

# MID0: Welcome to 20.109!

1. Introductions & 20.109 Mission



2. Semester Overview & Intro to Wiki

3. Day-to-Day Operations (SOP)

4. Lab Safety

5. Lab Tour (...your first protocol!)

❖ Aim 1: Authentic Investigation

*you ask the question*

❖ Aim 2: Authentic Communication

❖ Aim 3: Extensive Collaboration (...with limits)

Equal contribution to team assignments.

Fair discussion, but independent completion, of individual assignments.

# Semester overview via your new best friend: *the*

## 20.109 wiki

- Work completed in 2-person teams
- Broader class collaboration

- Assessment Structure: Major vs. Minor

lab notebooks

- Office Hours

weekly quizzes

reflections

- **The key to 20.109: Time Management**

## Day-to-Day SOP:

- Turn in FNT, Receive graded assignments

- Lab Treat:



weekly

<http://my.clevelandclinic.org/heart/prevention/nutrition/chocolate.aspx>

1 10 pm sharp  
10 min

- Pre-lab lecture & discussion
- The fun stuff
- **The key to daily 20.109: *The wiki is your friend***

# Lab Safety:

- Rules at the bench:

- particulate }  
- splash } scale

PPE

- lab coat

- safety glasses

- waste stream

- Rules at the chemical hood:

\* safety glasses  
\* boil water →

Get bench

DNA agarose

nitrite gloves

- Rules in the TC room:



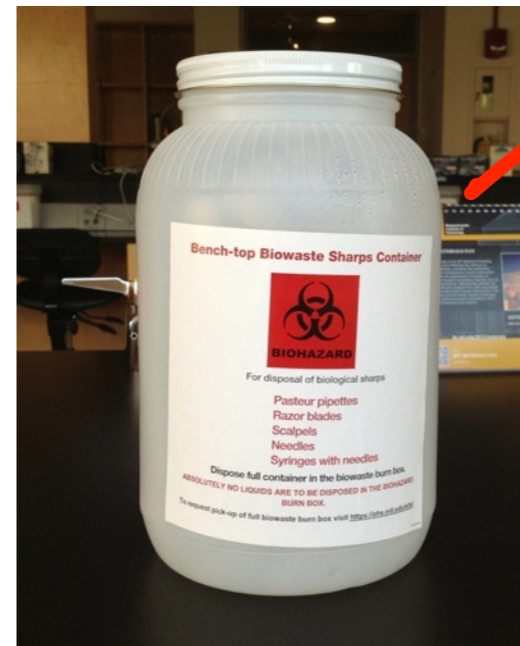
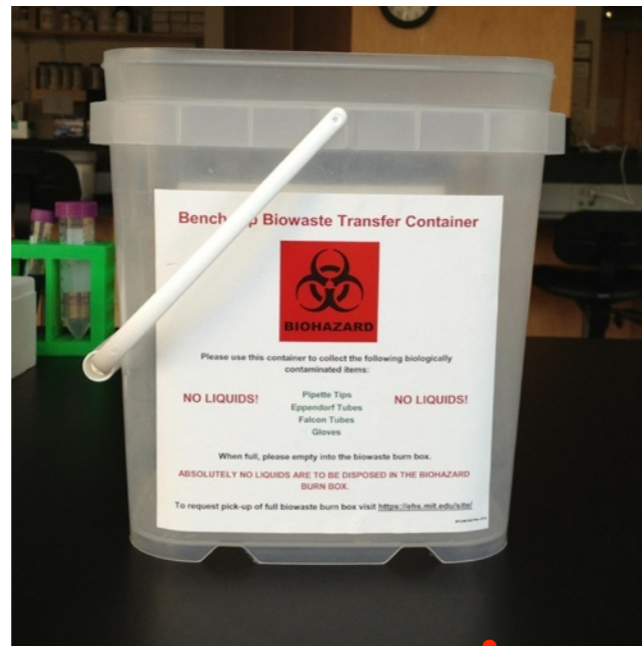
**What happens in the TC room...stays** in TC room

