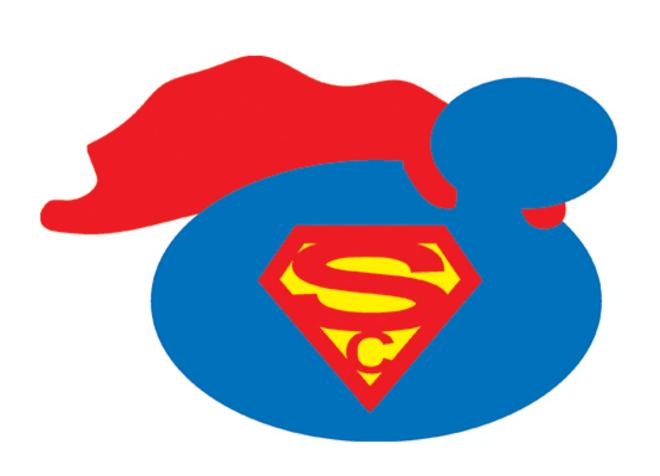
Saccharomyces Genome Database Workshop ICYGMB 2019



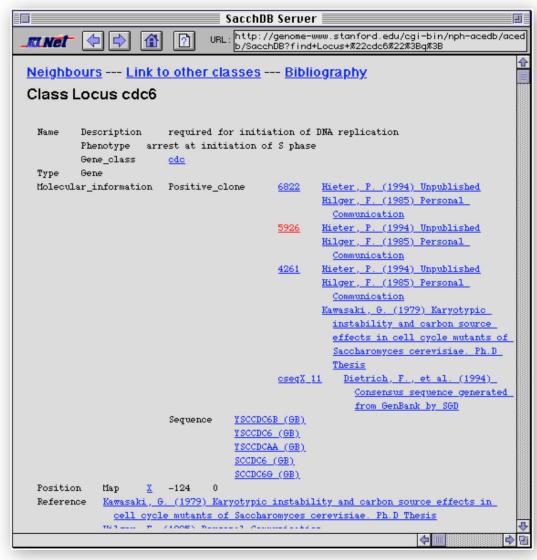
Slides & Poster PDFs bit.ly/ICYGMB-2019

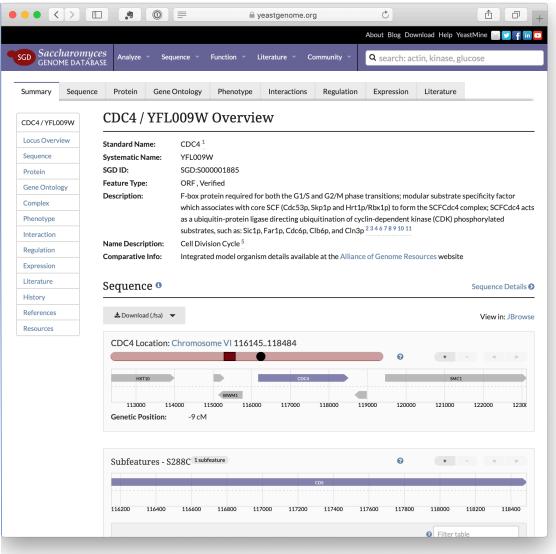


SGD Workshop Agenda – ICYGMB 2019

- Introduction (Mike)
- Protein abundance, Disease (Rob)
- Macro-molecular Complexes, Chemical (small molecule) (Edith)
- Transcriptome (Patrick)
- Gene product function at SGD (Suzi)
- Alliance of Genome Resources (Stacia)

