

PLB 105 Fall 2008

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Sections:
Lab rooms:

Lab 1 Microscopes and Microtechnique; Plant Development

Sep 25, 2008

Quantity	Plant Material	Date planted	Days	Directions
2 - 6" pots	Bean	Sep 18, 2008	7	20 seed/pot
4 - 6" pots	Bean	Sep 8, 2008	17	15 seed/pot
6 - 6" pots	Bean	Aug 28, 2008	28	8seed/pot 4pl/pot
20 flowers	Tradescantia stamen trichomes	May 28, 2008	120	Repot

Lab 2 The Plant Cell and Xylem Regeneration Experiment, part 1

Sep 30, 2008

Quantity	Plant Material	Date planted	Days	Directions
2 pkg.	Apium(celery)	Sep 30, 2008		Enter directions here
A few	Aridisia petiole	Sep 30, 2008		Enter directions here
2	Begonia petiole	Sep 30, 2008		
	Carrots	Sep 29, 2008	1	Purchase from store. 1 bag
17 - 6" pots,	Coleus	Sep 6, 2008	24	3 cuts/pot
	Elodea stems	Sep 30, 2008		
A few.	Lavendula leaf	Sep 30, 2008		Enter directions here
	Lemna	Sep 30, 2008		
2	Onion bulbs, white	Sep 30, 2008		Enter directions here
50	Pereskia leaf	Sep 30, 2008		Enter directions here
	Pilea	Sep 30, 2008		
6	Potatoes, small baking	Sep 29, 2008	1	Purchase from store.
2	Red bell pepper fruit	Sep 30, 2008		Enter directions here
	Zebrina	Sep 30, 2008		

Lab 3 Parenchyma and Collenchyma

Oct 2, 2008

Quantity	Plant Material	Date planted	Days	Directions
3 - 6" pots	Cucurbita	Sep 9, 2008	23	6seed/pot 3pl/pot
	Eichornia petiole	Oct 2, 2008		

	Juncus stem	Oct 2, 2008		
2 - 4" pots	Medicago	Aug 15, 2008	48	8seed/pot
6	Nymphaea petioles	Oct 2, 2008		Enter directions here
6	Pear fruit	Oct 2, 2008		
	Petasites petioles	Oct 2, 2008		
	Sambucus	Oct 2, 2008		
	Sansevieria	Oct 2, 2008		
	Smilax root	Oct 2, 2008		

Lab 4 Sclerenchyma, Xylem Regeneration Experiment, Part 2, Lab Exam 1

Oct 7, 2008

Quantity	Plant Material	Date planted	Days	Directions
A few	Linum usitatissimum stems	Oct 7, 2008		Enter directions here
6	Pear fruit	Oct 7, 2008		Enter directions here
A few	Podocarpus leaves	Oct 7, 2008		Enter directions here
	Sanserieria	Oct 7, 2008		

Lab 5 Epidermis

Oct 9, 2008

Quantity	Plant Material	Date planted	Days	Directions
	Agrostis	Oct 9, 2008		
2 - 6" pots	Bean stomata	Sep 14, 2008	25	6 seed/pot 3pl/pot
	Begonia leaf, clustered stomata	Oct 9, 2008		
25	Begonia leaf, without clustered stomata	Oct 9, 2008		
4 - 6" pots	Corn stomata	Sep 9, 2008	30	8 seed/pot 4pl/pot
4 - 6" pots	Cotton stomata	Sep 4, 2008	35	6seed/pan 3pl/pot
	Dianthus leaves	Oct 9, 2008		
	Enseti	Oct 9, 2008		
	Ficus leaves	Oct 9, 2008		
2 - 4"pots	Gasoul	Jul 26, 2008	75	30 seed/pot, sand, refrigerator
	Iris leaves	Oct 9, 2008		
	Musa	Oct 9, 2008		
2	Nicotiana rustica	Jul 24, 2008	77	Plant seed, 1 - 4" pot
2	Nicotiana rustica	Aug 1, 2008	69	Plant seed, 1 - 4" pot

10	Nicotiana rustica petiole	Aug 10, 2008	60	1 - 4" pot, plant seed
	Panadanus	Oct 9, 2008		
	Pansy	Oct 9, 2008		
	Peperomia leaves	Oct 9, 2008		
20 leaves	Peperomia obtusifolium leaves	Oct 9, 2008		Enter directions here
	Snapdragon	Oct 9, 2008		
1	Sugar cane	Oct 9, 2008		
	Tillandsia(Spanish moss)	Oct 9, 2008		
	Verbascum leaves	Oct 9, 2008		

Lab 6 Xylem and Xylem Regeneration Experiment, part 3

Oct 14, 2008

Quantity	Plant Material	Date planted	Days	Directions
1 bag	Apium(celery)	Oct 14, 2008		
	Coleus	Oct 14, 2008		

Lab 7 Phloem and Vessel Length Experiment

Oct 16, 2008

Quantity	Plant Material	Date planted	Days	Directions
3 - 6"pots	Cucurbita	Sep 21, 2008	25	6seed/pan 3pl/pot
4 - 1 gallon	Grape 'Chardonnay'	Jul 10, 2008	98	Purchase and plant bare root plants.

