Chem Biography Fact Sheet

Overview

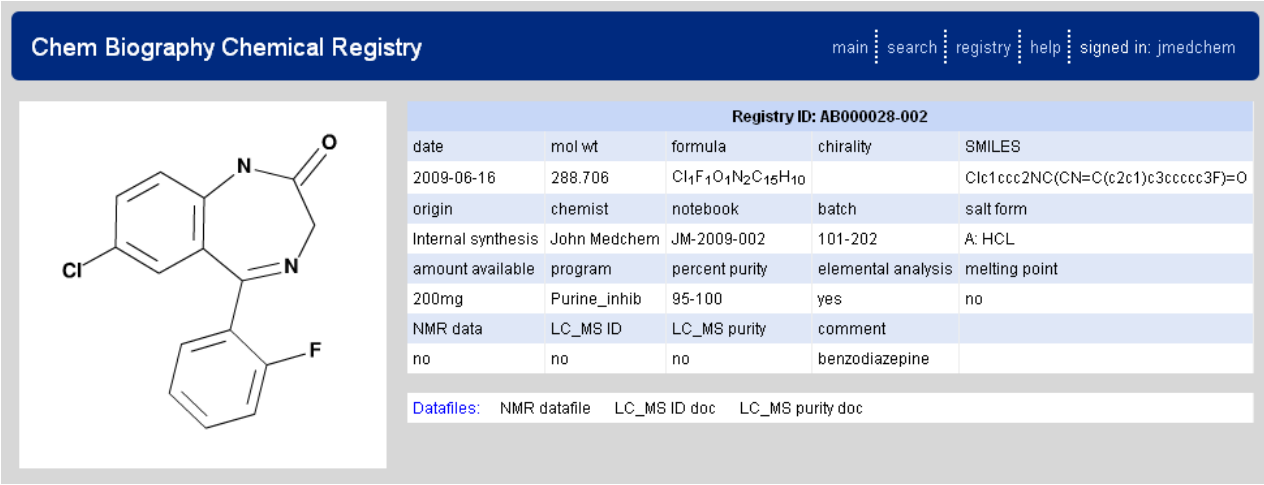
We are pleased to introduce Chem Biography, a full-featured discovery research informatics solution designed for both commercial and academic organizations. If your organization is engaged in research and you have contemplated improving the management of your data in order to facilitate your discovery efforts, Chem Biography represents an ideal solution. We are a particularly attractive option for University labs and biotech startups. Our platform provides four principal components:

- Chemical registry system
- Biological records database
- Web based search and query engine
- Simple to use administrative interface

Chemical Registry

The chemical registry system provided by Chem Biography is designed to be both state of the art and highly customizable to fit the organization's specific needs. Data corresponding to a given molecule are entered via a web based interface (local to computer or organization's intranet) and submitted. The Chem Biography software automatically calculates molecular weight, formula, chirality, and SMILES string properties and checks the database for existing entries with the same structure. A new registry ID or version/batch ID is assigned based on the uniqueness of the structure and the configuration specified by the user. Two important features of the chemical registration system are:

