

Leslie

M1D7: Data analysis

10/7/15

- Lab treat!
- Prelab Discussion
- Paper Discussion, Flow Cytometry Demo and Data Analysis



- Extra Office Hours:

- Noreen: Fri., 2-4p (16-317)
- Maxine: Fri., 10-12p (16-239)
- Leslie: Sat., 12-2p (16-429b)
- Rotation: Sun. 10-4pm (56-302)



Mod 1 assignments

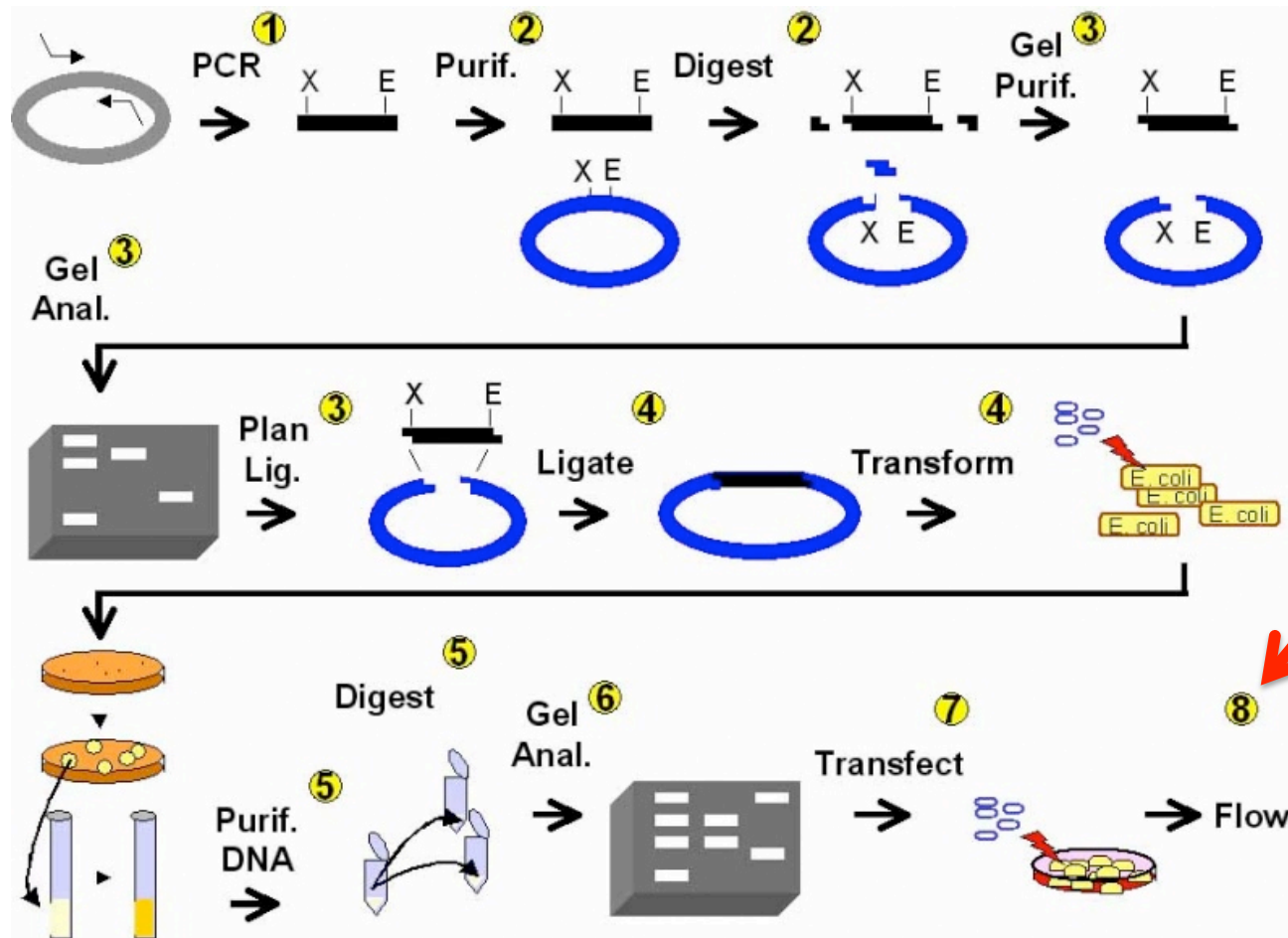
- Major
 - DNA engineering summary: Due Oct. 13th 5pm, 1 team member submits for group
 - DNA engineering mini-presentation: Due Oct. 17th 5pm, Everyone submits individual video
- Minor *andreakw@mit.edu*
 - Notebook entry: share M1D5 with Andee
 - Due by 10p Oct. 7 (today!)
 - Reflection blog post
 - Due by 5p Oct. 14

