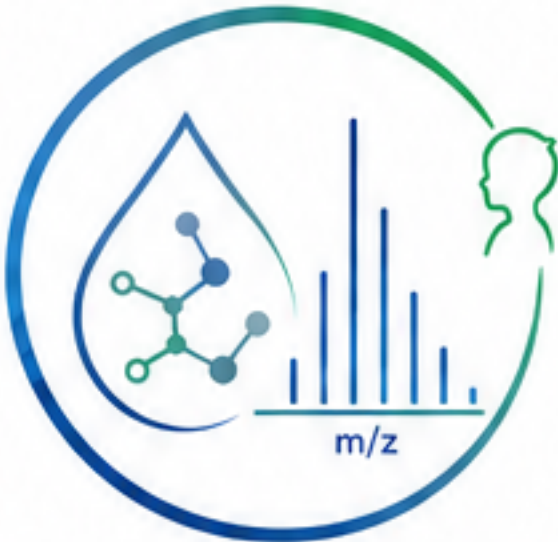




ExpoMassDat

Environmental exposure and human health

Human biomonitoring of chemical mixtures in vulnerable populations

What is ExpoMassDat? ExpoMassDat investigates how people, especially pregnant women, children and adolescents, are exposed to mixtures of environmental chemicals in everyday life. The project combines human biomonitoring, advanced analytical chemistry and data analysis to improve the understanding of real-world chemical exposures.

Why is this important?

People are exposed through food, air, water, household products and consumer materials. Some chemicals may be of particular concern during pregnancy and childhood.

Who takes part?

The research includes population studies involving children in Poland and Asturias, and pregnant women in Catalonia.

What do we study?

Pesticides

Agricultural and domestic-use chemicals

PFAS

Persistent fluorinated substances

Plastic-related chemicals

Bisphenols, phthalates and alternatives

Persistent organic pollutants

Including organochlorines and PBDEs

Metals

For example mercury, arsenic and lead

How do we work?

1 Human biomonitoring

Analysis of urine and blood samples.

2 Advanced methods

Chromatography and mass spectrometry.

3 Integrated data analysis

Study of chemical mixtures and exposure patterns.

Expected benefit

The project generates evidence to support environmental-health research, risk assessment and prevention strategies. It helps improve the tools used to understand real-life exposure to chemical mixtures.

Important: Participation in research does not provide an individual medical diagnosis. Results are analysed collectively and handled under applicable ethical and data-protection requirements.

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