SCHEDULE FOR Bachelor's Programme in Biomedicine VT2026: BIOCHEMISTRY **11 Dec 2025 12:00** * **ATTENDANCE COMPULSORY**

Week 4

Mon 19/Jan		Welcome, Course overview, and Roll call * Manuel Zeitelhofer MZe R		Lecture: Introduction to biochemistry Components of Intermediary metabolism Bernhard Lohkamp BLo R		
Tue 20/Jan	Seminar 1 preparation		Lecture: Organic chemistry and enzyme function BLo R			
Wed 21/Jan			Lecture: Biochemical pathways BKr R		Seminar 1: Introduction to Biochemistry DUs Gr 1-16 G 200 FSc (CML) Gr 17-32 G 201	
Thu 22/Jan		Lecture: Signal transduction in metabolic regulation BKr R		Lecture: Glycolysis and Gluconeogenesis BKr R		Seminar 2 preparation
Fri 23/Jan		Seminar 2: Glycolysis and gluconeogenesis FSR Gr 1-16 G 200 CML (DUs) Gr 17-32 G 201		Lecture: Citric acid cycle and oxidative phosphorylation BKr P		Seminar 3 preparation

Week 5

Mon 26/Jan		Seminar 3: Citric acid cycle and ox. phosphorylation FSR Gr 1-16 G 200 FSc (DUs) Gr 17-32 G 201		Lecture: Glycogen metabolism and HMP shunt BLo R		Seminar 4 preparation
Tue 27/Jan		Lecture: Chromatography TNy R	Lab lecture: * Protein purification TNy R	Protein lab preparation incl. quiz *		
Wed 28/Jan		Lab: * Protein purification Tyrosine phospha purification **TNy**, DFG, CDi, HAu (MFa) Course lab				
Thu 29/Jan		Lab: * Protein purification Tyrosine phosphatase **TNy**, DFG, CDi, HAu (MFa) Course lab				
Fri 30/Jan		Lecture: Carbohydrate Metabolism Summary BKr W	Seminar 4: Glycogen metabolism CML Gr 1-16 G 200 DUs (LCo) Gr 17-32 G 201	Test preparation 1		

Week 6

	8	9	10	11	12	13	14	15	16	17
Mon 2/Feb		Test Digital Carbohydrate metabolism Skrivsal BZ	Protein lab and seminar Assembly/ interpretation of results * TNy Sch	Lecture: Biosynthesis of lipids MZe R				Interactive lecture on carbohydrate metabolism test BKr R	Seminar 5 preparation	
Tue 3/Feb			Seminar 5: Biosynthesis of lipids VJP Gr 1-16 G 200 HSa (MLi) Gr 17-32 G 201			Lecture: Lipolysis, beta-oxidation and ketone body synthesis MZe R			Seminar 6 preparation	
Wed 4/Feb			Lecture: Lipoprotein and cholesterol metabolism MZe R			Seminar 6: Lipolysis, ketone bodies HSa Gr 1-16 G 200 MLi (VJP) Gr 17-32 G 201		Course committee MZe C0333		
Thu 5/Feb			Lab lecture: Lipids * Onur Dagliyan (ODa) R		Lecture: Oxidative stress Elias Arnér (ElA) R					
Fri 6/Feb			**Protein lab report in** Lipid lab preparation incl. quiz *							

	8	9	10	11	12	13	14	15	16	17
Week 7										
Mon 9/Feb		Lipid lab * (Blood sampling starts 8:30, lab starts 9:00) **ODa**, JGe, KZi, DKa (MGr) Course lab								
Tue 10/Feb		Lipid lab/groupwise GC * See separate schedule **ODa**, JGe, DKa, MGr (KZi) Course lab								
Wed 11/Feb		Lipid lab/groupwise GC * See separate schedule **ODa**, JGe, DKa, KZi (MGr) Course lab								
Thu 12/Feb			Lipid Lab follow up ODa R		Lecture: Summary Lipid Metabolism MZe R		Lecture: Intro proj work Lipids * ISu R	Project work preparation		
Fri 13/Feb			Workshop GenAI: Paraphrasing and assessing reliability between information sources Anna Borgström PR		2		Project work Lipids Teachers FSc (PaM) P	**Protein lab report back**		

