SCHEDULE FOR Bachelor's Programme in Biomedicine VT2025: BIOCHEMISTRY **18 Nov 2024 10:51** *** = 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 DRu Gr 1-16 BZ 601 AnK (CFr) 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 LCo Gr 1-16 G 200 AnK (DRu) Gr 17-32 G 201		Lecture: Citric acid cycle and oxidative phosphorylation SEI RG		Seminar 3 preparation

Week 5	8	9	10	11	12	13	14	15	16	17
Mon 27/Jan			Seminar 3: Citric acid cycle and ox. phosphorylation CFr Gr 1-16 G 200 ODa (AnK) 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 phospha purification **TNy**, RPK+ODa, BUG, DFG (MOj) Course lab							
Thu 30/Jan			Lab: Protein purification * Tyrosine phosphatase **TNy**, ODa, BUG, DFG (RPK) Course lab							
Fri 31/Jan			Lab and seminar: Protein purification * Assembly and interpretation of results TNy, RPK Sch	Seminar 4: Glycogen metabolism ODa Gr 1-16 G 200 DUs (LCo) Gr 17-32 G 201			Lecture: Carbohydrate Metabolism Summary SEI Sch	Test preparation		
	8	9	10	11	12	13	14	15	16	17

Week 6

	8	9	10	11	12	13	14	15	16	17
Mon 3/Feb		Test Digital Carbohydrate metabolism Skrivsal BZ		Lecture: Synthesis of fatty acids and phospholipids MZe R		Interactive lecture on carbohydrate metabolism test SEl/BLo R	Seminar 5 preparation			
Tue 4/Feb				Seminar 5: Biosynthesis of lipids EFo Gr 1-16 G 200 AFa (SSi) 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 (EFo) Gr 17-32 G 201	Course committee MZe C0333			
Thu 6/Feb			Lab lecture: * Lipids Lars Jakobsson (LJa) Onur Dagliyan (ODa) R		Lecture: Oxidative stress Elias Arnér (ElA) R					
Fri 7/Feb			**Protein lab report in**							
			Lipid lab preparation incl. quiz							
	8	9	10	11	12	13	14	15	16	17

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Week 7

Mon 10/Feb		Lipid lab * (Blood sampling starts 8:30, lab starts 9:00) **ODa**, AQP, MAo, SMa (PKu) Course lab							
Tue 11/Feb		Lipid lab/groupwise GC * See separate schedule **ODa**, MAo, AnC, SMa (PKu) Course lab							
Wed 12/Feb		Lipid lab/groupwise GC * See separate schedule **ODa**, AQP, SMa, MAo (AnC) Course lab							
Thu 13/Feb			Lipid Lab follow up LJa ODa R		Lecture: Summary Lipid Metabolism MZe R		Lecture: * Intro proj work Lipids ISu R		Project work Lipids Teachers SSi (PMA) NR
Fri 14/Feb	Project work Test preparation								**Protein lab report back**

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Week 8	8–10	10–12	12–14	14–17
Mon 17/Feb	Test digital Lipid metabolism (8:15–9:30) Skrivsal BZ	Project work Lipids (10–11:30); Teachers PMA (SSi); PR	Interactive lecture on lipid metabolism test (12:30–13:15) MZe PR	Project work (13:30–16)
Tue 18/Feb		Project work (10–15)		
Wed 19/Feb	SPORTS DAY			
Thu 20/Feb	(JHI) ISu G202 PMA G205 SSi G208 MRa G210 AFa G211 EFo G212	Presentation project work * (10–10:45): Gr. 1+6, Gr. 2+7, Gr. 3+8, Gr. 4+9, Gr. 5+10, Gr. 11+12 Lipids (11–11:45): Gr. 1+6, Gr. 2+7, Gr. 3+8, Gr. 4+9, Gr. 5+10, Gr. 11+12	Course committee MZe C0333 (12:45–13:15) Writing lab report (12:45–16)	
Fri 21/Feb		Lecture: Amino acid metabolism, urea (10–12) SEI R	Lecture: Liver and Alcohol (13–14:15) JOH R	Seminar 7 preparation **Lipid lab report in**

Week 9	8	9	10	11	12	13	14	15	16	17
Mon 24/Feb			Seminar 7: Amino acid metabolism HAu+MRa Gr 1-16 G 200 AKl (AFa) Gr 17-32 G 201			Lecture: Nucleotide metabolism ElA R			Seminar 8 preparation	
Tue 25/Feb		Seminar 8: Nucleotide metabolism ODa BZ 601 MRa (PMA) BZ 602		Lecture: * Intro Proj work Metabolism in health and disease MZe R		Lab lecture: * Insulin lab MDa R			Project work	
Wed 26/Feb		Insulin lab * **MDa**, LCo, WZh, PMA, RGe (KaS, SMa) Course lab						Project work 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 MeM (MZe) NR			Project work	
Fri 28/Feb			Insulin lab * follow up PMA R	Lecture: Integration of intermediary metabolism II: Metabolic syndrom and exercise metabolism MZe R			Seminar 9 preparation		**Lipid lab report back**	
	8	9	10	11	12	13	14	15	16	17

