

PLB 116 Winter 2008

Created by: Doug
Created on: 11/19/2007
Sections:

Lab 1 Review Of Anatomy And Life Cycle

Jan 8, 2008

Quantity	Plant Material	Date planted	Days	Directions
1-7.5" pot	Corn pollen	Nov 23, 2007	46	5 seeds/pot 3pl/pot
1-7.5" pot	Corn pollen	Nov 18, 2007	51	5 seeds/pot 3pl/pot
1-7.5" pot	Corn pollen	Nov 28, 2007	41	5 seeds/pot 3pl/pot
1	Equisetum	Jan 8, 2008		
1	Fern	Jan 8, 2008		
1	Fern	Jan 8, 2008		
	Fern gametophytes. Some with	Jan 8, 2008		
40 seed	Pea seed	Jan 7, 2008	1	Soak in tray of water.
	Pine branch with old cones	Jan 8, 2008		

Lab 2 Charophyta, Bryophytes, Rhyniophyta

Jan 10, 2008

Quantity	Plant Material	Date planted	Days	Directions
	Anthoceros (hornwort)	Jan 10, 2008		
	Chara or Nitella	Jan 10, 2008		
	Coleochaete on slides, started 11/20	Jan 10, 2008		
	Japanese Psilotum with sporangia on	Jan 10, 2008		
	Marchantia w/sporophytes	Nov 29, 2007	42	For student dissection
	Marchantia with Gemmae	Jan 10, 2008		
	Moss w/sporophytes	Jan 10, 2008		For student dissection
	Moss with tiny, upright sporophytes.	Jan 10, 2008		

Lab 3 Lycopodium

Jan 15, 2008

Quantity	Plant Material	Date planted	Days	Directions
	Lycopodium lucidulum	Jan 15, 2008		
	Lycopodium squarrosum	Jan 15, 2008		

Lab 4 Selaginella, Angle Meristem Experiment

Jan 17, 2008

Quantity	Plant Material	Date planted	Days	Directions
9 lg flats	Selaginella hardeiformes (red one)	Jan 17, 2008		
	Selaginella martensii	Aug 30, 2007	140	Propagate if needed.
	Selaginella martensii (2 flats)and	Jan 17, 2008		
	Selaginella pallescens	Jan 17, 2008		
	Selaginella sp.	Jan 17, 2008		
	Selaginella sporelings still attached to	Jan 17, 2008		
	Selaginella uncinata (blue one)	Jan 17, 2008		
	Selaginella viticulosa	Jan 17, 2008		
	Selaginella, many diverse species.	Jan 17, 2008		

Lab 5 Lepidodendrales

Jan 22, 2008

Quantity	Plant Material	Date planted	Days	Directions
	100 plastic petri dishes of washed	Jan 22, 2008		
	40 4" pots, labels, and sunshine mix, liter	Jan 22, 2008		
	5 species of fern spores to sow--	Jan 22, 2008		
	Fern spores for students	Jan 22, 2008		
	Lycopodium, anything available	Jan 22, 2008		
	No living plants	Jan 22, 2008		
	Sow fern spores	Jan 22, 2008		

Lab 6 Isoetes, Mold Cast Technique

Jan 24, 2008

Quantity	Plant Material	Date planted	Days	Directions
	Any small plant for molding	Jan 24, 2008		
	Isoetes	Jan 24, 2008		
	Small plant parts for molding demo:	Jan 24, 2008		

Lab 7 Psilophyta

Jan 29, 2008

Quantity	Plant Material	Date planted	Days	Directions
2 pots	Psilotum & gametophytes	Jan 29, 2008		

Psilotum nudum'Bunryuzan'

Jan 29, 2008

Lab 8 Spenophyta

Jan 31, 2008

Quantity	Plant Material	Date planted	Days	Directions
	Bring in lots of E. diffusum and one in	Jan 31, 2008		
	E. giganteum	Jan 31, 2008		
	E. giganteum B93.314	Jan 31, 2008		
	E. ramosissimum	Jan 31, 2008		
	E. ramosissimum B85.024 small,	Jan 31, 2008		
2	Equisetum	Dec 17, 2007	45	Move to warm long days. Weier is good for this.
2	Equisetum diffusum strobili	Dec 22, 2007	40	Dig up and move into greenhouse.
	Equisetum--all available species and	Jan 31, 2008		

Lab 9 Eusporangiate Ferns

Feb 5, 2008

Quantity	Plant Material	Date planted	Days	Directions
	Angiopteris pinnae	Feb 5, 2008		
	Angiopteris--lg fern in main room	Feb 5, 2008		
	Botrychium	Feb 5, 2008		
	Botrychium--in 2nd fern room B98.084	Feb 5, 2008		
	Danaea	Feb 5, 2008		
	Macroglossum--1st fern room B89.353	Feb 5, 2008		
	Marattia	Feb 5, 2008		
	Marattia fraxinea--2nd fern room	Feb 5, 2008		
	Ophioglossum	Feb 5, 2008		
2	Ophioglossum	Feb 5, 2008		
	Ophioglossum B59.137	Feb 5, 2008		
	Polypodium chunks	Feb 5, 2008		
	Polypodium plant chunks--lg, hanging in	Feb 5, 2008		

