

PLB 116 Winter 2007

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Lab 1 Review Of Anatomy And Life Cycle

Jan 4, 2007

Quantity	Plant Material	Date planted	Days	Directions
1-7.5" pot	Corn pollen	Nov 19, 2006	46	5 seeds/pot 3pl/pot
1-7.5" pot	Corn pollen	Nov 14, 2006	51	5 seeds/pot 3pl/pot
1-7.5" pot	Corn pollen	Nov 24, 2006	41	5 seeds/pot 3pl/pot
1	Equisetum	Jan 4, 2007		
1	Fern	Jan 4, 2007		
1	Fern	Jan 4, 2007		
	Fern gametophytes. Some with	Jan 4, 2007		
40 seed	Pea seed	Jan 3, 2007	1	Soak in tray of water.
	Pine branch with old cones	Jan 4, 2007		

Lab 2 Charophyta, Bryophytes, Rhyniophyta

Jan 9, 2007

Quantity	Plant Material	Date planted	Days	Directions
	Anthoceros (hornwort)	Jan 9, 2007		
	Chara or Nitella	Jan 9, 2007		
	Coleochaete on slides, started 11/20	Jan 9, 2007		
	Japanese Psilotum with sporangia on	Jan 9, 2007		
	Marchantia w/sporophytes	Nov 28, 2006	42	For student dissection
	Marchantia with Gemmae	Jan 9, 2007		
	Moss w/sporophytes	Jan 9, 2007		For student dissection
	Moss with tiny, upright sporophytes.	Jan 9, 2007		

Lab 3 Lycopodium

Jan 11, 2007

Quantity	Plant Material	Date planted	Days	Directions
	Lycopodium lucidulum	Jan 11, 2007		
	Lycopodium squarrosum	Jan 11, 2007		

Lab 4 Selaginella, Angle Meristem Experiment

Jan 16, 2007

Quantity	Plant Material	Date planted	Days	Directions
9 lg flats	Selaginella hardeiformes (red one)	Jan 16, 2007	140	Propagate if needed.
	Selaginella martensii	Aug 29, 2006		
	Selaginella martensii (2 flats)and	Jan 16, 2007		
	Selaginella pallescens	Jan 16, 2007		
	Selaginella sp.	Jan 16, 2007		
	Selaginella sporelings still attached to	Jan 16, 2007		
	Selaginella uncinata (blue one)	Jan 16, 2007		
	Selaginella viticulosa	Jan 16, 2007		
	Selaginella, many diverse species.	Jan 16, 2007		

Lab 5 Lepidodendrales

Jan 18, 2007

Quantity	Plant Material	Date planted	Days	Directions
	100 plastic petri dishes of washed	Jan 18, 2007		
	40 4" pots, labels, and sunshine mix, liter	Jan 18, 2007		
	5 species of fern spores to sow--	Jan 18, 2007		
	Fern spores for students	Jan 18, 2007		
	Lycopodium, anything available	Jan 18, 2007		
	No living plants	Jan 18, 2007		
	Sow fern spores	Jan 18, 2007		

Lab 6 Isoetes, Mold Cast Technique

Jan 23, 2007

Quantity	Plant Material	Date planted	Days	Directions
	Any small plant for molding	Jan 23, 2007		
	Isoetes	Jan 23, 2007		
	Small plant parts for molding demo:	Jan 23, 2007		

Lab 7 Psilophyta

Jan 25, 2007

Quantity	Plant Material	Date planted	Days	Directions
2 pots	Psilotum & gametophytes	Jan 25, 2007		

Psilotum nudum'Bunryuzan'

Jan 25, 2007

Lab 8 Spenophyta

Jan 30, 2007

Quantity	Plant Material	Date planted	Days	Directions
	Bring in lots of E. diffusum and one in	Jan 30, 2007		
	E. giganteum	Jan 30, 2007		
	E. giganteum B93.314	Jan 30, 2007		
	E. ramosissimum	Jan 30, 2007		
	E. ramosissimum B85.024 small,	Jan 30, 2007		
2	Equisetum	Dec 16, 2006	45	Move to warm long days. Weier is good for this.
2	Equisetum diffusum strobili	Dec 21, 2006	40	Dig up and move into greenhouse.
	Equisetum--all available species and	Jan 30, 2007		

Lab 9 Eusporangiate Ferns

Feb 1, 2007

Quantity	Plant Material	Date planted	Days	Directions
	Angiopteris pinnae	Feb 1, 2007		
	Angiopteris--lg fern in main room	Feb 1, 2007		
	Botrychium	Feb 1, 2007		
	Botrychium--in 2nd fern room B98.084	Feb 1, 2007		
	Danaea	Feb 1, 2007		
	Macroglossum--1st fern room B89.353	Feb 1, 2007		
	Marattia	Feb 1, 2007		
	Marattia fraxinea--2nd fern room	Feb 1, 2007		
	Ophioglossum	Feb 1, 2007		
2	Ophioglossum	Feb 1, 2007		
	Ophioglossum B59.137	Feb 1, 2007		
	Polypodium chunks	Feb 1, 2007		
	Polypodium plant chunks--lg, hanging in	Feb 1, 2007		

