

Advanced Molecular Cell Biology

KSOP Elective Course in Research Area III (Biomedical Photonics)

Regular Date: Every Monday, 10:00 am – 12:15 pm
First Meeting: Nov 4th, 2013
Location: Zoological Institute, Karlsruhe, Haid-und-Neustraße 9 (MRI)
Seminar Room 2O1 025

The class will be held as a seminar. We will use the textbook Lodish, H. et al., Molecular Cell Biology, 7th edition, Freeman/Macmillan, New York 2013. (If you don't get the 7th edition, the 6th edition from 2008 will do). Please bring your textbook copy to the class. We won't use a projector. **Every participant is required to read** the relevant chapters **in advance** and has to be prepared to explain some of the figures of the corresponding chapter to their fellow students. You will be notified in advance by email, which exact paragraphs we will talk about and which exact figures you should look at in more detail, because you are expected to present them. The following schedule gives an overview on the topics to be touched. More detailed instructions for your preparation will be provided on a session-to-session basis.

Date	Topic
Nov 4 th , 2013	Genome structure, replication and repair
Nov 18 th , 2013	Transcriptome regulation
Nov 25 th , 2013	Proteome regulation and analysis
Dec 2 nd , 2013	Actin and cell migration
Dec 9 th , 2013	Microtubules and vesicular traffic
Dec 16 th , 2013 (TA)	Cell division
Jan 13 th , 2014	Integrating cells into tissues
Jan 20 th , 2014 (TA)	Stem cells
Jan 27 th , 2013	Cancer
Feb 3 rd , 2013	Immunology

Karlsruhe, Nov 5th, 2013

Dr. Franco Weth (franco.weth@kit.edu), Dr. Tatjana Autenrieth (tatjana.autenrieth@kit.edu)