

Spring 2010

Date	Topic	Tasks	Notes
March			
Tu 16	Complementation of the <i>gi5-1</i> mutation	Course overview GA overview/ Discussion Pipette use DNA extraction, part I	
Th 18		DNA extraction, part II TAIR-database PCR lecture	
Tu 23		Primer design PCR Collect transformed seeds, sterilize and plate	(Transformation performed with Sean Weise)
Th 25		Restriction digestion of DNA DNA electrophoresis DNA Ligation	
Tu 30		Transform <i>E. coli</i> Jay: genes in other species Bioinformatics I: expression analysis	
April			
Th 1		Plasmid Minipreps Send for Sequencing Transfer transformed seedlings to soil	
Tu 6		Sequence analysis Bioinformatics II: Blast, sequence comparison	
Th 8	GA regulation of starch degradation	Amylase I Overview Cut and imbibe barley seeds	
Tu 13		Amylase II Protein/enzyme lecture GA dilutions Start seed induction	
Th 15		Amylase III Assay protein Prepare for amylase enzyme assay	
Tu 20		Amylase IV PAGE and western lecture Assay alpha-amylase	
Th 22		Amylase V PAGE and western Discuss amylase activity results	
Tu 27		Amylase VI Develop western blot Analyze and discuss amylase western data	
Th 29		Analyze transformed plants Discussion of results	
May	Fri 7	FINAL	