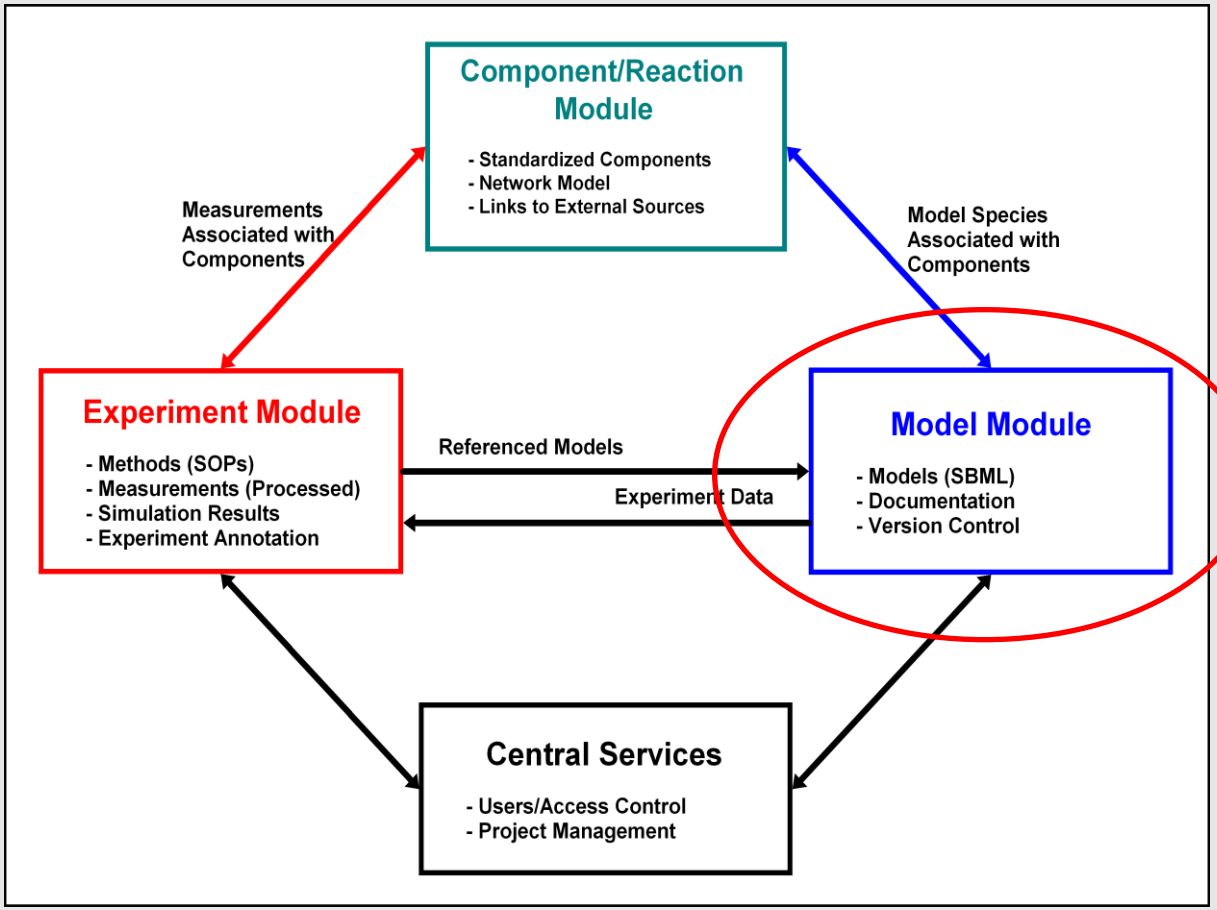
jummp

alpha release available at

http://wwwdev.ebi.ac.uk/biomodels-alpha

The Data in Systems Biology



History

A local biomodels was needed (e.g. at DKFZ)

- in 2010: we tried to use the former biomodels code
- But code was hard to extend or even to install
- User restricted access: no way

JUMMP project was created

- Early 2011
- Common project between DKFZ and EBI
- Opensource project

Approach

Approach: Refactoring

- Actual Biomodels is still working properly
- Just the Code base requires modern software design

Requirements:

- Refactoring all old functionality
- User management
- Providing new enhancements
- Proper User interface

