Toxicogenomics Investigation Under the eTOX Project - DTU Orbit (12/11/2018)

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Attrition of drug candidates during pre-clinical development due to toxicity, especially hepatotoxicity and nephrotoxicity, is an important and continuing problem in the pharmaceutical industry. The reasons for this trend may be multifactorial and there is a need to improve toxicity testing paradigms within the industry. Microarray technologies have the ability to generate massive amounts of gene expression information as an initial step to decipher the molecular mechanisms of toxicologic changes, i.e. toxicogenomics. In the context of the eTOX consortium, one of public private partnership within the framework of the European Innovative Medicines Initiative (IMI), we will discuss here how the integration and analysis of toxicogenomics data can help to understanding the mechanism of toxicity of a compound and so reduce the risk of late-stage failure in pharmaceutical development.

General information
State: Published
Organisations: Center for Biological Sequence Analysis, Department of Systems Biology, Novo Nordisk Foundation Center for Biosustainability, CFB - Metagenomic Systems Biology, Wellcome Trust Genome Campus
Number of pages: 5
Publication date: 2012
Peer-reviewed: Yes

Publication information
Journal: Journal of Pharmacogenomics & Pharmacoproteomics
ISSN (Print): 2153-0645
Ratings:
ISI indexed (2013): ISI indexed no
ISI indexed (2012): ISI indexed no
ISI indexed (2011): ISI indexed no
Original language: English
Keywords: Toxicogenomics, Gene expression;, Drugs, Rats
Electronic versions:
prod21341002918555.2153_0645_S7_001_1_.pdf
DOIs:
10.4172/2153-0645.S7-001
Source: dtu
Source-ID: u::4290
Research output: Research - peer-review  Journal article – Annual report year: 2012