Lab 10 Filicales

Feb 6, 2007

Quantity	Plant Material	Date planted	Days	Directions
	Adiantum	Feb 6, 2007		

Asplenium	Feb 6, 2007		
Asplenium, Cionidium	Feb 6, 2007		
Cyrtomium	Feb 6, 2007		
Davallia	Feb 6, 2007		
Davallia--about 10 inches of rhizomes	Feb 6, 2007		
Dennstaedtia	Feb 6, 2007		
Dryopteris	Feb 6, 2007		
Dryopteris, Cyrtomium, Woodwardia w/	Feb 6, 2007		
Fern fronds showing soral and	Feb 6, 2007		
Fronds of Polypodium and	Feb 6, 2007		
Lygodium	Feb 6, 2007		
Lygodium, Osmunda, Dennstaedtia,	Feb 6, 2007		
Osmunda	Feb 6, 2007		
Pityrogramma	Dec 8, 2006	60	Move to Weier greenhouse for long warm days.
Platynerium	Feb 6, 2007		
Polypodium portions	Feb 6, 2007		
Rhizomes of Hypolepis (or Polypodium)	Feb 6, 2007		
Rumohra and Cystopteris	Feb 6, 2007		Can use different genera.
Woodwardia	Feb 6, 2007		

Lab 11 Filicales, Marsileales, Salviniiales

Feb 8, 2007

Quantity	Plant Material	Date planted	Days	Directions
	Azolla	Feb 8, 2007		
	Azolla, Marsilea, Pilularia, Regnellidium	Feb 8, 2007		
	fern gametophytes w/ attached	Feb 8, 2007		
30	Fern Gametophytes with sporophytes	Nov 10, 2006	90	Check Oasis blocks for fern Gametophytes
30	Fern Gametophytes without sporophytes	Nov 10, 2006	90	Check Oasis blocks for fern Gametophytes
	Hypolepis rhizomes to section	Feb 8, 2007		
	Marsilea	Feb 8, 2007		
	Marsilea drummondii sporocarps	Feb 8, 2007		
	Pilularia-check 2 weeks ahead to be	Feb 8, 2007		
	Polypodium aureum gametophytes	Feb 8, 2007		

Polypodium dispersum gametophytes Feb 8, 2007

Regnilidium--west of 61. check with Tim Feb 8, 2007

Salvinia--in fern/orchid room and heat Feb 8, 2007

Lab 12 Seed Ferns And Cycads, Cycad Tour

Feb 13, 2007

Quantity	Plant Material	Date planted	Days	Directions
	Bowenia (leaf like) B84.298	Feb 13, 2007		
	Cycad seed	Jul 8, 2006	220	Purchase seed if needed.
	Cycads, various plants/male and female	Feb 13, 2007		
3 - 5" pots	Cycas revoluta seedlings	Oct 16, 2006	120	6 seed/pot
2 - 7.5" pots	Dioon seedlings	Oct 16, 2006	120	6-8 seeds/pot, cover with sand.
	Dioon sp. B90.482	Feb 13, 2007		
	Encephalartos horridus (spikey one)	Feb 13, 2007		
	small Cycas revoluta B89.003	Feb 13, 2007		
	small Zamia	Feb 13, 2007		
	Stangeria B 89.006	Feb 13, 2007		
	Zamia pumila	Feb 13, 2007		

Lab 13 Cycadales And Ginkgo

Feb 15, 2007

Quantity	Plant Material	Date planted	Days	Directions
	Cycad seedlings again	Feb 15, 2007		
	Cycads, seedlings and female cones	Feb 15, 2007		
2	Ginkgo	Dec 27, 2006	50	Move to long days.
	Ginkgo--forced tree and 6or 7 18"	Feb 15, 2007		

Lab 14 Coniferales And Conifer Tour

Feb 20, 2007

Quantity	Plant Material	Date planted	Days	Directions
	any potted conifers available, including	Feb 20, 2007		
	Araucaria	Feb 20, 2007		
	branches, with cones of: Abies	Feb 20, 2007		
	Calocedrus	Feb 20, 2007		
	Cedrus	Feb 20, 2007		

Cupressus	Feb 20, 2007
Juniperus	Feb 20, 2007
lots of 1st and 2nd year cones	Feb 20, 2007
Metasequoia	Feb 20, 2007
Picea	Feb 20, 2007
Pinus coulteri	Feb 20, 2007
Pinus halepensis, 2-3 years of cones.	Feb 20, 2007
Pinus sabiniana	Feb 20, 2007
Pinus torreyana	Feb 20, 2007
Podocarpus, C St bet 5th and 6th	Feb 20, 2007
Pseudotsuga	Feb 20, 2007
Sequoia	Feb 20, 2007
Sequoiadendron	Feb 20, 2007
Taxus	Feb 20, 2007
Thuja, by Mrak	Feb 20, 2007
Torreya, 25 yds west of desert bridge.	Feb 20, 2007

