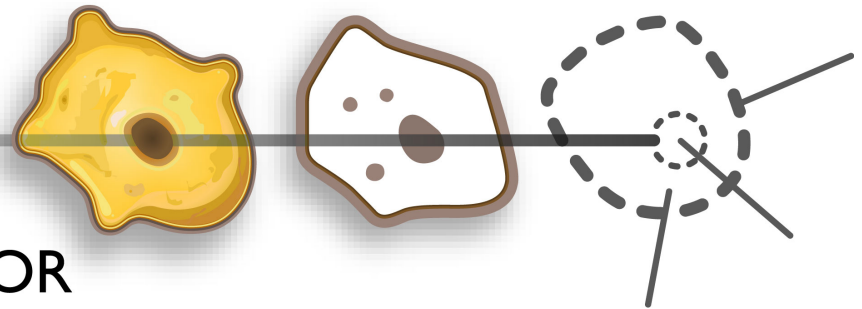


Ontology Summit 2012

Mark Musen

Stanford University

musen@stanford.edu



NATIONAL CENTER FOR

BIOMEDICAL ONTOLOGY

The National Center for Biomedical Ontology

- The NCBO's mission is to develop computational infrastructure for the management, dissemination, and application of ontologies in biomedicine
- Since their inception, the Ontology Summits have addressed issues of central importance to the NCBO
- Big systems and big data are of central importance to computational work in biology and medicine

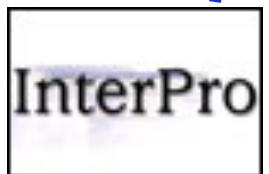
WormBase

Ontologies make sense of genomic data

FlyBase



UniProt
the universal protein resource



Big systems are everywhere in biomedicine

- Routine experiments generate huge numbers of data to be organized and analyzed
- New incentives are promoting adoption of electronic patient records and mechanisms for sharing huge data sets across institutions
- Biomedical ontologies themselves are big systems, with challenges in their development and maintenance