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!
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!
**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

Graffian Follicle with developing ovum/egg

Follicle undergoing atresia

Ovary cross section

Ovum
Connective tissue

Nuclei of fibroblasts

Elastin

Collagen

Connective tissue... connects!!

Connective tissue
Now, try to identify anatomical site & tissues!