

# PLB 105 Fall 2013

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Sections:  
Lab rooms:

## Lab 1 Microscopes and Microtechnique; Plant Development

Sep 26, 2013

Quantity	Plant Material	Date planted	Days	Directions
2 - 6" pots	Bean	Sep 19, 2013	7	20 seed/pot
4 - 6" pots	Bean	Sep 9, 2013	17	15 seed/pot
6 - 6" pots	Bean	Aug 29, 2013	28	6 seed/pot 4pl/pot
20 flowers	Tradescantia stamen trichomes	May 29, 2013	120	Repot

## Lab 2 The Plant Cell

Oct 1, 2013

Quantity	Plant Material	Date planted	Days	Directions
A few	Aridisia petiole	Oct 1, 2013		Enter directions here
2	Begonia petiole "Angel Wing"	Oct 1, 2013		
	Elodea stems	Oct 1, 2013		
A few.	Lavendula leaf	Oct 1, 2013		Enter directions here
	Lemna	Oct 1, 2013		
50	Pereskia leaf	Oct 1, 2013		Enter directions here
	Pilea cadierei	Oct 1, 2013		
	Tradescantia zebrina	Oct 1, 2013		
3 - 6" pots	Vicia sativa	Sep 1, 2013	30	15 seed/pot

## Lab 3 Parenchyma and Collenchyma

Oct 3, 2013

Quantity	Plant Material	Date planted	Days	Directions
3 - 6" pots	Cucurbita	Sep 10, 2013	23	6seed/pot 3pl/pot
	Eichornia petiole	Oct 3, 2013		
	Juncus stem	Oct 3, 2013		
2 - 5.5" pots	Medicago	Aug 16, 2013	48	8seed/pot
6	Nymphaea petioles	Oct 3, 2013		Enter directions here
	Petasites petioles	Oct 3, 2013		
	Sambucus	Oct 3, 2013		

Sansevieria Oct 3, 2013

Smilax root Oct 3, 2013

## Lab 4 Sclerenchyma

Oct 8, 2013

Quantity	Plant Material	Date planted	Days	Directions
2 plants	Anthurium	Oct 8, 2013		Enter directions here
A few	Linum usitatissimum stems	Oct 8, 2013		Enter directions here
A few	Podocarpus leaves	Oct 8, 2013		Enter directions here
	Sanserieria	Oct 8, 2013		

## Lab 5 Epidermis

Oct 10, 2013

Quantity	Plant Material	Date planted	Days	Directions
	Agrostis	Oct 10, 2013		
2 - 6" pots	Bean stomata	Sep 15, 2013	25	6 seed/pot 3pl/pot
	Begonia leaf, clustered stomata	Oct 10, 2013		
25	Begonia leaf, without clustered stomata	Oct 10, 2013		
4 - 6" pots	Corn stomata	Sep 10, 2013	30	8 seed/pot 4pl/pot
4 - 6" pots	Cotton stomata	Sep 5, 2013	35	6seed/pan 3pl/pot
	Dianthus leaves	Oct 10, 2013		
	Enseti	Oct 10, 2013		
	Ficus leaves	Oct 10, 2013		
2 - 4"pots	Gasoul	Jul 27, 2013	75	30 seed/pot, sand, refrigerator
	Iris leaves	Oct 10, 2013		
	Musa	Oct 10, 2013		
2 pots	Nicotiana rustica	Jul 25, 2013	77	Plant seed, 1 - 4" pot
2 pots	Nicotiana rustica	Aug 2, 2013	69	Plant seed, 1 - 4" pot
10 petiole	Nicotiana rustica petiole	Aug 11, 2013	60	1 - 4" pot, plant seed
	Panadanus	Oct 10, 2013		
	Pansy	Oct 10, 2013		
	Peperomia leaves	Oct 10, 2013		
20 leaves	Peperomia obtusifolium leaves	Oct 10, 2013		Enter directions here
	Snapdragon	Oct 10, 2013		

1	Sugar cane	Oct 10, 2013
	Tillandsia(Spanish moss)	Oct 10, 2013
	Verbascum leaves	Oct 10, 2013

### **Lab 6 Xylem**

Oct 15, 2013

Quantity	Plant Material	Date planted	Days	Directions
0	No plant material needed	Oct 15, 2013		Enter directions here

