

Schema Biokemi för kemisterna

**Lärare:**

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**Vecka 36 – 43 – 29. augusti – 21. oktober**

	date	9:00 to 12:00	13:00 to 18:00
Måndag	29.08.	1. General organization of cells, energetics	
Tisdag	30.08.	2. Amino acids, peptides and proteins	
Onsdag	31.08.	3. Protein structure and folding	Lab 1 Buffers
Torsdag	01.09.	4. Protein function	
Fredag	02.09.	Inläsning	
Måndag	05.09.	5. Membranes and membrane transport	
Tisdag	06.09.	Inläsning	
Onsdag	07.09.	Repetition and exercises part 1	
Torsdag	08.09.	Lab 2 extinction coefficient determination	13:00-16:00 6 Enzymes at work - enzyme kinetics
Fredag	09.09.	6 Enzymes at work - enzyme kinetics	13:00 -14:30 7. Bioenergetics and thermodynamics
Måndag	12.09.	8. Intro to metabolism 9. Structures of carbohydrates, glycolysis and TCA cycle	13:14:30
Tisdag	13.09.	10. Respiration + photosynthesis	
Onsdag	14.09.	11. Gluconeogenesis, pentaphosphate pathway	
Torsdag	15.09.	Lab 3 enzyme kinetics	Lab 3
Fredag	16.09.	Lab 3	Lab 3
Måndag	19.09.	12. Lipids	
Tisdag	20.09.	13 Metabolism of lipids and amino acids	Lab 4 photosynthesis

Onsdag	21.09.	14. Hormonal regulation of metabolism	
Torsdag	22.09.	Inläsning	
Fredag	23.09.	Inläsning	
Måndag	26.09.	15. Regulation of metabolism and integration of metabolism -Repetition and excercises part 2	
Tisdag	27.09.	16. Biological information and organization	
Onsdag	28.09.	17. Replication	
Torsdag	29.09.	18. Flipped classroom "gene technology"	Workshop "gene technology"
Fredag	30.09.	Inläsning	
Måndag	03.10.	19. Transcription and regulation of gene expression	
Tisdag	04.10.	20. Translation and biogenesis	
Onsdag	05.10.	21. Protein expression and purification	Repetition and excercises part 3
Torsdag	06.10.	Workshop "protein purification"	
Fredag	07.10.	Inlämningsuppgift WS	
Måndag	10.10.	Lab 6 purification of recombinant expressed LacZ	Lab 6
Tisdag	11.10.	Lab 6	Lab 6
Onsdag	12.10.	Lab 6	Lab 6
Torsdag	13.10.	Lab 6	Lab 6
Fredag	14.10.	Lab 6	Lab 6
Måndag	17.10.	Open questions	
Tisdag	18.10.		
Onsdag	19.10.		
Torsdag	20.10.		
Fredag	21.10.	<b>Tentamen -exam</b>	
Fredag	12.12.		<b>Omtentamen</b>