

2011 Woods Hole Embryology Schedule – Updated June 1, 2011

Week 1

Sat, 4 June	6:30 PM meet in Swope lobby; grab dinner at local eatery	
Sun, 5 June	9:30 AM All Courses Student Brunch at Swope Center 7:00 PM Reception & dinner – 2 <sup>nd</sup> floor Loeb Bring your posters	
Mon, 6 June	Morning Lecture	[ <b>Lee Niswander</b> ] 1. Key concepts in developmental biology [ <b>Nipam Patel</b> ] 2. Animal evolution and the comparative tradition of developmental biology
	Afternoon Intro	General orientation and MBL tour; Safety orientation
	Afternoon Lab	[ <b>Paul Maddox</b> ] Microscopy
	Evening Lab	[ <b>Jon Henry</b> ] Toolmaking [ <b>Nipam Patel, Andres Collazo</b> ] Image acquisition
Tues, 7 June	Morning Lecture	[ <b>Nicole King</b> ] Animal origins
	Afternoon Lab	Choanos & sponges
	Chalk Talk	
	Evening Lab	Choanos & sponges + Intro to injections and confocal microscopes
Wed, 8 June	Morning Lecture	[ <b>Uli Technau</b> ] Cnidarians
	Afternoon Lab	Cnidaria (Intro to injections continued)
	Evening Lab	Cnidaria (Intro to confocals continued)
Thurs, 9 June	Lecture	[ <b>Joel Rothman</b> ] <i>C. elegans</i>
	Afternoon Lab	<i>C. elegans</i>
	Chalk Talk	
	Evening Lab	<i>C. elegans</i>
Fri, 10 June	Lecture	[ <b>Dave Sherwood</b> ] <i>C. elegans</i> cell migration
	Afternoon Lab	<i>C. elegans</i>
	Evening Lab	<i>C. elegans</i> & Image processing I
Sat, 11 June	Lecture	[ <b>David Fitch</b> ] Nematode evolution
	Afternoon Lab	<i>C. elegans</i>
	Evening Lab	<i>C. elegans</i>

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Week 2

Sun, 12 June	Morning	Student Choice
	Afternoon	Scavenger Hunt
	Evening	Group Dinner
Mon, 13 June	Lecture	[ <b>Abby Gerhold, Melanie Worley, Nipam Patel</b> ] <i>Drosophila</i> embryogenesis
	Afternoon Lab	Flies/Arthropods
	Evening Lab	Flies/Arthropods
Tues, 14 June	Lecture	[ <b>Lynn Cooley</b> ] <i>Drosophila</i> oogenesis
	Afternoon Lab	Flies/Arthropods
	Chalk Talk	Image Processing II
	Evening Lab	Flies/Arthropods
Wed, 15 June	Lecture	[ <b>Nipam Patel</b> ] Arthropod Development
	Afternoon Lab	Flies/Arthropods (plankton tow/collecting from the dock)
	Evening Lab	Flies/Arthropods
Thurs, 16 June	Lecture	[ <b>Matt Ronshaugen</b> ] Regulatory RNAs
	Afternoon Lab	Flies/Arthropods
	Chalk Talk	
	Evening Lab	Flies / Arthropods
Fri, 17 June	Lecture	[ <b>Iswar Hariharan</b> ] <i>Drosophila</i> imaginal disc development
	Afternoon Lab	Flies/Arthropods
	MBL lecture	Iswar Hariharan - Growth, Death and Regeneration: Genetic studies in the fruit fly <i>Drosophila melanogaster</i>
	Evening Lab	Flies/Arthropods
Sat, 18 June	Lecture	[ <b>Nipam Patel</b> ] Lepidopteran Wing Patterning
	Afternoon Lab	Flies/Arthropods
	Evening	Show 'N Tell 1

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Week 3

Sun, 19 June	Student Choice	
Mon, 20 June	Morning Lecture	[ <b>Richard Harland</b> ] <i>Xenopus leavis</i>
	Afternoon Lab	Frog
	Evening Lab	Frog
Tues, 21 June	Morning Lab	Fish
	Afternoon Lecture	[ <b>Ray Keller</b> ] <i>Xenopus</i> gastrulation
	Chalk Talk	[ <b>Andres Collazo</b> ] Ear development
	Evening Lab	Frog
Wed, 22 June	Morning Lab	Fish
	Afternoon Lecture	[ <b>Sharon Amacher</b> ] Zebrafish
	Evening Lab	Frog lab
Thurs, 23 June	Morning Lab	Frog/Fish
	Afternoon Lecture	[ <b>Scott Fraser</b> ] Quantitative analysis of cell movement
	Chalk Talk	[ <b>Tatjana Piotrowski</b> ] Zebrafish
	Evening Lab	Quantitative analysis lab
Fri, 24 June	Morning Lab	Frog/Fish
	Afternoon Lecture	[ <b>Bruce Appel</b> ] Zebrafish neural development
	MBL lecture	Roberto Kolter - A Microbial Perspective of Life on Earth
	Evening Lab	Frog/Fish + quantitative analysis
Sat, 25 June	Morning Lecture	[ <b>Mark Martindale</b> ] Ctenophore
	Afternoon Lecture	[ <b>Mike Shapiro</b> ] Sticklebacks
	Evening Lab	Ctenophore / Frog/ Fish

