

Schedule for Protein Structure and Function I - 2023 (7.5 credits)		
	Morning 09.00-12.00	Afternoon 13.00 - = 17.00
Mo	25/Sep	
Tues	26/Sep	
Wed	27/Sep	
Thurs	28/Sep	PyMol intro + Structure-Function A (DR/HK) part 1
Fri	29/Sep	Structure-Function A part 2 (DR/HK) amino acids test
	30/Sep	
	1/Oct	
Mo	2/Oct	Membrane 9-11, Macromolecular structure 3, Structure-function examples (VK) (K439-K433)
Tues	3/Oct	Biophysical properties of proteins and methods (VK) (K439-K433)
Wed	4/Oct	Computational biochemistry 1 (VK) (K447-K441)
Thurs	5/Oct	Membrane protein structure/lipids (DDr) (DBB)
Fri	6/Oct	Introduction to bioinformatics, protein evolution, structure prediction (VK) (Magneli)
	7/Oct	Computational biochemistry practical (DR/HK)
	8/Oct	Biophysical properties - lab (AB)
	9/Oct	Computational biochemistry practical + Bioinformatics lab (PaS)
	10/Oct	Biophysical properties - lab (AB)
	11/Oct	
Mo	9/Oct	Crystallization (PS) (K439-K433)
Tues	10/Oct	X-ray recorded lectures 1-3 (MH)
Wed	11/Oct	X-ray Q&A 1 1h (MH) 1 h X-ray Sources (MB) (K439-K433)
Thurs	12/Oct	Crystallization Practical Group 1 (JJ/SK/SJ)
Fri	13/Oct	Crystallization Practical Group 2 (JJ/SK/SJ)
	14/Oct	X-ray Q&A 2+3 2h (MH) (K447-K441)
	15/Oct	X-ray recorded lectures 4-6 (MH)
	16/Oct	X-ray recorded lectures 7-8 (MH)
	17/Oct	Crystal Analysis (AJ/SJ)
	18/Oct	cryoEM (I) (MC) (K439-K433)
	19/Oct	
	20/Oct	
Mo	16/Oct	Data processing, molecular replacement Demo (MH)
Tues	17/Oct	Crystal mounting / fishing (AK/SJ)
Wed	18/Oct	cryoEM (II) (MC) (K447-K441)
Thurs	19/Oct	Data collection
Fri	20/Oct	NMR 1 (LM) (K447-K441)
	21/Oct	Electron density + Structure tools (AK/SJ) (computer room)
	22/Oct	NMR 2 (LM) (K447-K441)
	23/Oct	Study
	24/Oct	cryoEM practical (UR/Mco)
	25/Oct	
	26/Oct	
	27/Oct	Exam 13:30-16:30 (K447-K441)

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

Lecturers		Assistants for practicals	
VK	Ville Kaila course organiser ville.kaila@dbb.su.se	protein structure & function computational biochemistry biophysical properties Lab structural bioinformatics lab	DRI HK AB PaS daniel.riepel@dbb.su.se hyunho.kim@dbb.su.se adel.beghiah@dbb.su.se patricia.saura@dbb.su.se
DDr	David Drew david.drew@dbb.su.se	membrane proteins	
MH	Martin Högbom martin.hogbom@dbb.su.se	crystallography	AK juliane.john@dbb.su.se
PS	Pål Stenmark pal.stenmark@dbb.su.se		SJ sukkyeong.jung@dbb.su.se
MB	Matthew Bennett matthew.bennett@dbb.su.se	x-ray sources	
LM	Lena Mäler lana.maler@dbb.su.se	NMR	
MC	Marta Carroni marta.carroni@scilifelab.se	cryoEM	UR Mco urska.rovnsnik@scilifelab.se mathieu.coincon@scilifelab.se