

MICROARRAY DATA UPLOAD:

<http://bioinformatics.psb.ugent.be/cornet/experiments/add>

Add experiment

Unique name:

☐ This is a control experiment.

GSE number: GSE code will be added to DB.

Control experiment:

CEL files:
(The replicates for this experiment.)

Selected cel files:
GSM9573.cel.gz

Add one:

Relative path:

Search keywords:

(search in:)

☒ MGEDOntology
☒ plant environment ontology
☒ plant growth and development stages
☒ plant structure

MO:0000174: MGEDOntology

MO:0000057: MGEDCoreOntology

MO:0000172: AuditAndSecurityPackage

MO:0000180: Roles

MO:0000778: consortium_member

MO:0000601: institution

MO:0000769: investigator: stbod

MO:0000182: BioMaterialPackage

MO:0000206: DeprecatedTerms

MO:0000167: DescriptionPackage

MO:0000031: ExperimentPackage

MO:0000089: MeasurementPackage

MO:0000063: ProtocolPackage

EO:0007359: plant environment ontology

PO:0009012: plant growth and development stages

PO:0009011: plant structure

Annotation:

Keyword Information:

Code: MO:0000769
Name: investigator
Definition: Person who contributed to the study.
Comment:

Keyword chains:

Add keyword to chain:

Chain:

Keyword:

Value:

- add the cel files of 1 experiment by using the browse button (upload control experiments first)

- keep the suggested "Unique name" (here 1212) or change it to your name of preference

- add a general name in the "GSE number" field to describe a set of experiments (e.g. livey_E2Fa). Use this name for all related experiments (controls+trements/mutants)

- indicate if it is a control experiment. if not add the name of control experiment previously uploaded ("Unique name")

- add ontology terms to describe your experiment. Search keywords to find the relevant terms in the ontology tree. More examples can be found on the "Browse experiments" page (<http://bioinformatics.psb.ugent.be/cornet/experiments/>)

Example:

EO:liquid growth media

PO:seedling growth

MO:Ecotype = Col-0

MO:investigator = Mittler R

MO:stimulus_or_stress_design

EXT:gene_knock_in_agi_code = AT5G59820

EXT:gene_knock_in_mutant_name = zat12

Sometimes you need to use “Keyword chains” in your descriptions (right part of the page):

- select keywords you want to link in the ontology tree
- click new chain
- add keywords to chain one by one

Example:

PO:whole plant ~ MO:Age ~ MO:days[= 5]

MO:Compound[= hydrogen peroxide] ~ MO:mM[= 20] ~ MO:timepoint ~ MO:hours[= 1]

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Annotation:

- MO:0000170: biological actor category
 - MO:0000193: Action
 - MO:0000005: BioMaterialCharacteristics
 - MO:0000178: Age
 - MO:0000095: BioSourceType
 - MO:0000055: EnvironmentalHistory
 - MO:0000122: GeneticModification
 - MO:0000066: IndividualGeneticCharacteristics
 - MO:0000229: Organism
 - MO:0000009: StrainOrLine
 - MO:0000070: Compound
 - MO:0000085: MethodologicalFactorCategory
 - MO:0000089: MeasurementPackage
 - MO:0000003: Unit
 - MO:0000061: ConcentrationUnit
 - MO:0000004: DistanceUnit
 - MO:0000210: QuantityUnit
 - MO:0000048: TemperatureUnit
 - MO:0000166: TimeUnit
 - MO:0000513: days: 2
 - MO:0000486: hours
 - MO:0000877: minutes
 - MO:0000391: seconds
 - MO:0000842: weeks

Keyword Information:

Code: MO:0000513

Name: days

Definition: 24 hours, time unit

Comment:

Keyword chains:

1. MO:Age ∞ MO:days[=2]

Add keyword to chain:

Chain:

Keyword:

Value:

- add "investigator" term and fill in your nickname

- click “Add” when all necessary terms are selected

- send an email containing the ID of your experiment to cornet-help@psb.vib-ugent.be when you have finished uploading. If not, your experiments will be removed after 24h.

- If you want to go back and change the annotation of the experiments, you can go to <http://bioinformatics.psb.ugent.be/cornet/experiments/edit>