

NanoSafety Cluster Working Group (WG) 4 (Databases) Teleconference

10th of September 2013

1. Participants

1.1.Planned:

- <http://doodle.com/hcr427wgqmbhvzry>
- N.B. H. Rauscher, who was unable to attend today but may attend future teleconferences, is from the EC JRC.

1.2.Present:

- Egon Willighagen (eNanoMapper)
- Marcella Mauro (PhD student, has been working on nanotoxicology for a few months)
- Johannes Pelzer (working on an exposure database for nanomaterials rather than a toxicity database)
- Richard Marchese Robinson (NanoPUZZLES, NanoDATA work package)
- Iseult Lynch
- Christoffer Åberg (NanoTransKinetics)
- Teresa

2. Agenda

https://docs.google.com/document/d/1fQug7B4vHGSAKxMKilzgiPh6QIOGMpYJCp7Y_H7qHY/edit?pli=1

3. Key Points Raised

- Iseult L. – provided a key overview of the activities of WG4 to date:
 - Mostly, they have been pre-occupied with drafting the “Research Road Map” which was presented at the NanoSafety Cluster meeting in Dublin in June 2013.
 - This is the first WG4 teleconference.
 - To date, the NanoSafety Cluster meetings did not have break-out sessions for the different WGs. Hence, the Birmingham 20/09/13 session is welcome.
 - At the [“qNano Conference” \(presumably in 2013\)](#), they **held a session to get feedback regarding what researchers wanted from a database**. The key requirements Iseult noted were as follows:
 - (1) Want ELN type system, rather than populating database at the end of the project

- (2) Want to capture raw data files (images, movies) etc.
 - (3) Aim of db: facilitate modelling.
- Richard MR – noted that ISA-Tab-Nano does allow links to raw data files.
- Teresa – commented on possible interactions of WG4 with US counterparts?
- Egon W. – **mailing list may be more appropriate for discussing details/coming to decisions.**
- Egon W. – eNanoMapper: will develop solutions, but also want to make sure solutions are helpful. This may entail contacting other projects, perhaps outside WG4.
- Egon W. – **suggested participants in NSC WG4 join the US “Nano WG”.** “They are really open”.
- Egon W. – **from eNanoMapper perspective: they are interested in OpenTox framework; ISA-Tab-Nano seems to be a very good/complementary format, but NSC WG4 should explore the (possible) limitations of ISA-Tab-Nano for NSC database efforts.**
- Christoffer Aberg – **pretty sure June meeting of NanoSafety Modelling Cluster did agree the use of ISA-Tab-Nano [and also ontologies/NPO]; definitely a very strong interest; he will check his notes.**
- Egon W. – **agrees feedback from industry, regulators or “end users” in general is key.** But what about contradictory requirements? He **suggested ToxBank (as an extension of the OpenTox project) is a good example of a project which engages/considers the different needs of specific end users;** ToxBank defines “personas” = characteristics of specific users with specific (different) needs. **Perhaps WG4 could indeed define which end users we are targeting;** arguably the primary goal is supporting data analysis (modelling?) but we also need to consider the needs of experimentalists entering the data.
- Johannes Pelzer – we need to define what kind of database (i.e. exposure and/or toxicity data focus?) and how best to combine them? We need to find connection points – i.e. **make sure** databases interoperable and **exposure data can be linked to toxicity data for the “same” nanomaterial.**
- Richard MR – **defining whether or not a pair of nanomaterial samples correspond to “the same nanomaterial” is the same is difficult!** Egon W. agreed with Richard MR.
- Christoffer Aberg - **highlighted data quality issue;** Egon W. highlighted the data quality criteria proposed by the NanoMaterials Registry and noted they can calculate a data quality score : <https://www.nanomaterialregistry.org/about/WhatIsCuratedData.aspx>

Comment [RLMR1]: My sound was poor quality in general so I did not fully get this point!

Comment [RLMR2]: I did not really hear all the points Christoffer Aberg was making on this issue!

4. Future meetings of WG4

4.1. Teleconferences

- The second Tuesday of every month at the same time (14:50-16:00 CEST and 14:50 CET when applicable).

4.2. Physical meetings

- Birmingham 20th of September 2013
- After B'ham, next WG4 physical meeting will be held in parallel with:

- NANOTOX 2014 (Antalya), 7th International Nanotoxicology Congress" to be held on April 23rd-26th, 2014 <http://www.nanotox2014.org/>

5. Actions

- No specific actions agreed?