Plan Overview

A Data Management Plan created using DMPonline

Title: Converting supplementary info of 10.1021/acsnano.8b07562 into FAIR data

Creator: Egon Willighagen

Affiliation: Other

Funder: European Commission

Template: Horizon 2020 DMP

ORCID iD: 0000-0001-7542-0286

Project abstract:

The purpose of this project is to convert the supplementary information of this ACS Nano paper: Labouta HI, Asgarian N, Rinker K, Cramb DT. Meta-Analysis of Nanoparticle Cytotoxicity via Data-Mining the Literature. ACS Nano. 2019 Jan 31; doi:10.1021/acsnano.8b07562

ID: 63977

Last modified: 03-10-2020

Copyright information:

Converting supplementary info of 10.1021/acsnano.8b07562 into FAIR data - Initial DMP

1. Data summary

Provide a summary of the data addressing the following issues:

- **State the purpose of the data collection/generation**
- **Explain the relation to the objectives of the project**
- **Specify the types and formats of data generated/collected**
- **Specify if existing data is being re-used (if any)**
- **Specify the origin of the data**
- **State the expected size of the data (if known)**
- **Outline the data utility: to whom will it be useful**

The purpose of this project is to improve the FAIRness of the original data (doi:10.1021/acsnano.8b07562). It is part of the making existing data more reusable. The input is a spreadsheet and the output RDF using the eNanoMapper ontology. In both bases, the data is a few megabytes at most.

2. FAIR data

2.1 Making data findable, including provisions for metadata:

- **Outline the discoverability of data (metadata provision)**
- **Outline the identifiability of data and refer to standard identification mechanism. Do you make use of persistent and unique identifiers such as Digital Object Identifiers?**
- **Outline naming conventions used**
- **Outline the approach towards search keyword**
- **Outline the approach for clear versioning**
- **Specify standards for metadata creation (if any). If there are no standards in your discipline describe what metadata will be created and how**

Data will be made available via Zenodo of Figshare. Standards developed by eNanoMapper will be used, like the ontology and the RDF data model being developed.

2.2 Making data openly accessible:

- **Specify which data will be made openly available? If some data is kept closed provide rationale for doing so**
- **Specify how the data will be made available**
- **Specify what methods or software tools are needed to access the data? Is documentation about the software needed to access the data included? Is it possible to include the relevant software (e.g. in open source code)?**
- **Specify where the data and associated metadata, documentation and code are deposited**
- **Specify how access will be provided in case there are any restrictions**

The script is provided in a GitHub repository and in time will also be archived on Zenodo: https://github.com/NanoSolveIT/10.1021-acsnano.8b07562

2.3 Making data interoperable:

- **Assess the interoperability of your data. Specify what data and metadata vocabularies, standards or methodologies you will follow to facilitate interoperability.**
- **Specify whether you will be using standard vocabulary for all data types present in your data set, to allow inter-disciplinary interoperability? If not, will you provide mapping to more commonly used ontologies?**

- eNanoMapper ontology
- Resource Description Framework

2.4 Increase data re-use (through clarifying licenses):

- **Specify how the data will be licenced to permit the widest reuse possible**
- **Specify when the data will be made available for re-use. If applicable, specify why and for what period a data embargo is needed**
- **Specify whether the data produced and/or used in the project is useable by third parties, in particular after the end of the project? If the re-use of some data is restricted, explain why**
- **Describe data quality assurance processes**
- **Specify the length of time for which the data will remain re-usable**

Follows from the above.

3. Allocation of resources

Explain the allocation of resources, addressing the following issues:

- **Estimate the costs for making your data FAIR. Describe how you intend to cover these costs**
- **Clearly identify responsibilities for data management in your project**
- **Describe costs and potential value of long term preservation**

Cost will be covered by the NanoSolveIT H2020 grant.

4. Data security

Address data recovery as well as secure storage and transfer of sensitive data

Not applicable.

5. Ethical aspects

To be covered in the context of the ethics review, ethics section of DoA and ethics deliverables. Include references and related technical aspects if not covered by the former

No human data is involved.

6. Other

Refer to other national/funder/sectorial/departmental procedures for data management that you are using (if any)

Data will be further shared by NanoSolveIT.