

Cell Biology Tutorial «Happy Cell» – Book Club CTS/KSL 7606

Dates:	February 2024 – January 2025 (see dates in KSL)
Time/Duration:	Tuesdays, 16h00-18h00, meets monthly for two consecutive semester
Organizer:	Graduate School for Cellular and Biomedical Sciences (GCB)
Tutors:	Senior scientists (see table)
Location:	Varies according to tutor, see KSL and watch for email notification one week prior to tutorial

Textbook:

Bruce Alberts et al.: «Molecular Biology of the Cell», 6th edition, Garland Science, 2014 (see also <http://www.garlandscience.com/product/isbn/9780815344322>). You should have your own book and bring it along to the tutorial sessions.

Course Description:

19 chapters of the book will be discussed in 10 tutorial sessions – see table below. It is important that you come well prepared to each session: **You are expected to read the respective chapters being discussed prior to each session and to be able to discuss figures and contents of chapters.** The tutorial will be held in English and chaired by ten senior scientists (tutors). You should not expect any regular teaching. Rather, the tutorial is designed as a self- study group. At the beginning of each session, the tutor will select one or more student as **discussion leader(s)**. The discussion leaders are expected to moderate the discussion, making sure that everybody participates and that the topics are thoroughly discussed.

To qualify for the 5.0 ECTS, you will attend a minimum of 8 sessions. – If you must be absent for any session, please notify the course organizers (info@gcb.unibe.ch) in advance of the tutorial.

Limitation: 6-12 students

Credits: 5.0 ECTS

Registration &

Organization: Registration in CTS/KSL is required. Students listing this tutorial on their doctoral agreement have priority – others will be waitlisted.

Final Examination:

- The oral, c. 45 min. examination will take place two to three months after the last session of the tutorial. The exam will be on two sessions (two topics) of the tutorial.
- You will be invited by e-mail to suggest your three preferred topics (please note: **three topics or three sessions**, not three chapters); the GCB will choose one of them for the examination.
- A further topic will be assigned to you by the GCB.
- You are expected to revise for the entire tutorial/book. Neither the topics or sessions chosen from your three preferred, nor the topics or sessions chosen from the GCB, will be communicated in advance of the exam.
- Moreover, basic knowledge in Cellular and Molecular Biology will be expected.
- Exam topics and examiners will be selected after the last session of the tutorial.
- Exam dates will be organized individually and *are subject to the availability of the examiners*.
- You are expected to be available for the suggested exam date; temporary professional absences during the prospective exam period must be communicated to the organizer *in advance* (info.gcb@unibe.ch).
- Each exam will be conducted by two examiners, usually selected from the team of tutors.

Rules for Withdrawal from Examinations:

- The successful completion of all courses and examinations listed as «mandatory requirements» in the Doctoral Agreement is an indispensable requirement to continue with the PhD program of the GCB. A failed mandatory examination may be repeated once. If failed twice, the PhD program cannot be continued (see «Promotionsreglement», **Art. 9²** and **Art. 19¹**).
- Withdrawal from a scheduled examination later than 14 days before the examination date is only accepted if caused by important reasons, such as severe health problems of the candidate or other exceptional circumstances such as bereavement in the close family. Withdrawals due to health problems must be supported by a medical certificate.
- In cases of insufficient or missing justification for absence at an examination, the examination will count as failed.

Session	Weekday	Date	Beginning	End	Short title	Lecturers
1	Tuesday	13.02.2024	16:00	18:00	# 1: Cells and Genomes # 2: Cell Chemistry and Bioenergetics # 3: Proteins	Prof. Dr. Ruth Lyck
2	Tuesday	12.03.2024	16:00	18:00	# 4: DNA, Chromosomes, and Genomes # 5: DNA Replication, Repair, and Recombination	PD Dr.phil.nat. André Schaller
3	Tuesday	09.04.2024	16:00	18:00	# 12: Intracellular Compartments and Protein Sorting # 13: Intracellular Membrane Traffic	PD Dr. Edgar Ontsouka
4	Tuesday	07.05.2024	16:00	18:00	# 10: Membrane Structure # 11: Membrane Transport of Small Molecules and the Electrical	Prof. Dr. Thomas Max Lemmin
5	Tuesday	11.06.2024	16:00	18:00	# 6: How Cells Read the Genome: From DNA to Protein # 7: Control of Gene Expression	Prof. Dr. Sebastian Andreas Leidel
6	Tuesday	10.09.2024	16:00	18:00	# 14: Energy Conversion: Mitochondria and Chloroplasts Z	Prof. Dr. Christine Peinelt
7	Wednesday	16.10.2024	16:00	18:00	# 15: Cell Signaling	Prof. Dr. Thomas Kaufmann
8	Wednesday	06.11.2024	16:00	18:00	# 17: The Cell Cycle # 18: Cell Death	Dr. Darko Stojkov
9	Tuesday	03.12.2024	16:00	18:00	# 16: The Cytoskeleton # 19: Cell Junctions and the Extracellular Matrix	Prof. Dr. Ruth Lyck
10	Wednesday	08.01.2025	16:00	18:00	# 20: Cancer # 22: Stem Cells and Tissue Renewal	Dr. Darko Stojkov