

2007 Woods Hole Embryology Schedule – version June 11, 2007

(updated June 11, 2007)

Week 1

“average day”

9:00 - 10:30	lecture
10:30 - 11:00	break, quick lab work
11:00 - 12:00	“sweat box” discussion
12:00 - 1:30	lunch
1:30 - 6:00	lab
6:00 - 7:30	dinner
7:30 - ???	lab

Sat, 9 June		6:00 PM meet for dinner, Swope lobby
Sun, 10 June		7:30 PM Reception – 2 nd floor Loeb
Mon, 11 June	Lecture	John Gerhart: Key concepts in developmental biology
	Afternoon Lab	General orientation and MBL tour; Safety orientation; Microscopy I (Andres Collazo)
	Chalk Talk	Andres Collazo – microscopy; Nipam: camera software
	Evening Lab	Toolmaking (Henry and Martindale); Microscopy II
Tues, 12 June	Lecture	Nicole King: Animal origins
	Afternoon Lab	Choanoflagellates & sponges 1
	Chalk Talk	
	Evening Lab	Choanoflagellates & sponges 2
Wed, 13 June	Lecture	Mark Martindale: Cnidarians and Ctenophores
	Afternoon Lab	Cnidaria 1+ Intro to injections (can be moved to morning if needed)
	Chalk Talk	
	Evening Lab	Cnidaria 2
Thurs, 14 June	Lecture	Eric Wieschaus: Early embryo patterning in Drosophila
	Afternoon Lab	Flies 1
	Chalk Talk	
	Evening Lab	Flies 2
Fri, 15 June	Lecture	Rolf Bodmer: Drosophila heart formation
	Afternoon Lab	Flies 3
	Chalk Talk	MBL lecture
	Evening Lab	Flies 4
Sat, 16 June	Lecture	Denise Montell: Maternal and Ovarian Patterning
	Afternoon Lab	Arthropods 1
	Chalk Talk	
	Evening Lab	Arthropods 2

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Week 2

Sun, 17 June	Morning	All Courses Student Brunch (9:30am) & Student Choice
	Afternoon Sports	Ultimate frisbee & softball
	Evening	Group Dinner
Mon, 18 June	Lecture	Nipam Patel: The Evolution of Arthropod Body Patterning
	Afternoon Lab	Flies 5
	Chalk Talk	Cassandra Extavour: germline development
	Evening Lab	Flies 6
Tues, 19 June	Lecture	Nipam Patel: Butterfly wing patterning
	Afternoon Lab	Arthropods 3
	Chalk Talk	
	Evening Lab	Arthropods 4
Wed, 20 June	Lecture	Mike Levine: Thresholds and gene activation
	Afternoon Lab	Arthropods 5
	Chalk Talk	
	Evening Lab	Arthropods 6
Thurs, 21 June	Lecture	Joel Rothman: Cell lineage and Mechanisms of Cell Autonomous specification in <i>C. elegans</i>
	Afternoon Lab	<i>C. elegans</i> 1
	Chalk Talk	Pradeep Joshi: cell invasion and germline development in <i>C. elegans</i>
	Evening Lab	<i>C. elegans</i> 2
Fri, 22 June	Lecture	Joel Rothman: Regulative Development in the <i>C. elegans</i> embryo
	Afternoon Lab	<i>C. elegans</i> 3
	Chalk Talk	MBL lecture
	Evening Lab	<i>C. elegans</i> 4
Sat, 23 June	Lecture	Amy and Paul Maddox: Cell biology of <i>C. elegans</i> embryo
	Afternoon Lab	<i>C. elegans</i> 5
	Evening	Show and tell

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Week 3

Sun, 24 June	Morning	Student Choice
	Afternoon	Softball & Excursion to Falmouth
	Evening	Student Group Dinner in Falmouth International Student Dinner by MBL
Mon, 25 June	Lecture	Marie-Anne Felix: Variation and evolution of nematode development
	Afternoon Lab	C. elegans 6
	Chalk Talk	
	Evening Lab	C. elegans 7
Tues, 26 June	Lecture	Jon Henry: Spiralian development and larval life history strategies
	Afternoon Lab	Zoo: Cerebratulus
	Chalk Talk	David Lambert: Molluscs
	Evening Lab	Molluscs 1
Wed, 27 June	Lecture	David McClay: Sea urchin development
	Afternoon Lab	Sea Urchin 1
	Chalk Talk	Dan Rokhsar – genome analysis
	Evening Lab	Molluscs 2
Thurs, 28 June	Lecture	Max Telford: A short course in molecular phylogeny
	Afternoon Lab	Phylogenetic and genomic analysis
	Chalk Talk	Gene regulatory networks – Titus Brown and Paola Oliveri
	Evening Lab	Sea urchin 2
Fri, 29 June	Lecture	Richard Harland: Signaling in Amphibian development
	Afternoon Lab	Frog lab 1
	Chalk Talk	MBL lecture:
	Evening Lab	Frog lab 2 Ray Keller Chalk talk & Demo
Sat, 30 June	Lecture	Richard Harland II
	Afternoon Lab	Frog lab 3
	Evening	Frog lab 4

