



ENDOCRINE DISRUPTING CHEMICALS AND THEIR HIDDEN HEALTH RISKS

Endocrine-disrupting chemicals (EDCs) interfere with the body's hormonal system, affecting growth, metabolism, reproduction, and immunity. Found in everyday products like plastics, cosmetics, and pesticides, EDCs can mimic or block hormones, leading to long-term health risks. Even at low levels, exposure has been linked to reproductive issues, metabolic disorders, and hormone-related cancers, with pregnant women and children being especially vulnerable.

ENDOMIX is uncovering how real-life EDC mixtures impact the immune system and cause disease.

ENDOMIX also develops strategies to reduce exposure, protecting public health.

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Project information

ENDOMIX is a pioneering research project that will provide a unique new evidence base and scientific proof on the health impact of exposure to endocrine-disrupting chemicals (EDCs), closing existing knowledge gaps between science and policy.

Coordinator

Helmholtz Zentrum für Umweltforschung (UFZ)

Partners

The ENDOMIX Consortium is composed of 10 partners from 7 European countries.



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EndomixProject



endomix.eu

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UNDERSTANDING HOW ENDOCRINE DISRUPTORS AND CHEMICAL MIXTURES OF CONCERN TARGET THE IMMUNE SYSTEM TO TRIGGER OR PERPETUATE DISEASE



Funded by the European Union (Grant Agreement 101136566). Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or the European Health and Digital Executive Agency (HADEA). Neither the European Union nor the granting authority can be held responsible for them.



OUR VISION

ENDOMIX envisions a future where the effects of EDCs are fully understood, leading to informed policies and protective measures that safeguard public health. By pioneering cutting-edge research and fostering collaboration, ENDOMIX aims to revolutionise our understanding of EDCs and their long-term implications.



OUR MISSION

ENDOMIX rigorously investigates how EDCs impact the function of the immune system, focusing on vulnerable life stages and various health outcomes.

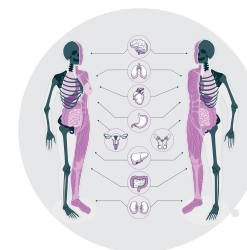
By generating and translating high-quality data, we provide science-based insights that drive evidence-based policies and empower decision-makers. Our goal is to bridge the gap between science and policy, ensuring a healthier environment for all.

OBJECTIVES



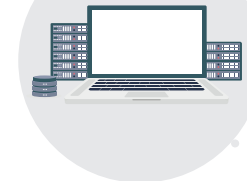
- 1 Investigate the Effect of EDC Mixtures on the Immune System:** Identify and analyse EDC mixtures in European populations across different life stages and how they impact immunity.
- 2 Understand Health Impacts:** Generate deep understanding of how EDC exposure affects immune function and leads to health issues like allergies, respiratory, cardiometabolic, reproductive problems, and autoimmunity.
- 3 Discovering Novel Biomarkers:** Discover biomarkers to measure the health effects of EDCs.
- 4 Build a Knowledge Base:** Create a unique evidence base to inform policy-making and provide actionable recommendations.
- 5 Empower Citizens:** Provide guidance and clear information to help the public reduce EDC exposure, improving public health and well-being.

IMPACT



Disruptive Insights: Deliver groundbreaking insights into the immunotoxic and immunomodulatory effects of EDC mixtures.

Biomarker Identification: Provide biomarkers of EDC exposure that can serve as diagnostic tools and be routinely integrated into future cohort studies.



Scientific Knowledge Base: Generate a solid scientific foundation for the impact of EDC mixtures on human health.

Policy Influence: Inform evidence-based policies to minimise exposure to hazardous chemicals.



Public Health Improvement: Significantly contribute to public awareness around EDCs, thereby improving public health and well-being.

Economic Benefits: Alleviate the economic burden of diseases associated with EDC exposure on the healthcare system.

