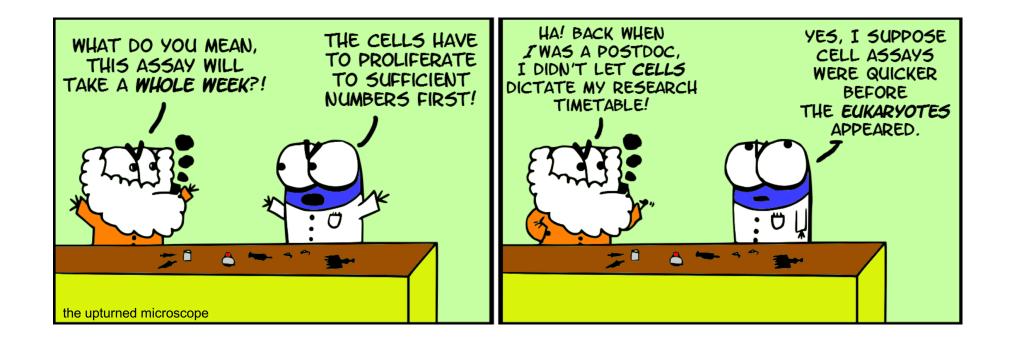
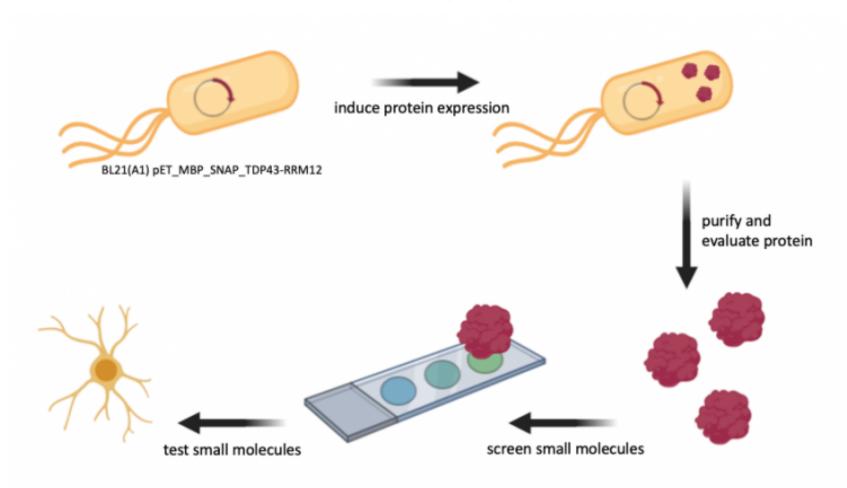
M2D5: Learn best practices for mammalian cell culture

- 1. Comm lab
- 2. Prelab discussion
- 3. Learn about cell culture in the lab



Mod2 Experimental Overview:

Research goal: Identify and characterize small molecule binders to a protein drug target



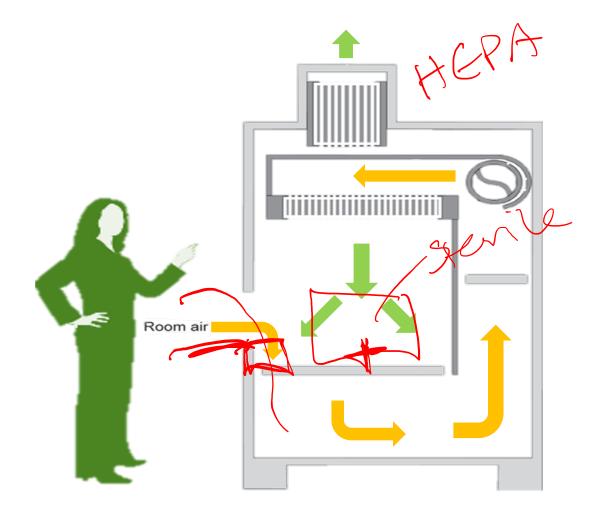
Tissue culture sterile technique

70% ethanol everything:

- Wipe cabinet before and after use
- Wipe everything that enters the cabinet
- Do not spray cells with EtOH

• Do not disturb air flow:

- Do not block grille or slots
- Minimize side-to-side arm movements
- Work > 6" away from sash
- Leave blower on always
- Do not talk into incubator!
- · Only open sterile media in hood



Mammalian Cell Culture Medium

We are using (AV)cells

Food:

- DMEM/ F12 (Dulbecco's Modified Eagle Medium/Nutrient Mixture F-12)
 - · Defined VNOW what is there Sugars Ighneose, when sher, Salts amino acros, pt indicator - phenol rad
- FBS (fetal bovine serum)
- Undefined A depending on stock (lot lipids, chotesterol, growth Sachers eggetters



- Non-food:
 - antibiotics:
- n-food: antibiotics: penicillin December growth backard growth communation

Mammalian Cell Culture Terminology

Confluence

densi.

