

HBM4EU

Name of activity	European Human Biomonitoring Initiative (HBM4EU)
Reference framework	Horizon 2020
Lead DG/Organisation	UMWELTBUNDESAMT (UBA)
Link(s) to website(s)	Link
Programme Period	01.01.2017 – 30.06.2022
Contact	UMWELTBUNDESAMT (coordinator) (Contact forms)

Objectives

The overarching goal of HBM4EU is generating knowledge to inform safe management of chemicals and protecting human health. Human biomonitoring will be used to understand human exposure to chemicals and resulting health impacts. Communication with policy makers will ensure that the results are exploited in the design of new chemicals policies and the evaluation of existing measures.

Key objectives include: Harmonizing procedures for HBM across 26 countries and providing policy makers with comparable data on human internal exposure chemicals and mixtures at EU level. Furthermore, linking data on internal exposure to chemicals to aggregate external exposure and identifying exposure pathways and sources. Information on exposure pathways is critical to the design of targeted policy measures to reduce exposure. Generating scientific evidence on the causal links between human exposure to chemicals and negative health outcomes with the ultimate goal in adapting chemical risk assessment methodologies to use HBM data and account for the contribution of multiple external exposure pathways to the total chemical body burden.

By establishing National Hubs in each of the 26 participating countries, activities will be coordinated and will create a robust HBM Platform at European level.

This initiative contributes directly to the improvement of health and well-being for all age groups, by investigating how exposure to chemicals affects the health of different groups, such as children, pregnant women, fetuses and workers. It is also investigated how factor such as behaviour, lifestyle and socio-economic status influence internal exposure to chemicals across the EU population.

Keywords	Safe management of chemicals, Exposure, Design of new chemicals policies, Support, OSH
RoC Challenge(s)	Challenges 1.1, 4.1, 4.3
Participants	41 participants (full list see here)
Further info	Project website ; Related topic: SC1-PM-05-2016 - The European Human Biomonitoring Initiative ; Results (Deliverables, Publications, Datasets)