Lab 10 Filicales

Feb 7, 2008

Quantity	Plant Material	Date planted	Days	Directions
	Adiantum	Feb 7, 2008		

Asplenium	Feb 7, 2008		
Asplenium, Cionidium	Feb 7, 2008		
Cyrtomium	Feb 7, 2008		
Davallia	Feb 7, 2008		
Davallia--about 10 inches of rhizomes	Feb 7, 2008		
Dennstaedtia	Feb 7, 2008		
Dryopteris	Feb 7, 2008		
Dryopteris, Cyrtomium, Woodwardia w/	Feb 7, 2008		
Fern fronds showing soral and ..	Feb 7, 2008		
Fronds of Polypodium and	Feb 7, 2008		
Lygodium	Feb 7, 2008		
Lygodium, Osmunda, Dennstaedtia,	Feb 7, 2008		
Osmunda	Feb 7, 2008		
Pityrogramma	Dec 9, 2007	60	Move to Weier greenhouse for long warm days.
Platycerium	Feb 7, 2008		
Polypodium portions	Feb 7, 2008		
Rhizomes of Hypolepis (or Polypodium)	Feb 7, 2008		
Rumohra and Cystopteris	Feb 7, 2008		Can use different genera.
Woodwardia	Feb 7, 2008		

Lab 11 Filicales, Marsileales, Salviniiales

Feb 12, 2008

Quantity	Plant Material	Date planted	Days	Directions
	Azolla	Feb 12, 2008		
	Azolla, Marsilea, Pilularia, Regnellidium	Feb 12, 2008		
	fern gametophytes w/ attached	Feb 12, 2008		
30	Fern Gametophytes with sporophytes	Nov 14, 2007	90	Check Oasis blocks for fern Gametophytes
30	Fern Gametophytes without sporophytes	Nov 14, 2007	90	Check Oasis blocks for fern Gametophytes
	Hypolepis rhizomes to section	Feb 12, 2008		
	Marsilea	Feb 12, 2008		
	Marsilea drummondii sporocarps	Feb 12, 2008		
	Pilularia-check 2 weeks ahead to be	Feb 12, 2008		
	Polypodium aureum gametophytes	Feb 12, 2008		

Polypodium dispersum gametophytes Feb 12, 2008

Regnilidium--west of 61. check with Tim Feb 12, 2008

Salvinia--in fern/orchid room and heat Feb 12, 2008

Lab 12 Seed Ferns And Cycads, Cycad Tour

Feb 14, 2008

Quantity	Plant Material	Date planted	Days	Directions
	Bowenia (leaf like) B84.298	Feb 14, 2008		
	Cycad seed	Jul 9, 2007	220	Purchase seed if needed.
	Cycads, various plants/male and female	Feb 14, 2008		
3 - 5" pots	Cycas revoluta seedlings	Oct 17, 2007	120	6 seed/pot
2 - 7.5" pots	Dioon seedlings	Oct 17, 2007	120	6-8 seeds/pot, cover with sand.
	Dioon sp. B90.482	Feb 14, 2008		
	Encephalartos horridus (spikey one)	Feb 14, 2008		
	small Cycas revoluta B89.003	Feb 14, 2008		
	small Zamia	Feb 14, 2008		
	Stangeria B 89.006	Feb 14, 2008		
	Zamia pumila	Feb 14, 2008		

Lab 13 Cycadales And Ginkgo

Feb 19, 2008

Quantity	Plant Material	Date planted	Days	Directions
	Cycad seedlings again	Feb 19, 2008		
	Cycads, seedlings and female cones	Feb 19, 2008		
2	Ginkgo	Dec 31, 2007	50	Move to long days.
	Ginkgo--forced tree and 6or 7 18"	Feb 19, 2008		

Lab 14 Coniferales And Conifer Tour

Feb 21, 2008

Quantity	Plant Material	Date planted	Days	Directions
	any potted conifers available, including	Feb 21, 2008		
	Araucaria	Feb 21, 2008		
	branches, with cones of: Abies	Feb 21, 2008		
	Calocedrus	Feb 21, 2008		
	Cedrus	Feb 21, 2008		

Cupressus	Feb 21, 2008
Juniperus	Feb 21, 2008
lots of 1st and 2nd year cones	Feb 21, 2008
Metasequoia	Feb 21, 2008
Picea	Feb 21, 2008
Pinus coulteri	Feb 21, 2008
Pinus halepensis, 2-3 years of cones.	Feb 21, 2008
Pinus sabiniana	Feb 21, 2008
Pinus torreyana	Feb 21, 2008
Podocarpus, C St bet 5th and 6th	Feb 21, 2008
Pseudotsuga	Feb 21, 2008
Sequoia	Feb 21, 2008
Sequoiadendron	Feb 21, 2008
Taxus	Feb 21, 2008
Thuja, by Mrak	Feb 21, 2008
Torreya, 25 yds west of desert bridge.	Feb 21, 2008

