- Announcements
- Pre-lab Lecture
  - Major assessment prep
  - Lipofection workflow
  - Samples for HR experiment
  - Tissue culture tips
  - Today in Lab: M1D6

#### **Announcements**

on with homepose

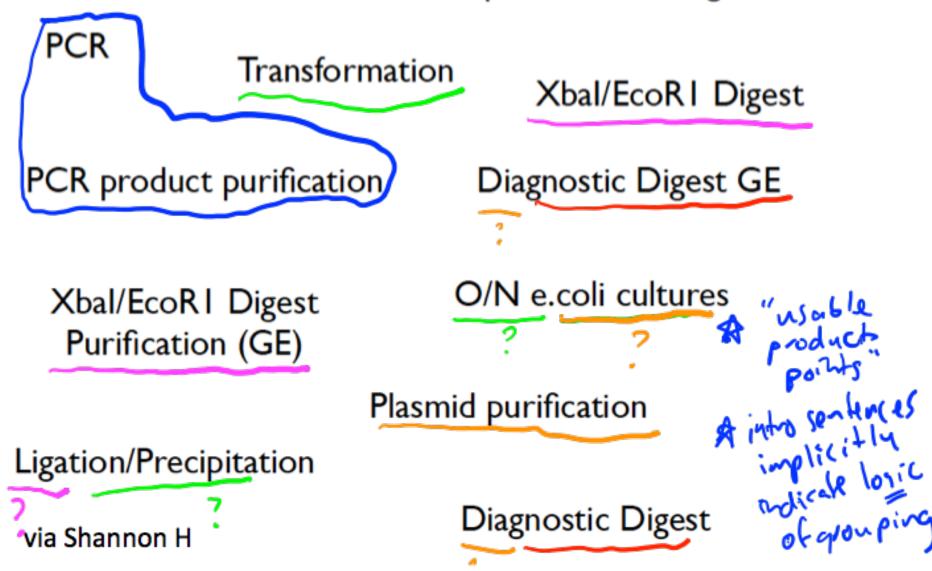
- Thank you Isaak!
- Daily work next time:
  - notebooks due by 5P email note to Isaak
  - final M1 quiz
- Lab next time: flow cytometry in shifts
  - sign up on M1D7 "Talk" page
  - I won't be here
- Methods due by 5 pm Mon 10/6
  - remember: weekend OH by Skype/phone/email
- Data summary due by 5 pm Sat 10/11
  - extra OH R pm pr F am?

# Colony count data

oCX-EGFP (#)	bkb + ins, no lig	#) bkb + lig, no ins (#	bkb + ins, lig 1 (#)	bkb + ins, lig 2 (#)
1000	2	20	100	100
1600	0	n/a	0	0
Lawn	0	4	13	14
Lawn	2	2	210	305
1	000 600 awn	000 2 600 0 awn 0	000 2 20 600 0 n/a awn 0 4	600 0 n/a 0 .awn 0 4 13

When you are writing your R&D, consider the following: 🗘 🙏 🤲
a. What was the overall goal of these data/figure?
intro bullet prevare for DNA cloning
Cb. What was your expected result?
bands at 4237 + 663 bp
c. What was the result? (lof 2)  cons, - bonds new 4kb morher, blu 0.5-1 kb marker
interp bands ~4200, 650 bp. (e. Ru wood: measure w/mer)  d. What evidence do you have that your result is correct or incorrect?  Single digests controls for RE function during.
"Suggests" or "considert will " successful proportion NO
e In sum, what does this data suggest or indicate? What does this "confirms"
motivate you to do next?
Snithble tready for ligation/ claning
via Shannon H

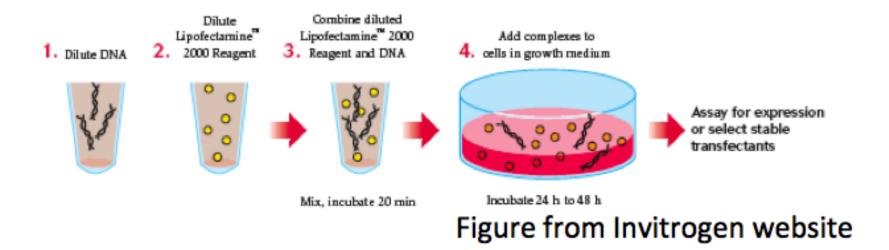
Revisit Methods section: What experiments fit together?



