



SEEK and Find: A Platform for Experimentalists and Modellers

Katy Wolstencroft, Martin Golebiewski, Olga Krebs, Stuart Owen, Quyen Nguyen, Dawie van Niekerk, Franco du Preez, Andreas Weidemann, Lihua An, Meik Bittkowski, Ivan Savora, David Shockley, Jacky L. Snoep, Wolfgang Mueller and Carole Goble.

<http://seek4science.org>

Find, share and exchange Data, Models and Processes within the Virtual Liver Network.

virtual liver network

Yellow Pages | ISA | Biosamples | Assets | Events | Help

Provide Feedback

Search Items by Scale

all -
organism -
liver -
liver lobule -
intercellular -
cell -
+

Managing Systems Biology Projects

The SEEK is a web-based environment for scientists to manage and/or share Systems Biology assets; data, models, SOPs and publications.

exchange Data, Models and Processes within the SysMO Consortium.

SysMO Consortium
Systems Biology of Microorganisms

Assets | Activities | Account | Documentation

sulfolobus Assays External Search

matched 'sulfolobus' within their title or content.

Drag this icon over to your Favourites to save this search.

Assays (13)

PGK

ID: 16
Assay type: Experimental assay type
Technology type: Initial_rate_experiment
Investigation: Central Carbon Metabolism of Sulfolobus solifarius
Study: Model gluconeogenesis

Owner: Jacky Snoep
Projects: SulfoSys
Organisms: Sulfolobus solifarius - P2
SOPs: Expression of S. solifarius enzymes in E. coli... Preparation of cell free extract of recombinant... Protein purification from E. coli extracts.
Data files: Model simulation and experimental data for ADP - PGK kinetics 3PG, PGK kinetics ADP, PGK kinetics ATP, PGK kinetics BPG

Kinetic characterisation of Phosphoglycerokinase

Created: 29th January 2013 at 15:18 Last updated: 4th February 2013 at 15:33

SEEKs for Different Communities

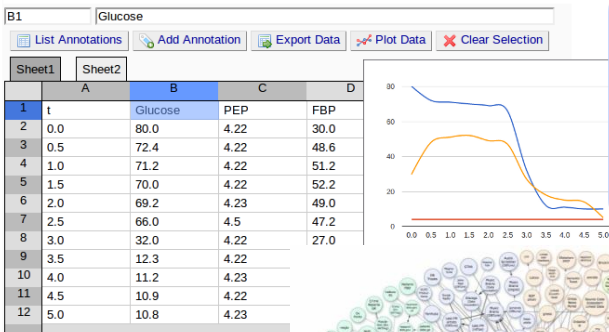
The SEEK was developed for the SysMO consortium and the Virtual Liver Network, but the software is already being used by more than 10 other consortia across Europe.

The differences between the consortia drive the development of different interfaces and tools, allowing new users to construct a customised SEEK from configurable components, or to install a pre-configured Virtual Machine image.

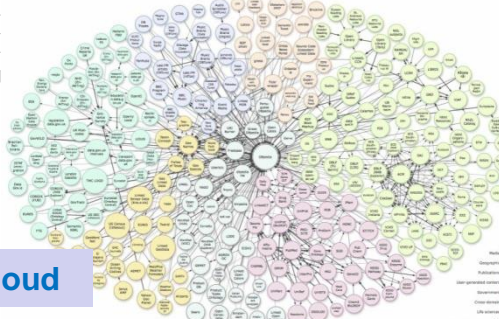
Exploring, Annotating and Simulating Models

The integrated JWS online tool allows the simulation of models, standards-compliant annotation, and comparisons of simulation and experimental results.

Integration with other tools, such as Cytoscape, BioModels and Copasi, allow further visualisation, analysis and management.



Exploring and plotting data



Linked Data Cloud

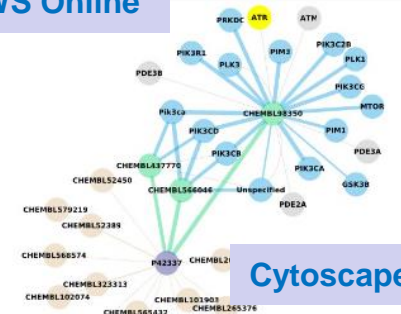
Exploring, Annotating and Analysing Data

Standards-compliant datasets can be shared, stored and explored through SEEK. Users can plot graphs and add further annotation to data, as well as linking them to relevant models.

As data is uploaded to SEEK, it is extracted and stored as RDF, a semantic web standard that allows sophisticated querying and enables SEEK data to become part of the web of Linked Data.

JWS Online

JWS Online



<http://seek.virtuelle-leber.de/> <http://www.sysmo-db.org/>



Heidelberg Institut für Theoretische Studien



UNIVERSITEIT-STELLENBOSCH-UNIVERSITY
jou kennisvenoot-your knowledge partner