



WP5

LiceBase Introductory Course

Part 5 RNAi annotation

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Search RNAi

- There are two search forms: by target id (preferred but shows only those with a valid target) and by 'gene symbol', plus the gallery
- Show example of the target-id search with EMLSAG...1500
- Click through a bunch of experiments

Annotate RNAi

- Strategy: entry data asap, that's at least twice per experiment: at start and termination
- Enter mandatory data first: most important to have before starting: Target ID, fragment label ID
- 'Gene symbol': there for historic reason, deprecated!!
- Use only English please
- Do not enter non-sense data just to fill fields
- Clone function should be used with extreme caution
- After completion check the RNAi-checklist

The RNAi form

- Is organized into tabs
- Mandatory fields are in the first tabs only
- Explanation for each field is inline in the form
- Autocomplete fields are there to help, but they are also tricky to use sometimes: you need to select one of the presented values with the mouse!
- A quick example walk through
- Annotating phenotype by using the taxonomy
- Handling errors can be tricky, error checking example

Exercise RNAi annotation

- Title: *course_<yourname>*
- Description/Summary: This hypothetical experiment is conducted to study the effect of knocking down major vault protein homologs on survival in drug resistant lice. We are comparing strain of H₂O₂ resistant lice under treatment with H₂O₂ and KO of MVP to detect effect on survival.
- Batch ID: RNAi Course
- Contact: Michael Dondrup
- start date: today
- organism: *L. salmonis*
- sex: female
- number of indiv. at start 50
- dev. stages: pre-adult, adult
- Target ID: we are looking at MVP, so choose one or many from the previous exercise
- Fragn. length: 2000
- concentration: what's a typical annotation
- Fragment Label ID: F999
- Primer (advanced): can you design primers for MVP? if not leave blank
- **Save experiment -> open for edit**
- end date: in the future...
- knock down efficacy: 80%
- number of indiv. at end: 2
- phenotype: reduced survival, egg strings don't hatch, annotate using taxonomy on summary page
- Upload an image, can be downloaded from another experiment
- **Save exp. -> RNAi checklist**