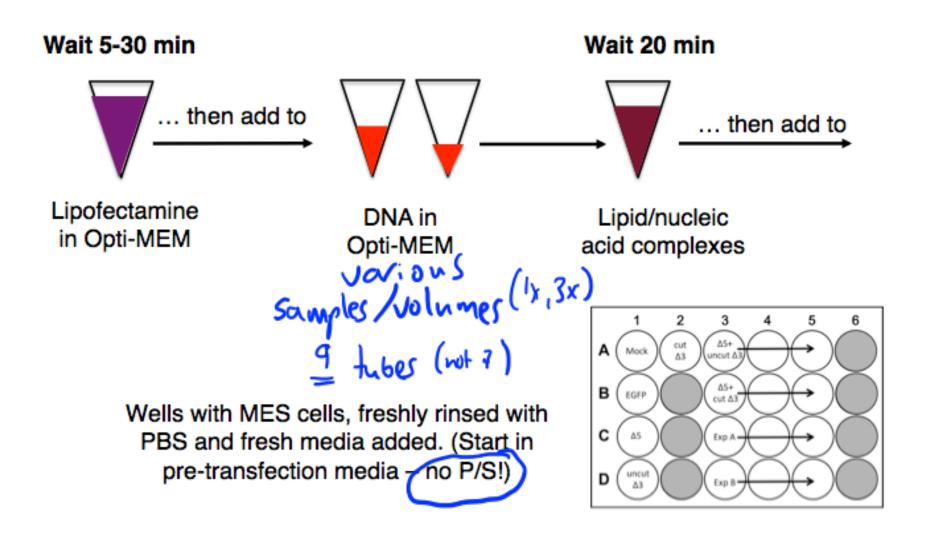
#### Lipofection method

- DNA carrier is cationic lipid
  - binds DNA and fuses/enters cell membrane
- of for more detoiled of meclanism, SkH
- Efficient transfection (can be >95%)
- Delayed expression nuclear entry on division

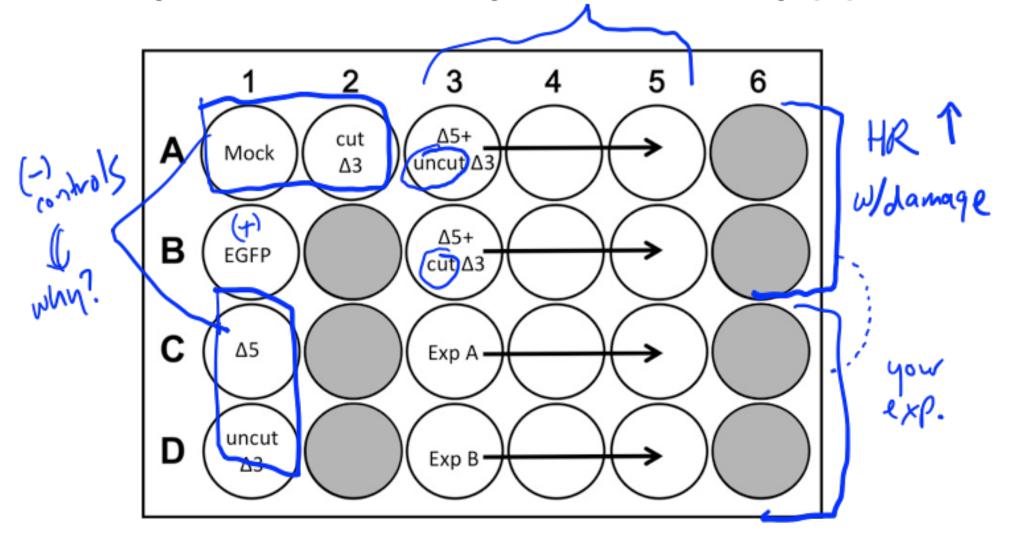
Figure 6 - Outline of transfection procedure for Lipofectamine™ 2000 Reagent