Reflection assignments



- Do not publish MIT logo
- Do not post photographs with names tagged
- Do not write malicious comments
- Do not plagiarize

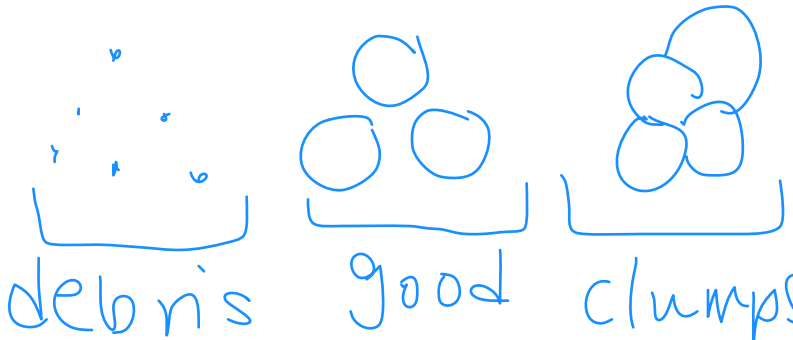
Mod 1 overview



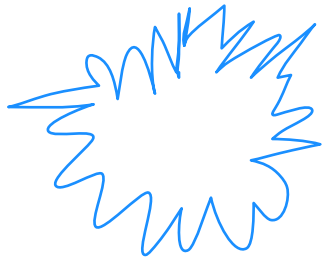
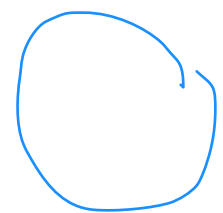
Demo; teaching faculty measured your samples on Friday (24h post-transfection)

