eTOX Ontologies: Enhancing Standards for Better Knowledge Management of Animal Study Data (eTOX—Part II)

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Introduction

The histopathology finding ontology is a knowledge resource that, for the first time, is collecting and integrating proprietary information from 13 preclinical toxicity reports for pharmaceutics together with public literature data.

Why do we need standardization?

- Improved data quality and consistency
- Enhanced data interoperability
- Facilitates data sharing and reuse

The OntoBrowser: browsing and curating concepts and terms

Maintenance of a large scale synonym list by domain experts is a complicated task. After having tried available solutions (OntoBrowser, etc.), we decided to create a dedicated browser tool to control our terminology, address synonyms and improve coverage. It allows for curators and approvers of toxicology reports to easily browse and curate data, while domain experts can also be involved in the process.

Quiz

1. What is the most common reported histopathological finding? (see below)
2. How many public/private partners are involved in the IMI? overall?
3. How do we keep up with the vocabulary evolution?
4. What is the source of truth for our data?

Dealing with 1.5 million terms

- How to manage and order 1.5 million browsing findings from reports written with no central control vocabulary?
- How do we keep up with the vocabulary evolution?
- How many public/private partners are involved in the IMI? overall?
- What is the source of truth for our data?