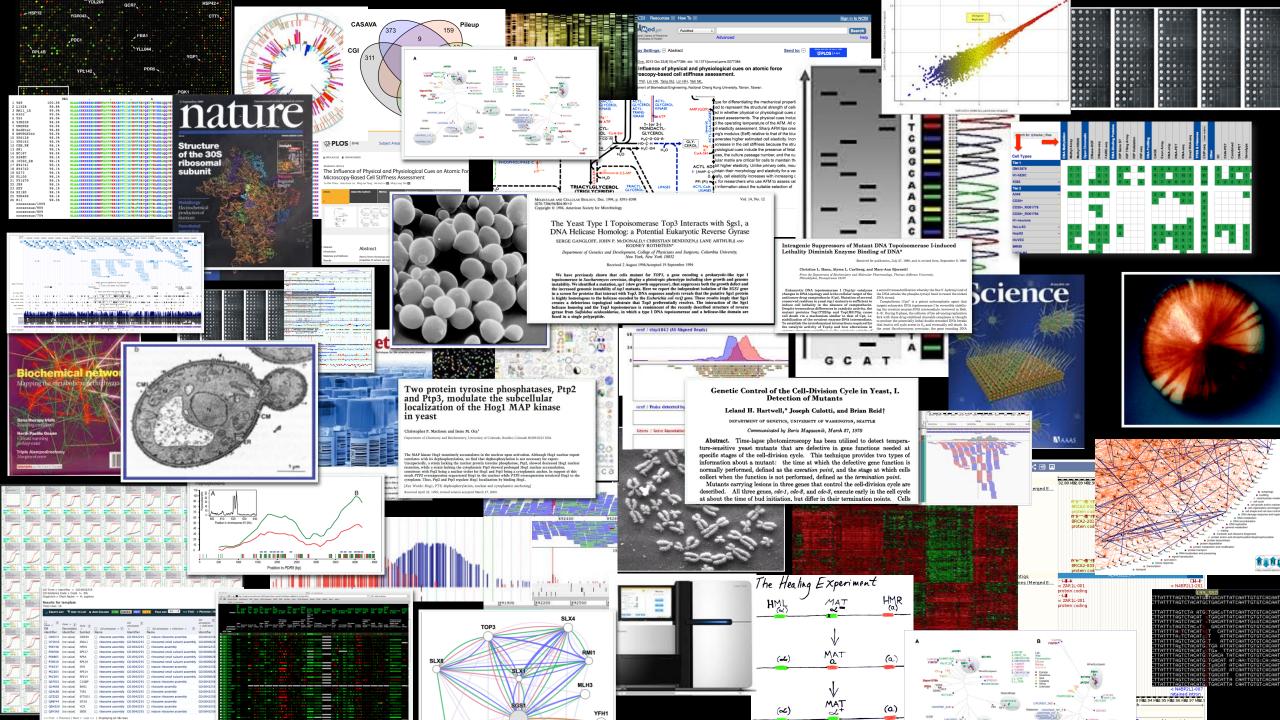
SGD website 25th birthday, SGD first online on 8 May 1994





1994 2019

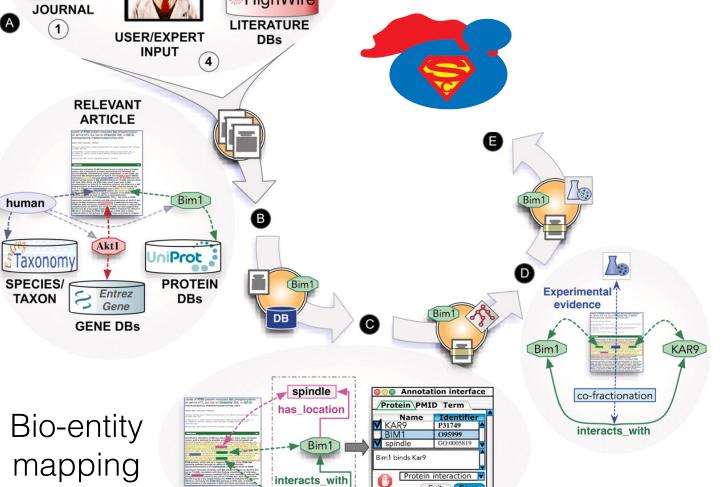
On May 1994 there were a total of only 2000 websites



