



WORKSHOP D

ICBO: International Conference on Biomedical Ontology

Facilitating Anatomy Ontology Interoperability

July 27, 2011 ▪ 8:30am - 4:00pm

Workshop Venue:

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

Room: Salon E / 2nd Floor

Biological research has been revolutionized by the explosion of genetic information available, and anatomy ontologies have been crucial in relating this knowledge to observables as diverse as disease, gene expression, or evolutionary change. Within a single species, they provide scaffolding for bringing together many kinds of observations; across species, they provide evolutionary, developmental, and mechanistic insights. In order for anatomy ontologies to successfully serve all of these purposes, the ontologies must be constructed consistently so that both researchers and software can understand and use them.

This full-day workshop aims to bring together consumers and developers of anatomy ontologies with the aim of forging community partnership. The first section of the workshop will consist of a survey of current anatomy ontologies in different organisms and taxonomic groupings. These presentations will highlight the most effective design patterns for constructing anatomy ontologies; the varying use cases for each; the role of shared resources such as reference ontologies and common relations; and the techniques employed to effectively handle integration across species and scale. The second half of the workshop will consist of interactive panel sessions to identify outstanding cross-community needs with the aim of spurring projects to address these.

Presentations will include:

- **Mouse Anatomy Ontologies and GXD**
Terry F. Hayamizu, Martin Ringwald
- **FUNCARO: A Functional Extension to CARO**
David Osumi-Sutherland
- **The Vertebrate Bridging Ontology (VBO)**
Ravensara S. Travillian, James Malone, Chao Pang, John Hancock, Peter Holland, Paul Schofield, Helen Parkinson
- **Multi-Species Anatomy Ontology Development Requires a Pluralist Approach to Label-Class Mapping**
Istvan Miko, Matthew Jon Yoder, Katja Seltsmann, Matthew Alan Bertone, Andrew Robert Deans
- **CARO 2.0**
David Osumi-Sutherland
- **Integrating Anatomy and Phenotype Ontologies with Taxonomic Hierarchies**
James Balhoff, Peter Midford, Hilmar Lapp
- **Phenoscape: Use Cases and Anatomy Ontology Requirements for Linking Evolutionary and Model Organism Phenotypes**
Wasila Dahdul, James Balhoff, Hilmar Lapp, Peter Midford, Todd Vision, Monte Westerfield, Paula Mabee
- **Ontologies in the Fish Tank: Using the Zebrafish Anatomy Ontology with Other OBO Ontologies to Annotate Expression and Phenotype**
Yvonne Bradford, Ceri Van Slyke

[CLICK HERE FOR PROGRAM](#)

Organized by:

Melissa Haendel (Oregon Health & Science University)
Chris Mungall (Lawrence Berkeley National Laboratory)
Alan Ruttenberg (University at Buffalo)
David Osumi-Sutherland (University of Cambridge)
Laurel Cooper (Oregon State University)