

Proposals for NORMAN Joint Programme of Activities 2023

Title	Leveraging the NORMAN BioActivity Database –proposal -	
Type of activity	Organisational / Administrative	
Leader	KWR	
Topic / activities	<p>Background / Justification for the proposed activity: Knowing the induced response of individually tested compounds in bioassays is important for the validation and interpretation of responses of those bioassays to environmental samples or deriving trigger values. In 2020, NORMAN initiated the development of the BioActivity Database which can receive and host such data, and make it searchable.</p> <p>Description of the proposed activity and expected outcomes for 2023: The BioActivity Database data collection template is a means to collect all required data from single-substance bioassay experiments. A prototype was delivered in 2020. This prototype needs to be revised and optimised according to the practice of datasets that are added. The same goes for the user interface of the BioActivity Database. Moreover, lists of controlled vocabulary need to be developed in order to streamline the different entries in the data collection template and to make entries compatible and standardized. Some of the information in the BioActivity Database will be automatically generated based on the information that is filled in the data collection template. For instance, characteristics of a known bioassay type. An automation for generation of such information needs to be programmed.</p> <p>At the end of the activities, a campaign will be launched towards NORMAN members and beyond to stimulate submitting data to the database. As a seed, and as a test case, data from two large scale experiments will have been added by the project team before the project proposed in this factsheet will start. We aim to have at least >200 entries (chemicals with bioactivity) in total at the end of the campaign. The campaign will be deemed very successful if there are >2000 entries. This will be a number that makes the BioActivity Database a relevant source of data.</p> <p>Added value / Link with other NORMAN activities and / or other projects This project links to research and discussions in NORMAN working group WG-2 (Bioassays and biomarkers in water quality monitoring). In 2020 a questionnaire among NORMAN members pointed out a large support for the prospected BioActivity Database. The BioActivity Database can eventually interlink with the 'Bioassay Database' which holds bioassay responses for environmental samples. The establishment of this link is not part of the current proposal.</p>	
Participants	Dr. ir. Tessa Pronk Dr. Peter von der Ohe Dr. Jaroslav Slobodnik Astrid Reus, MSc. Dr. Miina Yanagihara	<i>KWR Water Research Institute (the Netherlands)</i> <i>Environment Agency (Umweltbundesamt – UBA) (Germany)</i> <i>Environmental Institute, Kos (Slovakia)</i> <i>KWR Water Research Institute (the Netherlands)</i> <i>KWR Water Research Institute (the Netherlands)</i>
Proposed in-kind contribution	KWR will, in 2023, interact with contributors that have questions on filling in the data collection template with data. NORMAN members will be asked to submit their in-house data on individual substances in bioassays to further expand the database. NORMAN members will be asked to give their feedback on the BioActivity Database improved prototype, and data collection template.	
Contribution needed from NORMAN Association¹	Activity 1: Revise the data collection template Activity 2: Revise the user interface Activity 3: Construct controlled vocabulary for the data collection template Activity 4: Program automatically generated information based on entries Activity 5: Launch campaign to solicit data entry KWR: Coordination, involvement in all activities 1, 2, 3, 4, 5 (4000 euro) UBA: involvement in activity 1, 2, 3 (2000 euro) EI: involvement in implementation of activity 2, 4 (4000 euro) Total: 10.000 EUR	

¹ Please, provide here a transparent justification of the requested resources and of the in-kind contribution, thereby distinguishing between the costs associated with "person-months" for the organisation, the "travelling costs" for invited speakers and the costs for the logistics (e.g. meals, room rental etc.)