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An increasing number of laboratories are using the COPAS Biosort to implement high-throughput approaches to tackle diverse biological problems. While providing a powerful tool for generating quantitative data, the utility of the Biosort is currently limited by the absence of resources for data management. We have constructed a simple database, ICeE (An Interface for *C. elegans* Experiments) designed to allow easy storage and retrieval of Biosort data for *C. elegans*, but which has a wide potential application for organizing other large datasets. We are now extending this interface to provide an integrated data management solution for high-throughput screens. Upstream of ICeE, we will add a laboratory information management system (LIMS), including sample tracking, with barcode identification of 96 well plates. This will be particularly useful for genome-wide RNAi screens. Downstream, we will adapt our genome annotation tool (currently being finalised), to allow projection of results onto the genome browser, within Wormbase. Our aim is to provide a tool that allows seamless data storage and processing capacity for labs conducting large-scale experiments.

Step 1 : Experiment details

Experiment details

Experiment name:

Experiment type:

Add new experiment type:

Date:

Experimenter: Frederic Montanana

File upload possible for protocol details

Step 2 : The protocol

Choice of experiment protocol

Protocol:

Selected protocol details :

Protocol name:

Date:

Author:

Comments:

Step 3 : Genotype

New condition

Choose the condition strain

By strain genotype:

Or by File Maker ID:

Or by CGC strain ID:

Or add an other strain:

Treatments available : Injury, Chemical Exposure, Infection and RNAi.

Step 4 : Treatments

RNAi parameters

Clone name:

Overlaps CDS:

Forward primer sequence:

Reverse primer sequence:

Clone source:

WB version used:

Age exposed:

Exposure Time:

Comments:

Step 5 and 6 : Results file and General Comments

Results

Experiment name: MAPK vs nlp-29

Results files:

Comments

Experiment name: MAPK vs nlp-29


Comments:





Search function

Search **one or more words** in **one or all the fields** of an experiment like the name, the author, the RNAi clone used, ...etc.

- All ----
- Experiment -
- Author -
- Type -
- Protocol -
- Date -
- RNAi gene -
- Mutant gene -
- Ectopic gene -
- Strain: -Genotype -
- File Maker ID-
- CGC Strain ID-
- Comments -
- All ----

Results display

Click on the  icon to View experiment.

Experiment	Type	Date	Author	Protocol	Result files	Protocol files	Edit
 RNAi (tir-1/mec-12)	Rna interference	2009-05-11	Frederic Montanana	protocol test	0	0	
 RNAi tir-1	Rna interference	2009-05-11	Frederic Montanana	protocol test	0	0	

Summary of " MAPK vs nlp-29 " experiment.

Experiment name:

Experiment type:

Experiment date:

Experimenter:




Experiment comments:

Protocol name:

Protocol date:

Protocol author:

Protocol comments:

Download Results	File Name
	FM_MAPKc070509.xls
	FM_MAPKb070509.xls
	FM_MAPK070509.xls

There are 1 condition(s) for this experiment.

Conditions n° 1	
Strain : wt.fris7[pnlp-29::GFP.pcol-12::DsRed]	
Strain genotype: wt.fris7[pnlp-29::GFP.pcol-12::DsRed]	Array name: fris7[pnlp-29::GFP.pcol-12::DsRed] Comments: Array automatically insert
File Maker ID: IG267	CGC Strain ID: not specified
No strain photo available	
Treatment: RNAi L1	
Clone: sji_F55D7.2	WB Clone: 0
Clone Source: Ahringer lab	WB Original Version: WS193
Overlaps current: F55D7.1	WB Current Version:
Primer F: ggcatgacgagagact	Primer R: cgtacgatccaagttacg
Exposure time: 02:02:00	Comments: empty
Treatment: Infection L4	
Pathogen: Drechmeria coniospora	Exposure time: 24:00:00
Pathogen strain: wt	Comments: empty

Summary display of an experiment already added.

Frederic Montanana

More options:

Search:

Exactly this word

A word containing this word

In:

With several keywords:

Find one of these words

Find all these words

How to use ICeE ?

ICeE together with an installation guide and an instruction manual are **freely** available at http://www.ciml.univ-mrs.fr/ewbank_jonathan/software.html.

MySQL database and PHP language used in ICeE are available on Linux and downloadable for Windows and Mac server. ICeE runs on most web browsers, including Firefox, Safari and Internet Explorer. ICeE is under the free licence **GNU General Public Licence** so, modifications for personalizing ICeE are allowed and encouraged.

Thanks to Union Biometrica.