



NOTOX

Predicting long-term toxic effects using computer models based on systems characterization of organotypic cultures

Factsheet

Acronym

NOTOX

Full Title

Predicting long-term toxic effects using computer models based on systems characterization of organotypic cultures

Programme

FP7/Large-Scale Collaborative Project

Contract Number

267038

Abstract

The major aim of the NOTOX consortium is to develop and validate predictive mathematical and bioinformatic models characterizing long term toxicity responses. NOTOX will develop and establish a spectrum of systems biological tools including experimental and computational methods for organotypic human cell cultures suitable for long term toxicity testing and the identification and analysis of pathways of toxicological relevance. Data obtained in the course of the project will be organised in a toxicological database and/or incorporated into large-scale computer models that are based on material balancing and kinetics. Various “-omics” data and 3D structural information from organotypic cultures will be integrated using correlative bioinformatic tools. These data also serve as a basis for large scale mathematical models. The overall objective is to identify cellular and molecular signatures allowing prediction of long term toxicity, to design experimental systems for the identification of predictive endpoints and to integrate these into causal computer models.

Duration

60 months (01/01/2011 – 31/12/2015)

Project Funding

9,699,962.00 €

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Project Website

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The NOTOX project is funded by the European Commission within its Seventh Framework Programme (FP7) and Cosmetics Europe as part of the SEURAT-1 cluster. Grant Agreement number 267038.