ICBO: International Conference on Biomedical Ontology

From Fins to Limbs to Leaves:
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

PROGRAM

8:00am   **Registration**

8:30am   **Introduction**
- Community Issues in anatomy ontology interoperability (Melissa Haendel)
- Progress on anatomy ontologies, tools and interoperability (Chris Mungall)

9:00am   **Community Paper Submissions – Focusing on interoperability needs and issues.**
(10 min, and 5 min for questions per presentation)
Chair: David Osumi-Sutherland

- **Integrating Anatomy and Phenotype Ontologies with Taxonomic Hierarchies**
James P. Balhoff, Peter E. Midford, Hilmar Lapp

- **The Vertebrate Bridging Ontology (VBO)**
Ravensara Travillian, James Malone, Chao Pang, John Hancock,
Peter W.H. Holland, Paul Schofield, Helen Parkinson

- **Multi-Species Anatomy Ontology Development Requires a Pluralist Approach to Label-Class Mapping**
István Mikó, Matthew J. Yoder, Matthew A. Bertone, Katja Seltmann, Andrew R. Deans

9:45am   **Community Lightening Talks – Focusing on one or two key standardization issues that the speaker sees as an impediment to building their ontology and/or integrating it with other ontologies.** (5 min per presentation)
Chair: Laurel Cooper

- **Mouse Anatomy Ontologies and GXD**
Terry F. Hayamizu, Martin Ringwald

- **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

- **The Foundational Model of Anatomy**
  Onard Mejino, Alan Ruttenberg

- **The Plant Ontology Consortium Ontology and Database Development**
  Laurel Cooper

- **Additional flash presentations welcome**

10:15am   **Break**

10:30am   **Upper Ontologies and Classification Strategies**
Chair: Melissa Haendel

- How do we generate standards needed?
- How do we work collaboratively on such standards?
- **CARO 2.0 & FUNCARO: A Functional Extension to CARO**
  David Osumi-Sutherland

- **Uberon**
  Melissa Haendel, Chris Mungall

11:00am   **Vote on Discussion Topics** (max 4 topics)**, followed by Community Discussion**

12:30pm   **Break**

1:00pm   **Ontology Building**

- **Section 1:** Intro to ontology building in OBO and OWL.

- **Section 2:** This portion of the tutorial will feature stripped down OBO versions of CARO and FUNCARO with exercises to extend, convert to OWL and make use of OWL reasoning while editing in OBO format. For anatomy ontologists – we encourage you to put classes from your own ontologies into the CARO/FUNCARO context. The cases where classes don't fit easily will provide material for discussion and requirements for improvements and extension to CARO2/FUNCARO.

4:00pm   **Conclusion of Workshop**

PLEASE NOTE: The 'From Fins to Limbs to Leaves' workshop and the 'From OBO to OWL and Back' tutorial (http://icbo.buffalo.edu/2011/workshop/TutorialF.pdf) have been combined due to overlap of scheduling, content, and participants. The OBO to OWL and Back portion will draw on anatomy examples from the morning session, but will be a stand-alone session for those not attending the morning anatomy workshop. Participants should bring a laptop with OBO-Edit and Protégé installed.

More details of the tutorial portion of the combined afternoon session, along with details of software versions to install will be posted here:

http://www.bioontology.org/wiki/index.php?title=From_OBO_to_OWL_and_back