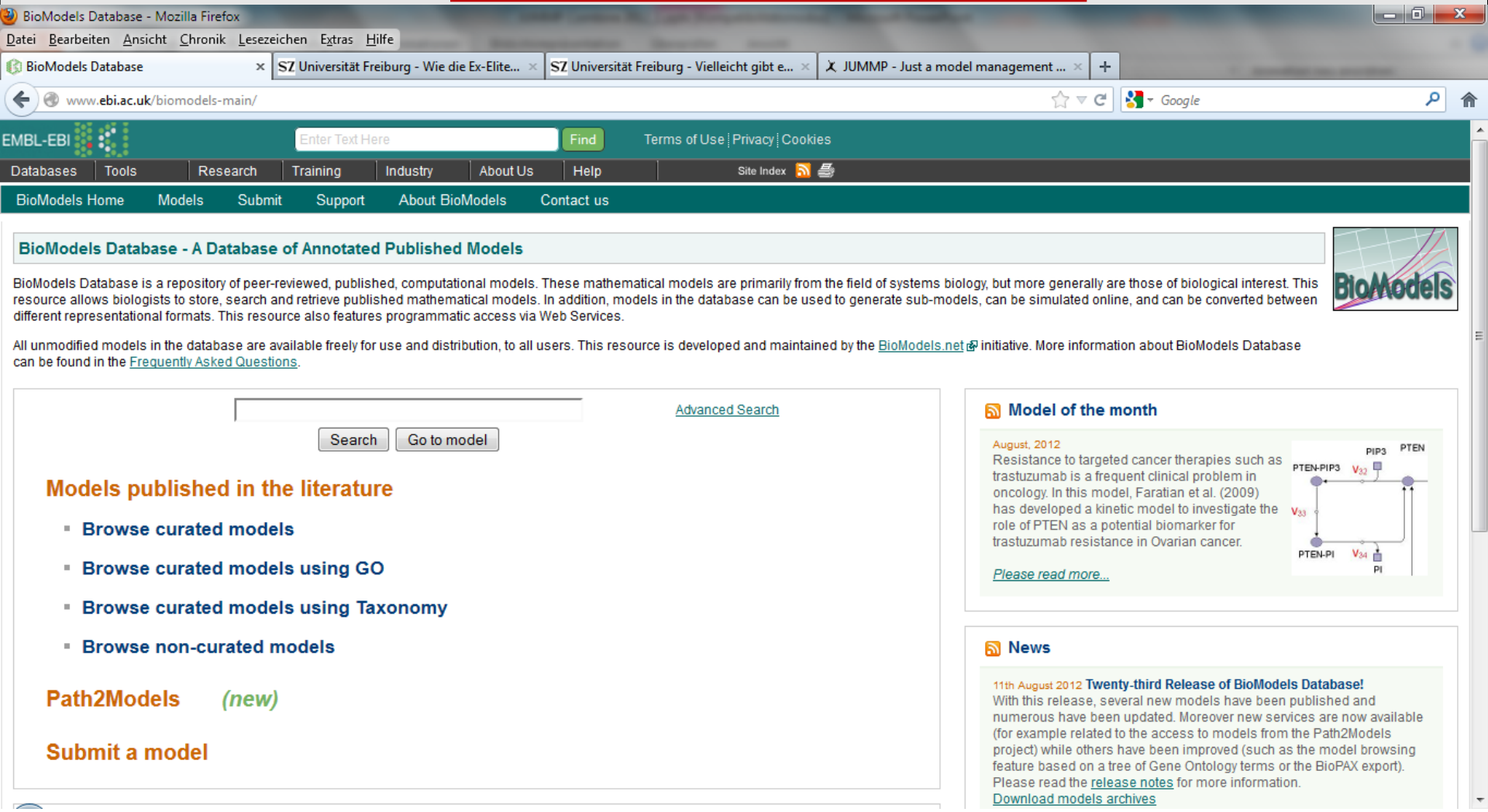
Bioquant +

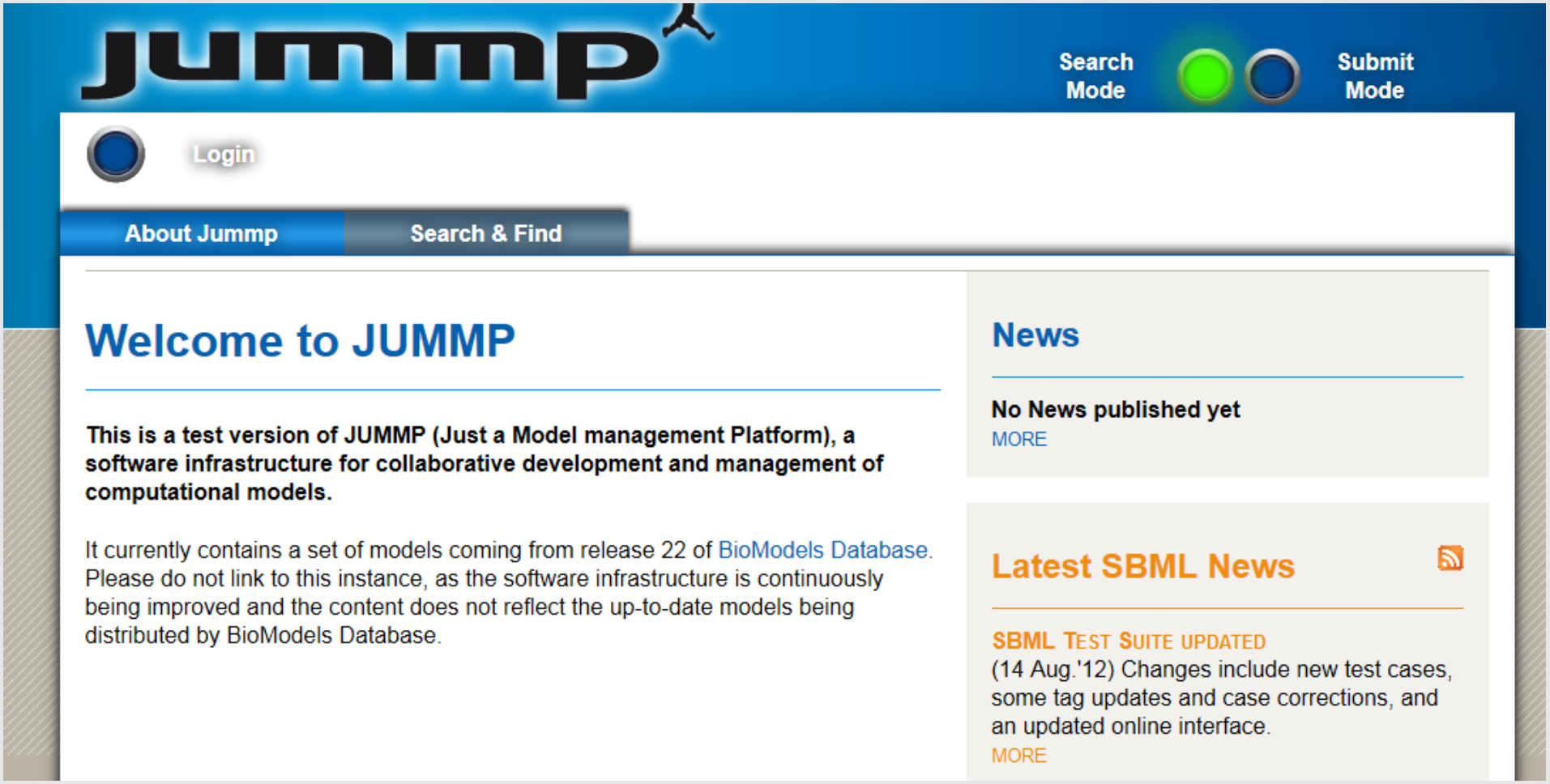
dkfz. GERMAN CANCER RESEARCH CENTER IN THE HELMHOLTZ ASSOCIATION

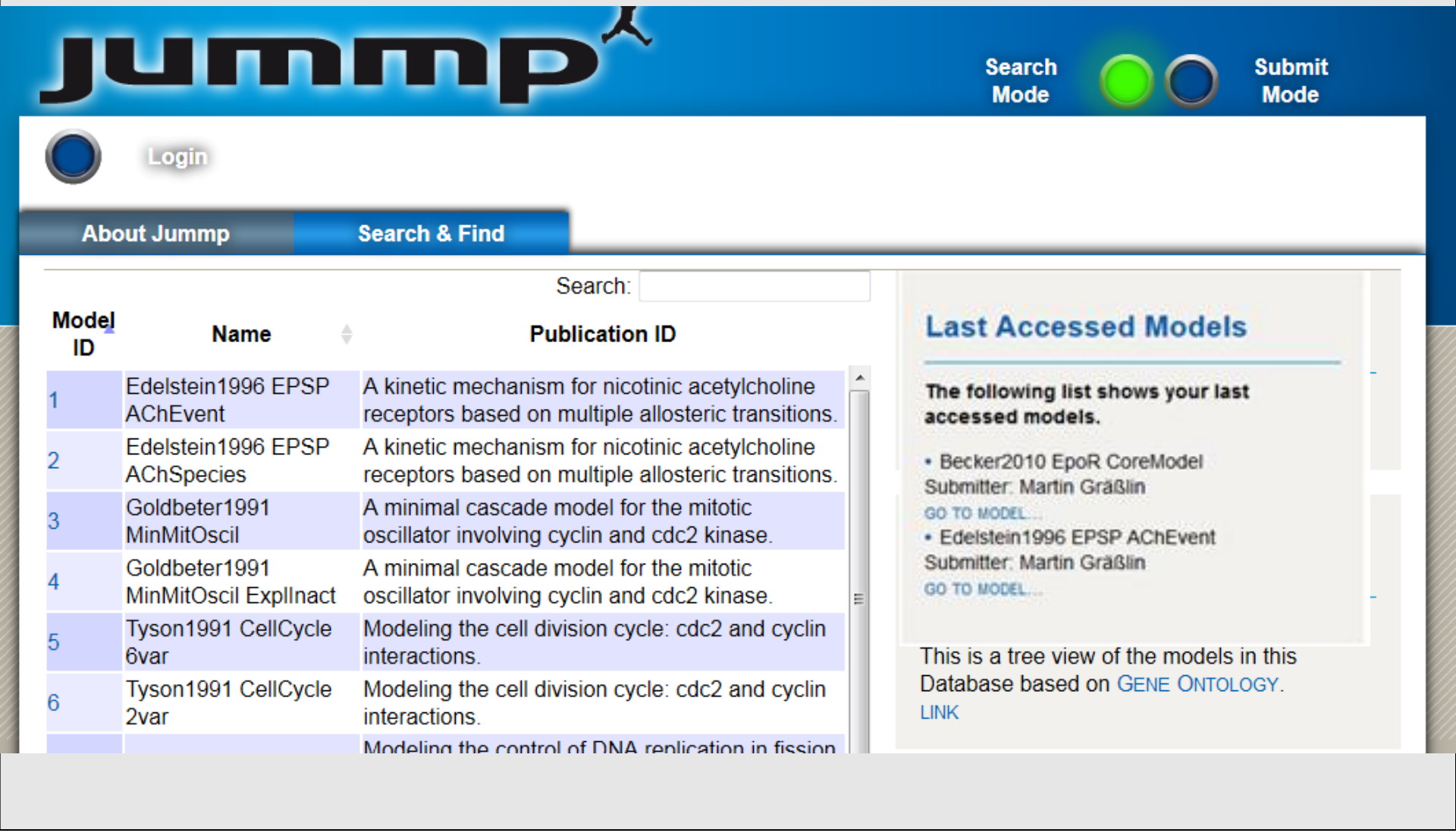
Combine 2012/08/16

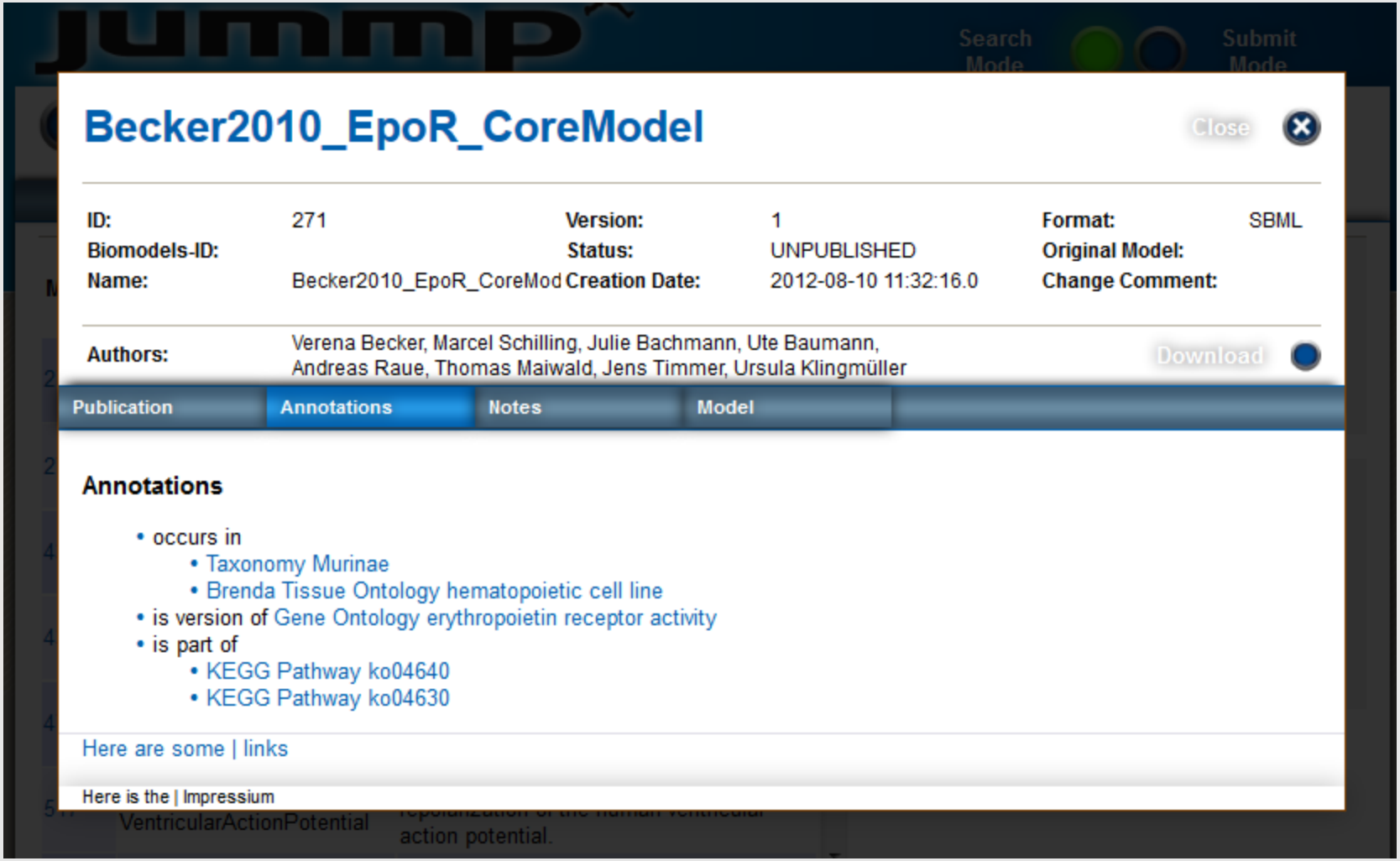
Current biomodels

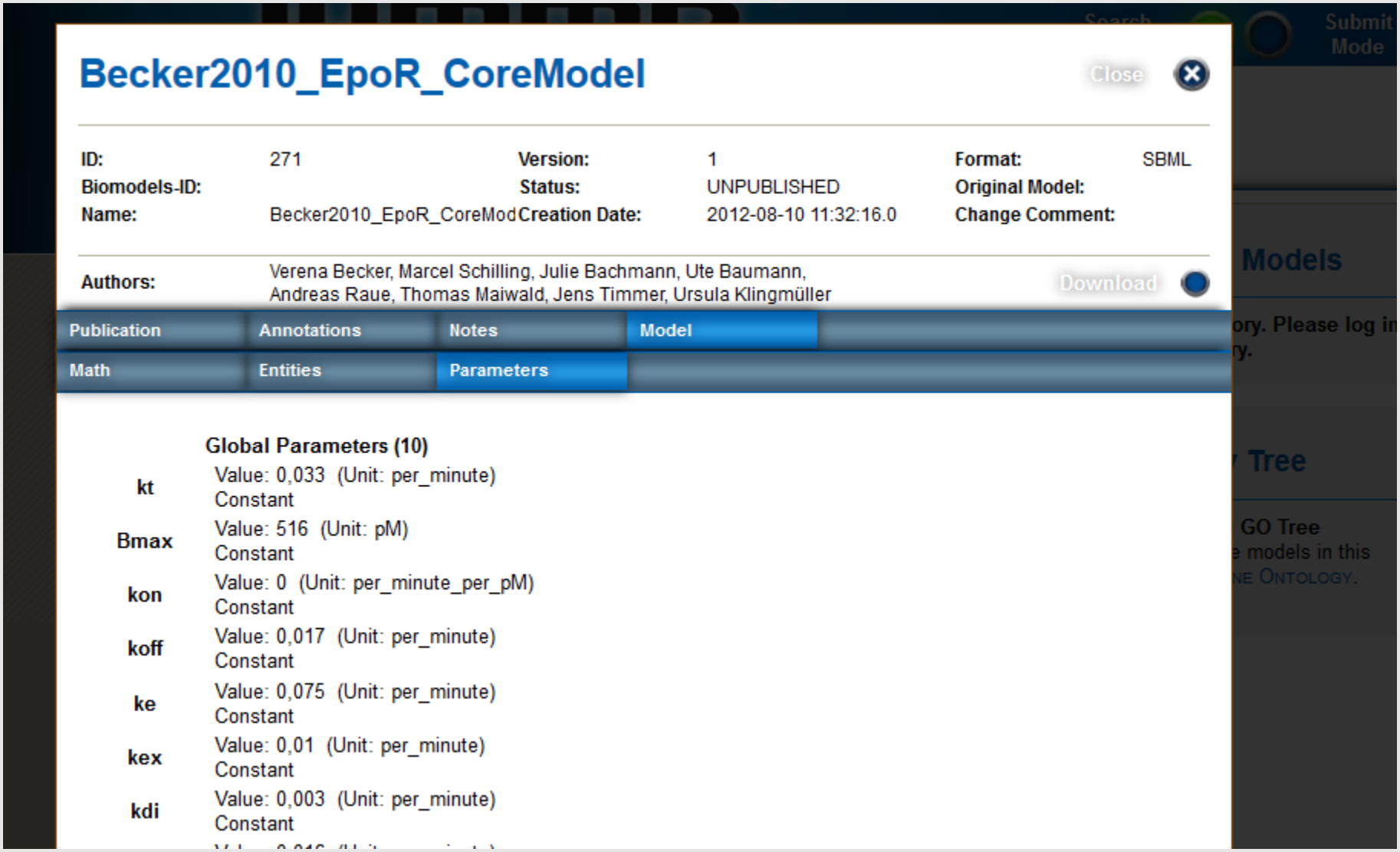
*www.ebi.ac.uk/**biomodels***




jummp
Search Mode
Submit Mode
Login
About Jummp
Search & Find
Welcome to JUMMP
