

# PLB 105 Fall 2011

Created by: Douglas  
Created on: 11/1/2011  
Sections:  
Lab rooms:

## Lab 1 Microscopes and Microtechnique; Plant Development

Sep 22, 2011

Quantity	Plant Material	Date planted	Days	Directions
2 - 6" pots	Bean	Sep 15, 2011	7	20 seed/pot
4 - 6" pots	Bean	Sep 5, 2011	17	15 seed/pot
6 - 6" pots	Bean	Aug 25, 2011	28	6 seed/pot 4pl/pot
20 flowers	Tradescantia stamen trichomes	May 25, 2011	120	Repot

## Lab 2 The Plant Cell and Xylem Regeneration Experiment - part 1

Sep 27, 2011

Quantity	Plant Material	Date planted	Days	Directions
2 pkg.	Apium(celery)	Sep 27, 2011		Enter directions here
A few	Aridisia petiole	Sep 27, 2011		Enter directions here
2	Begonia petiole	Sep 27, 2011		
	Carrots	Sep 26, 2011	1	Purchase from store. 1 bag
	Elodea stems	Sep 27, 2011		
A few.	Lavendula leaf	Sep 27, 2011		Enter directions here
	Lemna	Sep 27, 2011		
2	Onion bulbs, white	Sep 27, 2011		Enter directions here
50	Pereskia leaf	Sep 27, 2011		Enter directions here
	Pilea cadierei	Sep 27, 2011		
6	Potatoes, small baking	Sep 26, 2011	1	Purchase from store.
2	Red bell pepper fruit	Sep 27, 2011		Enter directions here
	Tradescantia zebrina	Sep 27, 2011		

## Lab 3 Parenchyma and Collenchyma

Sep 29, 2011

Quantity	Plant Material	Date planted	Days	Directions
3 - 6" pots	Cucurbita	Sep 6, 2011	23	6seed/pot 3pl/pot
	Eichornia petiole	Sep 29, 2011		
	Juncus stem	Sep 29, 2011		

2 - 5.5" pots	Medicago	Aug 12, 2011	48	8seed/pot
6	Nymphaea petioles	Sep 29, 2011		Enter directions here
6	Pear fruit	Sep 29, 2011		
	Petasites petioles	Sep 29, 2011		
	Sambucus	Sep 29, 2011		
	Sansevieria	Sep 29, 2011		
	Smilax root	Sep 29, 2011		

### **Lab 4 No title specified**

Oct 4, 2011

Quantity	Plant Material	Date planted	Days	Directions
2 plants	Anthurium	Oct 4, 2011		Enter directions here
A few	Linum usitatissimum stems	Oct 4, 2011		Enter directions here
6	Pear fruit	Oct 4, 2011		Enter directions here
A few	Podocarpus leaves	Oct 4, 2011		Enter directions here
	Sanserieria	Oct 4, 2011		

### **Lab 5 Epidermis**

Oct 6, 2011

Quantity	Plant Material	Date planted	Days	Directions
	Agrostis	Oct 6, 2011		
2 - 6" pots	Bean stomata	Sep 11, 2011	25	6 seed/pot 3pl/pot
	Begonia leaf, clustered stomata	Oct 6, 2011		
25	Begonia leaf, without clustered stomata	Oct 6, 2011		
4 - 6" pots	Corn stomata	Sep 6, 2011	30	8 seed/pot 4pl/pot
4 - 6" pots	Cotton stomata	Sep 1, 2011	35	6seed/pan 3pl/pot
	Dianthus leaves	Oct 6, 2011		
	Enseti	Oct 6, 2011		
	Ficus leaves	Oct 6, 2011		
2 - 4"pots	Gasoul	Jul 23, 2011	75	30 seed/pot, sand, refrigerator
	Iris leaves	Oct 6, 2011		
	Musa	Oct 6, 2011		
2 pots	Nicotiana rustica	Jul 21, 2011	77	Plant seed, 1 - 4" pot
2 pots	Nicotiana rustica	Jul 29, 2011	69	Plant seed, 1 - 4" pot

10	Nicotiana rustica petiole	Aug 7, 2011	60	1 - 4" pot, plant seed
	Panadanus	Oct 6, 2011		
	Pansy	Oct 6, 2011		
	Peperomia leaves	Oct 6, 2011		
20 leaves	Peperomia obtusifolium leaves	Oct 6, 2011		Enter directions here
	Snapdragon	Oct 6, 2011		
1	Sugar cane	Oct 6, 2011		
	Tillandsia(Spanish moss)	Oct 6, 2011		
	Verbascum leaves	Oct 6, 2011		

