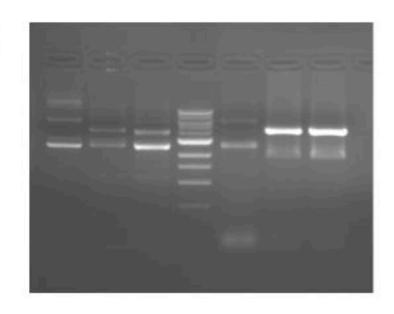
- Announcements > quiz next time, staggeredarrivals
- Pre-lab Lecture
 - Briefly, data from last time
 - SDS-PAGE
 - Affinity purification recap
 - Today in Lab (Mod 1 Day 6)

Diagnostic digests, etc.

- What might really large bands be?
- Why might really small bands not show up?
- What might the identities of extra bands be?
- What could unaccounted for extra bands indicate?



 Besides cell normalization purposes, why might getting –IPTG and +IPTG OD values be useful? growth phenotype

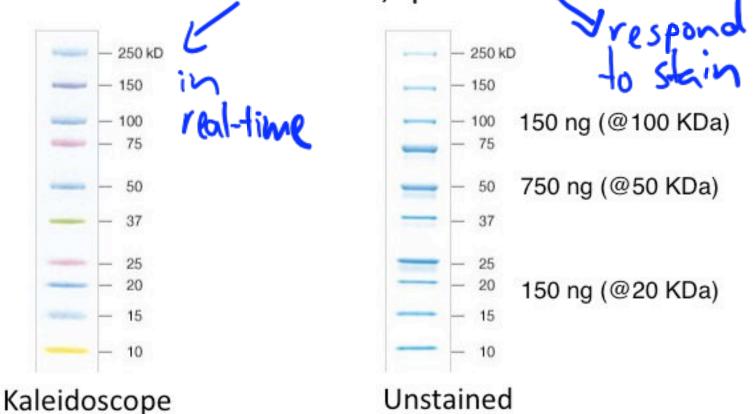
SDS-IAGE preparation

- You will make whole cell extracts with equal cell #s
 - Based on OD₆₀₀ reading, normalize
- Gel separates proteins based on size, shape, charge
- Sample preparation
- SDS: coats proleins wuniform (-) charge
 β-Me: breaks >> bonds
 Boiling: devature use backs
 Sample Buffer has SDS, β-Me, plus glycerol, dye (BPE)

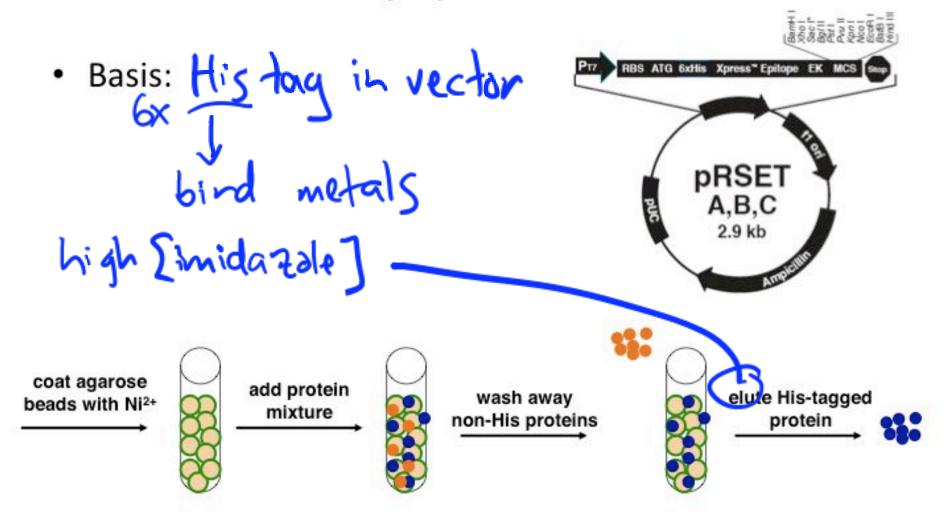
SDS-PAGE visualization, analysis

Visualization: Coomassie stain (binds certain AA)

Two ladders: visualization, quantification



Affinity purification



Today in Lab

- Lyse cell pellets in BPER
 - BSA "carrier", protease inhibitors
- Run a 15 μL aliquot through SDS-PAGE
 - Two adders also 15
- Purify protein from the rest (long!)
 - Immediately take 10 µL aliquot and measure concentration
 - The rest is stabilized w/gSA, to be titrated against calcium next time

