Cards & Staff Introduction

Last Name, First, Nickname, Phone, e-mail       Lab time
Major, Undeclared or Area of Interest?
Academic Status: Fr, So, Jr, Sr, PB, MS, CEP
Professional Objective
Hometown, Birthplace
Why enrolled? Required? Interest?...
Prior related coursework? A&P in high school, EMT,...
Prior Universities/Community Colleges?
Family/Special interests/Hobbies
Something unique about yourself/Secret we won't reveal!

Thanks for printing your name & lab time on Lab notebook.
BI 121 Lab 1, Histology = Microscopic Study of Tissues

I. **Lab Roster** Cards & Staff Introduction

II. **Requirements** Attendance, Participation, Worksheets

III. **Histology for Beginners** In Memory of Harry Howard

IV. **Microscope Familiarity**
   A. Objectives/nosepieces – power up!
   B. Focus – coarse and fine
   C. Movement – mechanical stage
   D. How do I put a slide on the stage?
   E. Adjusting for eye width

V. **View & Have Fun!** See also photos @ front & scopes in back. Please ask questions & come see us!

...My what fun it is to see – hooray, hooray, his-tol-o-gy!!
Histology for Beginners

In Memory of Harrison Howard
Former Director, Bio-optical Lab
Neuron 1
Input
Dendrites ≡ Antennae
Controller
Soma ≡ NCB
Output
Axon

Connective tissue connects!
Nerve conducts!

Neuron 1
Neuron 2
Neuron 3
Controllers ≡ NCBs/somas not pictured → in spinal cord

Output ≡ Axons

Bouton with Neurotransmitter Vesicles

Effectors ≡ Target Organs Voluntary Skeletal Muscle Fibers
Myocytes ≡ Muscle Contractile Cells

Myofibrils ≡ Cytoskeleton Part

Myocyte Nuclei
Myocytes/Muscle Cells

Intercalated Disc

Single nucleus

Adipocytes ≡ Fat Cells
Columnar Epithelium, Gall Bladder

Epithelial tissue covers & is specialized for transport!
Primary Oocytes

Follicle undergoing atresia

Graffian Follicle with developing ovum/egg

Ovum

Ovary cross section
Now, try to identify anatomical site & tissues!