### **Lab 6 Xylem and Xylem Regeneration Experiment - part 2**

Oct 11, 2011

Quantity	Plant Material	Date planted	Days	Directions
1 bag	Apium(celery)	Oct 11, 2011		

### **Lab 7 Phloem and Xylem Regeneration Experiment - part 3**

Oct 13, 2011

Quantity	Plant Material	Date planted	Days	Directions
3 - 6"pots	Cucurbita	Sep 18, 2011	25	6seed/pan 3pl/pot

### **Lab 8 Lab Exam 1**

Oct 18, 2011

Quantity	Plant Material	Date planted	Days	Directions
0	No plants specified	Oct 18, 2011		Enter directions here

### **Lab 9 Root Apical Organization, Primary Growth, and Root Systems**

Oct 20, 2011

Quantity	Plant Material	Date planted	Days	Directions
	Corolloid roots of cycad, Encephalartos	Oct 20, 2011		
	Dandelion roots	Oct 20, 2011		
	Epidendron ariel roots	Oct 20, 2011		
	Ficus pumila-clinging roots	Oct 20, 2011		
	Hedra helix (Ivy)--clinging roots	Oct 20, 2011		
	Iris rhizome	Oct 20, 2011		
	Mistletoe--with attachment to tree	Oct 20, 2011		
	Monstera deliciosa--long roots with growing	Oct 20, 2011		

	Monstera roots	Oct 20, 2011		
18 - 6" pots	Pea, dark grown	Oct 15, 2011	5	6 - 6" pots 20seed/pot Vermiculite/sand
	Tradescantia zebrina	Oct 20, 2011		

### **Lab 10 Rootlike Organs, Specialized Roots, Mature primary roots**

Oct 25, 2011

Quantity	Plant Material	Date planted	Days	Directions
3 - 4" pots	Dodder hastoria on Coleus	Jul 27, 2011	90	1 cutting Coleus/pot
5 - 5" pots	Foeniculum	Sep 20, 2011	35	6 seed/pot, 2pl/pot
3 - 4"pots	Rhizobium	Sep 25, 2011	30	Bean 3 seed/pot , inoculum
2, 3" pieces	Vanilla orchid root	Oct 25, 2011		
6 - 4"pots	Wheat roots	Sep 27, 2011	28	8 seed/pot

### **Lab 11 Root Secondary Growth and Anomalous Secondary Growth in Roots**

Oct 27, 2011

Quantity	Plant Material	Date planted	Days	Directions
2 - 1gal pots	Carrot root	Sep 12, 2011	45	20 seed/pot, 6pl/pot
	Dracena draco--old roots	Oct 27, 2011		
2	Sugar beet	Oct 27, 2011		
6 - 6" standard	Sugar beet	Oct 7, 2011	20	12 seed/pot, 5pl/pot
2 - 1 gallon	Sugar beet, mature	May 25, 2011	155	6 seeds/pot, 1 pl/pot
2	Sweet potato	Oct 25, 2011	2	Sue will get at store.

### **Lab 12 Shoot Apical Organization, Primary Stem Primary Organization**

Nov 1, 2011

Quantity	Plant Material	Date planted	Days	Directions
	Coleus--very young stems	Nov 1, 2011		
	Elodea shoot	Nov 1, 2011		
7-8/rm	Epidendron shoots	Nov 1, 2011		
2 - 4" pots	Hesperonide	Sep 12, 2011	50	Find weedlings and transplant.
4 - 6"pots	Lupinus apex	Oct 20, 2011	12	8seed/pot , cover w/sand 2" deep, cool temps
4 - 6"pots	Lupinus apex	Oct 24, 2011	8	8seed/pot , cover w/sand 2" deep, cool temps
	Lupinus shoot	Nov 1, 2011		
2 plants	Tolmiea	Nov 1, 2011		Enter directions here

2 - 5.5" pots    Young Corn shoot apex    Oct 11, 2011    21    6 seed/pot, no thinning

### **Lab 13 Lab Midterm Exam 2**

Nov 3, 2011

Quantity	Plant Material	Date planted	Days	Directions
0	No plants specified	Nov 3, 2011		Enter directions here

