

Figure for Foreground Activities

The image shows the top navigation bar of the IMEx Central website. The logo 'IMEx Central' is on the left. The navigation menu includes 'HOME', 'Tools', 'Admin', 'Preferences', and 'About' in a purple bar. Below that, 'Browse', 'Search', 'Add', and 'Statistics' are in a yellow bar. At the bottom of the navigation, 'Publication' and 'Journal' are in a grey bar. The main content area is titled 'Add a Publication'. It features a 'PMID:' label followed by a text input field and an 'Add' button. Below this, the word 'OR' is displayed. The second section has 'Author(s):' and 'Title:' labels, each followed by a text input field, and an 'Add' button at the bottom.

Fig. 1 Users may request curation of a specific publication through IMEx Central

Dashboard | Search | Curate | Bulk Op. | Reviewer | Admin | My Notes | Sandra Orchard | Logout

**IntAct** Thedieck et al (2013) ( 23953116 )  
 curation in progress, owned by orchard

Main Tools

READY FOR CHECKING SAVE

**Publication Details**

Identifier: 23953116 Auto-complete AC: EBI-8821945 IMEx Id: IM-21653

Title: Inhibition of mTORC1 by astrin and stress granules Year: 2013

Contact email: k.thedieck@umcg.nl

Dataset(s): -- Select Dataset -- Add Create new dataset

Curation depth: IMEx

On hold: Clear

**Creation**  
 ORCHARD 2013-10-24 12:14:48.0  
**Last update**  
 ORCHARD 2013-10-24 12:14:48.0

Experiments (4) Interactions (19) Xrefs (2) Annotations (7) Aliases (0) Lifecycle

New experiment

AC	Shortlabel	Interaction detection method	Participant detection method	Host organism	# Interactions	Actions
EBI-8821960	thedieck-2013-1	anti bait coip	western blot	human-hela (9606)	13	✕
EBI-8822050	thedieck-2013-2	pla	antibody detection	human-hela (9606)	4	✕
EBI-8822163	thedieck-2013-3	anti bait coip	sequence tag	human-hela (9606)	1	✕
EBI-8822176	thedieck-2013-4	confocal microscopy	tag fluorescence	human-hela (9606)	1	✕

Fig. 2 The Publication-level view of the web-based curation tool

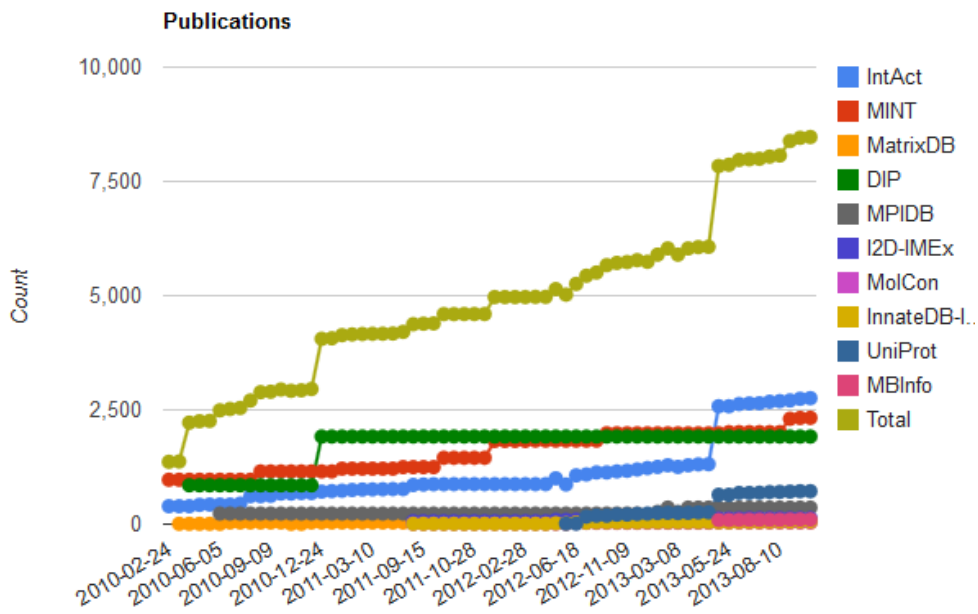


Fig. 3A Increase in dataflow throughout the lifetime of the grant measured by publications curated

