



Bioengineering (626-0012-00 G)

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Lectures: Thursday 08:15 – 10:00; NO C60 or <https://video.ethz.ch/live/lectures/zentrum/no/no-c-60.html>

Exercises: Thursday 11:10 – 11:50, groups will be assigned at the beginning of the second week

Room:						
Name:	A -					- Z

Syllabus FS 2022

W.	Date (Lecturer)	Topics		Exercise
1	24.02 (Panke)	Intro	Chem. Grundlagen - Bindungen, funktionelle Gruppen	-
2	03.03 (Panke)	Chem. Grundlagen – Fette, Proteine	Chem. Grundlagen, Kohlenwasserstoffe, Nukleinsäuren	1 Chem. Grundlagen
3	10.03 (Panke)	Metabolismus - Thermodynamik	Metabolismus - Katalyse	2 Metabolismus
4	17.03 (Panke)	Metabolismus – Enzyme, Glykolyse	Metabolismus – Citrat Zyklus und Atmungskette	3 Metabolismus
5	24.03 (Panke)	Metabolismus – Proteinbiosynthese	Metabolismus - Regulation	4 Metabolismus
6	31.03 (Panke)	Metabolismus – DNA Replikation	DNA Replikation	5 Metabolismus
7	07.04 (Panke)	Zellbiologie - Membranen	Zellbiologie - Transport	6 Zellbiologie
8	14.04 (Snedeker)	Zellbiologie - Organellen	Struktur, Cytoskelett	7 Zellbiologie: Zelluläre Aufbau
9	21.04	No Lecture or Exercises (Easter Holidays)		
10	28.04 (Snedeker)	Cell Biology – Migration, Cell-Cycle	Differentiation, Apoptosis, Cancer	8 Cell Biology: Cytoskeleton, Migration
11	05.05 (Snedeker)	Cell Biology: Cell Signaling	Cell-Matrix Signaling	9 Cell Signaling
12	12.5	Mechanobiology	Mechanobiology /	10 Mechanobiology



	(Snedeker)		Pathophysiology	
13	19.05	<i>No Lecture or Exercises (Ascension)</i>		
14	26.06 (Snedeker)	Wound Healing	Introduction to Blood	11 Wound healing
15	02.06 (Snedeker)	Biomaterials and Biomedical Engineering	Biomaterials and Biomedical Engineering	12 Biomedical Product Design / Biomaterials