- lab coats

room

# Biological waste workflow for the 20.109 lab:

tips  
GLOVES  
tubes



Sharps  
needles  
glass pipette  
sm glass  
bacteria

US  
(inst.)

plm dish



XXXX





# New things we are piloting FI 3:

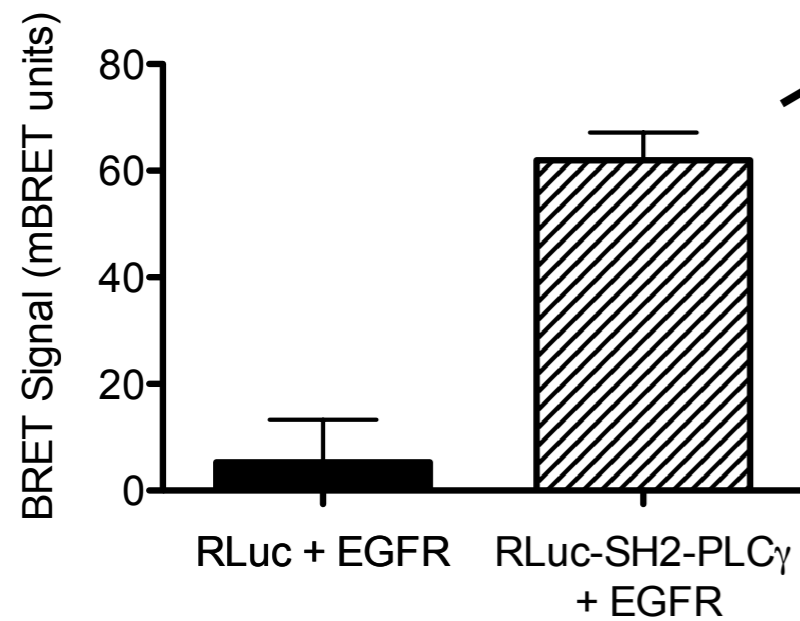
The screenshot displays the Evernote web interface for user 'shannon\_hughes\_20109'. The interface is divided into three main sections: a left sidebar, a central note view, and a right-hand editing area.

- Left Sidebar:** Contains navigation elements including 'Shortcuts', 'Notebooks' (with 'All Notes (1)', 'shannon\_hughes\_20109's no... (1)', and 'Trash (1)'), and 'Tags'. A blue circle highlights the 'EVERNOTE' logo in the top left corner.
- Central Note View:** Shows a note titled 'Wednesday, 9/4/13' with a timestamp of '1 hour ago'. The note content is: 'Orientation lecture -- last four slides Pre-lab lecture -- add EN and 'new stuff' slide Demo of Evernote Better explanation of new safety workflow'.
- Right-hand Editing Area:** Features a rich text editor with a toolbar (Font, Size, Bold, Italic, Underline, etc.) and a list of items corresponding to the note content:
  - Orientation lecture -- last four slides
  - Pre-lab lecture -- add EN and 'new stuff' slide
  - Demo of Evernote
  - Better explanation of new safety workflow

At the bottom of the interface, there is a 'View Options' button and a '1-1 of 1 notes' indicator. A 'Download Now' button for the 'EVERNOTE WEB CLIPPER' is visible in the bottom left corner.

# New things we are piloting F13:

## *Module 2: High throughput analysis of the EGFR network*





# Today in the lab:

- Find your lab partner, pick your bench, and sign up on the lab map up front!
- Complete lab tour
- Register for an Evernote account and 'share' your 20.109 notebook with Lizzie, Aneesh, and Shannon
  - If you use something other than your mit email address, let me know so that I can share my notebook with you.
  - Lizzie: [dollizzy@gmail.com](mailto:dollizzy@gmail.com)
  - Aneesh: [aneeshr@mit.edu](mailto:aneeshr@mit.edu)
  - Shannon: [skhughes50@gmail.com](mailto:skhughes50@gmail.com)