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Week 4

Sun, 26 June	Whale watching trip in Provincetown	
Mon, 27 June	Lecture	[ <b>Clare Baker</b> ] Chick neural crest
	Afternoon Lab	Chick
	Dinner Discussion	Ethics Workshop: Ethical Conduct of Research
	Evening Lab	Chick
Tues, 28 June	Lecture	[ <b>Richard Behringer</b> ] Mouse Genetics
	Afternoon Lab	Chick
	Chalk Talk	
	Evening Lab	Mouse
Wed, 29 June	Lecture	[ <b>Paul Trainor</b> ] Mouse Development and Disease Models
	Afternoon Lab	Mouse
	Evening Lab	Chick/mouse (+bat, snake, lizard)
Thurs, 30 June	Morning lecture	[ <b>Lee Niswander</b> ] Limb Development
	Afternoon lab	Chick/mouse
	Chalk Talk	
	Evening Lab	Chick/mouse
Fri, 1 July	Lecture	[ <b>Lori Sussel</b> ] Pancreas
	Afternoon Lab	Chick/mouse
	MBL lecture	Michael Rossner - What's in a Picture? The Temptation of Image Manipulation
	Evening lab	Chick/mouse
Sat, 2 July	Morning lecture	[ <b>Lee Niswander</b> ] Branching morphogenesis
	Afternoon lab	Chick/mouse
	Evening	Show 'N Tell 2

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Week 5

Sun, 3 July	Student Choice	
Mon, 4 July	Morning	
	Afternoon	Parade
	Evening	Fireworks
Tues, 5 July	Morning Lecture	[ <b>Alejandro Sanchez Alvarado</b> ] Planaria
	Afternoon Lab	Planaria (start cutting for regeneration)
	Chalk Talk	
	Evening Lab	Planaria
Wed, 6 July	Morning Lecture	[ <b>Athula Wikramanayake</b> ] Sea urchin development I
	Afternoon Lab	Sea urchin
	Evening Lab	Sea urchin
Thurs, 7 July	Morning Lecture	[ <b>Dave McClay</b> ] Sea urchin development II
	Afternoon Lab	Sea urchin
	Chalk Talk	
	Evening Lab	Sea urchin
Fri, 8 July	Morning Lecture	[ <b>Jon Henry</b> ] Spiralian
	Afternoon lab	Crepidula/Cerebratulus/Squid
	MBL lecture	Alfredo Quiñones-Hinojosa - Bridging the Gap in the Fight Against Cancer: From the Operating Room to the Laboratory
	Evening Lab	Crepidula/Cerebratulus/Squid
Sat, 9 July	Morning Lecture	[ <b>Janet Rossant</b> ] Embryonic Stem Cells
	Afternoon Lab	Sea urchin / Planaria / Crepidula/Cerebratulus/Squid
	Evening Lab	Sea urchin / Planaria / Crepidula/Cerebratulus/Squid

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Week 6

Sun, 10 July	Evening Group Dinner: Student Created Fiesta del Mundo	
Mon, 11 July	Morning Lecture	[ <b>Bob Zeller</b> ] Notochord and Nervous System Development in Ascidians
	Afternoon Lab	Ascidian
	Evening Lab	Ascidian
Tues, 12 July	Morning Lecture	[ <b>Elaine Seaver</b> ] Annelids
	Afternoon Lab	Annelids
	Chalk Talk	
	Evening Lab	Annelids / Ascidians (possible night lighting 12th or 13th)
Wed, 13 July	Lecture	[ <b>Terry Magnuson</b> ] Epigenetic Regulation
	Afternoon Lab	Ascidians / Annelids
	Chalk Talk	
	Evening Lab	Annelids
Thurs, 14 July	Lecture	[ <b>Shinya Inoué</b> (Jean and Katusma Dan Lecture), <b>Jennifer Zallen, Gary Borisy, Ted Salmon, Dave McClay</b> ] MBL Symposium; <u>Lillie Auditorium</u>
	Afternoon Lab	Planaria / Annelids / Ascidians [Jen Zallen discussion]
	Chalk Talk	
	Evening Lab	Planaria / Annelids / Ascidians
Fri, 15 July	Lecture	[ <b>Dan Rokhsar</b> ] Genomes
	Afternoon lab	Planaria / Annelids / Ascidians
	MBL lecture	Russell D. Fernald - How Does Social Status Influence the Brain?
	Evening Lab	Complete experiments/Lab cleanup
Sat, 16 July	Morning	Course Review
	Afternoon	Show N' Tell 3
	Evening	Party
Sun, 17 July	Departure	