Flow cytometry

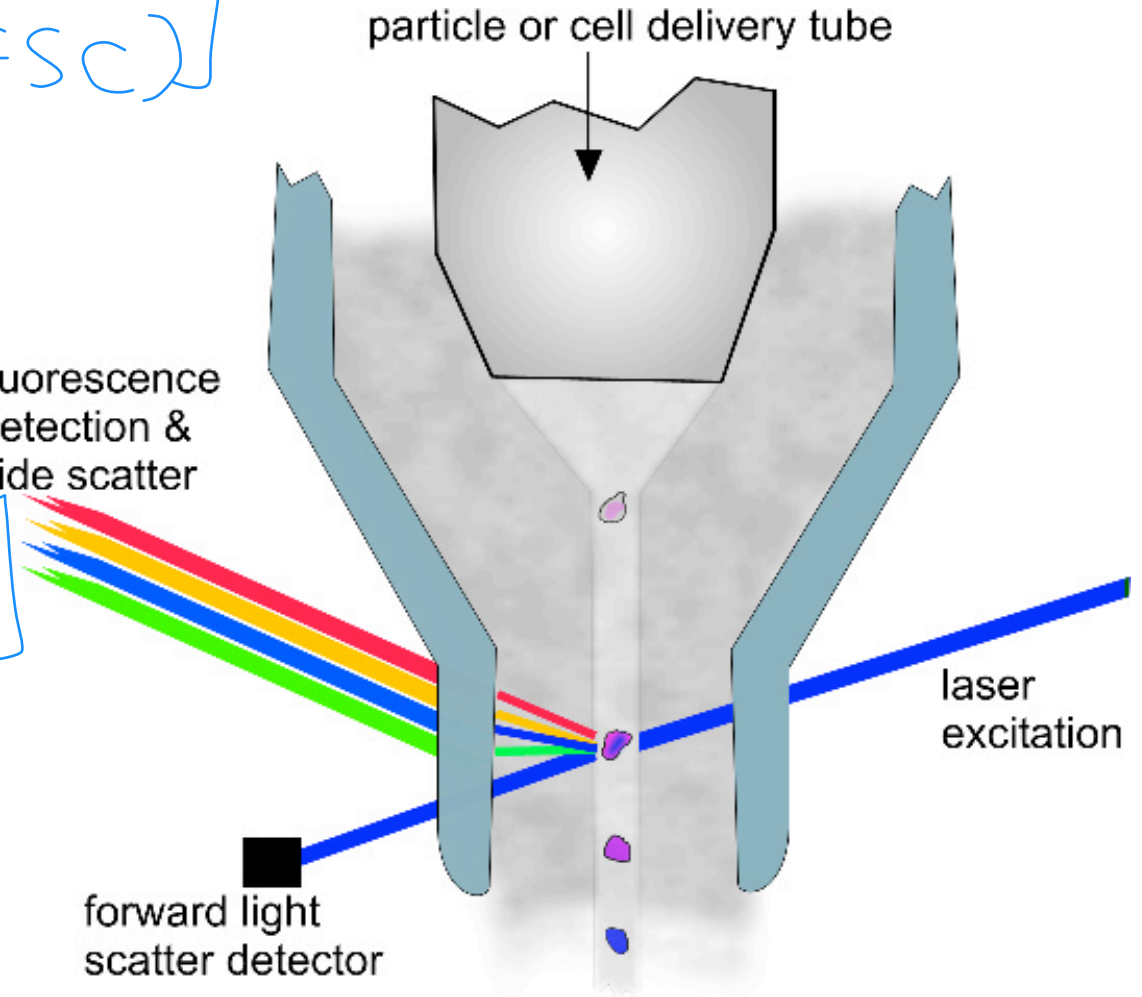
- Forward scatter (FSC) [size]



