Establishing a Go-To Hub: The Development of a Repository of Guidance and Standard Documents in Support of Good Modelling Practice (GMP) in Exposure Science

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Why do we need this Repository

The European Exposure Science Strategy 2020-2030 aims to improve the effective use of computational exposure models in chemical safety assessment. To achieve this, it is crucial to promote good modeling practices (GMP) such as identification of appropriate model input parameters, selection of exposure models, evaluation and interpretation of model results, and effective communication of results to stakeholders. A key tool to achieve GMP is a freely available Repository of data sources and guidance/best practices on the above elements. GMP increases reproducibility, transparency, and reliability of exposure models, leading to increased trust and acceptance.

The Key Focus Areas of the Repository

The Repository is under development and is strategically organized into five themes that guide users through every aspect of the modeling process:

Substance Parameters	Exposure Factors	Exposure Modelling	Model Evaluation	Result Communication

Data sources **Guidance and Best Practice**

The Content of the Repository

The Repository aims to compile and curate high-quality datasets, scientific publications, reports, methodologies, guidance documents and standards, and similar references, relevant to exposure modelling for chemical exposure assessment. In **Figure 1**, a screenshot from the Repository can be seen.

European references are prioritized, but references from outside of Europe are included as data sources.

The Repository is focused on resources for exposure modelling and as such does not include toxicity properties, threshold values, or measured exposure values.
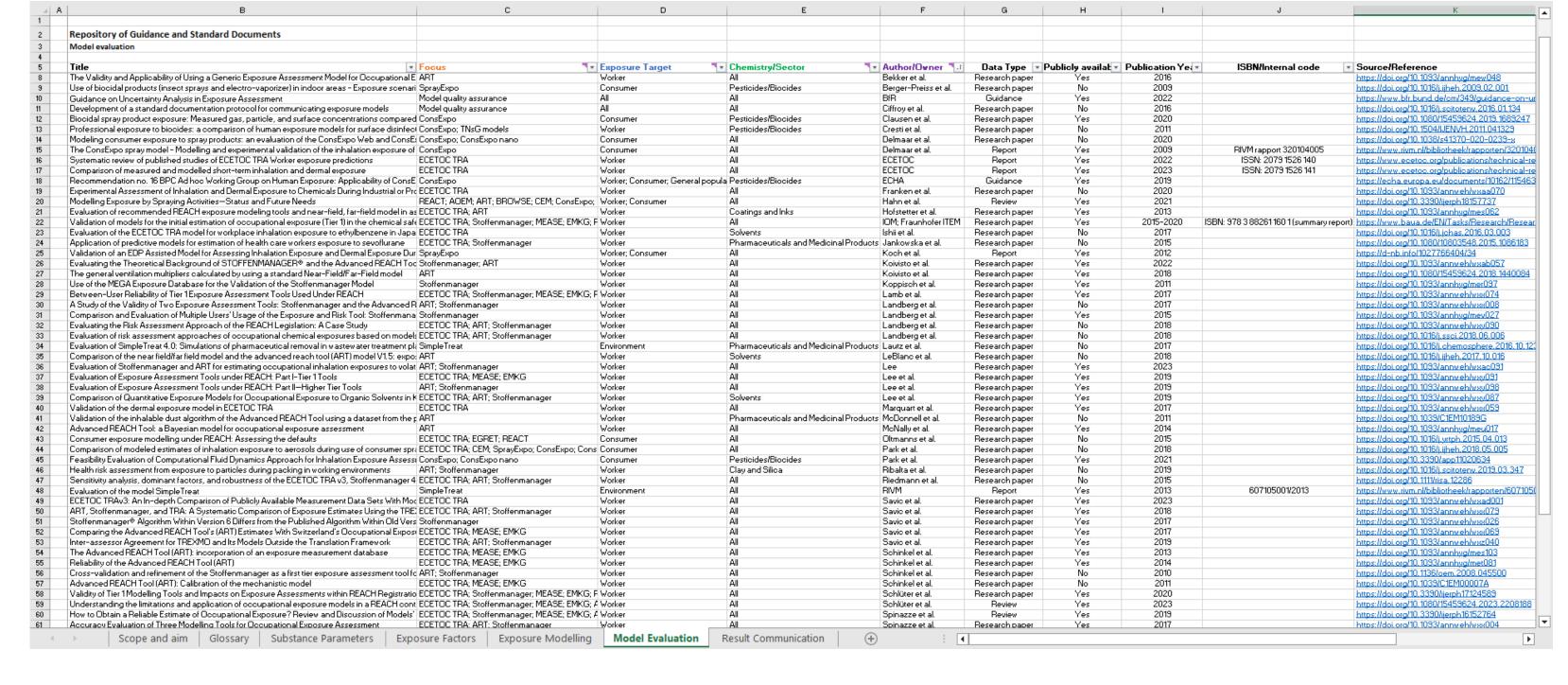

Figure 1: Screenshot from the Repository under development listing references for the "Model Evaluation" key focus area

Your input needed!

The Repository aspires to be a central resource hub for exposure scientists committed to practicing good modeling practices (GMP). To achieve this, it is essential to gather input and contributions from a diverse range of stakeholders to ensure the repository's comprehensiveness and relevancy.

Join us in building and enriching the Repository

Download the current draft via the QR code and send your input and feedback to the provided email address.

ises.repository@gmail.com

Together, we can create a positive impact on exposure science and foster a more transparent and trustworthy scientific community.