Since its public launch in 2007, myExperiment has established the largest collection of scientific workflows publicly available.

Over 500 public workflows.
Tailored to the needs of researchers

Making it really easy to...

Store | Share | Discover | Curate | Attribute

... Research Objects
Build communities | Form relationships
Share your workflows and files

Control access to your workflows and files

Find workflows and files that others have shared

Tag and rate workflows and files

Find people and make friends

Build your profile and reputation

Have discussions and collaborate

Maintain and use different versions of workflows

Execute workflows directly within myExperiment (if you have access to a remote Taverna enactor)

Write reviews and comments

Build packs of related content

Reuse and repurpose workflows (and other files!)

Send messages to other people on myExperiment
“Facebook for Scientists” ...but different to Facebook!

- A repository of research methods
- A community social network of people and things
- A Virtual Research Environment

Open source (BSD) Ruby on Rails application with HTML, REST and SPARQL interfaces

- Project started March 2007
- Closed beta July 2007
- Open beta November 2007

myExperiment currently has over 1900 registered users, 150 groups, 700 workflows, 200 files and 60 packs.

Go to [www.myexperiment.org](http://www.myexperiment.org) to access publicly available content or create an account.
Why?

What was the motivation?
Scientific Workflows

- Experimental protocols
- Automation of data flow
- Linking up data sets and iteration over large data sets
- Data gathering and annotation pipelines
- Data analysis from distributed tools
- Data mining and knowledge management
- Hypothesis generation and modelling
- Literature mining
- ... and so on

“Pathways from Diff Expressed Genes”
Paul Fisher
http://www.myexperiment.org/workflows/19
Experiments & Reuse

- Workflows are protocols and records.
- Workflows are know-how.
- Workflows are collaborations.

- Workflow design is challenging and labour-intensive.
- Reuse is highly desirable.
- Reuse is a challenge.
Workflows are:

- explicit method
- blueprints
- protocols and records.
- know-how.

- asynchronous collaborations.
- promoters of cross-disciplinary collaborations.

- often complex.
- need explanations to use properly and safely.
- challenging to develop.
- can be good and can be bad.
• research assets.
• tradable commodities.
• publishable.
• combined with data and scholarly works.
• reproducible science.
• or at least transparent.
• and accountable.
Workflow Entry: Microarray CEL file to candidate pathways (Taverna Workflow)

Created at: 08/02/08 @ 14:17:23  Last updated: 04/08/08 @ 15:43:16

Title: Microarray CEL file to candidate pathways
Type: application/vnd.taverna.scufl+xml

(Click on the image to get the full size)
Emphasis on the special requirements of researchers...

Ownership | Credit | Attribution | Licensing | Visibility | Sharing |
Upload Workflow

1. Workflow file/script

![Browse button]

2. Main metadata

- Attempt to infer metadata (and possibly generate preview images) from the workflow file/script
- Enter custom metadata

3. Other metadata and settings

- Tags

- Credit and Attribution
  
  Defaults: you are the only person who gets credit; no attributions.

- Sharing
  
  Defaults: anyone can view and download; no one is allowed to update; and not shared with any Groups.

- License/Rights
  
  Default: people are allowed to build on this Workflow, but must give author(s) credit and give attribution to this Workflow. They must also share under the same conditions. *(Creative Commons Attribution-Share Alike 3.0 License)*
Here you can specify who can view and **download** this Workflow on myExperiment.

You can also set **update** permissions for this Workflow. Click here for more information.

You can also explicitly share this Workflow with your Groups.

### Who can view and download this Workflow on myExperiment?

- Anyone can view and download.
- Anyone can view, but only my Friends are allowed to download.
- Anyone can view, but no one can download.
- Only my Friends can view and download.
- Only my Friends can view, but no one can download.
- This is a private Workflow - only I can view and download (and any Groups I explicitly share with).

### Who can update this Workflow on myExperiment?

Note that settings here take precedence over the Sharing permissions above. So those with updating privileges will automatically get to view and download as well.

- All those who can view AND download (from your View/Download permissions above).
- All my Friends.
- Some of my Friends
- No one else (except for me and any Groups explicitly given update permissions).

### Share with my Groups:

- NBIConWorkflows: View and Download only
- myGrid: View and Download only
- myExperiment Hackers: View and Download only
Keeping up with activity...

