Welcome to \$14 20.109!



- 1. Introductions & 20.109 Mission
- 2. Semester Overview & Intro to Wiki
- 3. Day-to-Day Operations
- 4. Lab Safety
- 5. Lab Tour (...your first protocol!)

- Aim I: Authentic Investigation

 ve follow REAL protocols

 answers unanswered questions

 you make the decisions
- Aim 2: Authentic Communication

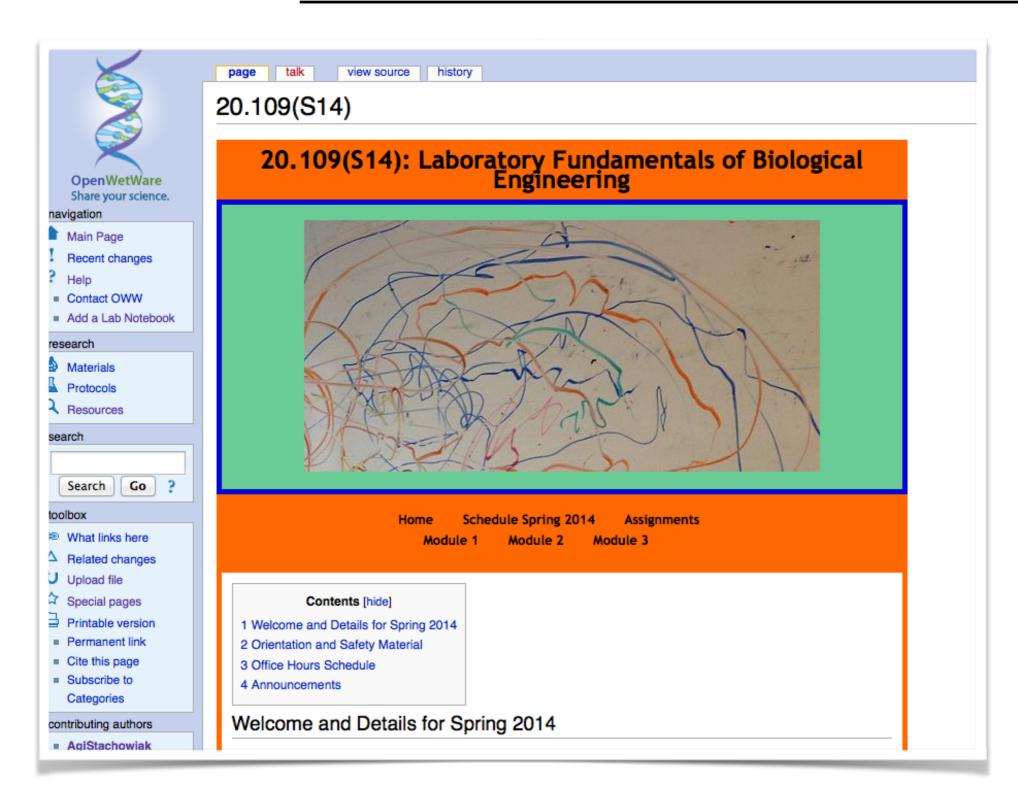
- If you count communicate it =>
you didn't understand it
we will teach you > best
practices

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

Equal contribution to team assignments.

Fair discussion, but independent completion, of individual assignments.

Semester overview: the 20.109 wiki



openwetware.org/wiki/20.109(S14)

Semester overview: the 20.109 wiki

- I. Navigating around the wiki.
- 2. Important links:
 - Schedule Spring 2014
 - Assignments
 - Module 1, 2, 3
- 3. Some hints for making the most of the wiki. *This is your first stop*
- 4. The 20.109 wiki: 5 m m best fremmy

The secret to 20.109: Time Management

Assignments in 20.109

Major Assignments

[edit]

Most major assignments will be submitted on submitted on Stellar & .

Module	Topic	Assignment	% of Final Grade	Links to Description and/or Evaluation
1		Abstract and data summary	15	Assignment description
		Primer design memo	5	Assignment description
		Journal club presentation	10	Sign-up for article Evaluation rubric (PDF download)
2		Research article	25	
3		Research idea presentation	20	Assignment description Evaluation rubric (PDF download)
		Mini report	5	

Minor Assignments

What's going to happen in lab:

• Turn in 'for next time' (FNT) - receive graded assignments

Lab Treat:



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

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

Lab safety: environments

Wash your hands.