Lab 15 Coniferales

Feb 22, 2007

Quantity	Plant Material	Date planted	Days	Directions
1/4 pound of	Pinyon pine seed	Feb 22, 2007		
3 - 4" pots	Pinyon pine seedlings	Jan 23, 2007	30	5 seed/pot

Lab 16 Gnetophyta And Greenhouse Tour

Feb 27, 2007

Quantity	Plant Material	Date planted	Days	Directions
	Ephedra	Feb 27, 2007		
	Ephedra	Feb 27, 2007		
1	Gnetum	Feb 27, 2007		
1	Gnetum, cones if available	Feb 27, 2007		
1/4 pound of	Pinyon pine seed	Feb 27, 2007		
2 seedlings	Welwitschia seedlings with cotyledons	Dec 14, 2006	75	8 - rose pots pumice w/soil at bottom
	Welwitschia, mature plants, seedlings,	Feb 27, 2007		

Lab 17 Angiosperm Wood Anatomy and Floral Development - Stamens And Pollen

Mar 1, 2007

Quantity	Plant Material	Date planted	Days	Directions
2 plants	Asclepias curassavica flowers	Mar 1, 2007		Enter directions here
	Clematis flowers	Mar 1, 2007		
2	Impatiens w/pollen--yellow and red	Mar 1, 2007		
2	Impatiens, simple pink flower.	Dec 1, 2006	90	4 cuttings
	Tradescantia	Mar 1, 2007		
	Tradescantia flowers w/pollen	Mar 1, 2007		

Lab 18 Angiosperm Reproduction - Embryo Sac And Embryogeny

Mar 6, 2007

Quantity	Plant Material	Date planted	Days	Directions
2 - 6"pots	Capsella bursa-pastoris	Jan 23, 2007	42	2 - 6" pots, cover w/sand
2 - 6"pots	Capsella bursa-pastoris	Jan 9, 2007	56	2 - 6" pots, cover w/sand
2 - 6"pots	Capsella bursa-pastoris	Feb 6, 2007	28	2 - 6" pots, cover w/sand

Lab 19 Angiosperm Reproduction - Fruit And Seeds

Mar 8, 2007

Quantity	Plant Material	Date planted	Days	Directions
	1 cantaloupe	Mar 8, 2007		
	1 eggplant	Mar 8, 2007		
	1 mango	Mar 8, 2007		
	1 papaya	Mar 8, 2007		
	1 pepper	Mar 8, 2007		
	1 pineapple--but a week early	Mar 8, 2007		
	10 oranges	Mar 8, 2007		
	2 avocados	Mar 8, 2007		
	2 cucumbers	Mar 8, 2007		
	2 nectarine or peach	Mar 8, 2007		
	2 pears	Mar 8, 2007		
	2 plums	Mar 8, 2007		
	4 bananas	Mar 8, 2007		
	4 kiwi	Mar 8, 2007		

20-30 seed	Asclepias sp. seed with dispersal fibers	Mar 8, 2007	
	bag of apples	Mar 8, 2007	
?	Broad bean seed, Soak for 24 hours.	Mar 8, 2007	Enter directions here
	cherry tomatoes--bsk	Mar 8, 2007	
	coconut	Mar 8, 2007	
1	Corn ear	Mar 8, 2007	Purchase at store
?	Cotton seed, Soak for 24 hours.	Mar 8, 2007	Enter directions here
?	Cucumber or melon seed, Soak for 24	Mar 8, 2007	Enter directions here
	dried figs--pkg. Aisle 7	Mar 8, 2007	
	get purchase order not to exceed \$75:	Mar 8, 2007	
	grapes, seeded if possible	Mar 8, 2007	
	green beans--handful	Mar 8, 2007	
	Interesting fruits from Tim & Doug	Mar 8, 2007	FRUITS AND SEEDS
	interesting fruits from Tim:Asclepias, Pop	Mar 8, 2007	
?	Lupine seed, Soak for 24 hours.	Mar 8, 2007	Enter directions here
	mixed nuts (purchased around	Mar 8, 2007	
	okra, pickled (mild). Aisle 8	Mar 8, 2007	
?	Pea seed, SOAK FOR 24 HOURS.	Mar 8, 2007	
	peanuts--salted in bag. Aisle 7,	Mar 8, 2007	
	pomegranate	Mar 8, 2007	
	raspberries or blackberries--bsk	Mar 8, 2007	
	Seeds: peas, kidney beans, corn radish	Mar 8, 2007	
	Seeds: Barley, Fava, Castor bean,	Mar 8, 2007	FRUITS AND SEEDS
	smoked almonds--can	Mar 8, 2007	
	snow peas--handful	Mar 8, 2007	
	strawberries--bsk	Mar 8, 2007	
	sunflower seeds, salted--bag. Aisle 7	Mar 8, 2007	

Lab 20 Lab Final

Mar 13, 2007

Quantity	Plant Material	Date planted	Days	Directions
	Lab final, no plants requested	Mar 13, 2007		