

# PLB 105 Fall 2014

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Sections:  
Lab rooms:

## Lab 1 Microscopes and Microtechnique; Plant Development

Oct 2, 2014

Quantity	Plant Material	Date planted	Days	Directions
2 - 6" pots	Bean	Sep 25, 2014	7	20 seed/pot
4 - 6" pots	Bean	Sep 15, 2014	17	15 seed/pot
6 - 6" pots	Bean	Sep 4, 2014	28	6 seed/pot 4pl/pot
20 flowers	Tradescantia stamen trichomes	Jun 4, 2014	120	Repot

## Lab 2 The Plant Cell

Oct 7, 2014

Quantity	Plant Material	Date planted	Days	Directions
A few	Aridisia petiole	Oct 7, 2014		Enter directions here
2	Begonia petiole "Angel Wing"	Oct 7, 2014		
	Elodea stems	Oct 7, 2014		
A few.	Lavendula leaf	Oct 7, 2014		Enter directions here
	Lemna	Oct 7, 2014		
50	Pereskia leaf	Oct 7, 2014		Enter directions here
	Pilea cadierei	Oct 7, 2014		
	Tradescantia zebrina	Oct 7, 2014		

## Lab 3 Parenchyma and Collenchyma

Oct 9, 2014

Quantity	Plant Material	Date planted	Days	Directions
3 - 6" pots	Cucurbita	Sep 16, 2014	23	6seed/pot 3pl/pot
	Eichornia petiole	Oct 9, 2014		
	Juncus stem	Oct 9, 2014		
2 - 5.5" pots	Medicago	Aug 22, 2014	48	8seed/pot
6	Nymphaea petioles	Oct 9, 2014		Enter directions here
	Petasites petioles	Oct 9, 2014		
	Sambucus	Oct 9, 2014		
	Sansevieria	Oct 9, 2014		

**Lab 4 Sclerenchyma**

Oct 14, 2014

Quantity	Plant Material	Date planted	Days	Directions
2 plants	Anthurium	Oct 14, 2014		Enter directions here
A few	Linum usitatissimum stems	Oct 14, 2014		Enter directions here
A few	Podocarpus leaves	Oct 14, 2014		Enter directions here
	Sanseria	Oct 14, 2014		

**Lab 5 Epidermis**

Oct 16, 2014

Quantity	Plant Material	Date planted	Days	Directions
	Agrostis	Oct 16, 2014		
2 - 6" pots	Bean stomata	Sep 21, 2014	25	6 seed/pot 3pl/pot
	Begonia leaf, clustered stomata	Oct 16, 2014		
25	Begonia leaf, without clustered stomata	Oct 16, 2014		
2 plants	Begonia stomata	Oct 16, 2014		Enter directions here
4 - 6" pots	Corn stomata	Sep 16, 2014	30	8 seed/pot 4pl/pot
4 - 6" pots	Cotton stomata	Sep 11, 2014	35	6seed/pan 3pl/pot
	Dianthus leaves	Oct 16, 2014		
	Enseti	Oct 16, 2014		
	Ficus leaves	Oct 16, 2014		
2 - 4"pots	Gasoul	Aug 2, 2014	75	30 seed/pot, sand, refrigerator
	Iris leaves	Oct 16, 2014		
	Musa	Oct 16, 2014		
2 pots	Nicotiana rustica	Jul 31, 2014	77	Plant seed, 1 - 4" pot
2 pots	Nicotiana rustica	Aug 8, 2014	69	Plant seed, 1 - 4" pot
10 petiole	Nicotiana rustica petiole	Aug 17, 2014	60	1 - 4" pot, plant seed
	Panadanus	Oct 16, 2014		
	Pansy	Oct 16, 2014		
	Peperomia leaves	Oct 16, 2014		
20 leaves	Peperomia obtusifolium leaves	Oct 16, 2014		Enter directions here
	Snapdragon	Oct 16, 2014		

1	Sugar cane	Oct 16, 2014
	Tillandsia(Spanish moss)	Oct 16, 2014
	Verbascum leaves	Oct 16, 2014

### **Lab 6 Xylem**

Oct 21, 2014

Quantity	Plant Material	Date planted	Days	Directions
0	No plant material needed	Oct 21, 2014		Enter directions here