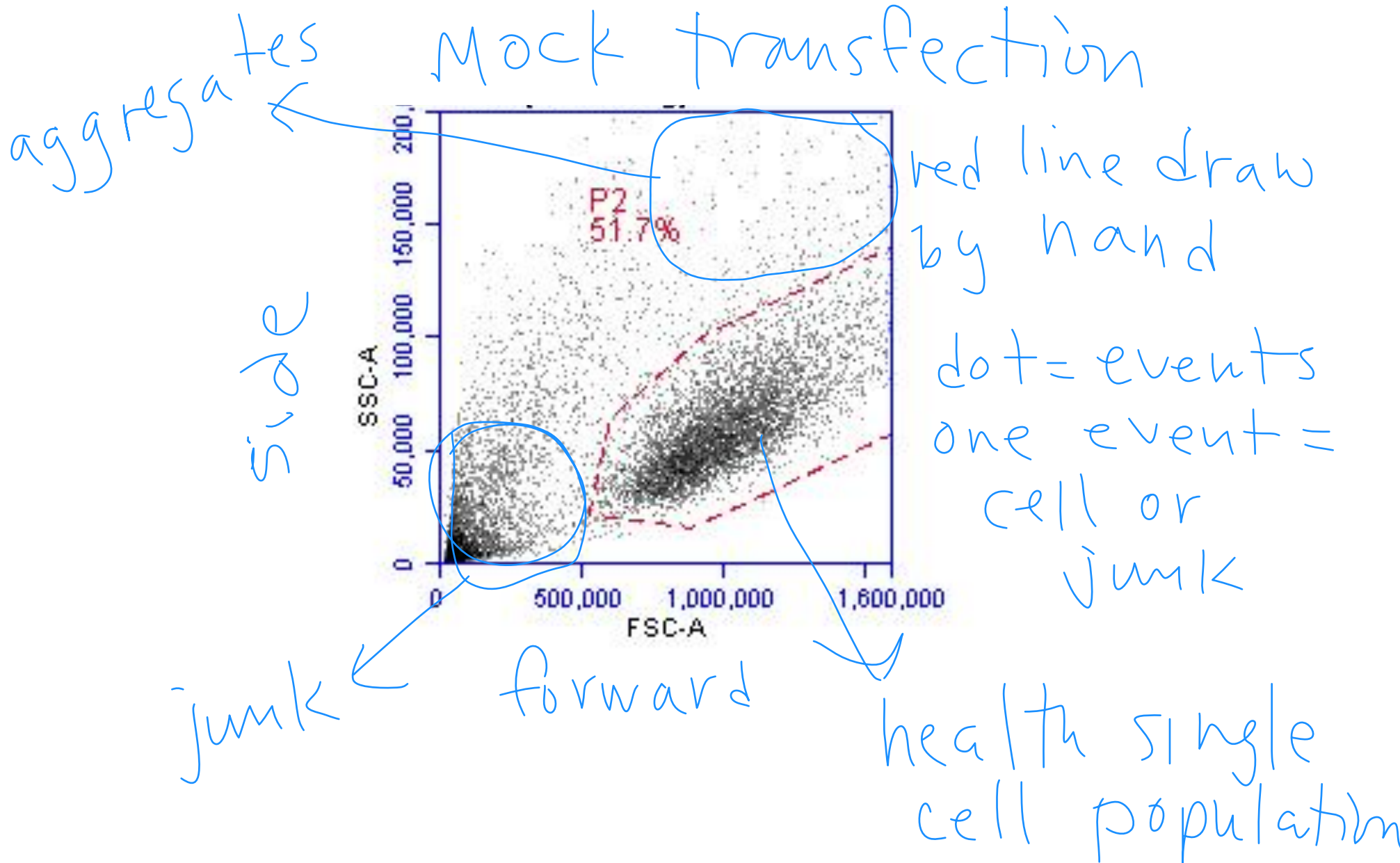
- Side scatter SSC [shape, granularity]



