

Frontiers in Biosciences II – Lecture Series with Tutorials – Winter Semester 2024/2025

Lecture period:

7. January – 7. March 2025

"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 sign-up sheet); no written exam

Weeks	Dates	mandatory	
Week 1	07.-10.01.2025	Core competencies <i>Epigeum Course: Research integrity; Ethics & statistics; Science communication; Scientifically correct handling of bioimage data; Legal implications of AI and big data</i>	
		Choice of topics (2 are mandatory for each student)	
Weeks 2 and 3	13.-24.01.2025	Molecular and Applied Plant Sciences	Neuroscience
Weeks 4 and 5	27.01.-07.02.2025	Molecular and Cellular Biology	Systems Biology
Weeks 6 and 7	10.-21.02.2025	Cancer Biology	Developmental and Stem Cell Biology
Weeks 8 and 9	24.02.-07.03.2025	Infectious Diseases	

Schedule of the 2-week 'Minor' in Cancer Biology: 10.-21. February 2025

lecture time: **8:15-9:45 a.m.** mode: **in person**

location: Grand Lecture Hall (gHS 00.006 on ground floor) of **COS, INF 230/231**

Week 6 (10.-14.02.2025)

L1	The Nature of Cancer: (Ilse Hofmann)	10.02.2025 (Mon)
L2	Hallmarks of Cancer I: Oncogenes and Tumor Suppressors (Stefan Wiemann)	11.02.2025 (Tue)
L3	Hallmarks of Cancer II: Tumor Microenvironment – Metastasis (Rene-Filip Jackstadt)	12.02.2025 (Wed)
L4	Treatment of Cancer: Immunotherapy (Viktor Umansky)	13.02.2025 (Thur)
L5	Hallmarks of Cancer III: Multistep Tumorigenesis (Michael Dill)	14.02.2025 (Fri)

Week 7 (17.-21.02.2025)

L6	Prevention: Virology-HPV (Martin Müller)	17.02.2025 (Mon)
L7	Hallmarks of Cancer IV: Stem Cells and Cancer (Andreas Trumpp)	18.02.2025 (Tue)
L8	Hallmarks of Cancer V: Metabolism and Cancer (Almut Schulze)	19.02.2025 (Wed)
L9	Hallmarks of Cancer VI: Epigenetics (Indrabahadur Singh)	20.02.2025 (Thur)
L10	Treatment of Cancer: Personalized Medicine (Stefan Fröhling)	21.02.2025 (Fri)