### **Lab 7 Phloem**

Oct 23, 2014

Quantity	Plant Material	Date planted	Days	Directions
3 - 6"pots	Cucurbita	Sep 28, 2014	25	6seed/pan 3pl/pot

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

Oct 28, 2014

Quantity	Plant Material	Date planted	Days	Directions
0	No plants specified	Oct 28, 2014		Enter directions here

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

Oct 30, 2014

Quantity	Plant Material	Date planted	Days	Directions
	Corolloid roots of cycad, Encephalartos	Oct 30, 2014		
	Dandelion roots	Oct 30, 2014		
	Epidendron ariel roots	Oct 30, 2014		
	Ficus pumila-clinging roots	Oct 30, 2014		
	Hedra helix (Ivy)--clinging roots	Oct 30, 2014		
	Iris rhizome	Oct 30, 2014		
	Mistletoe--with attachment to tree	Oct 30, 2014		
	Monstera deliciosa--long roots with growing	Oct 30, 2014		
	Monstera roots	Oct 30, 2014		
18 - 6" pots	Pea, dark grown	Oct 25, 2014	5	6 - 6" pots 20seed/pot Vermiculite/sand
	Tradescantia zebrina	Oct 30, 2014		

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

Nov 4, 2014

Quantity	Plant Material	Date planted	Days	Directions
3 - 4" pots	Dodder hastoria on Coleus	Aug 21, 2014	75	1 cutting Coleus/pot
5 - 5" pots	Foeniculum	Sep 30, 2014	35	6 seed/pot, 2pl/pot
3 - 4"pots	Rhizobium	Oct 3, 2014	32	Bean 3 seed/pot , inoculum
2, 3" pieces	Vanilla orchid root	Nov 4, 2014		
6 - 4"pots	Wheat roots	Oct 7, 2014	28	8 seed/pot

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

Nov 6, 2014

Quantity	Plant Material	Date planted	Days	Directions
2 - 1gal pots	Carrot root	Sep 22, 2014	45	20 seed/pot, 6pl/pot
	Dracena draco--old roots	Nov 6, 2014		
2	Sugar beet	Nov 6, 2014		
6 - 6" standard	Sugar beet	Oct 17, 2014	20	12 seed/pot, 5pl/pot
2 - 1 gallon	Sugar beet, mature	Jun 4, 2014	155	6 seeds/pot, 1 pl/pot
2	Sweet potato	Nov 4, 2014	2	Sue will get at store.

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

Nov 18, 2014

Quantity	Plant Material	Date planted	Days	Directions
	Coleus--very young stems	Nov 18, 2014		
	Elodea shoot	Nov 18, 2014		
7-8/rm	Epidendron shoots	Nov 18, 2014		
4 - 6"pots	Lupinus apex	Nov 6, 2014	12	8seed/pot , cover w/sand 2" deep, cool temps
4 - 6"pots	Lupinus apex	Nov 10, 2014	8	8seed/pot , cover w/sand 2" deep, cool temps
	Lupinus shoot	Nov 18, 2014		
2 - 4" pots	Pilea pumila (Hesperonide tenella)	Sep 29, 2014	50	Find weedlings and transplant.
2 plants	Tolmiea	Nov 18, 2014		Enter directions here
2 - 5.5" pots	Young Corn shoot apex	Oct 28, 2014	21	6 seed/pot, no thinning

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

Nov 18, 2014

Quantity	Plant Material	Date planted	Days	Directions
0	No plants specified	Nov 18, 2014		Enter directions here

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

Nov 18, 2014

Quantity	Plant Material	Date planted	Days	Directions
2	Cephalocereus with lateral cephalum	Nov 18, 2014		
2 plants	Duchenia stolons	Nov 18, 2014		Enter directions here
	Epidendron stem	Nov 18, 2014		
2	Melocactus with cephalum	Nov 18, 2014		
	Peperomia obtusifolium stem. Bench 3 or	Nov 18, 2014		
A few	Psilotum stems and rhizomes	Nov 18, 2014		Enter directions here