health, cell type



Establishing gates: healthy, single cells



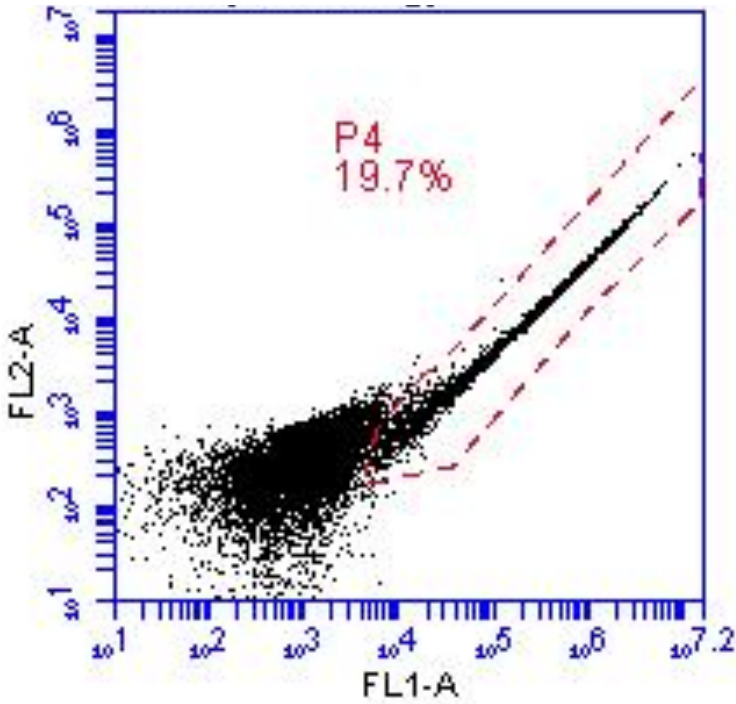
Establishing gates: green cells

EGFP (+) control

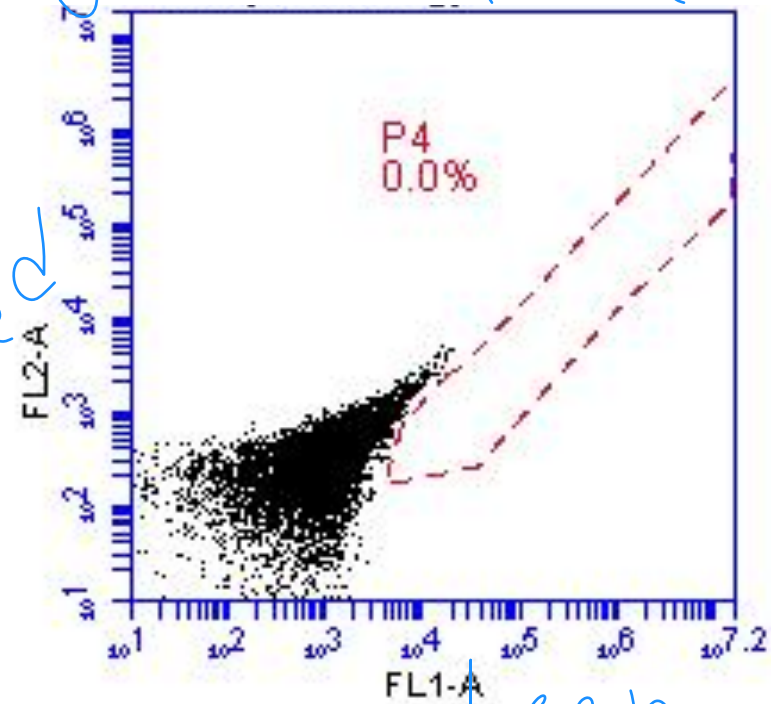
drew gate

mock

red



red



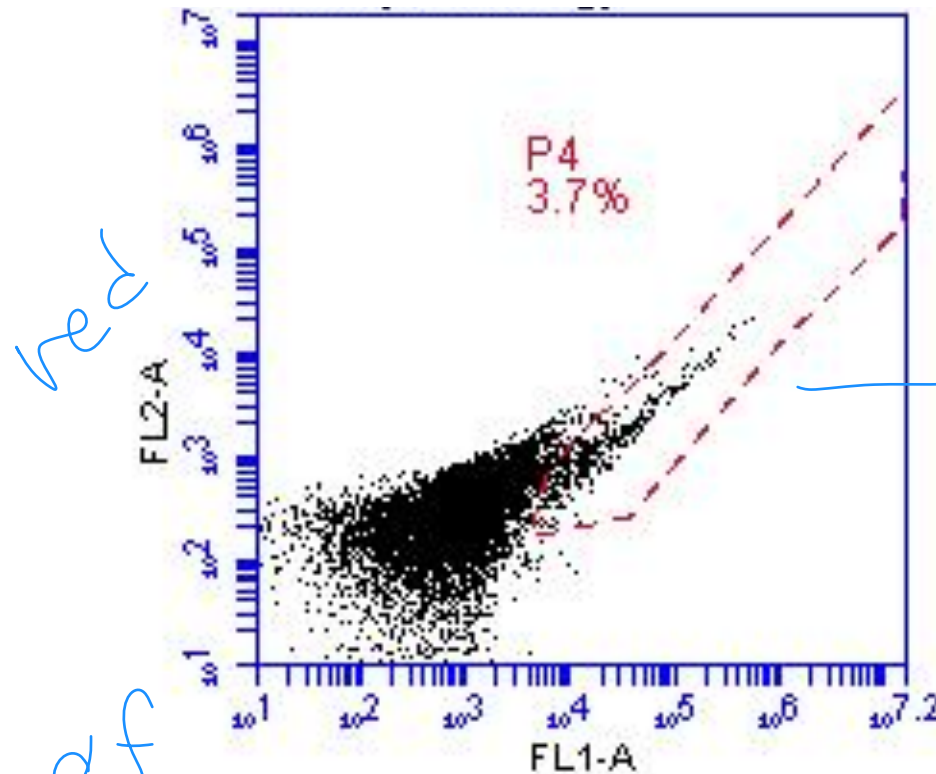
green

green

Set up gates for expt.

Your data analysis

~ experimental condition



gate copied from EGFP

measure of HR

Today

Class will be split:

1. Flow cytometry – Green and Yellow
2. Paper discussion – Pink and Blue
3. Data analysis – Red