 Splitting Adverent = neds trypsm Seeding -move cells 50 new Slassk - court of cells of subculturt

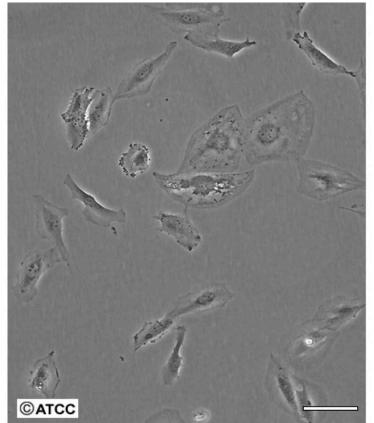
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Low Density



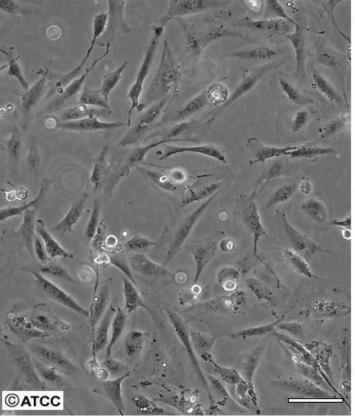
event VS

noradiaent



10-20%

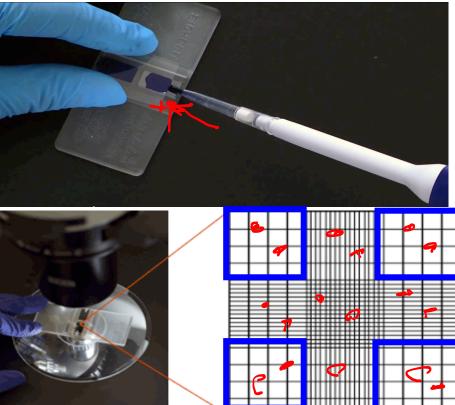
Foreneriment

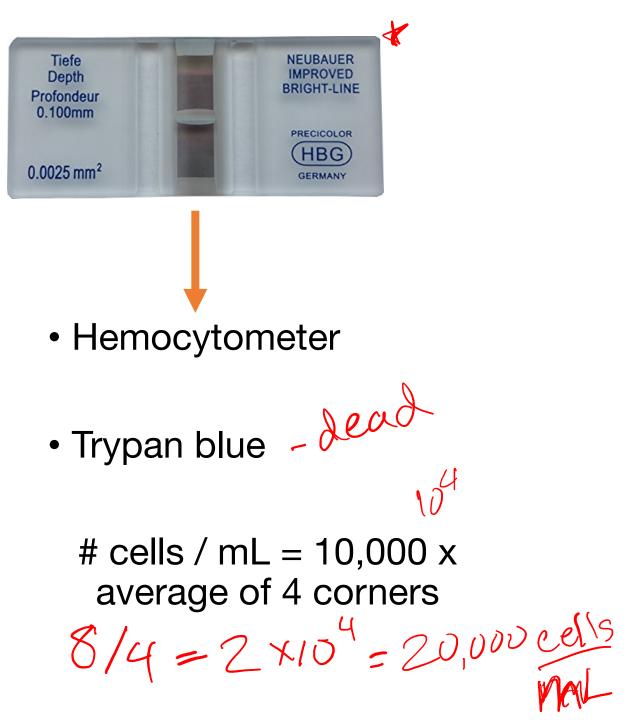


80-9023

Counting cells







For today:

- 1. Complete the wiki on cell culture
- Finish up any SMM work/ think about data for the research article
 ** If you can't get the jupyter notebook to work and you are over it, talk to me
 AND/OR
- 3. Take off early and remind yourself what happiness feels like (or study)

For M2D6:

Peer review of methods

** If you did not turn in methods homework, talk to me

Redacted methods will be emailed to you. Please review according to the wiki and turn in your comments on Stellar.