Lab 8 Root Apical Organization, Primary Growth, and Root Systems

Oct 21, 2008

Quantity	Plant Material	Date planted	Days	Directions
18 - 6" pots	Pea, dark grown	Oct 16, 2008	5	6 - 6" pots 20seed/pot Vermiculite/sand

Lab 9 Lateral Roots, Specialized Roots, Rootlike Organs, and Lab Exam 2

Oct 23, 2008

Quantity	Plant Material	Date planted	Days	Directions
	Corolloid roots of cycad, Encephalartos	Oct 23, 2008		
	Dandelion roots	Oct 23, 2008		
3 - 6" pots	Dodder hastoria	Aug 25, 2008	59	1 - 4" pot tomato
	Epidendron ariel roots	Oct 23, 2008		
	Ficus pumila-clinging roots	Oct 23, 2008		
5 - 5" pots	Foeniculum	Sep 18, 2008	35	6 seed/pot, 2pl/pot

	Hedra helix (Ivy)--clinging roots	Oct 23, 2008		
	Iris rhizome	Oct 23, 2008		
	Mistletoe--with attachment to tree	Oct 23, 2008		
	Monstera deliciosa--long roots with	Oct 23, 2008		
	Monstera roots	Oct 23, 2008		
3 - 4"pots	Rhizobium	Sep 23, 2008	30	Bean 3 seed/pot , inoculum
2, 3" pieces	Vanilla orchid root	Oct 23, 2008		
	Zebrina stems	Oct 23, 2008		

Lab 10 Mature Primary Roots, Root Secondary Growth

Oct 28, 2008

Quantity	Plant Material	Date planted	Days	Directions
6 - 4"pots	Wheat roots	Sep 30, 2008	28	8 seed/pot

Lab 11 Anomalous Secondary Growth in Roots

Oct 30, 2008

Quantity	Plant Material	Date planted	Days	Directions
2 - 1gal pots	Carrot root	Sep 15, 2008	45	20 seed/pot, 6pl/pot
	Coleus stem	Oct 30, 2008		
4 - 6"pots	Corn	Oct 5, 2008	25	15 seed/pot 10pl/pot
	Dracena draco--old roots	Oct 30, 2008		
2	Sugar beet	Oct 30, 2008		
6 - 6" standard	Sugar beet	Oct 10, 2008	20	12 seed/pot, 5pl/pot
2 - 1 gallon	Sugar beet, mature	May 28, 2008	155	6 seeds/pot, 1 pl/pot
2	Sweet potato	Oct 28, 2008	2	Sue will get at store.

Lab 12 Shoot Apex and Primary Growth

Nov 4, 2008

Quantity	Plant Material	Date planted	Days	Directions
	Coleus--very young stems	Nov 4, 2008		
	Elodea shoot	Nov 4, 2008		
7-8/rm	Epidendron shoots	Nov 4, 2008		
2 - 4" pots	Hesperonide	Sep 15, 2008	50	Find weedlings and transplant.
4 - 6"pots	Lupinus apex	Oct 27, 2008	8	8seed/pot , cover w/sand 2" deep, cool temps
	Lupinus shoot	Nov 4, 2008		

3 - 4" pots	Pelargonium	Jul 7, 2008	120	3 cuttings
	Pelargonium stem	Nov 4, 2008		

Lab 13 Stem Architecture, Modifications, Initiation of Secondary Growth, and Vascular

Nov 6, 2008

Quantity	Plant Material	Date planted	Days	Directions
2	Cephalocereus with lateral cephalum	Nov 6, 2008		
2 plants	Duchenia stolons	Nov 6, 2008		Enter directions here
	Epidendron stem	Nov 6, 2008		
2	Melocactus with cephalum	Nov 6, 2008		
	Peperomia obtusifolium stem. Bench 3	Nov 6, 2008		
6	potatoes	Nov 6, 2008		
A few	Psilotum stems and rhizomes	Nov 6, 2008		Enter directions here
4 - 6"pots	Tomato	Sep 2, 2008	65	1 - 4" pan 12seed/pot

