

Structure and dynamics of biological membranes (2020)

KB7015 7.5hp, KB7000 7.0 hp

Lectures in K l (K241-K247) at the Dept. of Biochemistry & Biophysics, House C, Arrhenius Laboratories.

Date	Topic	Lecturer
Fri 21/2, 9-12	Lipids: Physico-Chemical Properties, Detergents	DDr
Mon 24/2, 9-12	Lipid-Protein interactions	EL
Tue 25/2, 9-12	Membrane Protein Folding (Biophysics)	GvH
Wed 26/2, 9-12	Membrane Protein Biogenesis Topics of literature studies	DDr
Thu 27/2, 9-12	Membrane Protein Biotechnology	DDr
Fri 28/2, 9-12	GPCR Structure and Signaling	DDr
Mon 2/3, 9-12	Mitochondrial Membrane protein targeting and assembly Selection of topics of literature studies (report due 13/3)	MO DDr
Tue 3/3, 9-12	Fundamentals of Bioenergetics	PB
Wed 4/3, 9-12	Membrane Proteins Involved in Energy Conversion	VK
Thu 5/3 9-12 13-16	Molecular Mechanisms of Membrane-Bound Energy Transduction Biological Electron Transfer and Photosynthesis <i>Practical tutorials*</i>	VK + PB <i>IW</i>
Fri 6/3, 9-12 13-16	Methods to Investigate Function of Membrane Proteins <i>Practical tutorials</i>	PB <i>IW</i>
Mon 9/3, 9-12 13-16	Transport across membranes: Channels <i>Practical tutorials</i>	DDr <i>IW</i>
Tue 10/3, 9-12 13-16	Active-learning session on Secondary Transport <i>Practical tutorials</i>	DDr <i>IW</i>
Wed 11/3, 9-12 13-16	Transport across membranes: Secondary-Active and Primary Transport <i>Practical tutorials</i>	DDr <i>IW</i>

Thu 12/3, 9-11	Special Guest Lecture by Lucie Delemotte on GPCR activation	LD
Fri 13/3, 9-16	Oral presentations of literature report (not required for SciLife students KB7000)	DDr
Mon 16/3 – Thu 19/3	<i>Preparation time for exam</i>	DDr
Fri 20/3, 10-15	Written Exam	T.B.D DDr

Lectures: Room **K241-K247** at the Department of Biochemistry and Biophysics.

Tutorials: Each student takes the practical tutorial **once** and the exact date will be decided on the course. Note SciLife students have a meeting on the 5/3 and so cannot select to take the practical tutorial on that day.

Lecturers

DDr	David Drew
PB	Peter Brzezinski
GvH	Gunnar von Heijne
VK	Ville Kaila
EL	Erik Lindahl
MO	Martin Ott
IW	Iven Winkelmann

Secretariat: Room A417.

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