

## Survey and Development of a Peer Review Process for Exposure Models

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SciPinion LLC is supporting the development of a fit for purpose process for independent scientific peer review of human health and environmental chemical exposure models to transparently document the confidence in use of such models for regulatory and product stewardship applications. The project will first involve reviewing how existing exposure models were parameterized, peer reviewed, and documented to get them to their current state as being a trusted exposure model for regulatory applications. This will include a review of up to six exposure models. SciPinion will develop a set of criteria to be used for selecting the exposure models to be reviewed in this effort and then select the models for review, and document specific attributes and elements of peer review of exposure models that will then be used to frame discussions of a potential set of best practices. SciPinion will recruit the world's experts in exposure modeling and engage them through a SciPi expert engagement process (see <https://scipinion.com/>) to evaluate the initial findings and answer a series of questions designed to elicit a set of best practices for parameterization, documentation, and peer review of exposure models. The findings from this SciPi will be used to develop a best practices for independent peer review of exposure models.

**Implications:** The development of a trusted process on how to peer review exposure models will increase general acceptance and scientific confidence in new exposure models. As exposure science continues to move forward, this will allow for model developers, industry, and regulatory agencies to apply best practices in scientific peer reviews of exposure models.

**Collaborations:** SciPinion LLC, ACC LRI

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