- Announcements
- Lab Quiz
- Pre-lab Lecture
 - Recap SDS-PAGE
 - Sequence analysis preview
 - Today in Lab (M2D6)

Announcements

- Keeping lab running smoothly
- Understanding strain information
 Strain NB466 (genotype: MC4100 ara+ Φ(OmpC-lacZ) 10-25
 ΔenvZ::KanR +pCph8 +pPL-PCBamp)
- Next journal club in 1 week! email for mtg.
- Extended OH for second report

$$M2-3:30, R2-3:30$$

SDS-RAGE preparation

- You will make whole cell extracts with equal cell #s = 5
 - Based on OD reading, normalize

 goal: 2 oD

 (5 2 m) 3 Spin in S 1.5 m)

 (2 4 m) Spin in S 1.5 m)
- Gel separates proteins based on size, shape, charge
- Sample preparation reduces analysis complexity

 SDS: (aqts ω)(-) (backs blood)

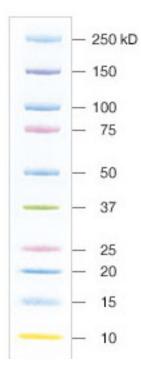
 β-Me: breaks s-sboods blips in hood

 Boiling: de-qture

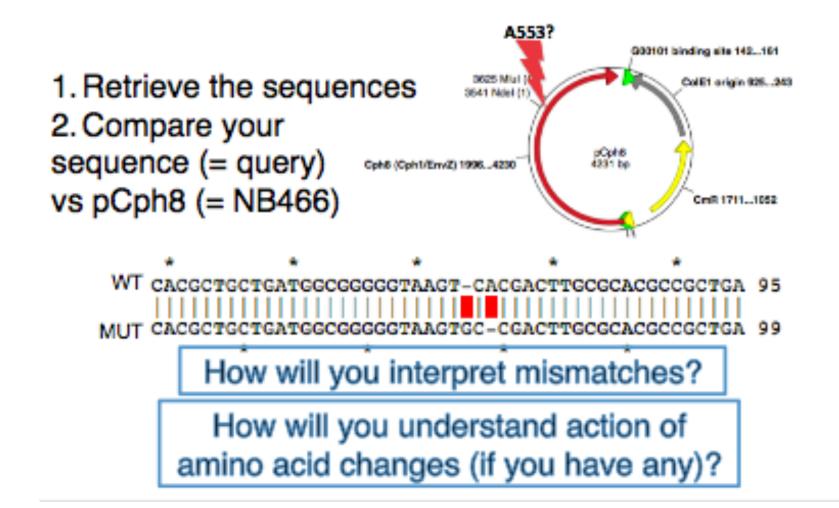
 - Sample Buffer has SDS, β-Me, plus $9^{\frac{1}{2}}(200)$

SDS-PAGE visualization, analysis

- Determine size in comparison to ladder (pre-stained)
- Visualize specific protein amount with antibody and staining
 - antibody conjugated to enzyme
 - enzyme catalyzes colorimetric rxn
 - more detail next time
- Goal: determine if mutation affected Cph8 production

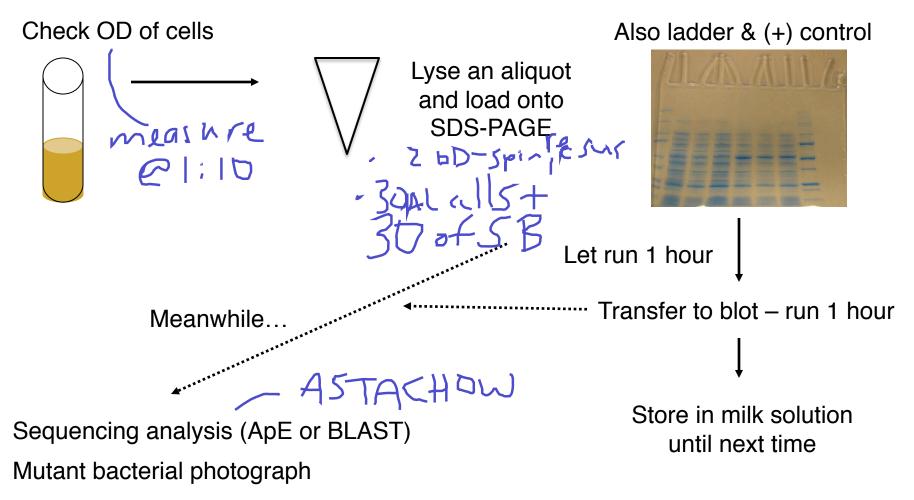


Kaleidoscope



Slide from N. Kuldell

Today in Lab (M2D6): Workflow



Ideas/prep for experiments next time... from seq/B-gal repeats to ?your idea here?