Oilsands Emissions:** Represented by a stack of hexagonal rings, contributing to the ACC-Human box via a box labeled **CoZMoPOP**.
- Smoking:** Represented by a cigarette with smoke, contributing to the ACC-Human box.
- ACC-Human (Atmospheric Concentration in Humans):** A central box labeled "ACC-Human" containing icons for traditional food (a duck, a chicken, a moose, and two fish).
- Total Human Exposure:** Represented by a human figure, receiving input from the ACC-Human box and directly from the Market Food source.

Electron exchange capacity of pyrogenic dissolved organic matter (pyDOM): complementarity of square-wave voltammetry in DMSO and mediated chronoamperometry in water

The diagram illustrates the electrochemical detection mechanism for SWV and MCA. It shows the potential window from -1.75V to +0.75V. The process involves the generation of persistent free radicals from a source material (char or NOM) at the electrode surface. These radicals are then detected by SWV and MCA. The diagram also shows the redox states of the exposed redox mediator (DMSO, Water, and ABTS) and the resulting electrochemical signals (MER, DQ, DQ⁺).

Hydrogen peroxide emissions from surface cleaning in a single-family residence

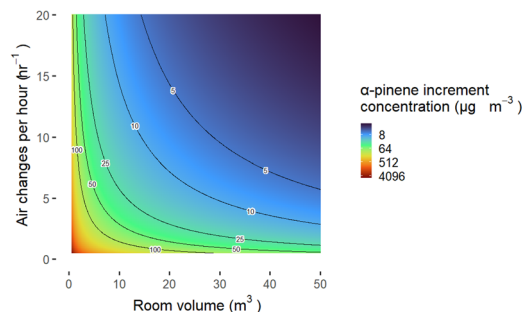
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Associations between environmental characteristics, high-resolution indoor microbiome, metabolome and allergic and non-allergic rhinitis symptoms for junior high school students

Xi Fu,* Bingqian Du, Yi Meng, Yanling Li, Xunhua Zhu, Zheyuan Ou, Mei Zhang, Huarong Wen, Aminnuddin Ma'pol, Jamal Hisham Hashim, Zailina Hashim, Gunilla Wieslander, Qingmei Chen, Jun Jiang, Juan Wang, Dan Norbäck, Yun Xia, Qingsong Chen and Yu Sun*

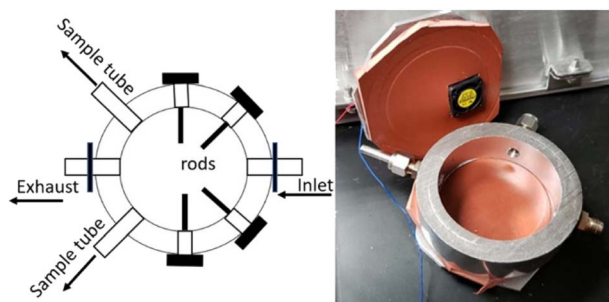
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The impact of plug-in fragrance diffusers on residential indoor VOC concentrations

Thomas Warburton, Stuart K. Grange, James R. Hopkins, Stephen J. Andrews, Alastair C. Lewis,* Neil Owen, Caroline Jordan, Greg Adamson and Bin Xia

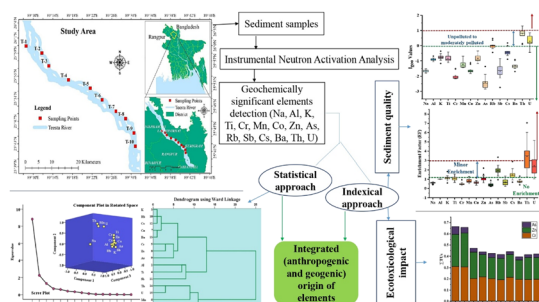
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A rapid micro chamber method to measure SVOC emission and transport model parameters

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Rahat Khan,* Shabiha Hossain, Amit Hasan Anik, Khampho Phoungthong,* Abu Reza Md. Towfiqul Islam, Narottam Saha, Abubakr M. Idris and Mahbub Alam

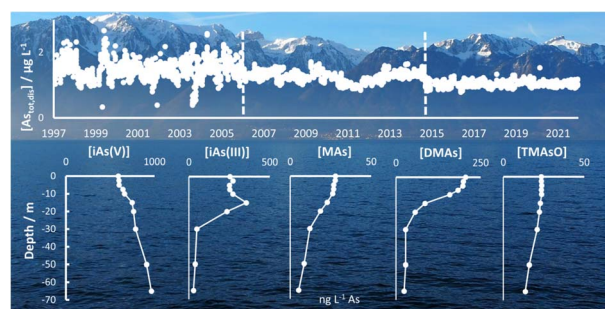


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