**StarCellBio – Excercise 1**

Protein localization

**Experimental Set-up & Treatments**

1. Strains:

* No GFP
* GFP
* GFP-ProA
* GFP-ProB
* GFP-ProC
* GFP-ProD
* GFP-Mut ProA
* GFP-Mut ProB
* GFP-Nuc
* GFP–Cyto
* GFP-PM
* GFP-ER
* GFP-NM

2. Treatments

* Growth Media

**Flow Cytometry**

N/A

**Western Blotting**

N/A

**MICROSCOPY**

Experimental Conditions

1. Microscopy Analysis

* fluorescence (not antibody labeling, its GFP tagged… may need to adjust SCB for this)

2. *Condition:*

* fluorescence -> GFP (green). Green filter only\*\*

Experimental Results

1. No-GFP

* Folder: StarCellBio->Curriculum->Lisa’s Exercises->Exercise 1->Localization images-> negative control (this is a black image)

1. GFP

* Folder: StarCellBio->Curriculum->Lisa’s Exercises->Exercise 1->Localization images-> nuc+cyto final

1. GFP-ProA
   * Folder: StarCellBio->Curriculum->Lisa’s Exercises->Exercise 1->Localization images-> ER final
2. GFP-ProB
   * Folder: StarCellBio->Curriculum->Lisa’s Exercises->Exercise 1->Localization images-> nucleus final
3. GFP-ProC
   * Folder: StarCellBio->Curriculum->Lisa’s Exercises->Exercise 1->Localization images-> pm final
4. GFP-ProD
   * Folder: StarCellBio->Curriculum->Lisa’s Exercises->Exercise 1->Localization images-> cyto final
5. GFP-Mut ProA
   * Folder: StarCellBio->Curriculum->Lisa’s Exercises->Exercise 1->Localization images-> pm final
6. GFP-Mut ProB
   * Folder: StarCellBio->Curriculum->Lisa’s Exercises->Exercise 1->Localization images-> nucleus final
7. GFP-Nuc
   * Folder: StarCellBio->Curriculum->Lisa’s Exercises->Exercise 1->Localization images-> nucleus final
8. GFP-Cyto
   * Folder: StarCellBio->Curriculum->Lisa’s Exercises->Exercise 1->Localization images-> cyto Final
9. GFP-PM
   * Folder: StarCellBio->Curriculum->Lisa’s Exercises->Exercise 1->Localization images-> pm final
10. GFP-ER
    * Folder: StarCellBio->Curriculum->Lisa’s Exercises->Exercise 1->Localization images-> ER Final
11. GFP-NM
    * Folder: StarCellBio->Curriculum->Lisa’s Exercises->Exercise 1->Localization images-> nm Final

Randomly microscopy images that appear from a group of potential images.

Objective N/A