

2009 Zebrafish Development and Genetics Course Schedule

August 08, 2009

Saturday

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|--------------------|---|
| 6:30 PM - 7:00 PM | Welcome: Chi-Bin and Dave |
| 7:00 PM - 9:00 PM | Lecture: Chuck Kimmel, Overview of zebrafish development and genetics |
| 9:00 PM - 11:00 PM | Poster Session and beer |

August 09, 2009

Sunday

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| All Day | Road Race |
| 8:30 AM - 9:00 AM | Pit Talk: Chuck Kimmel |
| 9:00 AM - 12:00 PM | Lab: Chuck Kimmel, looking at early development **Time-lapse imaging, Andres Collazo** |
| 12:00 PM - 1:00 PM | Lunch |
| 1:00 PM - 4:00 PM | Lab: Chuck Kimmel, looking at early development continued |
| 4:00 PM - 5:30 PM | Pit Talk: Rudi Rottenfusser, introduction to microscopy |
| 5:30 PM - 7:00 PM | Dinner |
| 7:00 PM - 8:00 PM | Research Lecture: Will Talbot |
| 8:00 PM - 9:00 PM | Research Lecture: Chuck Kimmel |

August 10, 2009

Monday

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| 8:30 AM - 12:30 PM | Pit talk and lab: Charline Walker, in vitro fertilization, haploids, EP, sperm freezing |
| 12:30 PM - 1:30 PM | Lunch |
| 1:30 PM - 2:30 PM | Pit Talk: Will Talbot, genetic mapping |
| 2:30 PM - 5:00 PM | Lab: Will Talbot, genetic mapping I: bulk segregant analysis |
| 5:00 PM - 6:00 PM | Review Lecture: Mary Mullins, Developmental genetics terminology |
| 6:00 PM - 7:00 PM | Dinner |

2009 Zebrafish Development and Genetics Course Schedule

August 10, 2009 Continued

Monday

7:00 PM - 8:00 PM Research Lecture: Cecilia Moens

8:00 PM - 9:00 PM Research Lecture: Mary Mullins

August 11, 2009

Tuesday

8:30 AM - 12:00 PM Pit talk and lab: Mary Mullins, mRNA overexpression/rescue

12:00 PM - 1:00 PM Lunch

1:00 PM - 2:30 PM Pit Talk: Ian Woods, genomics and web resources

2:30 PM - 4:15 PM Bioinformatics lab: Will Talbot and Ian Woods

4:15 PM - 5:30 PM Review lecture: Dave Raible, Comparative Neuroanatomy

5:30 PM - 6:30 PM Dinner

6:30 PM - 8:00 PM Round Table: Chi-Bin Chien and Dave Raible, transgenesis

8:00 PM - 9:00 PM Wrap-up: Mary Mullins and Charline Walker

August 12, 2009

Wednesday

8:30 AM - 9:00 AM Pit Talk: Mary Mullins, morpholino injections

9:00 AM - 11:15 AM Lab: Mary Mullins, morpholino and DNA injections

11:15 AM - 12:00 PM Pit Talk: Cecilia Moens, Michael Granato, chimeric analysis

12:00 PM - 1:00 PM Lunch

1:00 PM - 5:00 PM Lab: Chimeric analysis: Cecilia Moens, gastrula transplants; Michael Granato, Jim Fadool, Chi-Bin Chien blastula transplants

5:00 PM - 6:00 PM Review lecture: Steve Wilson, CNS induction & patterning

6:00 PM - 7:00 PM Dinner

2009 Zebrafish Development and Genetics Course Schedule

August 12, 2009 Continued

Wednesday

7:00 PM - 8:00 PM **Research Lecture: Corinne Houart**

8:00 PM - 9:00 PM **Wrap-up: Mary Mullins**

August 13, 2009

Thursday

8:30 AM - 9:00 AM **Pit Talk: Steve Wilson and Corinne Houart, Ab and in situ staining**

9:00 AM - 12:00 PM **Imaging: Andres Collazo, Small group 30 minute microscope practical**

9:00 AM - 12:00 PM **Lab: Steve Wilson, Ab and in situ staining**

12:00 PM - 1:00 PM **Lunch**

1:00 PM - 4:00 PM **Lab: Steve Wilson, Ab and in situ staining, cont'd**

2:30 PM - 4:00 PM **Imaging: Andres Collazo, Dave, Corinne, Cecilia, microscope practical/imaging**

4:00 PM - 6:00 PM **Wrap-up and Imaging: Cecila Moens, Michael Granato, Jim Fadool**

6:00 PM - 7:00 PM **Dinner**

7:00 PM - 8:00 PM **Research Lecture: Dave Raible**

8:00 PM - 9:00 PM **Research Lecture: Andres Collazo**

August 14, 2009

Friday

8:45 AM - 12:00 PM **Lab: Steve Wilson, Ab and in situ staining, cont'd**

9:30 AM - 12:00 PM **Imaging: Andres Collazo, Dave, Corinne, Cecilia, microscope practical/imaging**

12:00 PM - 1:00 PM **Lunch**

1:00 PM - 4:00 PM **Imaging: Steve, Ab and in situ staining**

2:00 PM - 4:00 PM **Imaging: Andres Collazo**

4:00 PM - 5:30 PM **Wrap-up: Steve Wilson, Ab and in situ staining analysis**

2009 Zebrafish Development and Genetics Course Schedule

August 14, 2009 Continued

Friday

5:30 PM - 7:00 PM	Dinner
7:00 PM - 8:00 PM	Research Lecture: Alex Schier
8:00 PM - 9:00 PM	Research Lecture: Chi-Bin Chien

