

Module 3	Part I: Advanced Cell Biology II Lectures and Seminar, SoSe 2017
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Monday: 16:15-18:00, Wednesday, 09:15-11:00

Venue: Biologicum, Campus Riedberg, Seminar Room 1

Date	Literature	Lecturer	Topic
Wed, 19.04.17 <i>Lecture 1</i>	Alberts, Chapter 16	Schliwa	Cytoplasmic Organization
Mo, 24.04.17 <i>Lecture 2</i>	Alberts, Chapter 16	Schliwa	Molecular Motors
Wed, 26.04.17 <i>Lecture 3</i>	Alberts, Chapter 16	Schliwa 11:00-12:00	Transport and Motility <i>Current Concepts Presentations</i>
Mo, 01.05.17			1. Mai / No Lecture
Wed, 03.05.17 <i>Lecture 4</i>	Alberts Chapter 19	Schliwa 11:00-12:00	Cell Adhesion and ECM <i>Current Concepts Presentations</i>
Mo, 08.05.17 <i>Lecture 5</i>	Alberts Chapter 17	Schliwa	Lecture: Cell Cycle and Division
Wed, 10.05.17		Schliwa	<i>Current Concepts Presentations</i>
Mo, 15.05.17 <i>Lecture 6</i>	Alberts Chapter 6	Müller-McNicoll	From RNA to Protein
Wed, 17.05.17 <i>Lecture 7</i>	Alberts Chapter 6	Müller-McNicoll	Nuclear Architecture and Splicing Regulations
Mo, 22.05.17 <i>Lecture 8</i>	Alberts Chapter 6	Müller-McNicoll	Translation, Protein Synthesis and Regulation
Wed 24.05.17 <i>Seminar 1</i>		Müller-McNicoll	<i>Seminar</i>
Mo, 29.05.17 <i>Lecture 9</i>	Alberts Chapter 5	Eimer	Homologous and Site-Specific Recombination: Mechanisms and Applications
Wed, 31.05.17 <i>Lecture 10</i>	Alberts Chapter 5	Eimer	Genome Evolution: Messy Biology and the Origin of Evolutionary Innovations by Recombination
Mo, 05.06.17			Pfingstmontag

Wed 07.06.17 <i>Lecture 11</i>		Eimer	Cellular Compartments and Logistics
07.06.17	11.15-12.00	Lecaudey Pampaloni	Introduction: Molecular Basics in Vertebrate Genetics
Mo, 12.06.17 <i>Seminar 2</i>		Eimer	Seminar to: Cellular Compartments and Logistics
Wed, 14.06.17 <i>Lecture 12</i>		Eimer	Cellular Stress Responses and Homeostasis
Mo 19.06.17 <i>Lecture 13</i>		Eimer	Cellular Homeostasis, Aging and Disease
Wed, 21.06.17 <i>Seminar 3</i>		Eimer	Seminar to: Cellular Homeostasis, Aging and Disease
Mo 26.06.17 <i>Lecture 14</i>	Alberts Chapter 10	Volknandt	Membrane Structure -Cell membrane and proteins
Wed 28.06.17, <i>Lecture 15</i>	Alberts Chapter 11	Volknandt	Membrane Transport of Small Molecules and Electrical Properties of Membranes -Cell membrane, - Membrane transport
Mo, 03.07.17 <i>Lecture 16</i>	Alberts Chapter 13	Volknandt	Intracellular Vesicular Traffic -Endocytosis, -Exocytosis
Wed, 05.07.17 <i>Seminar 4</i>		Volknandt	Seminar
Mo, 10.07.17 <i>Seminar 5</i>		Volknandt	Seminar
Wed, 12.07.17 <i>Lecture 17</i>	Alberts Chapter 18	Strilic	Apoptosis, Necr(opt)osis and Other Forms of Cell Death (8.15 h-10.15 h)
Mo, 17.07.17 <i>Lecture 18</i>	Alberts Chapter 18	Strilic	Means to an End: Cell Death in Biology and Diseases
Wed, 19.07.17 <i>Seminar 6</i>		Strilic	Seminar (8.15 h-11.00 h)

Literature:

B. Alberts, Molecular Biology of the Cell, Sixth Edition, December 2014

Note: Literature for open positions will be communicated by the lecturer.

Module 3	Part II: <i>Advanced Cell Biology II</i> Molecular Basics in Vertebrate Genetics
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24.07. - 28.07.2017

Date	Groups	Lecturer
Mo, 24.07.17	Group 1	Lecaudey
Tue 25.07.17	Group 2	Stelzer, Pampaloni
Thur 27.07.17	Group 1	Stelzer, Pampaloni
Fri 28.07.17	Group 2	Lecaudey

Papers and topics of the lectures will be distributed and presented at the introduction of the module part at: 07.06.2017, 11:15-12.00 h in seminar room 1.

2017: Summer Semester Dates

Semester Start: 01.04.2017 / Semester End: 30.09.2017

Official Lecture Start: 18.04.2017-21.07.2017

Exam to Module 3:

Thursday, 17.08.2017, Time: 10.00-11.30 h

Location: Campus Riedberg, Biologicum, Lecture Hall 1