

ISA-TAB-Nano 1.1 Release Notes

New Features

- Modified the ISA-TAB-Nano 1.0 version to address user comments. Modifications include:
 - Addition of a MATERIAL section in the ISA-TAB Investigation File to reference the *Material File Name* and *Material Source Name*. Removal of *Material File* in the Study File.
 - Removal of a separate field in the ISA-TAB Assay File to capture *Statistics*. Users should reference the *Statistic* in the Measurement Value parameter name in brackets (e.g., Measurement Value [Mean (diameter)]”).
- Enforced the following business rule:
 1. If the assay is a physico-chemical characterization, there should be no study factors of *Study Factor Type* nanoparticle sample
 2. If the assay is a biological assay (in vitro, in vivo), the *Study Factor Name* and type must be of nanoparticle sample if the assay is applying a nanoparticle sample to a biological system.

Fixes

- Fixed ISA-TAB-Nano Investigation File examples to use a prefix for Term Accession Number and Term Source REF in the Investigation File per the ISA-TAB specification (not required for other ISA-TAB files)
- Fixed ISA-TAB-Nano Study File examples to follow the appropriate ISA-TAB ordering requirements
 - In the Study File, order Protocol REF and associated parameters immediately after Source Name and associated attributes and before Sample Name and Factor Values
- Fixed ISA-TAB-Nano Assay File examples to follow the appropriate ISA-TAB ordering requirements
 - In the Assay File, order Protocol REF to be included after Sample Name
- Fixed ISA-TAB-Nano Assay File examples to remove the Source Name. Only the Sample Name should be referenced in the Assay File.

Known Issues and Workarounds

- Currently, ISA-TAB does not support Study Grant Number and Study Funding Agency as standard fields in the Investigation Files. These fields can be added in a comments field.
- Grouping of assays is subjective to the particular study. Recommend grouping of assays that use the same sample under one study.
- For studies involving insertion of tumor cells into mice and the application of a nanoparticle as a treatment, the tumor cells should be parameter values and the nanoparticle should be factor values.

Version History

| Version | Release Date |
|----------------------------------|--------------|
| ISA-TAB-Nano 1.1 | June 2013 |
| ISA-TAB-Nano 1.0 | August 2012 |