# EINLADUNG

**Kolloquium
Wintersemerster 2021 / 2022**

## Dr. Lisa Baumann

University of Heidelberg, COS,
Aquatic Ecology & Toxicology

hält am Dienstag, den **16.11.2021**, um 16:15 Uhr, im Biologicum, Max-von-Laue-Str. 13, Campus Ried-berg, Hörsaal 1 einen Vortrag über

## „ EU H2020 project „ERGO": breaking down the wall between human health and environmental testing of endocrine disruptors"

Over the last three decades, environmental chemicals affecting the hormone system (so-called endocrine disrupting chemicals; EDCs) have attracted significant scientific as well as public and regulatory attention, as the impact of these compounds has been recognized as a serious problem for wildlife populations and human health. For the identification of an EDC, it is crucial to link the molecular initiating event to the adverse outcome for the organism in order to be able to classify it as an EDC in the context of risk assessment. Various recently launched EU research projects address the need for the optimization of aquatic vertebrate test systems for the identification of EDCs. The EU H2020 project ERGO presents a new approach that will support a paradigm shift in the regulatory use of standardized test guidelines (TGs) by breaking the existing wall between mammalian and non-mammalian vertebrate testing and assessment of EDCs. The highly conserved thyroid hormone system is used as the "proof of concept" to establish a cross-vertebrate class approach. ERGO investigates a battery of draft in vitro assays and evaluates thyroid-responsive biomarkers and endpoints suitable for extrapolation of effects from fish and amphibian tests to humans and other mammals (and vice versa). Once established, those endpoints and biomarkers will be validated for inclusion in existing in vivo or new in vitro OECD TGs. A cross-class adverse outcome pathway (AOP) network is currently being established to provide the scientifically plausible and evidence-based foundation for the selection of biomarkers and endpoints in lower vertebrate assays predictive of human health outcomes. Specific focus is set on the establishment of AOPs for thyroid disruption in fish, a field with many knowledge and data gaps.

Einladender: Prof. Dr. Henner Hollert

**Dieser Vortrag findet in einem Hybrid-Format statt.** Sie können entweder im Hörsaal oder über die Zoom-Veranstaltung teilnehmen. Über diesen Link kommen Sie zu der entsprechenden Veranstaltung:

https://uni-frankfurt.zoom.us/j/99304717279?pwd=d25vTXFqSVFjTUhIM-GoyWkZTbHA2UT09