The Saccharomyces Genome Database (SGD; https://www.yeastgenome.org) provides a plethora of information traditionally known to users through a website. In order to enable programmatic access to the same data, SGD has developed a public application programming interface (API) which has all the same data as the website. Everything which appears on SGD webpages comes though the same API which is now available to the public. The HTTPS API is documented at http://bit.ly/sgddocs and http://bit.ly/sgdsmartapi. Some example python scripts which access the data can be found at http://bit.ly/apiexamples. We also demonstrate similar access to The Alliance of Genome Resources, which has integrated data from several model organism databases. The Alliance database is available to download as a Docker container running a populated Neo4j database. This work is supported by a grant from the NHGRI (U41 HG001315).

SGD API Documentation Online
- SmartAPI registry (http://bit.ly/sgdsmartapi)

Python Script Examples
  - Chromosome I sequences
  - Genes annotated to phenotype
  - Basic gene information

Alliance Neo4j
- integrated data from several model organisms
- Neo4j graph database
- available as Docker container