Biobank Workshop

ICBO 2014

Introductions

- What is your interest in a biobank ontology?
  - NASA funding large genomic studies and need to capture processes for this
  - Arguments for ontologies in clinical studies, research studies
  - Informed consent needs
  - Data integration
  - Building frameworks
  - OBI application
  - How technologies are being applied
  - Duke biobank
  - Provenance and biobanks
  - Biocuration
  - NIEHS environmental health needs for semantics for toxicology biobank
  - Relation to and distinction between clinical terminologies and ontologies
  - Obstetrics and neonatal domain
  - Cancer research
  - Use of NLP
  - Schema.org for available biomaterials

Use Cases

- Biobank application as a use case
- Duke
- NASA Genomics studies
- Informed consent

biobank

- Definition in OMIABIS
  - Very open, not highly specific.
- Prospective versus retrospective
- Patient based
- Population based
- Where does a biobank start?
- What processes affect the specimen
- Very unique
- Recruitment process
- Where need individuals
- validation

Next steps

- New group
- Permanent URL
- Write-up of workshop
- Join calls
- How should I be using the ontology?
  - Applications
- How to deal with vendor systems?
- Any cross institutional efforts that can be made aware of this for their biobanks?