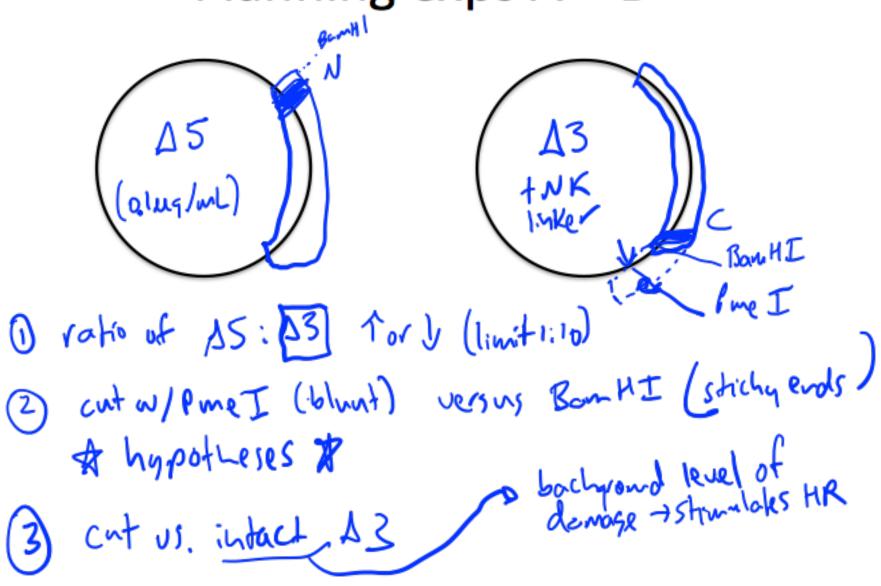
#### Lipofection workflow



## Lipofection samples = HR exp(s)!

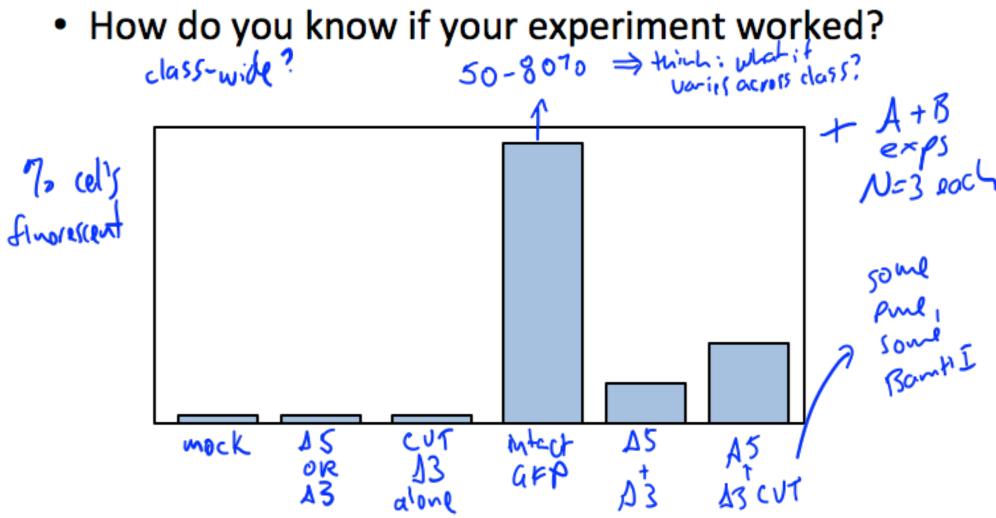


# Planning exps A + B



### Controls for HR assay

A which stats comparisons to nate? \$



## Tissue culture tips

- Set up a few inches behind the barrier/grate
- Minimize opportunities to bump or expose sterile equipment or your samples
  - Uncap bottles before opening pipet
  - Keep tips and dishes closed when not in use
  - Avoid passing your hands/arms over open dishes
  - Don't try to hold > 2 things at once! ☺
- Take care not to clog the pipet-aids

#### Today in Lab: M1D6

- Start by designing Exps A+B
- Then we'll head to TC 4= 15 hrs
- Afterward, at own pace
  - stats practice -> in lab woklook
  - catch up on notebook entries
  - -?? sleep/lewerent/lete:)
- Will announce methods pick-up when ready