Short description of the project

PANGAEA is a Data Publisher for Earth & Environmental Science and safeguards georeferenced and multidisciplinary data. The services for de.NBI are currently improved by content-related enhancement especially in respect to biomolecular data.

Therefore PANGAEA performs:

- Exploration of the PANGAEA biological content
- Mapping of PANGAEA ontologies to de.NBI partners
- Cross linking of environmental data to other de.NBI databases
- Definition and training of new curational workflows & strategies
- Adoption of data publication services for de.NBI

Progress report

Exploration of PANGAEA content:

- 23,500 parameters describing "biochemistry"- data in over 110,000 datasets have been analysed
- Chemical compound and enzyme names have been spell checked according to the latest IUPAC and IUBMB nomenclatures
- Compound terms have been crosslinked to existing ChEBI-terms (Chemical Entities of Biological Interest)

Example:

<table>
<thead>
<tr>
<th>parameter name</th>
<th>systematic IUPAC name</th>
<th>old nomenclature</th>
<th>trivial name</th>
</tr>
</thead>
<tbody>
<tr>
<td>n-fatty acid C16:1w7cis</td>
<td>(9Z)-hexadec-9-enoic acid</td>
<td>cis-9-hexadecenoic acid</td>
<td>palmitoleic acid</td>
</tr>
</tbody>
</table>

The current steps are:

- Development of curator workflows and guidelines for the precise naming of biomolecules like enzymes
- A parameter construction and measurement quantity recommender tool for curators.

Publications


General information on the project

No. of staff paid from de.NBI grant: 1 FTE
Other staff involved: 2 FTE