SCHEDULE FOR Bachelor's Programme in Biomedicine VT2025: BIOCHEMISTRY **17 Dec 2024 12:19** *** = ATTENDANCE COMPULSORY**

Week 4

Mon 20/Jan		Welcome, Course overview, and Roll call * Bernhard Lohkamp Manuel Zeitelhofer BLo MZe R	Lecture: Introduction to Biochemistry Components of Intermediary Metabolism BLo R	
Tue 21/Jan	Seminar 1 preparation	Lecture: Organic chemistry and enzyme function BLo I	Seminar 1: Introduction to Biochemistry AAM Gr 1-16 BZ 601 RGl (FFo) Gr 17-32 BZ 602	
Wed 22/Jan		Lecture: Biochemical pathways Simon Elsasser (SEI) R		
Thu 23/Jan		Lecture: Signal transduction in metabolic regulation SEI R	Lecture: Glycolysis and Gluconeogenesis SEI R	Seminar 2 preparation
Fri 24/Jan		Seminar 2: Glycolysis and gluconeogenesis RGl Gr 1-16 G 200 BKr (AAM) Gr 17-32 G 201	Lecture: Citric acid cycle and oxidative phosphorylation SEl P	Seminar 3 preparation

Week 5

Mon 27/Jan		Seminar 3: Citric acid cycle and ox. phosphorylation FFo Gr 1-16 G 200 DUs (RGl) Gr 17-32 G 201	Lecture: Glycogen metabolism and HMP shunt BLo R	Seminar 4 preparation
Tue 28/Jan		Lecture: Chromatography TNy R	Lab lecture: * Protein purification TNy R	Protein lab preparation incl. Quiz!
Wed 29/Jan		Lab: Protein purification * Tyrosine phosph: purification **TNy**, DFG, CDi + RPK, MOj (ODa) Course lab		
Thu 30/Jan		Lab: Protein purification * Tyrosine phosphatase **TNy**, DFG, CDi, RPK (MOj) Course lab		
Fri 31/Jan		Seminar 4: Glycogen metabolism AAM Gr 1-16 G 200 DUs (LCo) Gr 17-32 G 201	Lecture: Carbohydrate Metabolism Summary SEI R	Test preparation

Week 6

	8–9	9–10	10–11	11–12	12–13	13–14	14–15	15–16	16–17
Mon 3/Feb		Test Digital Carbohydrate metabolism Skrivsal BZ		Lecture: Synthesis of fatty acids and phospholipids MZe R		Lab and seminar: Protein purification * Assembly and interpretation of results TNy, RPK R	Interactive lecture on carbohydrate metabolism test SEl/BLo R	Seminar 5 preparation	
Tue 4/Feb			Seminar 5: Biosynthesis of lipids MZe Gr 1-16 G 200 SSi (TTe) Gr 17-32 G 201			Lecture: Lipolysis, beta-oxidation and ketone body synthesis MZe R		Seminar 6 preparation	
Wed 5/Feb			Lecture: Lipoprotein and cholesterol metabolism MZe R			Seminar 6: Lipolysis, ketone bodies TTe Gr 1-16 G 200 SSi (MZe) Gr 17-32 G 201		Course committee MZe C0333 **Protein lab report in**	
Thu 6/Feb			Lab lecture: * Lipids Onur Dagliyan (ODa) R		Lecture: Oxidative stress Elias Arnér (ElA) R				
Fri 7/Feb			**Protein lab report in** Lipid lab preparation incl. quiz						

Week 7

	8–9	9–10	10–11	11–12	12–13	13–14	14–15	15–16	16–17
Mon 10/Feb		Lipid lab * (Blood sampling starts 8:30, lab starts 9:00) **ODa**, JGe, MAo, CDi (DKa) Course lab							
Tue 11/Feb		Lipid lab/groupwise GC * See separate schedule **ODa**, JGe, MAo, TTe (DKa) Course lab							
Wed 12/Feb		Lipid lab/groupwise GC * See separate schedule **ODa**, JGe, DKa, TTe (CDi) Course lab							
Thu 13/Feb			Lipid Lab follow up ODa R	Lecture: Summary Lipid Metabolism MZe R		Lecture: * Intro proj work Lipids ISu R	Project work Lipids Teachers SSi (PMA) P		
Fri 14/Feb			Project work preparation Test preparation					**Protein lab report back**	

Week 8

	8–9	9–10	10–11	11–12	12–13	13–14	14–15	15–16	16–17
Mon 17/Feb		Test digital Lipid metabolism — Skrivsal BZ		Project work Lipids — Teachers: SPa (SSi) — PR		Interactive lecture on lipid metabolism test — MZe PR	Project work preparation		
Tue 18/Feb	Project work preparation								
Wed 19/Feb	SPORTS DAY								
Thu 20/Feb				Presentation project work * Lipids		Course committee MZe C0333	Writing lab report		
Fri 21/Feb			Lecture: Amino acid metabolism, urea — SEl R			Lecture: Liver and Alcohol — JOH R	Seminar 7 preparation; **Lipid lab report in**		

(JHL)

		Presentation project work * Lipids
ISu	G202	Gr. 1+6 / Gr. 1+6
PMA	G205	Gr. 2+7 / Gr. 2+7
SSi	G208	Gr. 3+8 / Gr. 3+8
MRa	G210	Gr. 4+9 / Gr. 4+9
SPa	G211	Gr. 5+10 / Gr. 5+10
EFo	G212	Gr. 11+12 / Gr. 11+12

