



ICBO: International Conference on Biomedical Ontology

Working with Multiple Biomedical Ontologies

July 26, 2011 ▪ 9:00am - 6:00pm

Workshop Venue:

Marriott Buffalo Niagara, 1340 Millersport Highway ▪ Amherst, New York 14221

Room: Ballroom 5 / 1st Floor

PROGRAM

9:00am Registration

9:20am Introduction

Barry Smith, University at Buffalo

9:30am Session 1: Ontology – Combining Ontologies I

- **NIFSTD and NeuroLex: A Comprehensive Neuroscience Ontology Development Based on Multiple Biomedical Ontologies and Community Involvement** (30 min)
Fahim T. Imam, Stephen D. Larson, Jeffrey S. Grethe, Amarnath Gupta, Anita Bandrowski, Maryann E. Martone
- **Use of Multiple Ontologies to Characterize the Bioactivity of Small Molecules** (30 min)
Ying Yan, Janna Hastings, Jee-Hyub Kim, Stefan Schulz, Christoph Steinbeck, Dietrich Rebholz-Schuhmann

10:30am Break

11:00am Session 2: Approaches to Combination and Modularization

- **Hyperontology for the Biomedical Ontologist: A Sketch and Some Examples** (30 min)
Oliver Kutz, Till Mosskowsky, Janna Hastings, Alexander Garcia Castro, Aleksandra Sojic
- **Modularization for the Cell Ontology** (30 min)
Christopher J. Mungall, Melissa Haendel, Amelia Ireland, Shahid Manzoor, Terry Meehan, David Osumi-Sutherland, Carlo Torniai, Alexander D. Diehl

12:00pm Lunch Break

1:00pm Session 3: Ontology – Combining Ontologies II

- **Towards a Body Fluids Ontology: A Unified Application Ontology for Basic and Translational Science** (20 min)
Jiye Ai, Mauricio Almeida, Andre Andrade, Alan Ruttenberg, David T.W. Wong, Barry Smith

- **Bridging Multiple Ontologies: Representation of the Liver Immune Response** (20 min)
Anna Maria Masci, Jeffrey Roach, Bernard de Bono, Pierre Grenon, Lindsay Cowell
- **Connecting Ontologies for the Representation of Biological Pathways** (20 min)
Anna Maria Masci, Mikhail Levin, Alan Ruttenberg, Lindsay G. Cowell

2:00pm Break

2:15pm Session 4: Position Papers

- **A Meta-Data Approach to Querying Multiple Biomedical Ontologies** (10 min)
Ravi Palla, Dan Tecuci, Vinay Shet, Mathaeus Dejori
- **Multiple Ontologies in Healthcare Information Technology: Motivations and Recommendation for Ontology Mapping and Alignment** (10 min)
Colin Puri, Karthik Gomadam, Prateek Jain, Peter Z. Yeh, Kunal Verma
- **Building the OBO Foundry – One Policy at a Time** (10 min)
Mélanie Courtot, Chris Mungall, Ryan R. Brinkman, Alan Ruttenberg

2:45pm Break

3:00pm Invited Talk

- **Coordination of Multiple Biomedical Ontologies: Basic Methodological Principles**
Barry Smith

4:00pm General Discussion

5:00pm Conclusion of Workshop

(The room will remain available until 6:00pm for informal and group discussions.)

Organized by:

George Gkoutos, University of Cambridge, UK
Pierre Grenon, European Bioinformatics Institute, UK

Program Committee:

Jiye Ai, UCLA · Stefano Borgo, Laboratory for Applied Ontology, Italy · Bernard de Bono, European Bioinformatics Institute, UK
John Gennari, University of Washington · Robert Hoehndorf, University of Cambridge, UK · Dave Lambert, Knowledge Media Institute, UK
Phillip Lord, Newcastle University, UK · Axel-Cyrille Ngonga Ngomo, University of Leipzig, Germany · Alan Ruttenberg, University at Buffalo
Uli Sattler, University of Manchester, UK · Sarala Wimalaratne, European Bioinformatics Institute, UK
Michael Witbrock, Cycorp, Inc. and Cycorp Europe · Frank Wolter, University of Liverpool, UK