

Toxicity Prediction

An Open Source Community supporting Predictive Toxicology
Application Development & Collaboration

REACH regulations



New European regulations (**REACH***) will require more extensive testing of chemicals and products before they can be manufactured in or imported into Europe. In order to minimize the huge animal testing burden and the associated political issues, the European government has funded the **OpenTox**** project (under FP7) to provide validated software tools as an alternative. While a single *in silico* prediction may not be acceptable alone, it could be accepted as part of an integrated testing approach, to contribute weight of evidence to a risk assessment from a combination of *in silico* and *in vitro* scientifically defensible methods.

What is OpenTox?

The **OpenTox** project will provide predictive computational tools (based on QSAR, read-across and other *in silico* methods) precalibrated to predict various toxicity endpoints.

The project, which started in September 2008, will facilitate the development of predictive models for toxicology endpoints of importance for risk assessment and product development. **OpenTox** will be designed for use by toxicologists and other non-QSAR-experts and non-computational-experts without special training. For example, it is envisaged that **OpenTox** will be able to automatically print results and validation information according to the requirements of the new **REACH** regulations. **OpenTox** is an open source project supporting the delivery of services and applications to companies and institutions to facilitate their compliance with the new regulations. **ToxPredict**, a prototype *in silico* tool for toxicity prediction, can be evaluated at <http://www.toxpredict.com>



Can you help?

The current **OpenTox** research program wants to find out more about how to make **OpenTox** useful to and usable by institutions such as yours. So, as an individual or organization that is involved with toxicity data or assessment, we are asking you to complete a short questionnaire on behalf of your institution, or direct us to someone who could better help. The questionnaire is at: <http://opentox.org/toxicity-prediction/userinput>



For further information, please contact:

David Gallagher at dgallagher@CACHeResearch.com , Tel: +1 503 830 2772
or Barry Hardy at barry.hardy@douglasconnect.com , Tel: +41 61 851 0170

* http://ec.europa.eu/environment/chemicals/reach/reach_intro.htm

** <http://www.opentox.org/>

OpenTox - An Open Source Predictive Toxicology Framework, www.opentox.org, is funded under the EU Seventh Framework Program: HEALTH-2007-1.3-3 Promotion, development, validation, acceptance and implementation of QSARs (Quantitative Structure-Activity Relationships) for toxicology, Project Reference Number Health-F5-2008-200787 (2008-2011).