

Schedule for Integrative Structural Biochemistry (KB7023)- 2026 (7.5 credits)									
Morning 09.00-12.00					Afternoon 13.00 - = 17.00				
Mo									
Tues									
Wed									
Thurs	1-Oct	Video lecture block: repetition of macromolecular structure 1-3: building blocks, rules, and examples			Video lecture block: repetition of macromolecular structure 1-3: building blocks, rules, and examples (VK)				
Fri	2-Oct	K341 - PyMol intro + Structure-Function A (SR/NH) (computer room)			K438 - Structure-Function A part 2 Ville afternoon: Macromolecular				
	3-Oct								
	4-Oct								
Mo	5-Oct	K438 - Biophysical properties of proteins and methods (VK)			K438 - Q & A for Macromolecular structure & function lectures				
Tues	6-Oct	K438 - Computational biochemistry 1 (VK)			K341 - Computational biochemistry 1 - hands on session (computer room)				
Wed	7-Oct	Biophysical properties - in Kaila Lab (AB/SB)			Biophysical properties - in Kaila Lab (AB/SB)				
Thurs	8-Oct	K441/K447 - Introduction to bioinformatics, protein evolution, structure prediction (VK/PaS)							
Fri	9-Oct	K441-K447 - Crystallization (PS)			K341 - Bioinformatics lab (PaS) (computer room) + remaining Comp biochem (SR/NH)				
	10-Oct								
	11-Oct								
Mo	12-Oct	K441-K447 - Integrative computational biochemistry 2 (VK)			X-ray recorded lectures 1-4 (MH)				
Tues	13-Oct	C458 - X-ray Q & A (MH) 1 h			K232-K242 - Crystallization Practical Group 1? (AK/JL)				
Wed	14-Oct	X-ray recorded lectures 5-8 (MH)			K232-K242 - Crystallization Practical Group 2 (AK/JL)				
Thurs	15-Oct	K438 - NMR 1 (LM)			K232-K242 - Crystal Analysis (AK/JL) Data processing, molecular replacement Demo (MH)				
Fri	16-Oct	K438 - X-ray Lecture / Tutorial 2+3 2h (MH)			K341 - Electron density + Structure tools (AK/JL) (computer room)				
	17-Oct								
	18-Oct								
Mo	19-Oct	K433-K439 - NMR 2 (LM)			K433-K439 - cryoEM (I) (MC)				
Tues	20-Oct	K433-K439 - cryoEM (II) (MC)			K232/K242 cryoEM practical				
Wed	21-Oct	K232 + Crystal mounting / fishing (AK/JL)			x-ray Data collection				
Thurs	22-Oct				K232-K242 - NMR practical (JoL)				
Fri	23-Oct	K433-K439 - Student seminar day on integrative structural biology (VK)			K433-K439 - Student seminar day on integrative structural biology (VK)				
	24-Oct								
	25-Oct								
Mo	26-Oct	Study	Study		Study	Study			
Tues	27-Oct	Study	Study		Study	Study			
Wed	28-Oct	Study	Study		Study	Study			
Thurs	29-Oct	Study	Study		Study				
Fri	30-Oct	K441-K447 - Exam 9-13							

Lecture
Supervised computer practical, attendance mandatory
Supervised practical, attendance mandatory
Exam
work through on your own
Unsupervised work

Lecturers

VK	Ville Kaila	ville.kaila@dbb.su.se
	course organiser	
MH	Martin Högbom	martin.hogbom@dbb.su.se
PS	Pål Stenmark	pai.stenmark@dbb.su.se
MB	Matthew Bennett	matthew.bennett@dbb.su.se

LM	Lena Mäler	lana.maler@dbb.su.se
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MC	Marta Carroni	marta.carroni@scilifelab.se
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protein structure & function
computational biochemistry
biophysical properties Lab
structural bioinformatics lab

NH
SR
AB
SB
PaS

Assistants for practicals

Niklas Hoja	niklas.hoja@dbb.su.se
Sarah Rossmann	sarah.rossmann@dbb.su.se
Adel Beghiah	adel.beghiah@dbb.su.se
Sofia Badolato	sofia.badolato@dbb.su.se
Patricia Saura	patricia.saura@dbb.su.se

crystallography

AK
JL

Ajda Krc	ajda.krc@dbb.su.se
Julian Ludscher	julian.ludascher@dbb.su.se

x-ray sources

NMR

JoL

jobst.liebaut@dbb.su.se

cryoEM

Lisa Engelhart, Koen Jurgens
Macej Malolepszy