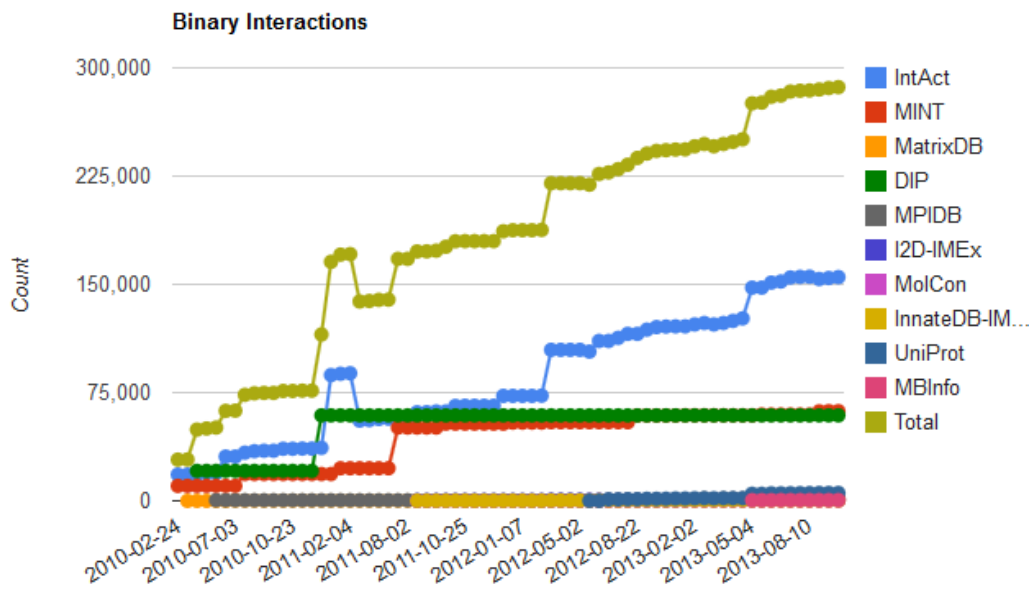



Fig. 3B Increase in dataflow throughout the lifetime of the grant measured by interactions curated

**IMEx** The International Molecular Exchange Consortium Home Admin

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## Home



**Search the IMEx data resource**

Use as input:

- Uniprot KB Accs
- Gene names
- Publication Ids

### IMEx data

- A non-redundant set of protein-protein interaction data from a broad taxonomic range of organisms
- Expertly curated from direct submissions or peer-reviewed journals to a consistent high standard.
- Available in standard formats [MITAB](#) or [PSI-MI XML 2.5](#)
- Provided by a network of participating major public domain databases.

### Citing IMEx

Orchard, S., et al.

[Protein interaction data curation: the International Molecular Exchange \(IMEx\) consortium Nat Methods 2012, 9, 345-350](#)

### Funding

IMEx is funded by the European Commission under [PSIMEx](#), contract number FP7-HEALTH-2007-223411

### IMEx Partners








 DIP	 IntAct
 MINT	 I2D
 MatrixDB	 MBInfo
 UniProt	 InnateDB
 Molecular Connections	 SIB
	 BioGRID

Fig. 4 The IMEx Consortium website.

To create new publications go to the [Curate](#) section.

Show status:  New  Curation in progress  Ready for checking  Accepted on hold  Ready for release  Released

Publications owned by you (31) | **Publications reviewed by you (26)** | All the publications (191)

Pub. ID	Title	# Exps.	# Inter.	Owner	Reviewer	Status
23953116	Inhibition of mTORC1 by astrin and stress granules prevents apoptosis in cancer cells.	4	19	orchard		curation in progress
23953113	The yeast ski complex: crystal structure and RNA channeling to the exosome complex.	5	7	orchard	pporras	ready for checking
23911326	A prolyl-isomerase mediates dopamine-dependent plasticity and cocaine motor sensitization.	6	12	orchard	mgt	ready for checking
24034246	Molecular Architecture of the ATP-Dependent Chromatin-Remodeling Complex SWR1.	7	12	orchard	mgt	ready for checking
23910378	Structure-Function Analysis of STING Activation by c[G(2',5')pA(3',5')p] and Targeting by Antiviral DMXAA.	2	13	orchard	mgt	ready for checking
23870121	SET1 and p300 act synergistically, through coupled histone modifications, in transcriptional activation by p53.	7	25	orchard	mgt	curation in progress
23890821	Deubiquitinases sharpen substrate discrimination during membrane protein degradation from the ER.	4	4	orchard	mgt	ready for checking
23911321	Pharmacological inactivation of Skp2 SCF ubiquitin ligase restricts cancer stem cell traits and cancer progression.	5	7	orchard	mgt	ready for checking
23746845	Rif1 and Rif2 shape telomere function and architecture through multivalent Rap1 interactions.	5	7	orchard	mgt	curation in progress
23911324	Coupling of mitochondrial import and export translocases by receptor-mediated supercomplex formation.	3	9	orchard	pporras	ready for checking

Legend:  Accepted  Rejected  Rejections addressed  No Action

Fig. 5 Cross-checking of entries through the web-based editorial tool

**Biacore PSI-MS Export Utility [Just a first prototype]**

File About

Submitter Information

Name:  E-mail:

Organisation:  Web address:

Postal address:  Publication database:  Search...

Publication id:

Ligand Information

Accession id:  Search...

Full name:

Molecule type:

Organism:

Binding site:

Mutation:

Tag:

Analyte Information

Database:  Open database...

