

OpenRiskNet

RISK ASSESSMENT E-INFRASTRUCTURE



OpenRiskNet Case studies introduction and concept

Paul Jennings (VU)

General Assembly and 3rd and final annual meeting - October 2019, Amsterdam.

OpenRiskNet: Open e-Infrastructure to Support Data Sharing, Knowledge Integration and *in silico* Analysis and Modelling in Risk Assessment

Project Number 731075



CASE STUDY?





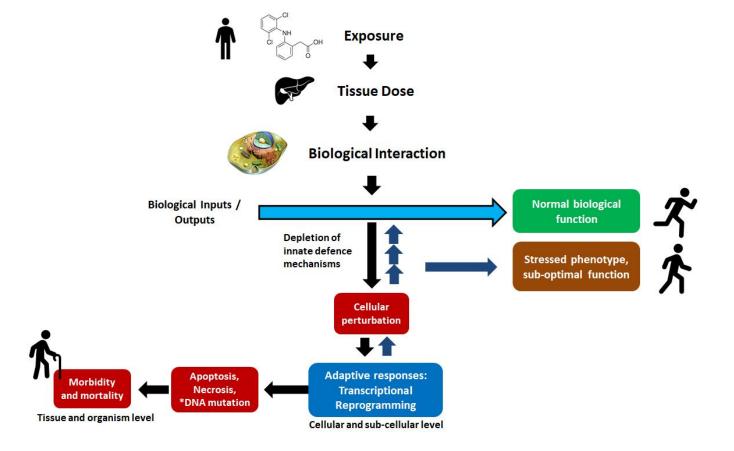












Mechanistic Toxicology

Case Studies: What is a case study?



A particular instance of something used or analysed in order to illustrate a thesis or principle.

Is meant as:

- an in depth study of a particular situation
- method used to narrow down a very broad field of research into a researchable topic
- a guide to allow further elaboration and hypothesis creation on a subject
- an exercise to facilitate different disciplines to combine forces

Is <u>not</u> meant as

- a sweeping statistical survey
- a complete answer to a particular question completely





Comput Toxicol. 2017 Nov; 4: 31-44. Published online 2017 Nov. doi: 10.1016/j.comtox.2017.10.001 PMCID: PMC5695905 PMID: 29214231

Ab initio chemical safety assessment: A workflow based on exposure considerations and non-animal methods

Elisabet Berggren, a.* Andrew White, Gladys Ouedraogo, Alicia Paini, Andrea-Nicole Richarz, Frederic Y. Bois, Thomas Exner, Sofia Leite, Leo A. van Grunsven, Andrew Worth, a and Catherine Mahony





"From the beginning"



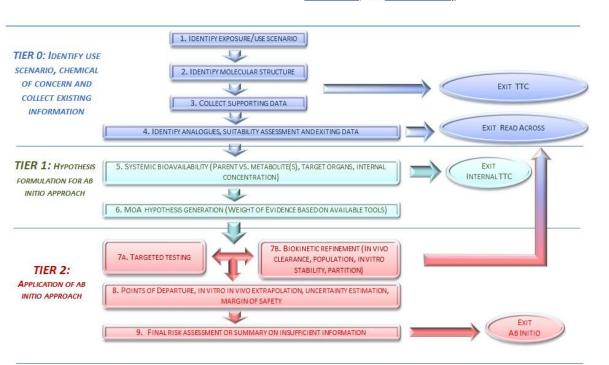
Comput Toxicol. 2017 Nov; 4: 31–44.

Published online 2017 Nov. doi: 10.1016/j.comtox.2017.10.001

PMCID: PMC5695905 PMID: 29214231

Ab initio chemical safety assessment: A workflow based on exposure considerations and non-animal methods

Elisabet Berggren, a, * Andrew White, b Gladys Ouedraogo, c Alicia Paini, a Andrea-Nicole Richarz, a Frederic Y. Bois, d Thomas Exner, e Sofia Leite, Leo A. van Grunsven, Andrew Worth, and Catherine Mahony

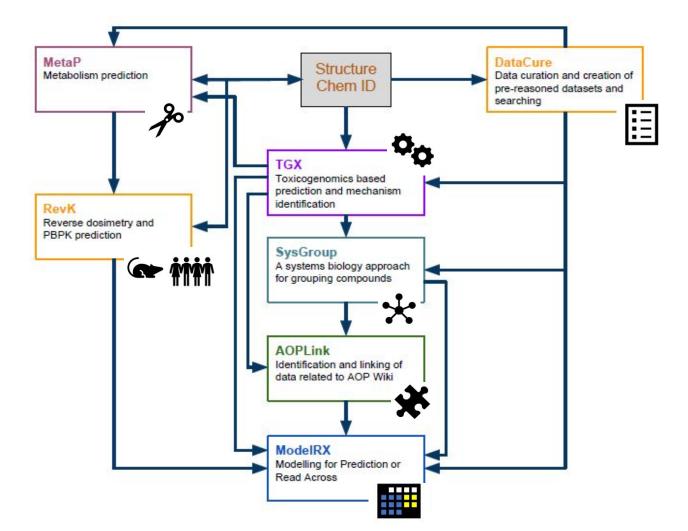


CONCLUSION: This general "ab initio" workflow was developed as a means of structuring knowledge and data in a logical sequence for an integrated safety assessment applying non animal methods. Workflow could be the basis for a full risk assessment and is aiming to provide a tool to guide the evaluation through the different steps to be considered and enable and gain confidence in decision making.

The workflow is general enough to cover different types of chemicals, endpoints and exposure scenarios.

www.openrisknet.org

T1.3 Case Studies





Acknowledgements

OpenRiskNet (Grant Agreement 731075) is a project funded by the European Commission within Horizon 2020 Programme

Project partners:



P1 Edelweiss Connect GmbH, Switzerland (EwC)

P2 Johannes Gutenberg-Universität Mainz, Germany (JGU)

P3 Fundacio Centre De Regulacio Genomica, Spain (CRG)

P4 Universiteit Maastricht, Netherlands (UM)

P5 The University Of Birmingham, United Kingdom (UoB)

P6 National Technical University Of Athens, Greece (NTUA)

P7 Fraunhofer Gesellschaft Zur Foerderung Der Angewandten Forschung E.V., Germany (Fraunhofer)

P8 Uppsala Universitet, Sweden (UU)

P9 Medizinische Universität Innsbruck, Austria (MUI)

P10 Informatics Matters Limited, United Kingdom (IM)

P11 Institut National De L'environnement Et Des Risques INERIS, France (INERIS)

P12 Vrije Universiteit Amsterdam, Netherlands (VU)

