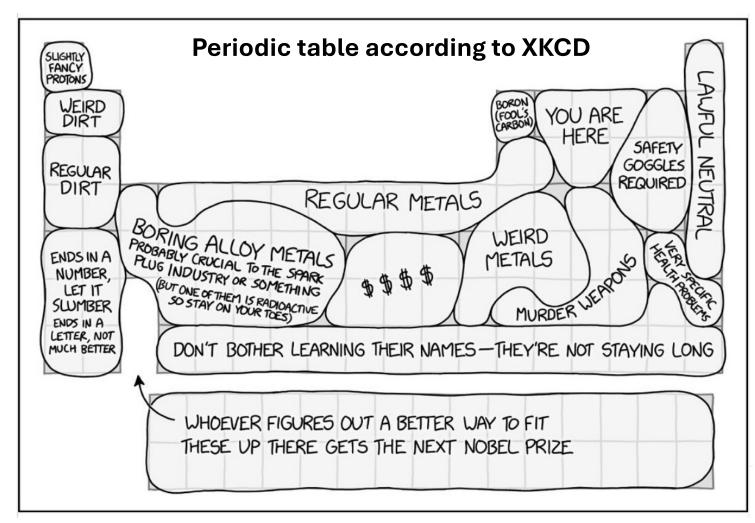
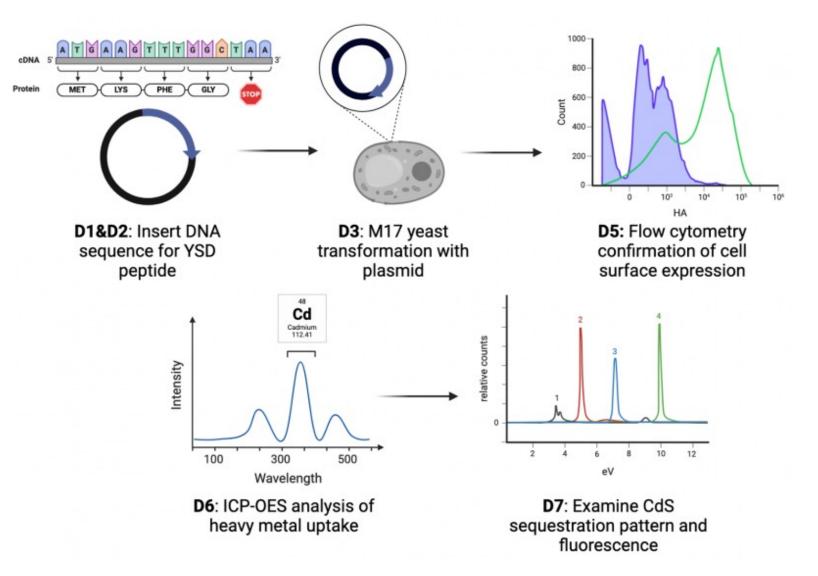
# M2D7: Visualize cadmium sequestration and assess quality of cadmium sulfide production

Prelab

- Work in Belcher lab to examine samples with fluorimetry
- Data analysis!