Lab 15 Periderm, Anomalous Secondary Growth in Stems, and Lab Exam 3

Nov 13, 2008

Quantity	Plant Material	Date planted	Days	Directions
4	Bougainvillea, 18 inch pieces of stem	Nov 13, 2008		
	Cordyline stems. Bench 11	Nov 13, 2008		
	Dracena stem. Bench 11. Long green	Nov 13, 2008		
	Ivy stems	Nov 13, 2008		
	Palm, young stem. Under chairman's	Nov 13, 2008		
	Sambucus twigs	Nov 13, 2008		
4 - 6"pots	Tomato	Sep 9, 2008	65	1 - 4" pan 12seed/pot

Lab 16 Secretory Structures and Lab Quiz

Nov 18, 2008

Quantity	Plant Material	Date planted	Days	Directions
	Acacia leaves	Nov 18, 2008		
	Any Euphorbia stem. Also in courtyard	Nov 18, 2008		
A few	Arbutus unedo flowers	Nov 18, 2008		Enter directions here
	Ardisia leaves	Nov 18, 2008		
	Bird of Paradise flowers. Also in	Nov 18, 2008		
A few	Cercropia stems & leaves	Nov 18, 2008		Enter directions here

	Chorisa petioles. In outside walkway	Nov 18, 2008		
	Cissus rotundifolia	Nov 18, 2008		
A few	Correa leaves	Nov 18, 2008		Enter directions here
	Crassula argenta leaves	Nov 18, 2008		
a few	Euphorbia pulcherrima flowers	Nov 18, 2008		Enter directions here
50	Impatiens leaves	Nov 18, 2008		Enter directions here
	Lactuca scariolar or Sonchus--leaves	Nov 18, 2008		
A few	Laurus nobilis leaves	Nov 18, 2008		Enter directions here
	Leea coccinea	Nov 18, 2008		
6	Lemons or limes	Nov 18, 2008		
	Mentha (mint) leaves and stems	Nov 18, 2008		
	Passiflora sp. leaves and flowers. In Vit.	Nov 18, 2008		
	Piper hispida	Nov 18, 2008		
	Piper nigrum , leaves and stems	Nov 18, 2008		
	Ribes viburnifolium, leaves for	Nov 18, 2008		
A few	Salvia leucantha flowers	Nov 18, 2008		Enter directions here
A few	Salvia officinalis leaves	Nov 18, 2008		Enter directions here
2 - 6"pots	Tomato	Sep 29, 2008	50	1 - 4" pot, 12seed/pot

Lab 17 Leaf Venation, Anatomy, Development, and Abscission

Nov 25, 2008

Quantity	Plant Material	Date planted	Days	Directions
	Acer	Nov 25, 2008		
	Bambusa	Nov 25, 2008		
50	Ginko leaves	Nov 25, 2008		Enter directions here
	Nerium oleander leaves	Nov 25, 2008		
A few	Phormium tenax leaves w/red	Nov 25, 2008		Enter directions here
	Salix	Nov 25, 2008		
50	Taxus leaves	Nov 25, 2008		Enter directions here

Lab 18 Leaf Environmental Types, Specialized Leaves, and Heterophylly

Dec 2, 2008

Quantity	Plant Material	Date planted	Days	Directions
	Acacia phyllodes,with juvenile	Dec 2, 2008		

2	Aloe plant in pot	Dec 2, 2008		Enter directions here
A few	Asparagus stems with leaves	Dec 2, 2008		Enter directions here
	Auracaria branch	Dec 2, 2008		
	Carnivorous plants: Sarracenia, fly trap	Dec 2, 2008		
2	Ceratophyllum	Dec 2, 2008		
A few	Epiphyllum or Colletia	Dec 2, 2008		Enter directions here
	Eucalyptus--adult and juvenile leaves	Dec 2, 2008		
	Hedera (Ivy)--adult and juvenile leaves	Dec 2, 2008		
	Nymphaea (water lily) leaves	Dec 2, 2008		
2	Opuntia plant in pot	Dec 2, 2008		Enter directions here
2	Ranunculus	Dec 2, 2008		
2 - 6" pots	Ricinus leaves	Oct 18, 2008	45	3 seeds/pot, 1 pl
	Ruscus cladodes	Dec 2, 2008		

Lab 19 Flowers, Fruits, and Seeds

Dec 4, 2008

Quantity	Plant Material	Date planted	Days	Directions
A few	Crassula flowers	Dec 4, 2008		Enter directions here