Accession Id:

Full name:

Binding site:

Mutation:

Tag:

Interaction Parameters

KD:  [M] Standard error KD:  Temperature:  [K]

k<sub>a</sub>:  [1/Ms] Standard error k<sub>a</sub>:  pH:

k<sub>d</sub>:  [1/s] Standard error k<sub>d</sub>:  Fitting model:

Help Options... Submit... Exit

Fig. 6 The proposed Biacore-PSI user-interface

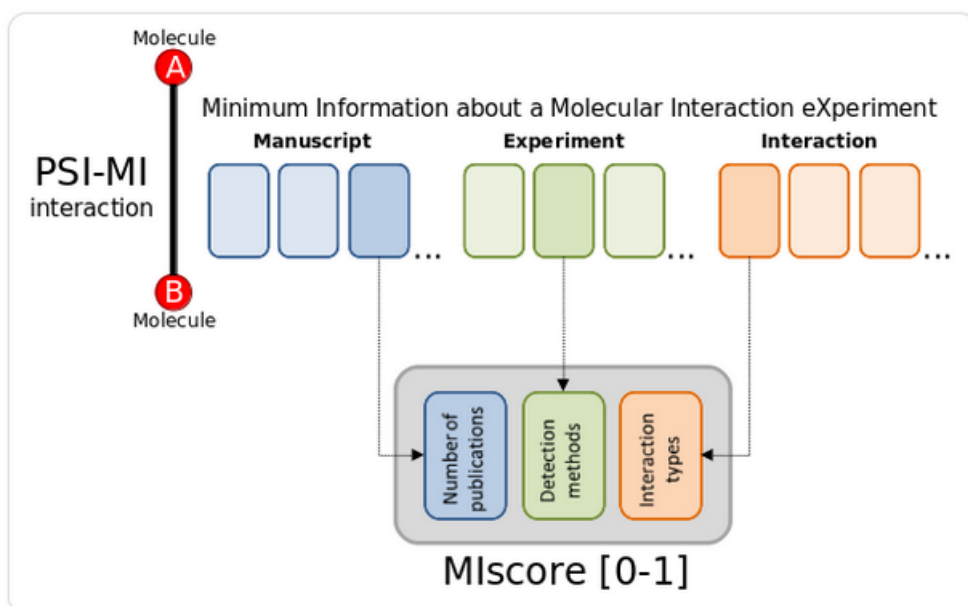


Fig. 7 The mIscore system

## Figure for Dissemination Activities



Fig. 8 A session at the 2013 Interactions and Pathways course held at EMBL-EBI



## Figure for Exploitation of results

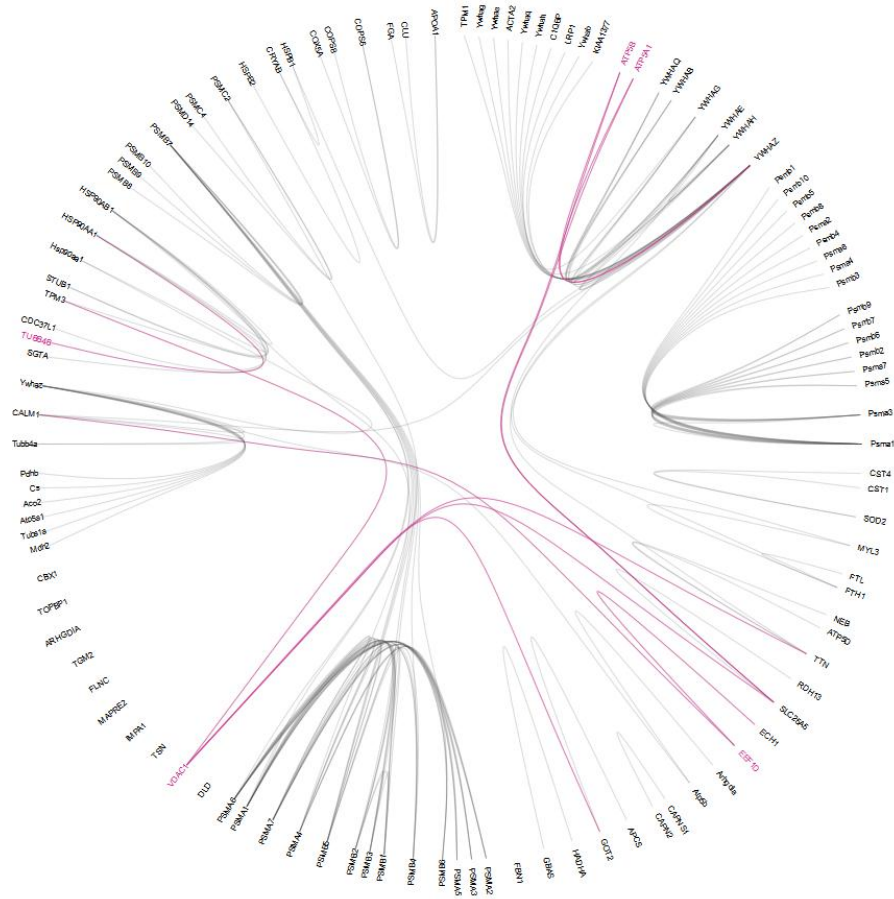


Fig. 9 Proteins involved in Protein Metabolism highlighted on a human proteasome interactome built in COPaKB using IMEx data