Literature selection & triage

SGD Curation Pipeline Literature to Integrated Annotations

Biological object identification



Evidence evaluation

mapping

SEARCH ENGINES & TEXT MINING

Pub Med

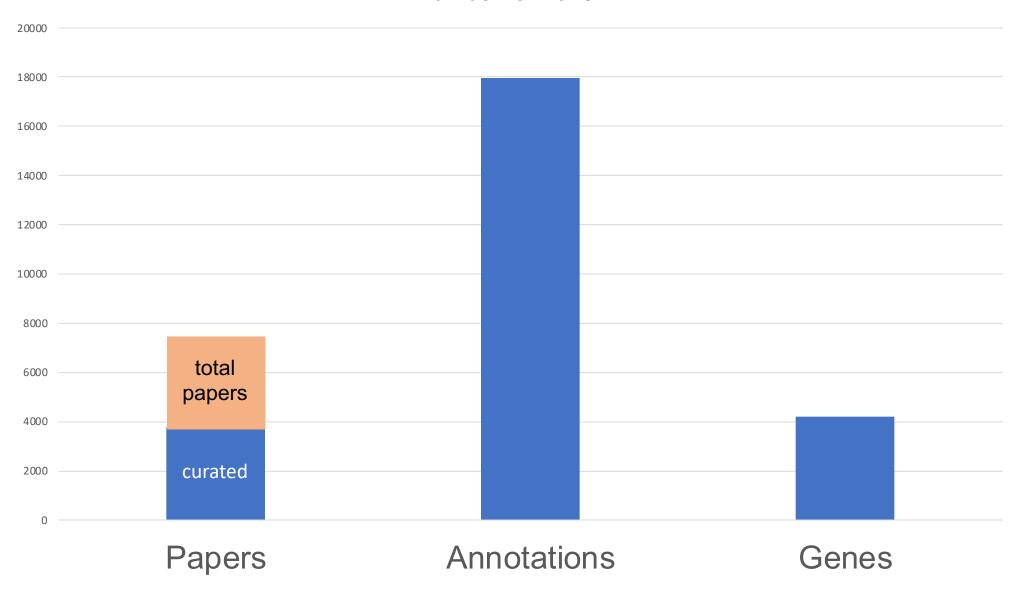
PMC

HighWire

Modified from Hirschman, et al., 2012. Database (OUP), doi:10.1093/database/bas020

SGD Curators are busy

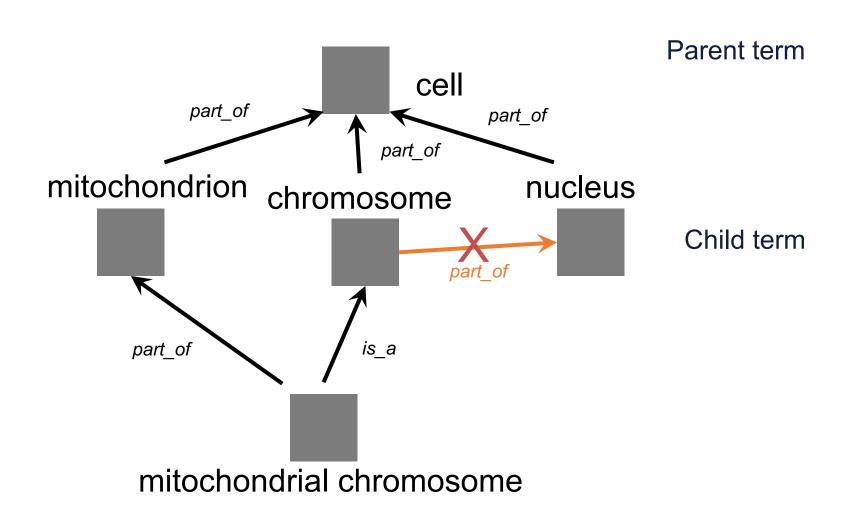
Number for 2018



An ontology is a set of words...

