

**Presentation title:** An introduction to the use of ontology in computational and molecular biology

**Date:** Thursday 7 July 2011

**Abstract**

Ontology is now widely used in molecular biology as a tool for the capture and formal representation of biological knowledge. Ontologies, such as the Gene Ontology, have fundamentally changed the way biologists interact with, interrogate, and use their data. This seminar will provide an introduction to the use of ontology in computational and molecular biology. A discussion of the basic types of ontological knowledge representation and ontological engineering methods will be presented, followed by a survey of existing biological ontologies. The seminar will conclude with examples of both basic and advanced applications of ontology to molecular and computational biology.