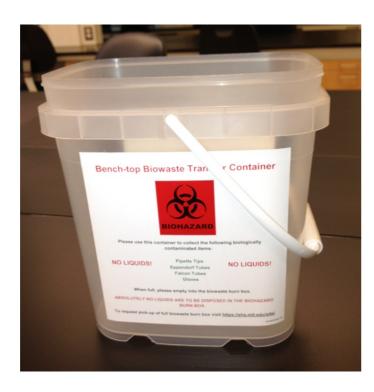
- At the benches
 - coverage (closed-toe shoes etc.), gloves: ~always
 - nitrile gloves at gel bench
 - glasses: optional unless flame, chemical
 lab coat: optional >B1.7
- At the fume hood
 - glasses, lab coat, gloves: always
- In the tissue culture (TC) room
 - lab coat, gloves: always (except today)
 - no cross-contamination with main lab! (even today)
- Just in case... eyewashes, shower

Lab safety: material hazards

- Chemical
 - caustic
 - toxic (acute, mutagenic, or other effects)
- Biological
 - infectious
- Minor
 - irritants
- Related waste disposal (infrequent)
 - chemical waste in fume hood (tubes -> us)
 - biological liquid waste is bleached (vacuum traps)
 - see also posted sink-safe lists

Lab safety: waste disposal (frequent)

general



true sharps

biological solids

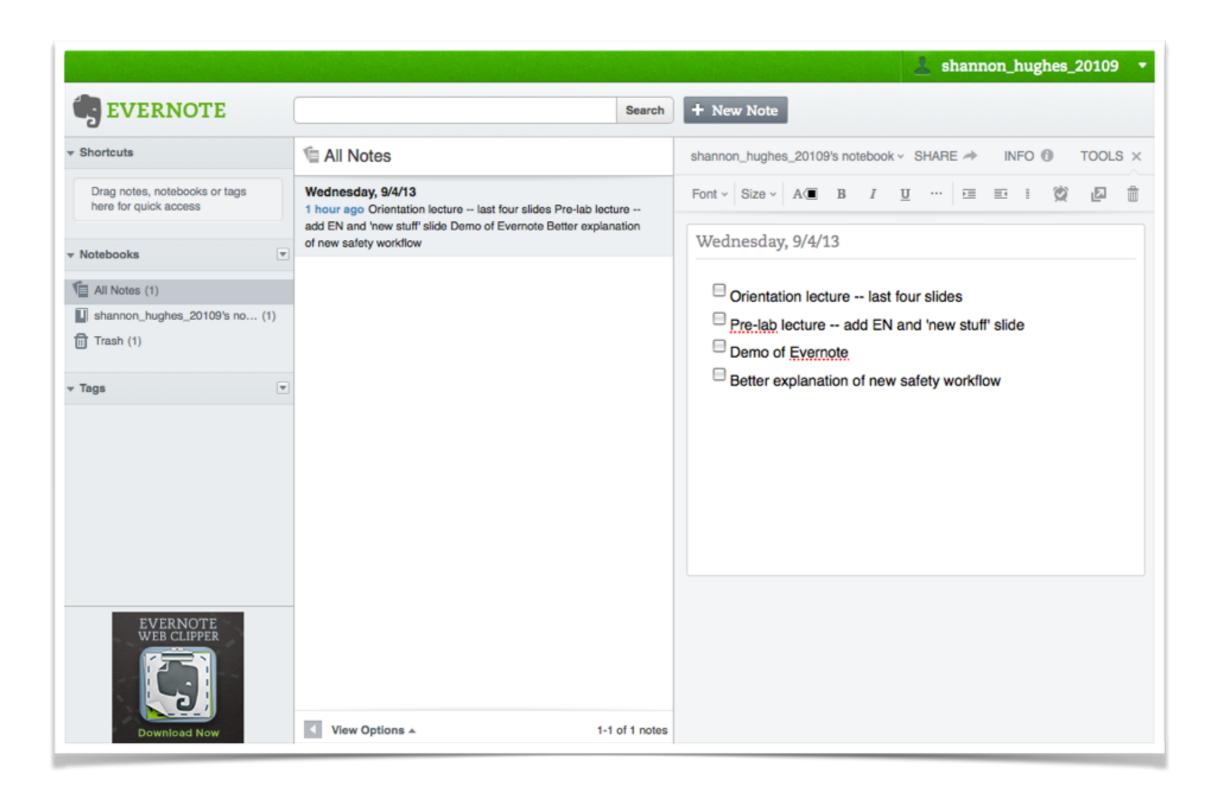




burn box

all ends up here!

Lab Notebooks: Evernote (EN)



Lab Notebooks: Evernote (EN)

Please see the wiki page about lab notebooks (Assignments tab) and set up an Evernote account and 20.109 lab notebook.

Please use your name in the title of your notebook. For example: 20.109(F14)_Shannon

Share your lab notebooks with: me (skhughes50@gmail.com) and Chris (cbandoro@mit.edu)

Today in the lab:

- Find your lab partner, pick your bench, and sign up on the lab map up front!
- Complete lab tour ~4.15pm [H5]
- Check out the 'For Next Time' for next time.
- Respond to the Office Hours doodle poll I sent out.