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Week 4

Sun, 1 July	Morning & Afternoon	Student Choice
	Evening	Party with Physiology Course
Mon, 2 July	Lecture	Sharon Amacher: Genetic approaches in zebrafish to explore early embryogenesis
	Afternoon Lab	Frog lab 5
	Chalk Talk	Andres Collazo: ear development
	Evening Lab	Frog lab 6
Tues, 3 July	Lab	Fish lab 1 (9-noon)
	Afternoon Lecture	Debbie Yelon: Heart formation in zebrafish: combining patterning and morphogenesis
	Chalk Talk	
	Afternoon/Evening Lab	Fish lab 2 (3:30-eve)
Wed. 4 July		July 4 th Parade and Party MBL cookout
Thurs, 5 July	Morning lab	Fish lab 3 (9-noon)
	Afternoon Lecture	Olivier Pourquie: Vertebrate segmentation
	Chalk Talk	
	Afternoon/Evening Lab	Fish lab 4 (3:30-eve)
Fri, 6 July	Morning lab	Fish lab 5 (9-noon)
	Afternoon Lecture	Scott Fraser: “You can observe a lot by watching”
	Chalk Talk	MBL lecture
	Afternoon/Evening Lab	Fish lab 6 (3:30-eve)
Sat, 7 July	Morning lab	Fish lab 7 (9-noon)
	Afternoon lecture	Marianne Bronner-Fraser: Formation, Migration and Evolution of Neural Crest; Neural Patterning
	Evening	Show and tell

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Week 5

Sun, 8 July	Morning & Afternoon	Student choice
	Evening	Group Dinner: Student Created Fiesta
Mon, 9 July	Lecture	Josh Sanes: Wiring up the nervous system
	Afternoon Lab	Lab 1 Chick
	Chalk Talk	Cathy Krull: Neuromuscular system
	Evening Lab	Lab 2 Chick
Tues, 10 July	Lecture	Lee Niswander: Limb development
	Afternoon Lab	Lab 3 Chick
	Chalk Talk	Clare Baker: placodes
	Evening Lab	Lab 4 Mouse
Wed, 11 July	Lecture	Richard Behringer: Mouse Genetics/Technology
	Afternoon Lab	Lab 5 Chick (with mouse available)
	Chalk Talk	
	Evening Lab	Lab 6 Mouse (with chick available)
Thurs, 12 July	Lecture	Paul Trainor: Face to Face: patterning and plasticity in craniofacial development, disease and evolution
	Afternoon Lab	Lab 7 Chick (with mouse available)
	Chalk Talk	Lee Niswander– forward genetics in mouse, neural closure and locomotion
	Evening Lab	Lab 8 Chick/mouse
Fri, 13 July	Lecture	Mike Levin: Left-Right Asymmetry
	Afternoon Lab	Lab 9 Chick/mouse
	Chalk Talk	MBL lecture
	Evening Lab	Lab 10 Chick/mouse
Sat, 14 July	Lecture	Richard Behringer: Marsupials
	Afternoon Lab	Lab 11 Chick/mouse
	Chalk Talk	Lisa Sandell; Kristin Melton 30”
	Evening Lab	Lab 12 Chick/mouse + Zoo lab

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Week 6

Sun, 15 July		Whale watching?
Mon, 16 July	Lecture	Lori Sussel: Pancreas development
	Afternoon Lab	Zoo of bat, marsupial, corn snake, dragon lizard Chick/mouse
	Chalk Talk	
	Evening Lab	Finish up all vertebrates
Tues, 17 July	Morning Lab	Ctenophore lab
	Afternoon Lecture	Bob Zeller: Ascidian Embryogenesis : Notochord and Nervous System Development
	Chalk Talk	
	Evening Lab	Ascidians 1
Wed, 18 July	Lecture	Eric Wieschaus – Katsuma Dan lecture
	Afternoon Lab	Ascidians 2
	Chalk Talk	
	Evening Lab	Annelids 1
Thurs, 19 July	Morning Lecture	Elaine Seaver - Annelids
	Afternoon Lab	Ascidians 3
	Chalk Talk	
	Evening Lab	Annelids 2
Fri, 20 July	Morning/Lecture	Alejandro Sánchez Alvarado: Embryogenesis, Regeneration and Stem Cells in the planarian <i>Schmidtea mediterranea</i>
	Afternoon Lab	Planaria
	Chalk Talk	MBL lecture
	Evening Lab	Planaria
Sat, 21 July	Morning/Lecture	Course review
	Afternoon Lab	Show and tell
	Evening	End of Course Party
Sun, 22 July		Departure