### **Lab 14 Primary Stem Architecture, Stem Modifications, Initiation of Secondary Growth**

Nov 8, 2011

Quantity	Plant Material	Date planted	Days	Directions
2	Cephalocereus with lateral cephalum	Nov 8, 2011		
2 plants	Duchenia stolons	Nov 8, 2011		Enter directions here
	Epidendron stem	Nov 8, 2011		
2	Melocactus with cephalum	Nov 8, 2011		
	Peperomia obtusifolium stem. Bench 3 or	Nov 8, 2011		
6	potatoes	Nov 8, 2011		
A few	Psilotum stems and rhizomes	Nov 8, 2011		Enter directions here

### **Lab 15 Vascular Cambium, Wood Anatomy**

Nov 10, 2011

Quantity	Plant Material	Date planted	Days	Directions
4 - 6"pots	Tomato	Sep 21, 2011	50	1 - 4" pan 12seed/pot

### **Lab 16 Periderm and Anomalous Secondary Growth in Stems**

Nov 15, 2011

Quantity	Plant Material	Date planted	Days	Directions
4	Bougainvillea, 18 inch stem pieces	Nov 15, 2011		
	Cordyline stems	Nov 15, 2011		
	Dracena stem	Nov 15, 2011		
	Ivy stems	Nov 15, 2011		
	Palm, young stem	Nov 15, 2011		
	Sambucus twigs	Nov 15, 2011		

### **Lab 17 Secretory Structures**

Nov 17, 2011

Quantity	Plant Material	Date planted	Days	Directions
	Acacia leaves	Nov 17, 2011		

	Acer	Nov 17, 2011		
	Any Euphorbia stem	Nov 17, 2011		
A few	Arbutus unedo flowers	Nov 17, 2011		Enter directions here
	Ardisia leaves	Nov 17, 2011		
	Bambusa	Nov 17, 2011		
	Bird of Paradise flowers	Nov 17, 2011		
A few	Cercropia stems & leaves	Nov 17, 2011		Enter directions here
	Chorisa petioles	Nov 17, 2011		
	Cissus rotundifolia	Nov 17, 2011		
A few	Correa leaves	Nov 17, 2011		Enter directions here
	Crassula argenta leaves	Nov 17, 2011		
a few	Euphorbia pulcherrima flowers	Nov 17, 2011		Enter directions here
50	Ginko leaves	Nov 17, 2011		Enter directions here
50	Impatiens leaves	Nov 17, 2011		Enter directions here
	Lactuca scariolar or Sonchus--leaves	Nov 17, 2011		
A few	Laurus nobilis leaves	Nov 17, 2011		Enter directions here
	Leea coccinea	Nov 17, 2011		
6	Lemons or limes	Nov 17, 2011		
2 - 4"pots, MUC	Mint leaves and stems	Aug 19, 2011	90	Take cuttings from Doug's plants
	Nerium oleander leaves	Nov 17, 2011		
	Passiflora sp. leaves and flowers. In Vit.	Nov 17, 2011		
A few	Phormium tenax leaves w/red variegation	Nov 17, 2011		Enter directions here
	Piper hispida	Nov 17, 2011		
	Piper nigrum , leaves and stems	Nov 17, 2011		
	Ribes viburnifolium, leaves for trichomes	Nov 17, 2011		
	Salix	Nov 17, 2011		
A few	Salvia leucantha flowers	Nov 17, 2011		Enter directions here
A few	Salvia officinalis leaves	Nov 17, 2011		Enter directions here
50	Taxus leaves	Nov 17, 2011		Enter directions here
2 - 6"pots	Tomato	Sep 28, 2011	50	1 - 4" pot, 12seed/pot

## Lab 18 Leaf Development and Diversity

Nov 22, 2011

Quantity	Plant Material	Date planted	Days	Directions
	Acacia phyllodes,with juvenile (compound)	Nov 22, 2011		
2	Aloe plant in pot	Nov 22, 2011		Enter directions here
A few	Asparagus stems with leaves	Nov 22, 2011		Enter directions here
	Auracaria branch	Nov 22, 2011		
2	Ceratophyllum	Nov 22, 2011		
4	Dionaea	Nov 22, 2011		Enter directions here
	Drosera	Nov 22, 2011		
A few	Epiphyllum or Colletia	Nov 22, 2011		Enter directions here
	Eucalyptus--adult and juvenile leaves	Nov 22, 2011		
	Hedera (Ivy)--adult and juvenile leaves	Nov 22, 2011		
	Nymphaea (water lily) leaves	Nov 22, 2011		
2	Opuntia plant in pot	Nov 22, 2011		Enter directions here
4	Pinguicula	Nov 22, 2011		Enter directions here
2	Ranunculus	Nov 22, 2011		
	Ruscus cladodes	Nov 22, 2011		