



# SETAC JOURNALS

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## Call for Papers SPECIAL SERIES

### Statistical Analysis of Ecotoxicology Data for Regulatory Purposes

Guest Editors: Jannicke Moe, Raoul Wolf, and David R. Fox

ABSTRACTS DUE **November 30, 2024** / SUBMISSIONS DUE **March 31, 2025**

**SUBMIT YOUR MANUSCRIPT TO:** Special Issue/Section: "Statistical Methods in Ecotoxicology"  
**Integrated Environmental Assessment and Management:** <https://mc.manuscriptcentral.com/ieam>

**ISSUE DETAILS:** Statistical methodologies and tools applicable to ecotoxicology have developed and improved over recent decades. Nevertheless, regulatory risk assessments are still largely based on statistical principles and approaches that are no longer state-of-the-art. SETAC meeting sessions dedicated to statistical methods have witnessed a high level of interest and discussion regarding the progress and applications of statistical methodologies. Many ecotoxicologists have expressed interest in the revision of the 2006 OECD document no. 54 ("Current approaches in the statistical analysis of ecotoxicity data: a guidance to application"), planned for 2026. This guidance is no longer considered reflective of contemporary statistical methods or computational platforms used in ecotoxicology. A recent proposal to establish a SETAC interest/working group for statistics (Seville 2004) has been met with enthusiasm and reflects SETAC members' interest in, and appreciation of, statistics in ecotoxicology. The purpose of this Special Series is to provide an overview of the statistical ecotoxicology landscape and reflect on recent developments, processes and opinions. Relevant topics can include (but are not limited to): similarities and differences of toxicity metrics (NOEC, BMD, NEC, EC<sub>x</sub>, NSEC, and more); developments and tools for dose-response modelling; developments and tools in SSD modelling (model averaging, mixture models); Bayesian vs. frequentist approaches; and case studies of novel statistical methodologies highlighting their benefits. We welcome and encourage contributions and viewpoints from members of all sectors, including academia, industry and government.

**AUTHOR GUIDELINES:** Papers must address one or more of [IEAM's core areas](#) by discussing how the work can inform environmental assessment and management. The manuscript type can be an Original Article, Critical Review, Brief Communication, or Workshop Synthesis. IEAM enlists double-anonymous peer review and offers open access. Please see the [Instructions for Authors](#) for more details.

Please confirm your intent to participate and propose a working title, author list, and abstract to Raoul Wolf [raoul.wolf@ngi.no](mailto:raoul.wolf@ngi.no) and Jannicke Moe [jmo@niva.no](mailto:jmo@niva.no) by **November 30, 2024**. Authors will receive submission guidelines once participation is confirmed.