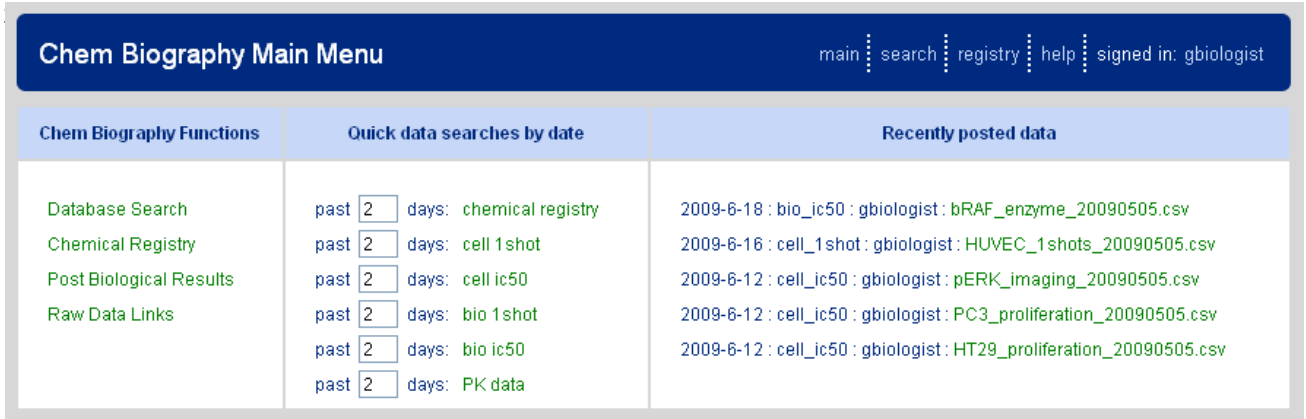
- A robust yet facile to use java based drawing tool for inputting structures. The tool includes ring templates, chain drawing, and a full range of atom types. It satisfies all the needs of a medicinal chemist.
- The ability to easily and rapidly upload associated analytical data (e.g. NMR or LCMS spectra files). Data are uploaded via the web page, stored in the database for retrieval at any time, and are immediately accessible via hypertext links from the Chem Biography web pages.



Biological Records Management

The Chem Biography biological data records management system allows for consolidation of disparate biological data into a unified and readily searchable database. Data are uploaded directly via Excel XLS or CSV format files; or alternatively, read from a LIMS system output directory. Once biological results are posted for a set of molecules, they are immediately merged with the corresponding chemical data for those molecules. Important aspects of the biological data management tool are:

- The database is readily configurable to handle result sets different experiment types - enzyme assays, cellular screens, PK analysis, in vivo data



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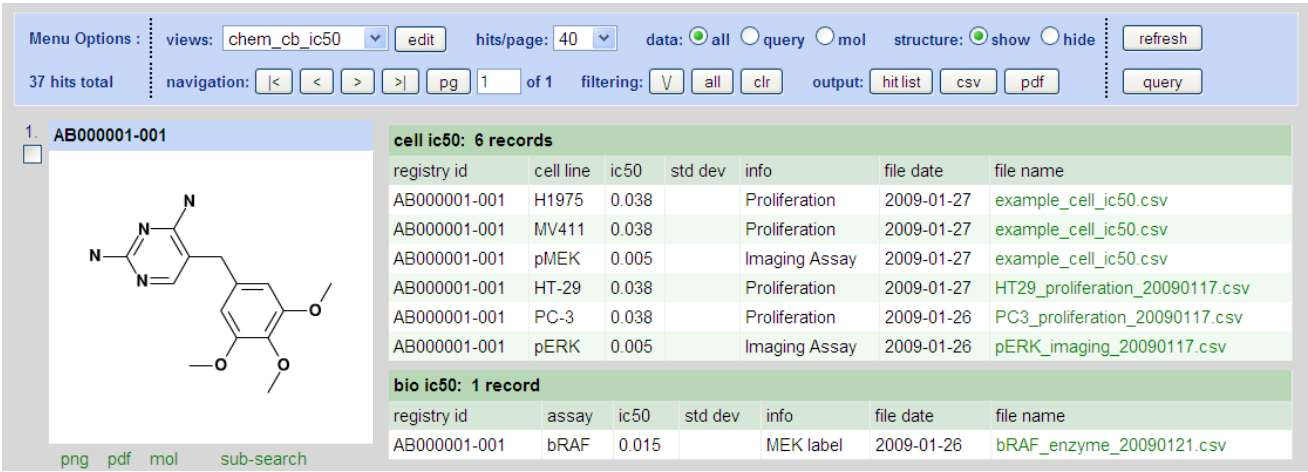
- Associated visual data, e.g. gel images, graphs, FACS analysis, high content screening can be uploaded and linked to the biological results.
- The original data file is stored and may be retrieved at any time.

