



WORKSHOP B

ICBO: International Conference on Biomedical Ontology

Working with Multiple Biomedical Ontologies

July 26, 2011 ▪ 9:00am - 6:00pm

This workshop intends to provide a report and discussion forum concerning aspects of working with multiple biomedical ontologies. Biomedical ontologies are often very large and nevertheless restricted to delineated domains (e.g. anatomy, cells, diseases, genes). Thus they present a dual challenge of managing their size and their adequation to an intended scope. As a result, a number of issues arise relating to the way biomedical ontologies may be either split or combined. In application contexts, similar issues present themselves when using ontologies in, for example, annotating large and diverse datasets or when reasoning with multiple ontologies covering connected domains. The workshop proposes to explore ways in which the rich diversity of biomedical ontologies can be combined and used, in particular, in multiple domain applications and at multiple scales.

Presentations will include:

- **NIFSTD and NeuroLex: A Comprehensive Neuroscience Ontology Development Based on Multiple Biomedical Ontologies and Community Involvement**
Fahim Imam, Stephen Larson, Jeffrey Grethe, Amarnath Gupta, Anita Bandrowski, Mary Ann Martone
- **Use of Multiple Ontologies to Characterize the Bioactivity of Small Molecules**
Ying Yan, Janna Hastings, Jee-Hyub Kim, Stefan Schulz, Christoph Steinbeck, Dietrich Rebholz-Schuhmann
- **A Meta-Data Approach to Querying Multiple Biomedical Ontologies**
Ravi Palla, Dan Tecuci, Vinay Shet, Mathaeus Dejori
- **Multiple Ontologies in Healthcare Information Technology: Motivations and Recommendation for Ontology Mapping and Alignment**
Colin Puri, Karthik Gomadam, Peter Yeh, Kunal Verma
- **Modularization for the Cell Ontology**
Chris Mungall, Terrence Meehan, Shahid Manzoor, Amelia Ireland, Alexander Diehl
- **Building the OBO Foundry – One Policy at a Time**
Melanie Courtot, Ryan Brinkman, Alan Ruttenberg
- **Towards a Body Fluids Ontology: A Unified Application Ontology for Basic and Translational Science**
Jiye Ai, Mauricio Almeida, Andre Andrade, Alan Ruttenberg, Barry Smith
- **Connecting Ontologies for the Representation of Biological Pathways**
Anna Maria Masci, Mikhail Levin, Alan Ruttenberg, Lindsay Cowell
- **Bridging Multiple Ontologies: Route to Representation of the Liver Immune Response**
Anna Maria Masci, Jeffrey Roach, Bernard De Bono, Pierre Grenon, Lindsay Cowell
- **Hyperontology for the Biomedical Ontologist: A Sketch and Some Examples**
Oliver Kutz, Till Mosskowsky, Janna Hastings, Alexander Garcia Castro, Aleksandra Sojic

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Organized by:

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Pierre Grenon, European Bioinformatics Institute, UK

Program Committee:

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