

Evaluation of Prototypes (Wednesday 1:15 – 1:45 pm)

We've developed some prototypes of new features for the sites and we want you to provide feedback. We've designed two short tasks that exercise these features. Again, we'll ask you to record your screen, perform some tasks and answer some short surveys. We don't want to take up too much time with this so we limit the time allotted for each task. Be assured that it is okay if you don't complete the task. **Please be sure to complete the surveys, even if you can't complete the task.**

Turning on screen recording (Camtasia)

- Click on the Camtasia 2 icon in the dock at the bottom of the screen
- Click on "I agree with the terms of this license" and then "Continue Trial"
- If asked to Check for updates, select "Don't Check"
- When this Camtasia control box comes up, click "Record"



TASK 1

Find *P. falciparum* genes that have higher expression in merozoites than in the ring stages. (Use the sorbitol experiment.)

Use the search: [Identify Genes based on P.f. Asexual Cycle \(fold change\)](#)

Background for the dataset used by this search:

This search queries a *P. falciparum* 3D7 microarray dataset that profiles gene expression in the human stages of the parasite's life cycle. Using high-density oligonucleotide arrays, gene expression was measured in seven life stages: early ring, late ring, early trophozoite, late trophozoite, early schizont, late schizont and merozoite. Parasites were synchronized with either sorbitol or thermocycling prior to sample collection.

Stop after 10 minutes.

Please answer these questions in Survey Monkey: <http://www.surveymonkey.com/s/FRFQCXX>

TASK 2:

Click the link below to open a two-step strategy that finds signal peptide containing genes with 1 or 2 exons. Then complete tasks (a), (b), and (c) and answer the questions in Survey Monkey.

<http://strat-ui.plasmodb.org/plasmo.strat-ui/im.do?s=db57b827d3807e97>

Explanation of the strategy:

- Step 1 searches for genes with 1 or 2 exons.
- Step 2 searches for genes with a signal peptide.
- The strategy result intersects step 1 and step 2 to return signal peptide containing genes that have 1 or 2 exons.

(a) Please write down the first two gene IDs returned by step 1.

(b) Revise the first step to search for genes with exactly 3 exons.

(c) Select the final result and filter it so that you have only *P. berghei* genes in your result. Write down the first 2 gene IDs.

Stop after 5 minutes.

Please answer these questions in Survey Monkey: <http://www.surveymonkey.com/s/GJCVQVJ>

Turn off screen recording and save the file

- A red icon that looks like a piece of film should be displayed on the top menu bar – click on that icon, and then select “Stop Recording”
- If a “Getting Started With Camtasia” window appears, click “Close” on that window.
- Choose File, Save-As
 - Save As: **Prototype**
 - Where: Documents
 - ✓ Create standalone project

and click “Save”

- After the Save has completed (this may take a while) you can exit Camtasia by Choosing “Camtasia 2” from the top menu bar and then selecting “Quit Camtasia”. Your screen is no longer being recorded. Thank you!