

EU-ToxRisk

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Research Areas



Tool Development

Innovation



Biomarker Research

Drug



Data-Sharing Enabler



Product Development

Data

At a Glance

- Status: **Active Consortium**
- Year Launched: **2016**
- Initiating Organization: **European Union**
- Initiator Type: **Government**
- Location: **International**

Abstract

EU-ToxRisk is a consortium funded by the European Union's Horizon 2020 Research and Innovation Programme. Beginning in 2016, the project will last 6 years and seeks to deliver drug-testing strategies that enable reliable, animal-free hazard and risk assessment of chemicals. The consortium is instigating the paradigm shift in human safety evaluation of chemicals. They take a multi-disciplinary project approach to developing human relevant testing strategies for repeated dose toxicity and Development & Reproductive Toxicology (DART) that incorporates: high throughput assays, high content imaging, in vitro systems testing, and computational toxicology.

Mission

The vision of EU-ToxRisk is to drive the required paradigm shift in toxicological testing away from 'black box' animal testing towards a toxicological assessment based on human cell responses and a

comprehensive mechanistic understanding of cause-consequence relationships of chemical adverse effects. EU-ToxRisk will integrate advancements in cell biology, omics technologies, systems biology, and computational modeling to define the complex chains of events that link chemical exposure to toxic outcome. The consortium will provide proof of concept for such a mechanism-based chemical safety testing strategy. The focus of this project is on two areas: repeated dose systemic toxicity, using the lung, kidney, liver, and nervous system as examples of potential target organs; and developmental and reproductive toxicity. It will also provide guidance for its universal application, allowing the entire field to push forward in an integrated manner.

Consortium History

Feb. 2017 - [EU-ToxRisk Represented at the SOT 2017](#)

Feb. 2017 – [EU-ToxRisk First Winter School and Third General Assembly](#)

Mar. 2017 – [First Issue of the EU-ToxRisk Newsletters Now Available](#)

Structure & Governance

Governed by the European Union's Horizon 2020 Programme

Financing

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 681002.

Impact/Accomplishment

For a full list of past events and accomplishments, click [here](#)

Links/Social Media Feed

Homepage <http://www.eu-toxrisk.eu/>

Points of Contact

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Sponsors & Partners

For a list of all EU-ToxRisk partners, click [here](#)

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