This is a test version of JUMMP (Just a Model management Platform), a software infrastructure for collaborative development and management of computational models.
It currently contains a set of models coming from release 22 of BioModels Database. Please do not link to this instance, as the software infrastructure is continuously being improved and the content does not reflect the up-to-date models being distributed by BioModels Database.
News
No News published yet
MORE
Latest SBML News
SBML TEST SUITE UPDATED
(14 Aug.'12) Changes include new test cases, some tag updates and case corrections, and an updated online interface.
MORE


jummp
Search Mode
Submit Mode
Login
About Jummp
Search & Find
Search:
Model ID
Name
Publication ID
1 Edelstein1996 EPSP AChEvent A kinetic mechanism for nicotinic acetylcholine receptors based on multiple allosteric transitions.
2 Edelstein1996 EPSP AChSpecies A kinetic mechanism for nicotinic acetylcholine receptors based on multiple allosteric transitions.
3 Goldbeter1991 MinMitOscil A minimal cascade model for the mitotic oscillator involving cyclin and cdc2 kinase.
4 Goldbeter1991 MinMitOscil ExplInact A minimal cascade model for the mitotic oscillator involving cyclin and cdc2 kinase.
5 Tyson1991 CellCycle 6var Modeling the cell division cycle: cdc2 and cyclin interactions.
6 Tyson1991 CellCycle 2var Modeling the cell division cycle: cdc2 and cyclin interactions.
Last Accessed Models
The following list shows your last accessed models.
• Becker2010 EpoR CoreModel
Submitter: Martin Gräßlin
GO TO MODEL...
• Edelstein1996 EPSP AChEvent
Submitter: Martin Gräßlin
GO TO MODEL...
This is a tree view of the models in this Database based on GENE ONTOLOGY.
LINK


