

## Plunge into Developmental biology (Bfms IV)

11.3.2008 –29.4. 2008

Recommended literature: J. Slack: Essential developmental biology (Blackwell Science, 2<sup>nd</sup> ed. 2005)

Lectures in Biomedicum (Bm) Haartmaninkatu 8, Meilahti or in Biocenter 2, Viikinkaari 5, Viikki.

Mouse dissection demonstration and lab visits in Biomedicum, plant house visit in Viikki.

Exam will be on-line in Web-CT (Blackboard).

Week 11	Introduction
Tue 11.3.	9.15-11 Introduction to the course Bm SH3 Differentiation and growth, <i>Tiina Immonen</i> Bm SH3
Week 12	Basic concepts
Mon 17.3.	9.15-11 Regulatory mechanisms <i>Tiina Immonen</i> Bm SH3
Tue 18.3.	9.15-11 About evolution and development <i>Hannu Sariola</i> Bm SH3
Wed 19.3.	9.15-11 Stem cells and potentials, <i>Timo Tuuri</i> Bm SH3
Week 13	Embryonic development I
Tue 25.3.	9.15-11 Gastrulation, <i>Kirsi Sainio</i> Bm Ls 2
Wed 26.3.	9.15-11 Development of ectodermal organs, <i>Kirsi Sainio</i> Bm SH3
Week 14	Embryonic development II
Tue 1.4.	9.15-11 Development of mesodermal organs, <i>Kirsi Sainio</i> Bm SH3
Wed 2.4.	9.15-11 Development of endodermal organs, <i>Kirsi Sainio</i> Bm Ls3
Week 15	Tissue stem cells and plant development
Mon 7.4.	9.15-10 Tooth stem cells, <i>Mark Tummers</i> Bm SH1-2
Wed 9.4.	9.15-11 Flowers: <i>Gerbera hybrida</i> , <i>Teemu Teeri</i> Biocenter 2, Is 1015 <u>11-12 A guided tour to the plant houses</u>
Week 16	Model organisms I: mouse
Tue 15.4.	9.15-12 Mouse as a model <i>Marja Mikkola</i> SH3
Wed 16.4.	<u>8-12 Mouse dissection demonstration</u> <i>Kirsi Sainio</i> Bm BP20
Week 17	Model organisms II
Mon 21.4.	9.15 -10 Zebrafish, <i>Nina Perälä</i> Bm Ls3 10.15 -11 C. elegans, <i>Carina Holmberg-Still</i> Bm Ls3  <u>11-12 Guided tours to zebrafish and C. elegans facilities</u>
Wed 23.4.	9.15-11 The experimental toolbox of a developmentalist <i>Madis Jakobson</i> SH1-2 Closing of the course

EXAM (in Blackboard) on Tuesday 29.4.2008.