

PD Dr. Andrea Haase  
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*Subject:* support letter

Dear Dr Haase,

Integrative systems biology is the key research topic at our Department of Bioinformatics. By combining experimental data with existing knowledge, we answer biological questions in innovative ways. This approach requires extensive interoperability approaches and FAIR in general. An example application of this approach is our research around computer representation of biological and adverse outcome pathways (WikiPathways, AOPs), our semantic web approaches (RDF, SPARQL, ontologies), and open science data computation and analysis approaches (CDK, NanoQSAR library, ELIXIR Recommended Interoperability Resource BridgeDb, pathway enrichment analysis) helps us support nanosafety research (see [orcid:0000-0001-7542-0286](https://orcid.org/0000-0001-7542-0286)).

The NDFI network is an exciting new network to enable FAIR and Open Science. Our bioinformatics research depends on the reusability of experimental data and networks like this enable speeding up discovery of new scientific insights. As chair of the NanoSafety Cluster Data Management working group (WGF), involvement in the GO FAIR Chemistry Implementation Network, leaving co-Editor-in-Chief of the Journal of Cheminformatics, and member of the NDFI4Chem Publishing Advisory Board, I am delighted to support this application.

The vision of the InnoMatSafety initiative aligns closely with the vision of our eNanoMapper project and 2018 NanoImpact paper ([doi:10.1016/j.impact.2017.11.002](https://doi.org/10.1016/j.impact.2017.11.002)). The tasks match closely the tasks of the initiatives listed in the previous paragraph and support our biological research.

InnoMatSafety is the initiative that can translate this vision into an infrastructure.

With kind regards,

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