Week 9

	8–9	9–10	10–11	11–12	12–13	13–14	14–15	15–16	16–17
Mon 24/Feb			Seminar 7: Amino acid metabolism — MRa Gr 1-16 G 200; AKl (HAu) Gr 17-32 G 201			Lecture: Nucleotide metabolism — ElA R		Seminar 8 preparation	
Tue 25/Feb		Seminar 8: Nucleotide metabolism — EBe BZ 601; MRa (AKl) BZ 602		Lecture: * Intro Proj work Metabolism in health and disease — MZe R		Lab lecture: * Insulin lab — MDa R		Project work preparation	
Wed 26/Feb		Insulin lab * — **MDa**, LCo, PMA, WZh, KaS — Course lab					Project work preparation; Insulin post-lab quiz		
Thu 27/Feb		Lecture: Integration of intermediary metabolism I: Feed fast cycle — SEl R		Lecture: Metabolic syndrome and neurological diseases — MZe R		Project work Metabolism in health and disease — Teachers: MZe — NR		Project work preparation	
Fri 28/Feb			Insulin lab * follow up — LCo R	Lecture: Integration of intermediary metabolism II: Metabolic syndrom and exercise metabolism — MZe R			Seminar 9 preparation	**Lipid lab report back**	

Week 10

	8	9	10	11	12	13	14	15	16	17
Mon 3/Mar			Seminar 9: Integration of intermediary metabolism SSi + RoF Gr 1-16 G 200 MLi (ElA) Gr 17-32 G 201				Project work Metabolism in health and disease Teachers MZe (SPa) NR	Project work preparation		
Tue 4/Mar			Project work preparation Seminar 10 preparation				(NMa) MZe G200 SPa G201 RoF G218 DKa G224	Presentation project work Metabolism in Health and Disease * Gr. 1+6+7 | Gr. 1+6+7 | Gr. 1+6+7 Gr. 2+8+9 | Gr. 2+8+9 | Gr. 2+8+9 Gr. 3+10+11 | Gr. 3+10+11 | Gr. 3+10+11 Gr. 4+5+12 | Gr. 4+5+12 | Gr. 4+5+12		
Wed 5/Mar		Lecture: Clinical Application Metabolism AWr R	Lecture: Question time SEl R	Lecture: About the exam BLo R		Seminar 10: Contextualizing biochemistry JJa Gr 1-16 G 200 DFG Gr 17-32 G 201				
Thu 6/Mar			PREPARATION FOR EXAMINATION							
Fri 7/Mar			PREPARATION FOR EXAMINATION							

Week 11

	8	9	10	11	12	13	14	15	16	17
Mon 10/Mar		**EXAMINATION** Resp: BLo Correction: BLo, SEl, MZe, ElA, DKa, JOH Skrivsal BZ								

Re-examination X April 2025, 8.15-12.15 time and format to be confirmed!
Re-re-examination X August 2025, 8.15-12.15 time and format to be confirmed!

Week 3

	8	9	10	11	12	13	14	15	16	17
Wed 15/Jan TBC								Teacher meeting New teachers only | All teachers BLo MZe BM B0313		

Week 3

	8	9	10	11	12	13	14	15	16	17
Thu 16/Jan TBC			**Introduction to the lab for first time lab teachers** New lab teachers: CDi, DKa, AxL Margareta Kling Pilström, Joseph Bruton Teaching lab MBB							

Week 4

	8	9	10	11	12	13	14	15	16	17
Thu 27/Jan TBC				**Practice for new lab teachers** Margareta Kling Pilström, Joseph Bruton, **ODa,** CDi, JGe, DKa Teaching lab MBB						

Lecture halls and other teaching locations

A = Atrium, Nobels väg 12 B
AV = Andreas Vesalius, Berzelius väg 9
BZ = group room Berzeliuslab, level 4&6, Berzelius väg 1
C = Christina Larsdotter (Cesar), Berzelius väg 3
Computer rooms = Ada Lovelace, Grace Hopper, level 4, Berzelius väg 3 (BZ)
Course lab = Hus A2-A3, Scheelelaboratoriet, Scheeles väg 2
F = Franklinsalen, Tomtebodavägen 6
G = group room, Hus 75, Retzius väg 13
I = Inghesalen, Tomtebodavägen 18 A
JB = Jacob Berzelius, Berzelius väg 3
K = Karolina, level 2, Widerströmska building, Tomtebodavägen 18A
KIB = Karolinska Institutets Bibliotek, Berzelius väg 3
L = Louis, level 1, Widerströmska building, Tomtebodavägen 18A
NR = Nils Ringertz, Biomedicum, Solnavägen 9
M = Marie, level 2, Widerströmska building, Tomtebodavägen 18A
P = Petrénsalen, Nobels väg 12B
PR = Peter Reichard, Biomedicum, Solnavägen 9
R = Rockefeller, Nobels väg 11
RG = Ragnar Granit, Biomedicum, Solnavägen 9
S = Samuelssonsalen, Scheelelab, Tomtebodavägen 6
Examination hall (Skrivsal BZ), Berzelius väg 3
Sch = Scheelesalen, Tomtebodavägen 6
W = Wangari, level 1, Widerströmska building, Tomtebodavägen 18A