Lab 15 Coniferales

Feb 26, 2008

Quantity	Plant Material	Date planted	Days	Directions
1/4 pound of	Pinyon pine seed	Feb 26, 2008		
3 - 4" pots	Pinyon pine seedlings	Jan 27, 2008	30	5 seed/pot

Lab 16 Gnetophyta And Greenhouse Tour

Feb 28, 2008

Quantity	Plant Material	Date planted	Days	Directions
	Ephedra	Feb 28, 2008		
	Ephedra	Feb 28, 2008		
1	Gnetum	Feb 28, 2008		
1	Gnetum, cones if available	Feb 28, 2008		
1/4 pound of	Pinyon pine seed	Feb 28, 2008		
2 seedlings	Welwitschia seedlings with cotyledons	Dec 15, 2007	75	8 - rose pots pumice w/soil at bottom
	Welwitschia, mature plants, seedlings,	Feb 28, 2008		

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

Mar 4, 2008

Quantity	Plant Material	Date planted	Days	Directions
2 plants	Asclepias curassavica flowers	Mar 4, 2008		Enter directions here
	Clematis flowers	Mar 4, 2008		
2	Impatiens w/pollen--yellow and red	Mar 4, 2008		
2	Impatiens, simple pink flower.	Dec 5, 2007	90	4 cuttings
	Tradescantia	Mar 4, 2008		
	Tradescantia flowers w/pollen	Mar 4, 2008		

Lab 18 Angiosperm Reproduction - Embryo Sac And Embryogeny

Mar 6, 2008

Quantity	Plant Material	Date planted	Days	Directions
2 - 6"pots	Capsella bursa-pastoris	Jan 24, 2008	42	2 - 6" pots, cover w/sand
2 - 6"pots	Capsella bursa-pastoris	Jan 10, 2008	56	2 - 6" pots, cover w/sand
2 - 6"pots	Capsella bursa-pastoris	Feb 7, 2008	28	2 - 6" pots, cover w/sand

Lab 19 Angiosperm Reproduction - Fruit And Seeds

Mar 11, 2008

Quantity	Plant Material	Date planted	Days	Directions
	1 cantaloupe	Mar 11, 2008		
	1 eggplant	Mar 11, 2008		
	1 mango	Mar 11, 2008		
	1 papaya	Mar 11, 2008		
	1 pepper	Mar 11, 2008		
	1 pineapple--but a week early	Mar 11, 2008		
	10 oranges	Mar 11, 2008		
	2 avocados	Mar 11, 2008		
	2 cucumbers	Mar 11, 2008		
	2 nectarine or peach	Mar 11, 2008		
	2 pears	Mar 11, 2008		
	2 plums	Mar 11, 2008		
	4 bananas	Mar 11, 2008		
	4 kiwi	Mar 11, 2008		

20-30 seed	Asclepias sp. seed with dispersal fibers	Mar 11, 2008	
	bag of apples	Mar 11, 2008	
?	Broad bean seed, Soak for 24 hours.	Mar 11, 2008	Enter directions here
	cherry tomatoes--bsk	Mar 11, 2008	
	coconut	Mar 11, 2008	
1	Corn ear	Mar 11, 2008	Purchase at store
?	Cotton seed, Soak for 24 hours.	Mar 11, 2008	Enter directions here
?	Cucumber or melon seed, Soak for 24	Mar 11, 2008	Enter directions here
	dried figs--pkg. Aisle 7	Mar 11, 2008	
	get purchase order not to exceed \$75:	Mar 11, 2008	
	grapes, seeded if possible	Mar 11, 2008	
	green beans--handful	Mar 11, 2008	
	Interesting fruits from Tim & Doug	Mar 11, 2008	FRUITS AND SEEDS
	interesting fruits from Tim:Asclepias, Pop	Mar 11, 2008	
?	Lupine seed, Soak for 24 hours.	Mar 11, 2008	Enter directions here
	mixed nuts (purchased around	Mar 11, 2008	
	okra, pickled (mild). Aisle 8	Mar 11, 2008	
?	Pea seed, SOAK FOR 24 HOURS.	Mar 11, 2008	
	peanuts--salted in bag. Aisle 7,	Mar 11, 2008	
	pomegranate	Mar 11, 2008	
	raspberries or blackberries--bsk	Mar 11, 2008	
	Seeds: peas, kidney beans, corn radish	Mar 11, 2008	
	Seeds: Barley, Fava, Castor bean,	Mar 11, 2008	FRUITS AND SEEDS
	smoked almonds--can	Mar 11, 2008	
	snow peas--handful	Mar 11, 2008	
	strawberries--bsk	Mar 11, 2008	
	sunflower seeds, salted--bag. Aisle 7	Mar 11, 2008	

Lab 20 Lab Final

Mar 13, 2008

Quantity	Plant Material	Date planted	Days	Directions
	Lab final, no plants requested	Mar 13, 2008		