Database Query

The most important result of organizing your data is the ability to learn from it, so called information to knowledge transformation. To accomplish this objective, however, you need to be able to effectively query the data. Chem Biography is particularly skilled in this regard. You may query by multiple means with simple or compound queries:

- Chemical substructure
- Biological or chemical query
- Input of registry ID(s)

Once the query results are returned they are displayed in a web friendly mode and can be further manipulated via filtering and list logic. One may output results in pdf, csv, or lists of hit registry numbers. Note also that structures render in SVG format for superior display and portability.



Business and Pricing Model

Chem Biography is provided as a preconfigured computer with software installed. The computer may be used as a standalone workstation (walkup model) or integrated into your network to provide web based *intra*net access to multiple users. All 3rd party software requirements are unencumbered open source. Technically, Chem Biography is built using Apache, PostgreSQL, Python, and compiled C code. It is fully platform independent. We charge an annual license fee for our platform as follows:

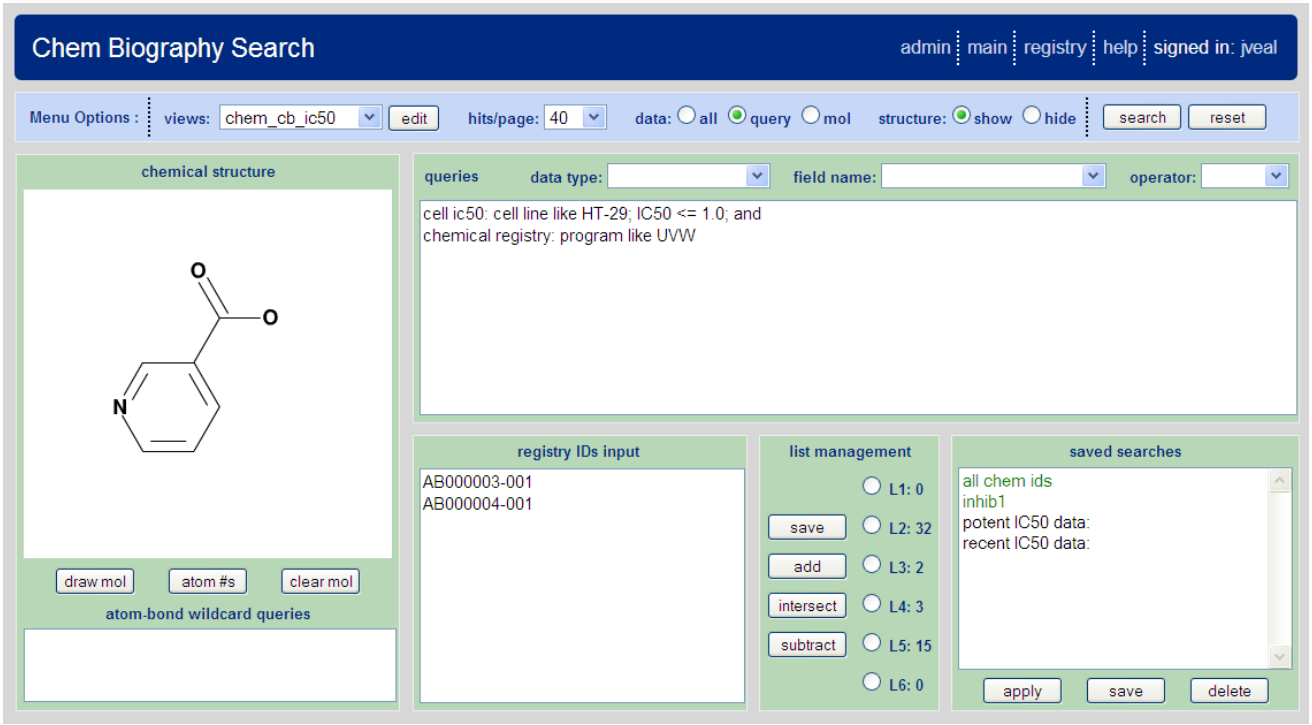
- Stand-alone, walkup workstation model

  $4,800 commercial / $3,600 academic

- Network server model

  $12,400 commercial / $9,300 academic

We fully guarantee our product and provide a full refund for up to 30 days and pro-rated refund for the current license period at any point afterwards.



Learn more:
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