

## Poster G-27

### IntAct - An extensible open source framework for molecular interactions



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**Short Abstract:** IntAct is an extensible open source framework for molecular interactions. The project aims at defining a standard for the representation and annotation of molecular interaction data and providing a public repository populated with experimental data from project partners and curated literature data. It contains more than 110.000 interactions and is available at <http://www.ebi.ac.uk/intact>

#### Long Abstract:

IntAct is an extensible open source framework for molecular interactions. The project aims at defining a standard for the representation and annotation of interaction data and providing a public repository populated with experimental data from project partners and curated literature data. Additionally, a set of applications is available to manage the IntAct repository and analyse the data. The framework relies on a relational database system which can be either Oracle or PostgreSQL and integrates:

A user-friendly web interface that allows to:

- browse data using a search engine which features intelligent lookup up by protein name, various cross references such as Uniprot, Interpro, Go, Pubmed, Flybase...
- display interactions graphically using an interactive 2D visualisation system. It also features showing interaction networks in the context of Go / InterPro annotations,
- perform analysis on the data existing in the repository such as to predict targets for pull-down experiments.

A curation system that allow multi-user access.

A local installation mode allowing to:

- build a local IntAct repository,
- import and export data using the PSI MI XML format (<http://psidev.sf.net/mi/>).

The system is publicly available since August 2003 and contains more than 110.000 binary interactions and complexes. The data are released on a weekly basis and are available in PSI-MI XML 1.0 and 2.5 format at: <ftp://ftp.ebi.ac.uk/pub/databases/intact>

If you want to create a local IntAct instance, get the public data, submit your data or simply use the central and freely available instance of IntAct, it is accessible at <http://www.ebi.ac.uk/intact>