### **Lab 7 Phloem**

Oct 17, 2013

Quantity	Plant Material	Date planted	Days	Directions
3 - 6"pots	Cucurbita	Sep 22, 2013	25	6seed/pan 3pl/pot

### **Lab 8 Root Apical Organization, Primary Growth**

Oct 22, 2013

Quantity	Plant Material	Date planted	Days	Directions
0	No plants specified	Oct 22, 2013		Enter directions here

### **Lab 9 Lateral Roots, Root Systems**

Oct 24, 2013

Quantity	Plant Material	Date planted	Days	Directions
	Corolloid roots of cycad, Encephalartos	Oct 24, 2013		
	Dandelion roots	Oct 24, 2013		
	Epidendron ariel roots	Oct 24, 2013		
	Ficus pumila-clinging roots	Oct 24, 2013		
	Hedra helix (Ivy)--clinging roots	Oct 24, 2013		
	Iris rhizome	Oct 24, 2013		
	Mistletoe--with attachment to tree	Oct 24, 2013		
	Monstera deliciosa--long roots with growing	Oct 24, 2013		
	Monstera roots	Oct 24, 2013		
18 - 6" pots	Pea, dark grown	Oct 19, 2013	5	6 - 6" pots 20seed/pot Vermiculite/sand
	Tradescantia zebrina	Oct 24, 2013		

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

Oct 29, 2013

Quantity	Plant Material	Date planted	Days	Directions
3 - 4" pots	Dodder hastoria on Coleus	Aug 15, 2013	75	1 cutting Coleus/pot
5 - 5" pots	Foeniculum	Sep 24, 2013	35	6 seed/pot, 2pl/pot
3 - 4"pots	Rhizobium	Sep 29, 2013	30	Bean 3 seed/pot , inoculum
2, 3" pieces	Vanilla orchid root	Oct 29, 2013		
6 - 4"pots	Wheat roots	Oct 1, 2013	28	8 seed/pot

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

Oct 31, 2013

Quantity	Plant Material	Date planted	Days	Directions
2 - 1gal pots	Carrot root	Sep 16, 2013	45	20 seed/pot, 6pl/pot
	Dracena draco--old roots	Oct 31, 2013		
2	Sugar beet	Oct 31, 2013		
6 - 6" standard	Sugar beet	Oct 11, 2013	20	12 seed/pot, 5pl/pot
2 - 1 gallon	Sugar beet, mature	May 29, 2013	155	6 seeds/pot, 1 pl/pot
2	Sweet potato	Oct 29, 2013	2	Sue will get at store.

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

Nov 5, 2013

Quantity	Plant Material	Date planted	Days	Directions
	Coleus--very young stems	Nov 5, 2013		
	Elodea shoot	Nov 5, 2013		
7-8/rm	Epidendron shoots	Nov 5, 2013		
4 - 6"pots	Lupinus apex	Oct 24, 2013	12	8seed/pot , cover w/sand 2" deep, cool temps
4 - 6"pots	Lupinus apex	Oct 28, 2013	8	8seed/pot , cover w/sand 2" deep, cool temps
	Lupinus shoot	Nov 5, 2013		
2 - 4" pots	Pilea pumila (Hesperonide tenella)	Sep 16, 2013	50	Find weedlings and transplant.
2 plants	Tolmiea	Nov 5, 2013		Enter directions here
2 - 5.5" pots	Young Corn shoot apex	Oct 15, 2013	21	6 seed/pot, no thinning

## **Lab 13 Primary Stem Growth and Architecture**

Nov 7, 2013

Quantity	Plant Material	Date planted	Days	Directions
0	No plants specified	Nov 7, 2013		Enter directions here

## **Lab 14 Initiation of Secondary Growth; Vascular Cambium**

Nov 12, 2013

Quantity	Plant Material	Date planted	Days	Directions
2	Cephalocereus with lateral cephalum	Nov 12, 2013		
2 plants	Duchenia stolons	Nov 12, 2013		Enter directions here
	Epidendron stem	Nov 12, 2013		
2	Melocactus with cephalum	Nov 12, 2013		
	Peperomia obtusifolium stem. Bench 3 or	Nov 12, 2013		
A few	Psilotum stems and rhizomes	Nov 12, 2013		Enter directions here