August 15, 2009

Saturday

8:30 AM - 12:00 PM	Demo: Dave Raible and Corinne Houart, transplanting single cells; Alex Schier, kaede and brainbow
10:00 AM - 12:00 PM	Field trip to MRC: Caitlin and April, sexing, breeding behavior
12:00 PM - 1:00 PM	Lunch
1:00 PM - 5:30 PM	Lab: Dave Raible and Corinne Houart, transplanting single cells; Alex Schier, kaede uncaging for fate mapping and cell movement analysis
5:30 PM - 9:00 PM	Evening Free
6:00 PM - 9:00 PM	Staff BBQ

August 16, 2009

Sunday

8:00 AM - 9:00 AM	Find breakfast in Woods Hole
9:00 AM - 11:00 AM	Wrap-up and imaging: Dave Raible, Alex Schier, and Corinne Houart
11:00 AM - 1:00 PM	Find lunch in Woods Hole
1:00 PM - 5:30 PM	Free Time Student/Staff Athletic Challenge
5:30 PM - 8:15 PM	Course BBQ

August 17, 2009

Monday

9:00 AM - 11:00 AM	Lab: Mary Mullins, adult dissection
11:00 AM - 12:00 PM	Pit Talk: Randy Peterson, Introduction to chemical genetics

2009 Zebrafish Development and Genetics Course Schedule

August 17, 2009 Continued

Monday

12:00 PM - 1:00 PM	Lunch
1:00 PM - 4:00 PM	Lab: Randy Peterson
4:00 PM - 6:00 PM	Round Table: Mary Mullins, Nathan Lawson and Cecilia Moens, Mutagenesis, screens, and reverse genetics
6:00 PM - 7:00 PM	Dinner
7:00 PM - 8:00 PM	Research Lecture: Nathan Lawson
8:00 PM - 9:00 PM	Research Lecture: Randy Peterson

August 18, 2009

Tuesday

9:00 AM - 10:00 AM	Pit Talk: Jon Clarke, Chi-Bin Chien, and Renee Bend, Axon and neuronal labelling
10:00 AM - 12:00 PM	Lab: Chi-Bin Chien and Renee Bend, whole-eye fills
12:00 PM - 1:00 PM	Lunch
1:00 PM - 4:00 PM	Lab: Jon Clarke, reticulospinal backfills
4:00 PM - 6:00 PM	Wrap-up 1: Randy Peterson
6:00 PM - 7:00 PM	Dinner
7:00 PM - 8:00 PM	Research Lecture: Jon Clarke
8:00 PM - 9:00 PM	Research Lecture: Jim Fadool

August 19, 2009

Wednesday

8:30 AM - 11:00 AM	Imaging: whole-eye fills and reticulospinal fills
11:00 AM - 12:00 PM	Wrap-up: Jon Clarke and Chi-Bin Chien
12:00 PM - 1:00 PM	Lunch

2009 Zebrafish Development and Genetics Course Schedule

August 19, 2009 Continued

Wednesday

1:00 PM - 2:00 PM	Pit Talk: Jon Clarke and Chi-Bin Chien, focal electroporation, local heat-shock, time-lapse imaging
2:00 PM - 5:30 PM	Demo: Jon Clarke, and Chi-Bin Chien, focal electroporation, and local heat-shock
5:30 PM - 7:00 PM	Dinner
7:00 PM - 8:00 PM	Research Lecture: Joe Fetcho
8:00 PM - 9:00 PM	Research Lecture: Michael Granato

August 20, 2009

Thursday

9:00 AM - 10:00 AM	Pit Talk: Michael Granato and Joe Fetcho, Axon guidance and neural circuit formation
10:00 AM - 12:00 PM	Lab: Michael Granato and Joe Fetcho, circuits and behavior
12:00 PM - 1:00 PM	Lunch
1:00 PM - 4:00 PM	Lab: Michael Granato and Joe Fetcho, circuits and behavior
4:00 PM - 5:30 PM	Round Table: Zebrafish husbandry maintaining a zebrafish facility, breeding and raising zebrafish
5:30 PM - 7:00 PM	Dinner
7:00 PM - 8:00 PM	Research Lecture: John Dowling
8:00 PM - 9:00 PM	Research Lecture: Stephan Neuhauss

August 21, 2009

Friday

9:00 AM - 10:00 AM	Pit Talk: Jim Fadool and Stephan Neuhauss, Introduction to eye development and behavioral testing
10:00 AM - 12:00 PM	Lab: Jim Fadool and Stephan Neuhauss, Embedding, sectioning, histological analysis
12:00 PM - 1:00 PM	Lunch
1:00 PM - 4:00 PM	Lab: Jim Fadool, Stephan Neuhauss, and John Dowling, visual behavior
4:00 PM - 5:30 PM	Field Trip: Bill Mebane and Alan Kuzirian, MRC tour

2009 Zebrafish Development and Genetics Course Schedule

August 21, 2009 Continued

Friday

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| 5:45 PM - 6:30 PM | Reception: Sponsored by Aquatic Habitats |
| 6:30 PM - 8:00 PM | Banquet |
| 8:00 PM - 9:00 PM | Sager Lecture |
| 9:00 PM - 10:00 PM | Sager lecturer discussion w/ students |

August 22, 2009

Saturday

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| 10:00 AM - 11:30 AM | Course Wrap-up and Diplomas: Chi-Bin Chien and Dave Raible |
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