• Introductions
• 20.109 Philosophy
• Day-to-Day Workflow
• Semester-Long Workflow
• Lab Safety
• Self-/Guided Lab Tour
20.109: Promises and Expectations

Authentic investigation
Constructive feedback

Deep attention
Support your peers

Class is a collaboration with all of us
Day-to-day workflow

• Hand in current HW, get old HW back
• Announcements
• Discussion of prior HW
• Quiz
• Pre-lab lecture
• Lab work
  – See wiki
• Hand in notebook pages before leaving
Annotating protocols

1. Begin by adding the correct amount of water to a 200 ul PCR tube. Add that amount +1 ul to a second PCR tube.
2. Next add the primers to each reaction. Be sure to change tips between additions.
3. Next add template to the first reaction tube.
4. Finally add PCR Master Mix to each tube, pipetting up and down to mix. Leave your tubes on ice until the entire class

\[ \text{4pm} \]
\[ \text{5pm} \]
Semester-long workflow

- Work in pairs
- Broader community collaboration
- Assessments
  - Minor: HW, quizzes, notebooks, participation
  - Major: reports and presentations
  - *Ask if something is unclear*
    - *Available over email, occasional OH*
  - *Plan ahead and manage your time*
Lab Safety

• Protection: gloves, glasses, coat
• Just in case... eyewashes, shower
• Hazards
  -- Materials: chemical (toxic, caustic), biological
  -- Splash
• Waste disposal

  Sharps bin
  Bio and non-bio
  Broad definition
  No solids/liquids

  Bio liquid → bleach, down sink
  Chem liquid → fume hood waste containers

  Biohazard barrel
  Non-sharp bio waste
  Solids OK

  Biohazard barrel
  Non-sharp bio waste
  Solids OK
Time for demo and tour!