## **Lab 15 Wood Anatomy**

Nov 14, 2013

Quantity	Plant Material	Date planted	Days	Directions
4 - 6"pots	Tomato	Sep 25, 2013	50	1 - 4" pan 12seed/pot

## **Lab 16 Periderm**

Nov 19, 2013

Quantity	Plant Material	Date planted	Days	Directions
4	Bougainvillea, 18 inch stem pieces	Nov 19, 2013		
	Cordyline stems	Nov 19, 2013		
	Dracena stem	Nov 19, 2013		
	Ivy stems	Nov 19, 2013		
	Palm, young stem	Nov 19, 2013		
	Sambucus twigs	Nov 19, 2013		

## **Lab 17 Stem Anomalous Secondary Growth, Monocot Anatomy**

Nov 21, 2013

Quantity	Plant Material	Date planted	Days	Directions
	Acacia leaves	Nov 21, 2013		
	Acer	Nov 21, 2013		
	Any Euphorbia stem	Nov 21, 2013		

A few	Arbutus unedo flowers	Nov 21, 2013		Enter directions here
	Ardisia leaves	Nov 21, 2013		
	Bambusa	Nov 21, 2013		
	Bird of Paradise flowers	Nov 21, 2013		
A few	Cercropia stems & leaves	Nov 21, 2013		Enter directions here
	Chorisa petioles	Nov 21, 2013		
	Cissus rotundifolia	Nov 21, 2013		
A few	Correa leaves	Nov 21, 2013		Enter directions here
	Crassula argenta leaves	Nov 21, 2013		
a few	Euphorbia pulcherrima flowers	Nov 21, 2013		Enter directions here
50	Ginko leaves	Nov 21, 2013		Enter directions here
50	Impatiens leaves	Nov 21, 2013		Enter directions here
	Lactuca scariolar or Sonchus--leaves	Nov 21, 2013		
A few	Laurus nobilis leaves	Nov 21, 2013		Enter directions here
	Leea coccinea	Nov 21, 2013		
6	Lemons or limes	Nov 21, 2013		
2 - 4"pots, MUC	Mint leaves and stems	Aug 23, 2013	90	Take cuttings from Doug's plants
	Nerium oleander leaves	Nov 21, 2013		
	Passiflora sp. leaves and flowers. In Vit.	Nov 21, 2013		
A few	Phormium tenax leaves w/red variegation	Nov 21, 2013		Enter directions here
	Piper hispida	Nov 21, 2013		
	Piper nigrum , leaves and stems	Nov 21, 2013		
	Ribes viburnifolium, leaves for trichomes	Nov 21, 2013		
	Salix	Nov 21, 2013		
A few	Salvia leucantha flowers	Nov 21, 2013		Enter directions here
A few	Salvia offinalis leaves	Nov 21, 2013		Enter directions here
50	Taxus leaves	Nov 21, 2013		Enter directions here
2 - 6"pots	Tomato	Oct 2, 2013	50	1 - 4" pot, 12seed/pot

## **Lab 18 Secretary Structures**

Nov 26, 2013

Quantity	Plant Material	Date planted	Days	Directions
	Acacia phyllodes,with juvenile (compound)	Nov 26, 2013		

2	Aloe plant in pot	Nov 26, 2013	Enter directions here
A few	Asparagus stems with leaves	Nov 26, 2013	Enter directions here
	Auracaria branch	Nov 26, 2013	
2	Ceratophyllum	Nov 26, 2013	
4	Dionaea	Nov 26, 2013	Enter directions here
	Drosera	Nov 26, 2013	
A few	Epiphyllum or Colletia	Nov 26, 2013	Enter directions here
	Eucalyptus--adult and juvenile leaves	Nov 26, 2013	
	Hedera (Ivy)--adult and juvenile leaves	Nov 26, 2013	
	Nymphaea (water lily) leaves	Nov 26, 2013	
2	Opuntia plant in pot	Nov 26, 2013	Enter directions here
4	Pinguicula	Nov 26, 2013	Enter directions here
2	Ranunculus	Nov 26, 2013	
	Ruscus cladodes	Nov 26, 2013	