

# MAGMA

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With MAGMA, lists of differentially expressed genes are generated in 4 simple steps:

- **Upload** – Provide the data files packed in a zip-file
- **Annotation** – Name the experimental conditions and assign them to the data files
- **Normalization** – Normalize the two channels in each file relative to each other; this step is optional
- **Analysis** – Select the conditions to compare and let Bioconductor's *limma* package find the differentially expressed genes using linear models

# MAGMA

## Manage Experiments Page

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This page is presented to you after login.

**MAGMA FGCZ** Functional Genomics Center Zurich **uni | eth | zürich**

user: Guest [logout](#)

### Manage experiments

No experiments loaded

### Create a new experiment

Name

Zip file  [Browse...](#)

Must contain files from Axon GenePix, Agilent Feature Extraction or GeneSpotter software

[submit](#)

### Load an example experiment

[P\\_fal lifecycle](#) A subset of time points (see [zip-file](#)) from the *P. falciparum* lifecycle experiment available at the [DeRisi Lab Malaria Transcriptome Database](#).

At your first login you will not yet have any experiments

Create a new experiment by

giving it a name

providing a zip file that contains 2-Channel hybridization data; supported data formats Axon .gpr, Agilent .txt, and GeneSpotter .tbl files

Alternatively have a look at an already processed example experiment

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## Standard Page Layout

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Navigate to the results generated by the previous steps of your analysis

Select the Next processing step

Browse the results of your current step

The screenshot shows the MAGMA web interface. At the top, there is a header with the MAGMA logo, FGCZ (Functional Genomics Center Zurich), and uni | eth | zürich. Below the header, there is a navigation bar with 'Manage experiments' and 'user: Guest logout'. The main content area is divided into two sections. The first section, titled 'Finished Results: Pfal\_lifecycle', contains two items: 'upload 2006-12-22 16:13:11' and 'annotation 2006-12-22 16:16:57'. The second section, titled 'Next:', contains two links: 'Statistical analysis' and 'Normalization'. Below these sections, there is a red header for 'Result: Pfal\_lifecycle - annotation' with a 'commands.r' link. The main content of this section is 'Data Annotation' with a 'Reference Condition: ref' and a table of data.

Name	Filename	Condition of Cy3 Sample	Condition of Cy5 Sample
TP_01a	TP_01a.gpr	early	ref
TP_01b	TP_01b.gpr	early	ref

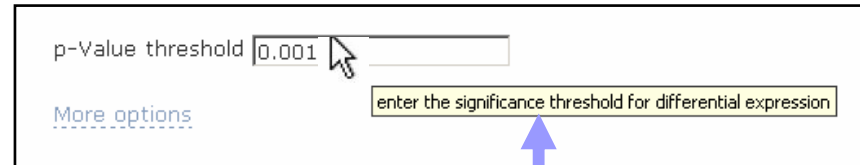
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## Getting Help

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- PDF Documentation is available from: <http://www.magma-fgcz.unizh.ch/pages/help/index.html>

- Tooltip help: Moving your mouse over input fields shows up short tooltips



- Move the mouse pointer over the info icons in the title bars. This brings up short help paragraphs

