

Frontiers in Biosciences II – Lecture Series with Tutorials – Winter Semester 2023/2024

Lecture period:

8. January – 8. March 2024

"Core competencies week"

- mandatory for all students

2-week lecture/tutorial modules organized by each of the seven Majors of the master program, focussing on concepts, knowledge and specific methodologies

- every student has to choose at least two modules
(for Cancer Biology students: do not choose Cancer Biology because of overlap with Focus-1 lecture series where you will hear these subject much more in-depth)
- mandatory attendance of the chosen modules (monitored by online registration or sign-up sheet); no written exam

Weeks	Dates	mandatory	
Week 1	08.-12.01.2024	Core competencies <i>Epigeum Course: Research integrity; Science design and analysis; AI in science; Science communication; Ethics in science</i>	
		Choice of topics (2 are mandatory)	
Weeks 2 and 3	15.-26.01.2024	Infectious Diseases	Developmental and Stem Cell Biology
Weeks 4 and 5	29.01.-09.02.2024	Molecular and Cellular Biology	Systems Biology
Weeks 6 and 7	12.-23.02.2024	Cancer Biology	
Weeks 8 and 9	26.02.-08.03.2024	Neuroscience	Molecular and Applied Plant Sciences

Schedule of the 2-week 'Minor' in Cancer Biology: 12.-23. February 2024

lecture time: **08:15-09:45 a.m.** location: DKFZ Main Building INF 280, Communication Center
Grand Lecture Hall (HS) or upstairs K1/K2 seminar rooms

Week 6 (12. - 16.02.2024)

L1 The Nature of Cancer (Ilse Hofmann)	12.02.2024 (Mon) HS
L2 Hallmarks of Cancer I: Stem Cells and Cancer (Andreas Trumpp)	13.02.2024 (Tue) HS
L3 Hallmarks of Cancer II: Tumor Microenvironment – Metastasis (Rene-Filip Jackstadt)	14.02.2024 (Wed) HS
L4 Hallmarks of Cancer III: Epigenetics (Indrabahadur Singh)	15.02.2024 (Thur) K1/K2
L5 Hallmarks of Cancer IV: Multistep Tumorigenesis (Michael Dill)	16.02.2024 (Fri) HS

Week 7 (19. - 23.02.2024)

L6 Hallmarks of Cancer V: Oncogenes and Tumor Suppressors (Stefan Wiemann)	19.02.2024 (Mon) HS
L7 Hallmarks of Cancer VI: Metabolism and Cancer (Almut Schulze)	20.02.2024 (Tue) HS
L8 Prevention: Virology-HPV (Martin Müller)	21.02.2024 (Wed) HS
L9 Treatment of Cancer: Immunotherapy (Viktor Umansky)	22.02.2024 (Thur) K1/K2
L10 Treatment of Cancer: Personalized Medicine (Johanna Wagner)	23.02.2024 (Fri) HS