Intro to Micro Lab

• Syllabus
  - goals of lab
    - learn microbiology
    - function as in a real job

• Safety

Lab Supplies

• Provided for you each lab period:
  - cultures
  - media
  - special supplies

• In room all the time:
  - slides
  - cover slips
  - bibulous paper
  - lens paper
  - distilled water carboy
  - stains
  - immersion oil
  - lens cleaner

Discarding Materials: Trash Can

• Paper products
• Used gloves
**Discarding Materials: “To Be Autoclaved” Can**

- Petri plates

**Discarding Materials: Glass Discard Box**

- BROKEN slides
- BROKEN glassware
- Disposable pasteur pipettes

**Discarding Materials: Wire Baskets**
Discarding Materials:
Metal Bins in Window
- Test tubes WITHOUT THEIR CAPS
  - WITH the liquid in them!
  - WITH the agar in them!
  - INCLUDING cultures!

Labeling Plates & Test Tubes
- Type of media
- Your name
- Date
- Organism/source
- NEVER ON LID

Incubating Plates
- agar/labeled side up
- taped together with name facing out
Incubating Test Tubes

1. Place in GROUP rack
2. Tape together; name facing out

Culturing Microbes in Lab

- “General purpose” media
  - Nutrient Agar (NA)
  - Tryptic Soy Agar (TSA)

- “Enriched” media
  - Saboraud Dextrose Agar (SDA)

“Scientific Method”

ask a question (define problem)
propose explanation (hypothesis)
test hypothesis (collect & interpret data)
accept hypothesis
reject hypothesis

accept
reject
Experimental Design

• Variables
  - dependent
  - Independent

• Experimental group vs. control group(s)