Week 10

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Mon 3/Mar			Seminar 9: Integration of intermediary metabolism PMa Gr 1-16 G 200 MLi (ODa) Gr 17-32 G 201					Project work Metabolism in health and disease Teachers BMe (NMa) NR				Project work							
Tue 4/Mar			Project work Seminar 10 preparation					(MLi) Mze G200 BMe G201 NMa G218 MeM G224			Presentation project work Metabolism in Health and Disease * Gr. 1+6+7 | Gr. 2+8+9 | Gr. 3+10+11 | Gr. 4+5+12 Gr. 1+6+7 | Gr. 2+8+9 | Gr. 3+10+11 | Gr. 4+5+12 Gr. 1+6+7 | Gr. 2+8+9 | Gr. 3+10+11 | 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																

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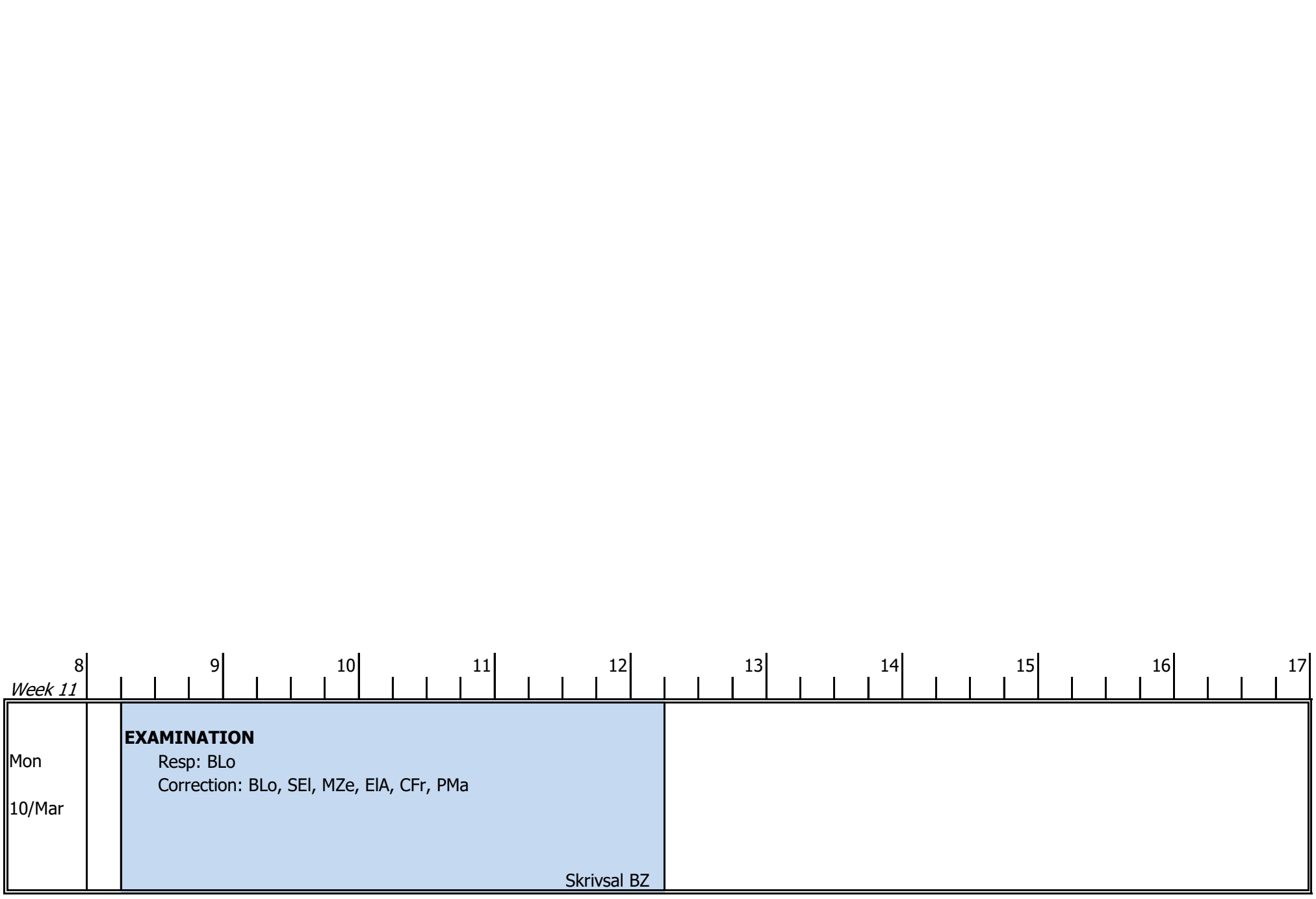

Re-examination 5 April 2024, 8.15-12.15
Re-re-examination 19 August 2024, 8.15-12.15

Room abbreviations

R=Rockefeller, Nobels väg 11
I=Inghesalen, Tomtebodavägen 18A
Sch=Scheelesalen, Tomtebodavägen 6
NR= Nils Ringertz, Biomedicum, Solnavägen 9
PR= Patrik Reichard, Biomedicum, Solnavägen 9
L=Louis, Tomtebodavägen 18A
M=Marie, Tomtebodavägen 18A
BZ=Berzelius lab group rooms, level 4 & 6, Berzelius väg 1
G= group room, Hus 75, Retzius väg 13
Course lab=Hus A2-A3, Scheelelaboratoriet, Scheeles väg 2
Skrivsal BZ=Examination hall, Berzelius väg 3
RG=Ragnar Granit, Biomedicum, Solnavägen 9