

Teaching materials: lectures

Topic	Teaching material (Cooper: The cell, 9th edition)
1.	2-14: 43 (top of the page) – 44; 48-67
2.	53-58 (DNA); 87-91; 152-159
3.	179-190; Presentation at the lecture
4.	53-58 (RNA); 92-99; 199-211
5.	336-356; 621-622
6.	263-277
7.	75-79 (bottom of the page); 502-512;546-560
8.	411-416; 422-444; 446-455
9.	458-497
10.	598-626
11.	563-595 (fundamentals according to the presentation)
12.	Cooper: (84-87); Presentation at the lecture
13.	Campbell: Chapter 14 (319-324, 329-330, 334-337 without sickle-cell disease) Chapter 15 (344-350); Presentation at the lecture
14.	100-106 (top of the page); 118 (bottom of the page)-127, 130-132
15.	Cooper: (127-130); Presentation at the lecture
16.	Campbell: Chapter 15 (356-359); Presentation at the lecture
17.	Presentation at the lecture

Teaching materials: seminars

Topic	Teaching material (Cooper: The cell, 9th edition)
1.	24-35
2.	162-179
3.	135-152; 196-197; 305-308
4.	230-260 (without Transcription factor binding sites (240-243) and figure 7.14 explanation); 212-215
5.	215-227; 356 (bottom of the page)-362
6.	278-300
7.	79-81; 513-538;512 (caveolae)
8.	365 -388
9.	389-396 (+figure 11.31 explanation);402-408
10.	630-646; Presentation at the seminar
11.	583; 647-656
12.	660-673; 679-685 (bottom of the page)
13.	Campbell: Chapter 14 (324-326, 330), Chapter 15 (352 – independent assortment of chromosomes); Sickle – cell disease, Eye color
14.	106-117; 310-316
15.	Campbell: Chapter 14 (337-340), Levy: Chapter 1 (4-14), Chapter 3 (45-53); case report (ion channels)
16.	Presentation at the seminar; case report (diabetes)
17.	Presentation at the seminar; case report (mushroom poisoning)

Literature:

1. Cooper GM, Adams KW. The Cell, a Molecular Approach. International 9th ed. Oxford University Press; 2023.
2. Campbell NA, , Urry LA, Cain ML, Wasserman SA, Minorsky PV, Orr RB. Biology, A global approach, Pearson, London; 2021.
3. Prenatal diagnosis – copy material
4. Sickle – cell disease and eye color – copy material
5. Presentation at the lectures and seminars will be given after lectures.