

## WG8 SYSTEMS BIOLOGY

EU NanoSafety Cluster  
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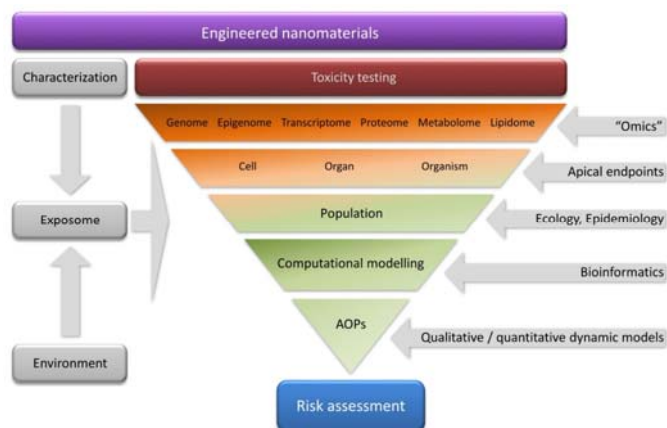
### WG8 Systems Biology

- WG8 seeks to bring together nanosafety researchers working on systems biology approaches including toxicologists and ecotoxicologists, omics and systems biology experts, as well as material scientists, in order to develop and promote best practices for systems biology in nanosafety research
  - Chair: Prof. Bengt Fadeel (FP7-NanoSolutions), Karolinska Institutet; Co-Chairs: Dr. Dario Greco, Univ. Helsinki, and Dr. Shan He, Univ. Birmingham
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### WG8 recent activities

- Conference on «Systems Biology in Nanosafety Research» at Nobel Forum, Karolinska Institutet, Nov 2015 (Chair: Bengt Fadeel, Co-Chair: Juha Kere) (2 keynotes: Olli Ikkala, Martin Philbert, plus 22 invited lectures, with speakers from EU, USA, Canada, and China)
- Joint NANOMILE and NANOSOLUTIONS workshop at Karolinska Institutet, September 2016 (chairs: Eva Valsami Jones, Kai Savolainen) (on data sharing etc; breakout group on omics chaired by Dario Greco and Shan He, focus: best practices in systems toxicology)

### Adverse outcome pathways and systems biology approaches in nano-risk science (chairs: Sabina Halappanavar & Bengt Fadeel)



### WG8 planned activities

- Modeling and Systems Biology session at the «2<sup>nd</sup> Nanosafety Forum for Young Scientists», Visby, Gotland (September 2016) (chair: Robert Rallo)
- XIV International Congress of Toxicology, IUTOX, Merida, Mexico (October 2016): invited lecture on systems biology approaches in nanosafety (Bengt Fadeel)

 IUTOX-MEXICO2016

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### WG8 workplan

- Standardization activities aimed at good working practices in systems biology in nanosafety research; sharing and promoting the use of consistent protocols for omics studies, through collection of SOPs
  - WG8 members will also contribute to the roadmap on nanobioinformatics, section on systems biology etc
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