

NSC WG4 on Databases

Syracuse, 7 October 2014

Community Building

- regular monthly telcons
 - typically 5-10 people on the call
- three joint tasks
- 91 people on the mailing list



Tasks

1. **2013-1** [Updated list of \(NSC\) Databases](#)
2. **2013-2** [Overview and recommendation of data quality](#)
3. **2014-1** [Publisher needs for repository storage of nanosafety supplementary data](#)

Database Survey Results

Summary of the Spring 2014 NSC Database Survey

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Abstract

The NanoSafety Cluster Database working group organized in Spring 2014 a survey for the community to summarize the current state of databases and including questions of a more

What did the survey ask?

1. general info (website, owners, ...)
2. type of content
3. how can data be looked at
 - a. HTML, PDF, Excel, ...
4. Application Programming Interfaces (APIs)
 - a. REST, SOAP, ...
 - b. Format standards
5. Semantics
 - a. ontologies, ...
- 6.

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5. Semantics
 - a. ontologies, ...
6. Licensing
 - a. *is the licensing clearly stated?*

Parallel session today

- introduction round
- eNanoMapper demo by Nina Jeliazkova
 - see also talk on Thursday!
 - see <http://data.enanomapper.net/>
- discussions
 - interoperability, linking databases
 - ISA-TAB(-Nano) templates
 - figuring data rights at the end

| Name (Institute) | NSC Project(s) | WG4 Tasks | Interests |
|--|--|------------------------|--|
| Christoffer Åberg (University College Dublin) | NanoTransKinetics | 2013-2 | Modelling of nanoparticle-cell interactions |
| David Carlander (Nanotechnology Industries Association) | MARINA, NanoEIS, NanoLyse, NANoREG, Scaffold | | Risk assessment, legislation, regulatory toxicity, applications, innovation, SME support |
| Barry Hardy (DouglasConnect) | eNanoMapper | | |
| Sonja Hartl (BioNanoNet Forschungsgesellschaft mbH) | NANoREG | | Regulatory and Standardization Aspects of ENM; Risk assessment, Toxicity; Innovation, Communication & Dissemination |
| Nina Jeliazkova | eNanoMapper | | databases, ontologies, APIs, prediction, toxicology, QSAR |
| Richard Marchese Robinson (Liverpool John Moores University) | NanoPUZZLES | | chemoinformatics, QSAR, data models, |
| Axel P. Mustad (NQCG) | MARINA, NANoREG, eNanoMapper | 2013-1 | Ontology learning, Databases, Semantic Web Technologies, Nanotechnology, Standardisation, e-Infrastructures, Technoeconomics, Risk Assessment and Transfer |
| Willie Peijnenburg (RIVM) | | | |
| Robert Rallo (Universitat Rovira i Virgili) | MODERN | | nano-QSAR, Machine learning, databases |
| Hubert Rauscher (JRC) | | | |
| David Vorgrimmler (In Silico Technologies) | Mod-Nano-Tox, eNanoMapper | | |
| Egon Willighagen (Maastricht University) | eNanoMapper | | Machine learning, Toxicity Pathways, Computational Representation |