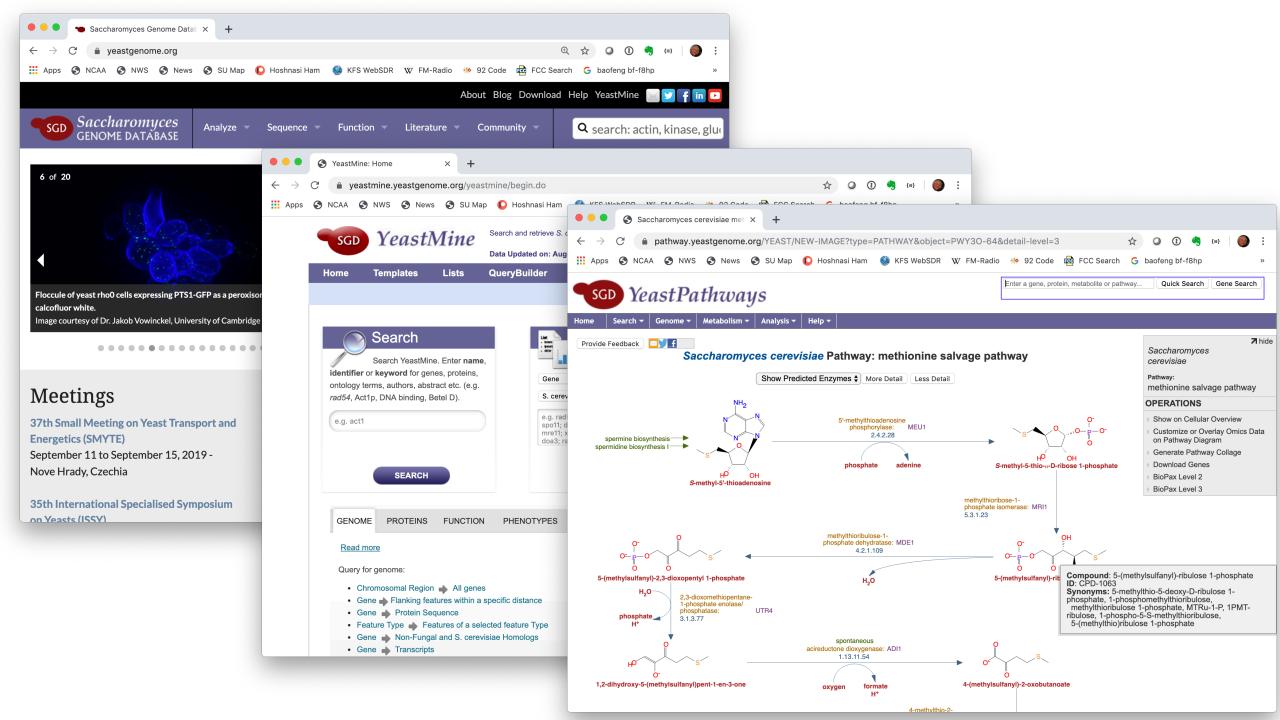
.. with different types of relationships to each other.

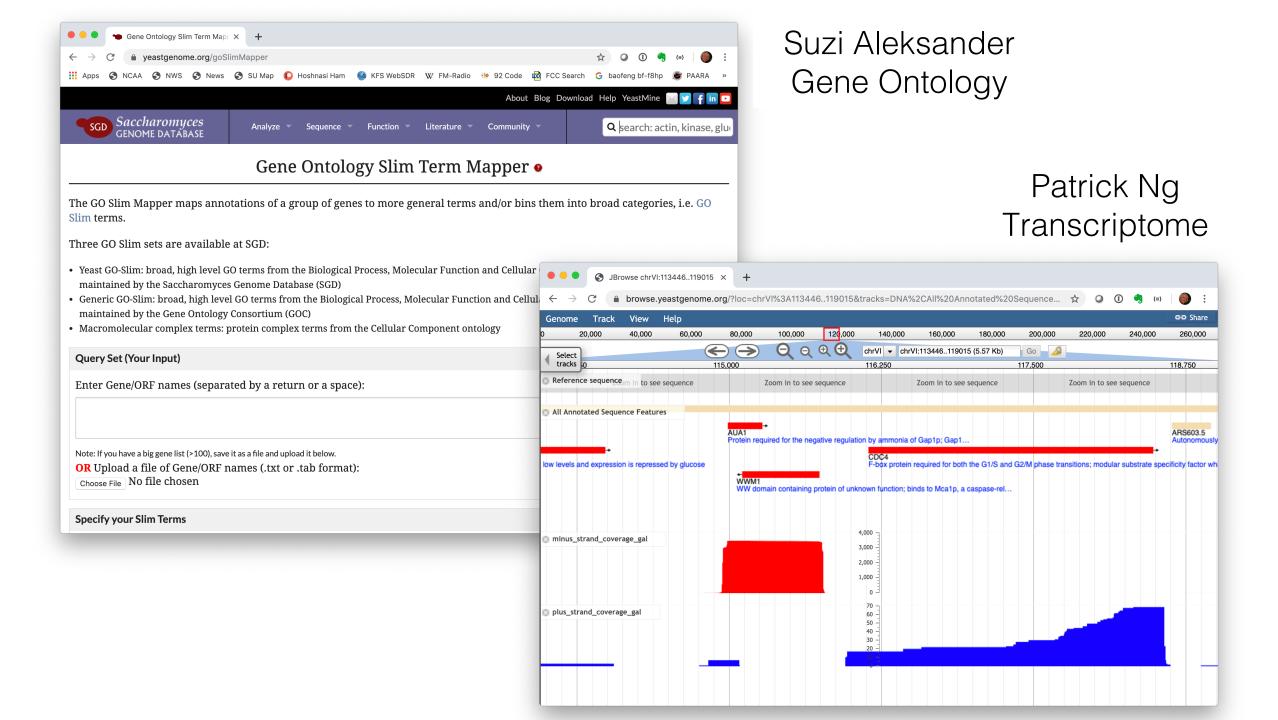
All relationships must be true.

