



## Proposals for NORMAN Joint Programme of Activities 2024

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| <b>Title</b>   | <b>NORMAN Suspect List Exchange (NORMAN-SLE)</b> <a href="https://www.norman-network.com/nds/SLE/">https://www.norman-network.com/nds/SLE/</a>  |
| <b>Type of activity</b>  | Website / service maintenance / development   |
| <b>Leader</b>  | Emma Schymanski & Hiba Mohammed Taha (LCSB, Luxembourg)   |
| <b>Topic / activities</b>                                      | <p><b>Background / Justification for the proposed activity:</b><br/>           The NORMAN Suspect List Exchange (NORMAN-SLE) is an initiative of the 2015 Joint Programme of Activities and is an established central access point for NORMAN members (and others) to find suspect lists relevant for their environmental monitoring question. The NORMAN-SLE and the compiled suspect list "NORMAN SusDat" have become the cornerstone/data basis for all NORMAN Database System (NDS) modules and prioritization efforts. Both have been very highly prioritized by members in recent JPAs. The split between NORMAN SusDat and NORMAN-SLE is primarily for logistical reasons (to clearly demarcate data gathering and delivery, the NORMAN-SLE, and the role of a substance database (NORMAN SusDat). The NORMAN-SLE activity involves the addition of new lists to the Suspect List Exchange, which then feed into SusDat, which has become the chemical data basis behind all NDS modules. The 2022 NORMAN-SLE publication (DOI: <a href="https://doi.org/10.1186/s12302-022-00680-6">10.1186/s12302-022-00680-6</a>) has 97 co-authors, indicating the relevance and breadth of community involvement.</p> <p><b>Description of the proposed activity and expected outcomes for 2024:</b><br/>           In 2024 we plan to continue and expand on the efforts from recent years, including:</p> <ul style="list-style-type: none"> <li>• Website maintenance and development</li> <li>• Addition of new lists from external contributors when they become available</li> <li>• Addition/update of contents in existing lists as required</li> <li>• Addition of new lists strategically selected to fill identified knowledge gaps</li> <li>• Addition/update of lists to specifically save/register/link transformation product information</li> <li>• Archiving of all datasets on Zenodo (<a href="https://zenodo.org/communities/norman-sle">https://zenodo.org/communities/norman-sle</a>)</li> <li>• Automation of various aspects of the SLE (statistics, curation, etc)</li> <li>• Deposition of all substances in PubChem</li> <li>• Integration of lists into PubChem</li> <li>• Provision of merged deposition as input to SusDat to assist in merging new entries</li> <li>• Continuing development of new strategies to deal with UVCBs</li> <li>• Further development of strategies to deal with tentative/unknown/related structures</li> <li>• Work together with the NORMAN SusDat team to develop open software/packages/approaches for curation/merging between NORMAN-SLE and NORMAN SusDat</li> <li>• Publication: aiming for a SusDat publication in 2024 (see SusDat JPA); plans for a NORMAN-SLE update publication (new lists, developments since 2022) in ~2025.</li> </ul> <p><b>Added value / Link with other NORMAN activities and / or other projects</b></p> <ul style="list-style-type: none"> <li>• The Suspect List Exchange will feed SusDat, the chemical source for other NDS modules</li> <li>• MassBank and the Suspect List Exchange are cross-linked</li> <li>• The Digital Sample Freezing Platform, Retrospective Screening and NormaNEWS</li> <li>• Prioritization working group</li> <li>• Various other activities within Cross-Working Group Activity NTS</li> <li>• Integration of NORMAN substances, annotation content, classification browser into PubChem is supporting the development of future NTS tools (e.g., PubChemLite, Classification browsers)</li> <li>• Considerable overlap with ELIXIR activities, especially ELIXIR-Toxicology community</li> <li>• NORMAN-SLE is a key element in the PARC initiative, the ZeroPM project and several and other EU initiatives</li> </ul> |
| <b>Participants</b>  | LCSB, EI, other interested parties and contributors<br>Co-operation with PubChem, PARC activities   |
| <b>Proposed in-kind contribution</b>                           | LCSB: coordination of upload of new lists to the website, basic maintenance, promotion<br>EI: website updates and maintenance, coordination with SusDat<br>PubChem: time and resources associated with integration efforts<br>Other partners: contribution of lists and ideas   |
| <b>Contribution needed from NORMAN Association<sup>1</sup></b> | None (these efforts are currently supported by PARC)  |

<sup>1</sup> 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.)