Using the VIVO-ISF Ontology in Open Repositories

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Galter Health Sciences Library
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How *DO* we think about impact?
How *SHOULD* we think about impact?
Longleat Hedge Maze. Available at http://goo.gl/gQQ3u7
We need to make sure that we are counting everything and helping to make it more visible.

Longleat Hedge Maze. Available at http://goo.gl/gQQ3u7
Northwestern University Clinical and Translational Sciences (NUCATS) Institute Evaluation and Continuous Improvement Program

**Mission:** Speeding transformative research discoveries to patients and the community

http://nucats.northwestern.edu/
Northwestern University Clinical and Translational Sciences (NUCATS) Institute Evaluation and Continuous Improvement Program

Diverse outputs, diverse impacts, diverse roles
Each a critical component of the research process

- Measurement instruments
- Consent documents
- Continuing education materials
- Cost-effective intervention
- Consensus development conferences
- Change in delivery of healthcare services
- Gray literature
- New experimental methods, databases, animal models, or software tools
- New diagnostic criteria or standards of care
- Biologics
- Curriculum guidelines
- Clinical/practice guidelines
- Quality measure guidelines

https://becker.wustl.edu/impact-assessment
http://nucats.northwestern.edu/

Pathways
Advancement of Knowledge
Clinical Implementation
Legislation and Policy Enactment
Economic Benefit
Community Benefit

https://ctsacentral.org/consortium/best-practices/research-networking/
We want to optimize discoverability and dissemination of content and enhance the impact of FSM, NUCATS, and our Northwestern Medicine community.
Using VIVO-ISF classes

- Descriptive, administrative and structural metadata
- Use of established controlled vocabularies
- Use of university databases – campus directory
- Use of established standards (date, language)

- Using ontologies VIVO-ISF
Using NLM MeSH

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- Using ontologies VIVO-ISF
- Using NLM MeSH RDF
Using data from VIVO

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- Using ontologies VIVO-ISF
- Using NLM MeSH RDF
- Using data from VIVO
RDF for VIVO: from CSV to RDF via Karma

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<th>date_terminated</th>
<th>Title</th>
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<td>2dec06e69</td>
<td>Sadav</td>
<td>Sadav, Manjit S.</td>
<td>Manjit</td>
<td>Sadav</td>
<td>S</td>
<td>Sadav@scho</td>
<td>2000-10-01T00:00:00</td>
<td>2014-01-01T00:00:00</td>
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<td>E</td>
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<td>613870d1</td>
<td>kRoberts</td>
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<td>ea52a51f</td>
<td>Sahran20</td>
<td>Sahran, Krishan C.</td>
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<td>C</td>
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RDF for VIVO: from CSV to RDF via Karma

<http://vivo.northwestern.edu/individual/2014-01-01T00:00:00> <http://www.w3.org/1999/02/22-rdf-syntax-ns#type> <http://vivoweb.org/ontology/core#DateTimeValue>.
<http://vivo.northwestern.edu/individual/n2dec06e9> <http://www.w3.org/1999/02/22-rdf-syntax-ns#type> <http://vivoweb.org/ontology/core#FacultyMember>.
<http://vivo.northwestern.edu/individual/n2dec06e9> <http://www.w3.org/2000/01/rdf-schema#label> "Sadav, Manjit S.".
<http://vivo.northwestern.edu/individual/n2dec06e9> <http://vivoweb.org/ontology/core#end> <http://vivo.northwestern.edu/individual/2014-01-01T00:00:00>.
<http://vivo.northwestern.edu/individual/n2dec06e9> <http://vivoweb.org/ontology/core#start> <http://vivo.northwestern.edu/individual/2000-10-01T00:00:00>.
<http://vivo.northwestern.edu/individual/n2dec06e9> <http://vivoweb.org/ontology/core#yearPrecision> '2000-10-01T00:00:00'.
<http://vivo.northwestern.edu/individual/n2dec06e9> <http://vivoweb.org/ontology/core#yearPrecision> '2014-01-01T00:00:00'.
Look-up service for person names

- Descriptive, administrative and structural metadata
- Use of established controlled vocabularies
- Use of university databases – campus directory
- Use of established standards (date, language)
- Using ontologies
- Creating RDF data
Thank you!
Galter Health Science Library
https://galter.northwestern.edu/