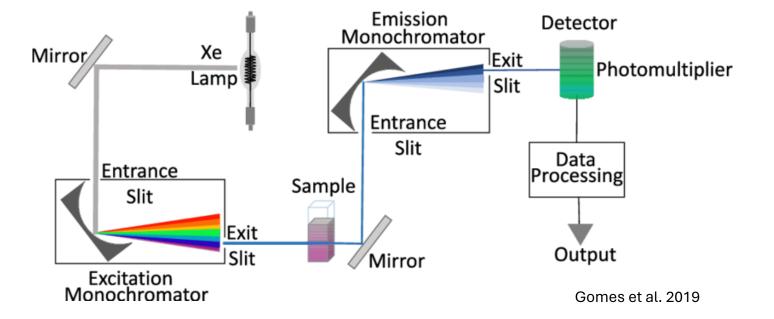


## Mod2 overview



# Fluorescent spectroscopy (fluorimetry)

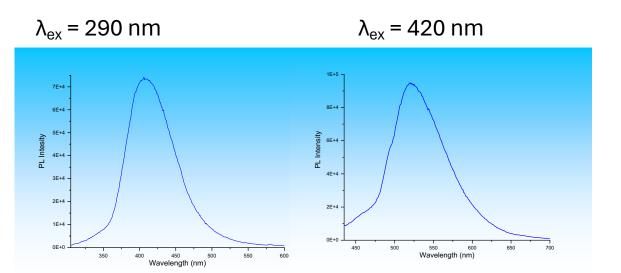
- Xe or Hg lamp
- Single wavelength excitation of sample
- Emission spectrum measured
- For data processing:
  - Use S1/R1 numbers
  - Signal (S) is corrected to account for background lamp signal (R) to produce more reliable emission data



#### Example fluorimetry data

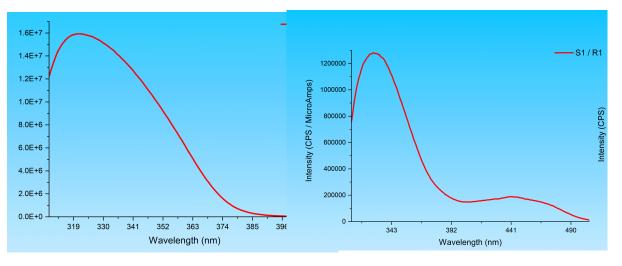
#### Excitation

#### Emission

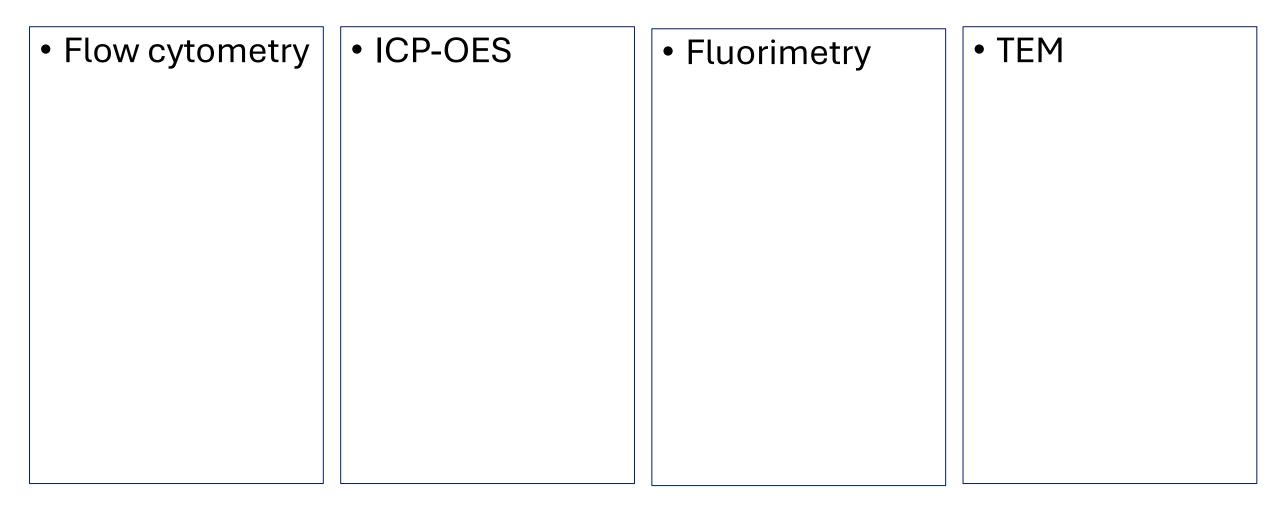


420 nm emission excitation spectrum

520 nm emission excitation spectrum



#### Data analysis today! Experiment review: what is the goal of each experiment?



# For today

- First group meets Jifa at 1:30ish
  - We are all going over to the Koch
  - Take your laptop to keep notes for a lab notebook
  - Work on data analysis if your group is not processing samples

## For M2D8

- Outline your RA discussion
  - Like Implications section of the Data Summary + data interpretation
  - Use placeholders for analysis that is not complete