New | Tags | People | Friends | Items | Updates | Events
Today

17:34 Ssa and Sergey became friends.
17:34 Sergey requested friendship with Ssa.
17:28 Pete shared (full access) WRS Form File with Sergey.
17:25 Sergey invited Pete to join the SKUA Group.
13:52 Sergey updated version 2 of the Unique keywords Workflow.
11:44 Sergey added version 2 of the Unique keywords Workflow.
11:42 Sergey updated version 1 of the Unique keywords Workflow.
11:36 Sergey created the Unique keywords Workflow.
11:36 Sergey credited themself for Unique keywords Workflow.

Yesterday

17:44 Sergey shared (view & download only) Batch script to start GemServer File with Poiuy Group.
17:44 Sergey updated the Batch script to start GemServer File.
17:44 Sergey shared (full access) Batch script to start GemServer File with Pete.
17:44 Sergey shared (view & download only) Event Logging Suggestions File with Poiuy Group.
17:44 Sergey updated the Event Logging Suggestions File.
17:43 Sergey shared (view only) asdfasdfsdf3d Pack with myGroup Group.
17:43 Sergey updated the asdfasdfsdf3d Pack.
17:43 Sergey shared (full access) asdfasdfsdf3d Pack with Stephen.
17:43 Sergey updated the asdfghjkl; Pack.
17:43 Sergey shared (full access) asdfghjkl; Pack with Poiuy Group.
17:43 Sergey updated the Test pack Pack.
17:43 Sergey shared (view & download only) Test pack Pack with SKUA Group.
17:42 Sergey updated the test_pack_first_activity Pack.
17:42 Sergey shared (view & download only) test_pack_first_activity Pack with myGroup Group.
17:41 Sergey tagged Various Stuff Pack with "test".
17:41 Sergey updated the Various Stuff Pack.
17:41 Sergey credited the myExperiment Hackers United Group for events table sketch File.
17:41 Sergey updated the events table sketch File.
Collecting together different types of research assets...

Workflows | Data | Results | Examples |
Provenance | Tags | Documentation |
Papers | Websites | Images
User X: “my experiment is not just a workflow!”
What are Packs?

Packs allow you to **collect different items** together, like you might with a "wish list" or "shopping basket". You do this by **linking** to different things.

You can link to internal things (such as workflows, files and even other packs) as well as link to things outside of myExperiment.

Your packs can then be shared, tagged, discovered and discussed easily on myExperiment.
Functionality can be accessed through simple RESTful APIs...

Wikis | Web apps | Desktop tools | Workbenches | Web services | Google gadgets | Facebook | Mashups | Other interfaces
Search result for keyword: marco roos

workflows(28) users(1) groups(10)

Name: Marco Roos
Joined: 21/Jul/2007 @ 02:43:23
Email: roos@science.uva.nl
Website: http://home.medewerker.uva.nl/m.roos1
Taverna Plugin

- One click' workflow launch from myExperiment to Taverna (using WHIP).
- Browse the example workflows maintained and curated by a member of the Taverna team (Alan Williams).
- Browse the latest workflows from myExperiment.
- Search for workflows from myExperiment.
- View a dynamic and resizeable tag cloud from myExperiment.
- Get workflows based on a tag.

• 'Preview' a workflow - get more information from myExperiment about a workflow.
• Open a workflow in design mode (when in the myExperiment section of the plugin).
• Import a workflow into a current workflow in design mode.
Developer’s Perspective

- Completely user-driven design and development
- Constant interactions with users
- Being agile
- Being proactive AND reactive
- Understanding pros and cons
- Being practical!
- Building highly usable interfaces (HTML, REST, RDF, etc!)
Sister project to myExperiment...

Web Services | Registry | Catalogue | Curated
| Social | Web 2.0 | Search | Register |
Browse | Annotations | Community |
Awesome
BioCatalogue
"The Life Science Web Service Registry"
www.biocatalogue.org

Browse
You can have an overview of the content of the BioCatalogue by browsing our registry and sorting or filtering down the list of Web Services registered.
Browse Web Services

Register
You can easily register Web Services in the BioCatalogue, making them instantly available to the scientific community as well as the tool developers.
Register Web Services

BioCatalogue currently has 1070 services and 83 users


Search
The easiest way to find the Web Service you are looking for is to use the BioCatalogue search functionality below (also available in the action bar at the top of every page).
Search:

Our goals:
- Providing a single registration point for Web Service providers and a single search site for scientists and developers.
- Providers, Expert curators and Users will provide oversight, monitor the catalogue and provide high quality annotations for services.
- BioCatalogue is a place where the community can find contacts and meet the experts and maintainers of these services.

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The BioCatalogue is brought to you by:

Manchester EMBL-EBI and the same people who brought you myexperiment Taverna

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Thank | You