## **Lab 15 Wood Anatomy**

Nov 20, 2014

Quantity	Plant Material	Date planted	Days	Directions
4 - 6"pots	Tomato	Oct 1, 2014	50	1 - 4" pan 12seed/pot

## **Lab 16 Periderm**

Nov 25, 2014

Quantity	Plant Material	Date planted	Days	Directions
4	Bougainvillea, 18 inch stem pieces	Nov 25, 2014		
	Cordyline stems	Nov 25, 2014		
	Dracena stem	Nov 25, 2014		
	Ivy stems	Nov 25, 2014		
	Palm, young stem	Nov 25, 2014		
	Sambucus twigs	Nov 25, 2014		

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

Dec 2, 2014

Quantity	Plant Material	Date planted	Days	Directions
	Acacia leaves	Dec 2, 2014		
	Acer	Dec 2, 2014		
	Any Euphorbia stem	Dec 2, 2014		

A few	Arbutus unedo flowers	Dec 2, 2014		Enter directions here
	Ardisia leaves	Dec 2, 2014		
	Bambusa	Dec 2, 2014		
	Bird of Paradise flowers	Dec 2, 2014		
A few	Cercropia stems & leaves	Dec 2, 2014		Enter directions here
	Chorisa petioles	Dec 2, 2014		
	Cissus rotundifolia	Dec 2, 2014		
A few	Correa leaves	Dec 2, 2014		Enter directions here
	Crassula argenta leaves	Dec 2, 2014		
a few	Euphorbia pulcherrima flowers	Dec 2, 2014		Enter directions here
50	Ginko leaves	Dec 2, 2014		Enter directions here
50	Impatiens leaves	Dec 2, 2014		Enter directions here
	Lactuca scariolar or Sonchus--leaves	Dec 2, 2014		
A few	Laurus nobilis leaves	Dec 2, 2014		Enter directions here
	Leea coccinea	Dec 2, 2014		
6	Lemons or limes	Dec 2, 2014		
2 - 4"pots, MUC	Mint leaves and stems	Sep 3, 2014	90	Take cuttings from Doug's plants
	Nerium oleander leaves	Dec 2, 2014		
	Passiflora sp. leaves and flowers. In Vit.	Dec 2, 2014		
A few	Phormium tenax leaves w/red variegation	Dec 2, 2014		Enter directions here
	Piper hispida	Dec 2, 2014		
	Piper nigrum , leaves and stems	Dec 2, 2014		
	Ribes viburnifolium, leaves for trichomes	Dec 2, 2014		
	Salix	Dec 2, 2014		
A few	Salvia leucantha flowers	Dec 2, 2014		Enter directions here
A few	Salvia offinalis leaves	Dec 2, 2014		Enter directions here
50	Taxus leaves	Dec 2, 2014		Enter directions here
2 - 6"pots	Tomato	Oct 13, 2014	50	1 - 4" pot, 12seed/pot

## **Lab 18 Secretary Structures**

Dec 4, 2014

Quantity	Plant Material	Date planted	Days	Directions
	Acacia phyllodes,with juvenile (compound)	Dec 4, 2014		

2	Aloe plant in pot	Dec 4, 2014	Enter directions here
A few	Asparagus stems with leaves	Dec 4, 2014	Enter directions here
	Auracaria branch	Dec 4, 2014	
2	Ceratophyllum	Dec 4, 2014	
4	Dionaea	Dec 4, 2014	Enter directions here
	Drosera	Dec 4, 2014	
A few	Epiphyllum or Colletia	Dec 4, 2014	Enter directions here
	Eucalyptus--adult and juvenile leaves	Dec 4, 2014	
	Hedera (Ivy)--adult and juvenile leaves	Dec 4, 2014	
	Nymphaea (water lily) leaves	Dec 4, 2014	
2	Opuntia plant in pot	Dec 4, 2014	Enter directions here
4	Pinguicula	Dec 4, 2014	Enter directions here
2	Ranunculus	Dec 4, 2014	
	Ruscus cladodes	Dec 4, 2014	