Week 8

	8	9	10	11	12	13	14	15	16	17
Mon 16/Feb		Test preparation; Project work preparation								
Tue 17/Feb		Test digital Lipid metabolism — Skrivsal BZ		Project work Lipids — Teachers: OZe (YJi) — NR		Interactive lecture on lipid metabolism test — MZe NR	Project work preparation			
Wed 18/Feb	SPORTS DAY									
Thu 19/Feb	(JHL) ISu G202; OZe G205; YJi G208; MRa G210; SPa G211; PaM G212			Presentation project work lipids * — Gr. 1+6 / Gr. 2+7 / Gr. 3+8 / Gr. 4+9 / Gr. 5+10 / Gr. 11+12		Gr. 1+6 / Gr. 2+7 / Gr. 3+8 / Gr. 4+9 / Gr. 5+10 / Gr. 11+12	Course committee MZe C0333	Writing lab report		
Fri 20/Feb				Lecture: Amino acid metabolism — MLi AV			Lecture: Liver and Alcohol — JOH AV	Seminar 7 preparation; **Lipid lab report in**		

Week 9

	8	9	10	11	12	13	14	15	16	17
Mon 23/Feb			Lab lecture: Insulin lab * — MDa R	Seminar 7: Amino acid metabolism — MRa Gr 1-16 G 200; FSc (EBe) Gr 17-32 G 201			Lecture: Nucleotide metabolism — ElA R		Seminar 8 preparation	
Tue 24/Feb				Lecture: Intro Proj work Metabolism in health and disease * — SPa R	Lecture: Integration of intermediary metabolism I: Feed fast cycle — RoF R		Project work preparation; Insulin lab preparation incl. quiz *			
Wed 25/Feb				Seminar 8: Nucleotide metabolism — EBe BZ 200; MRa (FSc) BZ 201		Project work Metabolism in health and disease — Teachers: RoF (SPa) — PR	Project work preparation			
Thu 26/Feb				Insulin lab * — **MDa**, LCo, PMA, WZh, KaS — Course lab						
Fri 27/Feb			Insulin lab follow up * — LCo F	Lecture: Integration of intermediary metabolism II: Metabolic syndrom and exercise metabolism — MZe R	3	Lecture: Metabolic syndrome and neurological diseases — MZe R	**Lipid lab report back**; Seminar 9 preparation			

Week 10

Mon 2/Mar		Seminar 9: Integration of intermediary metabolism RoF Gr 1-16 G 200 MLi (ElA) Gr 17-32 G 201			Project work Metabolism in health and disease Teachers SPa (DKa) NR	Project work preparation
Tue 3/Mar	Project work preparation					
Wed 4/Mar	Project work preparation Seminar 10 preparation			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	(FSc) SPa G200 DKa G201 RoF G218 MLi G224
Thu 5/Mar		Lecture: Clinical Application Metabolism AWr R	Lecture: About the exam and question time MZe R		Seminar 10: Contextualizing biochemistry JJa Gr 1-16 G 200 THo (BLo) Gr 17-32 G 201	
Fri 6/Mar	PREPARATION FOR EXAMINATION					

Week 11

Mon 9/Mar	PREPARATION FOR EXAMINATION	
Tue 10/Mar	**EXAMINATION** Resp: BLo Correction: BLo, MZe, ElA, DKa, JOH, MLi, SPa Skrivsal BZ	

Re-examination 16. April 2025, 8.15-12.15
Re-re-examination 21. August 2025, 8.15-12.15

Week 3	8	9	10	11	12	13	14	15	16	17
Mon TBC 19/Jan	**Introduction to the lab for first time lab teachers** New lab teachers: KZi, HAu, LMW, SBe Margareta Kling Pilström, Joseph Bruton Course lab									

Week 3	8	9	10	11	12	13	14	15	16	17
Wed TBC 14/Jan									Teacher meeting New teachers only All teachers MZe BM B0313	

Week 4	8	9	10	11	12	13	14	15	16	17
Mon 26/Jan				**Practice for new lab teachers** Margareta Kling Pilström, Joseph Bruton, **ODa,** KZi, MGr, MFa Course lab						

Karolinska Institutet

BACHELOR'S PROGRAMME IN BIOMEDICINE

Teaching locations

Courses and schedules MBB

Please check the Canvas and your student e-mail on a regular basis for updates!

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