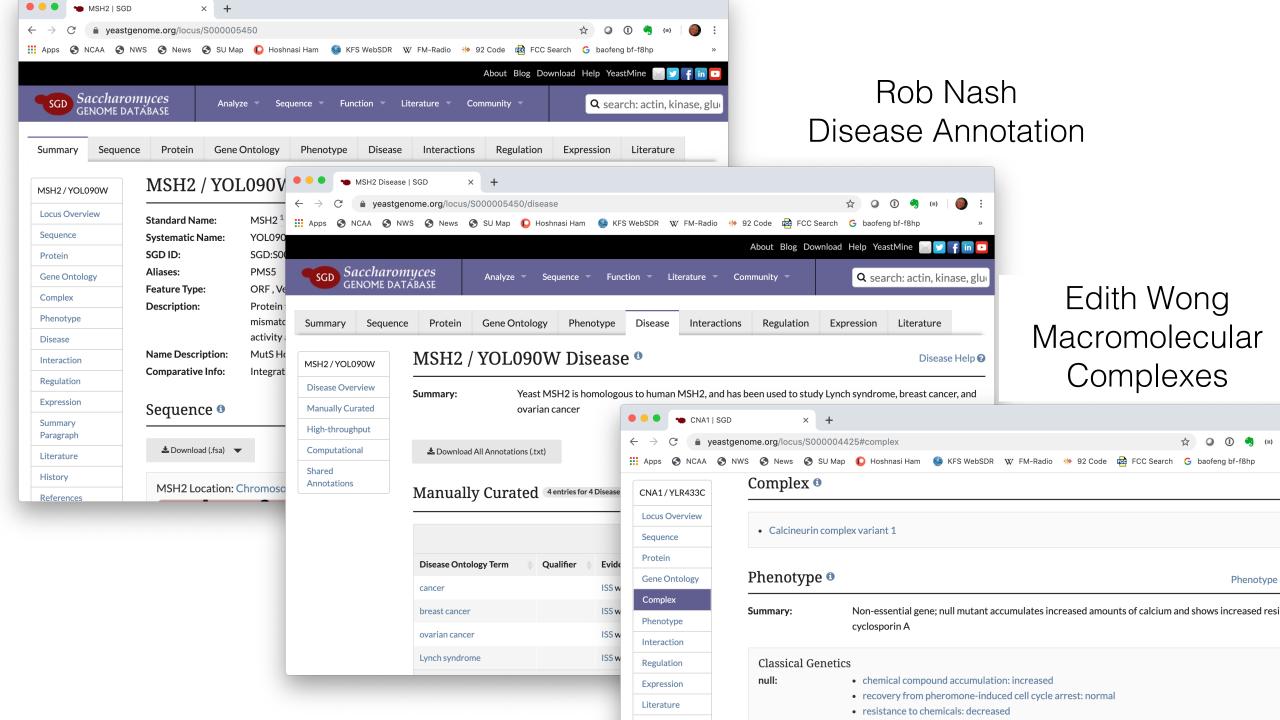


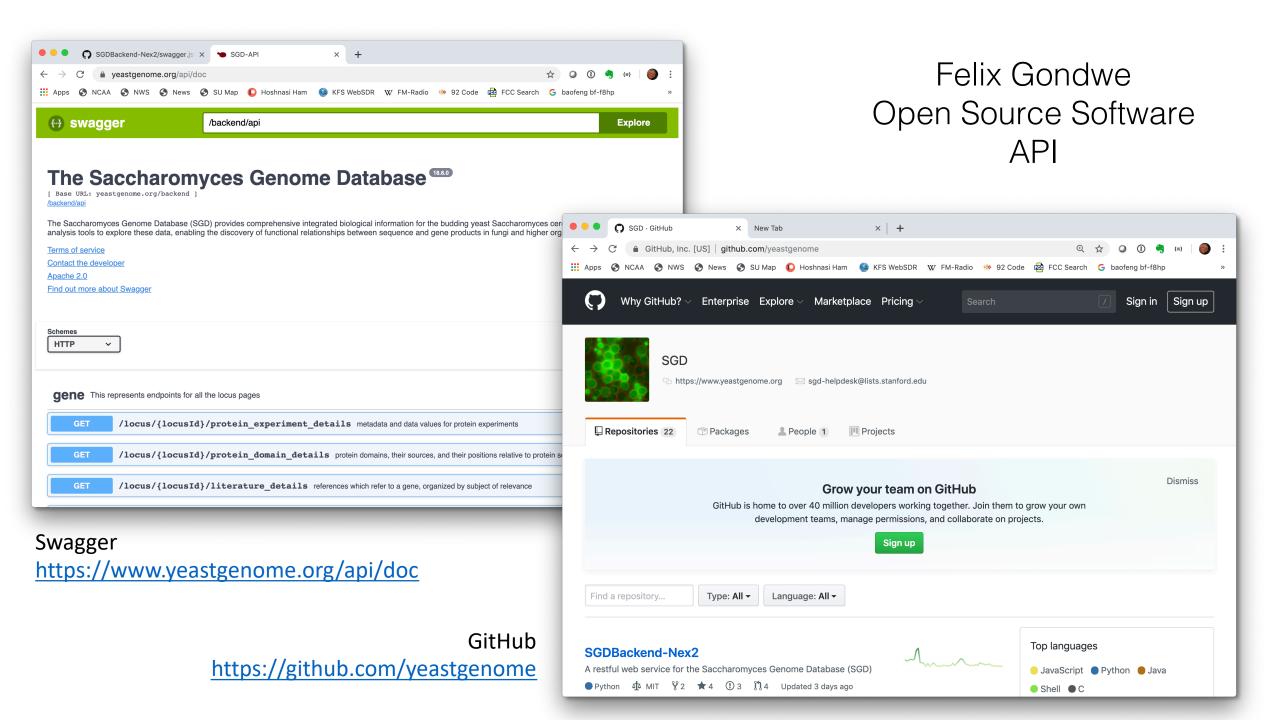
Gene Ontology Term Name, ID, **Definition** and Synonyms

Term name	ID	Definition	Synonyms
nucleus	GO:0005634	A membrane-bounded organelle of eukaryotic cells in which chromosomes are housed and replicated. In most cells, the nucleus contains all of the cell's chromosomes except the organellar chromosomes, and is the site of RNA synthesis and processing. In some species, or in specialized cell types, RNA metabolism or DNA replication may be absent.	cell nucleus
mitochondrion	GO:0005739	A semiautonomous, self replicating organelle that occurs in varying numbers, shapes, and sizes in the cytoplasm of virtually all eukaryotic cells. It is notably the site of tissue respiration.	mitochondria
chromosome	GO:0005694	A structure composed of a very long molecule of DNA and associated proteins (e.g. histones) that carries hereditary information.	Chromatid interphase chromosome prophase chromosome









Leadership Team

Biocuration

Scientists

Software

System

Developers

Administrators

(Dev/Ops)



Mike Cherry, PhD





Suzi Aleksander



Shuai Weng, PhD





Stuart Miyasato



Stacia Engel, PhD



Edith Wong, PhD



Marek Skrzypek, PhD





Barbara Dunn, PhD Joanna Argasinska, PhD



Kevin MacPherson, MS



Kalpana Karra, MS



Felix Gondwe



Sagar Jha, MS



Department of Genetics, Stanford University



Matt Simison





SGD: U41 HG001315 GOC: U41 HG002273