# Evolutionary Biology & Ontologies Workshop

June 20, 2008

#### **Focus**

This meeting is focused on the application of ontologies to studies in evolutionary biology and related disciplines, with a particular emphasis on studies of the phenotype.

#### Goals

(1) Introducing what ontologies are, how they should be built, what makes an ontology useful, and how ontologies help people collaborate across disciplines;

(2) Giving illustrations of ontologies actually being used to address problems of interest to evolutionary biologists;

(3) Networking and planning: what do we do next in order to advance ontology-based information integration in evolutionary biology?

### Registration

Registration is open to attendees of the Evolution 2008 conference at no additional cost.

EBO Workshop Organized by: Barry Smith (Buffalo), Paula Mabee (South Dakota), Todd Vision (North Carolina), Monte Westerfield (Oregon)

*Further information, see:* http://www.bioontology.org/wiki/index.php/Evolutionary\_Biology\_and\_Ontologies

This workshop is organized under the auspices of the National Center for Biomedical Ontologies (NCBO, http://www.bioontology.org/) in collaboration with the National Evolutionary Synthesis Center (NESCent, http://www.nescent.org/). Organized in conjunction with the Evolution 2008 meeting (http://www.cce.umn.edu/conferences/evolution/).







## Evolutionary Biology & Ontologies Workshop TENTATIVE PROGRAM

9:00am - 10:00am	<b>Tutorial: An Introduction to Ontology for Evolutionary Biology</b> Barry Smith (Center of Excellence in Bioinformatics and Life Sciences, University at Buffalo; Lead Scientist of the National Center for Biomedical Ontology)
10:00am - 10:30am	Morning Break
10:30am - 11:00am	An Introduction to the PATO Phenotype Ontology Chris Mungall (University of California, Berkeley)
11:00am - 11:30am	Using Ontologies in the NCBO Project to Link Fish and Fly Mutants to Human Diseases Monte Westerfield (Director, Zebrafish Information Network and Institute of Neuroscience, Eugene)
11:30am – 12:00pm	An Introduction to the Use of Ontologies in Linking Evolutionary Phenotypes to Genetics Paula Mabee (University of South Dakota)
12:00pm - 1:00pm	Lunch
1:00pm – 1:45pm	An Introduction to the CARO Anatomy Reference Ontology: Multispecies Ontologies Melissa Haendel (Anatomy Curator, Zebrafish Information Network, Eugene, Oregon)
1:45pm – 2:15pm	Developing an Ontology for Amphibians using NLP Anne Maglia (University of Missouri-Rolla
2:15pm - 2:45pm	Afternoon Break
2:45pm – 3:15pm	<b>Ontologies, Image Databases, and Evolutionary Biology</b> Martin Ramirez (Museo Argentino de Ciencias Naturales "Bernardino Rivadavia", Buenos Aires, Argentina)
3:15pm – 3:45pm	An Introduction to the Use of Anatomy Ontologies for the Identification of Genes Underlying Complex Traits Todd Vision (Assistant Director, National Evolutionary Synthesis Center and Department of Biology, University of North Carolina)
3:45pm – 4:45pm	Roundtable & Discussion
4:45pm – 5:00pm	<b>Wrap-Up Session: Next Steps</b> Suzanna Lewis and Paula Mabee