jummp
Search Mode
Submit Mode
Becker2010_EpoR_CoreModel
Close
ID: 271
Version: 1
Format: SBML
Biomodels-ID:
Status: UNPUBLISHED
Original Model:
Name: Becker2010_EpoR_CoreMod
Creation Date: 2012-08-10 11:32:16.0
Change Comment:
Authors: Verena Becker, Marcel Schilling, Julie Bachmann, Ute Baumann, Andreas Raue, Thomas Maiwald, Jens Timmer, Ursula Klingmüller
Download
Publication
Annotations
Notes
Model
Annotations
• occurs in
• Taxonomy Murinae
• Brenda Tissue Ontology hematopoietic cell line
• is version of Gene Ontology erythropoietin receptor activity
• is part of
• KEGG Pathway ko04640
• KEGG Pathway ko04630
Here are some | links
Here is the | Impressium
VentricularActionPotential
action potential.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Download
Publication
Annotations
Notes
Model
Math
Entities
Parameters
Global Parameters (10)
kt
Value: 0,033 (Unit: per_minute)
Constant
Bmax
Value: 516 (Unit: pM)
Constant
kon
Value: 0 (Unit: per_minute_per_pM)
Constant
koff
Value: 0,017 (Unit: per_minute)
Constant
ke
Value: 0,075 (Unit: per_minute)
Constant
kex
Value: 0,01 (Unit: per_minute)
Constant
kdi
Value: 0,003 (Unit: per_minute)
Constant
Submit Mode
Models
Tree
GO Tree

jummp
jmks
LOGIN

Next steps

More functionality in UI

- Version control (backend from Rostock group)
- Advanced search (backend from Rostock group)
- Reaction graph, format conversions (SBFC)
- Submission of a new (or already existing) model
- Curation part (mainly for EBI)
- ….

Path2Models in JUMMP

- Challenge

Provision of JUMMP for DKFZ

- Loading locale models (not yet published)
- Starting with Lungsys consortium

Schedule

Making JUMMP available for download (war)

- Next month

Providing survey

- Getting your feedback
- Probably in autumn

Going productive

- Next Harmony

DKFZ/Bioquant:
Jürgen Eils
Martin Gräßlin,
Jochen Schramm

EBI:
Nicolas le Novere
Camille Laibe
Mihai Glont

University of Rostock:
Ron Henkel
Robert Hälke

https://bitbucket.org/jummp/jummp/

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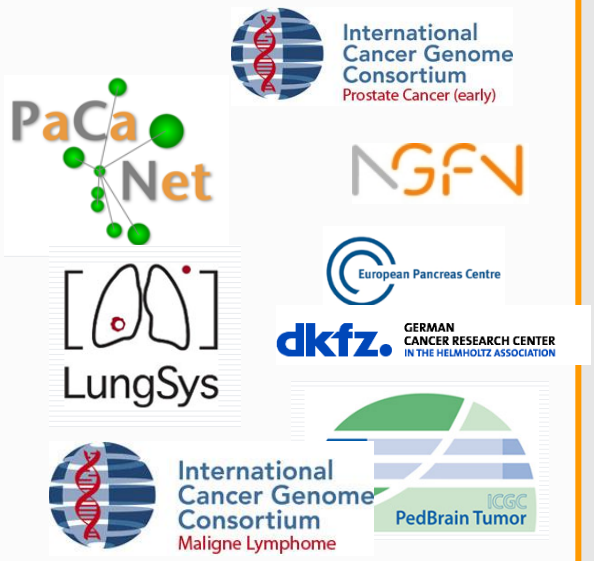
2012/08/16

NGS Partners



- European Pancreas Center
- NCT
- DKFZ
- NGFN (Pancreas Net, Engine and Brain Tumor Net
- ICGC Pedbrain, Prostate and Maligne Lymphoma
- DEEP (IHEC)
- DKTK
- HIPO

Imaging Partners

- Viroquant
- Bioquant
- Biochemistry Center Heidelberg
- NGFN ENGINE
- Medsys and cancersys
- EU Mitocheck

SB Partners

- EBI
- SBCancer
- Forsys
- Bioquant
- Medsys and Cancersys
- eBio
- SYSMO