



SYMPOSIUM
2022

BRIDGING THE SCALES OF MOLECULAR MACHINES – FROM STRUCTURE TO FUNCTION

Tuesday, May 10th 2022

09:00 Intro and Welcome Prof. Rehling, Prof. Chacinska and Prof. Moser

Cell- & Mitochondrial Biology I		Chair: K. Szczepanowska
09:30	The extracellular matrix: stable barrier or flexible gate?	S. Rizzoli
10:00	Interplay between mitochondria and cellular proteostasis mechanisms	A. Chacinska

10:30 Coffeebreak

Cell- & Mitochondrial Biology II		Chair: H. Hillen
11:00	Regulated targeting of the monotopic hairpin protein squalene monooxygenase requires the GET pathway	B. Schwappach
11:30	Quality control and repair of mitochondrial respiratory complexes	K. Szczepanowska
12:00	Redox Processes in Complex I Assembly and Function	J. Riemer
12:30	Inner-cellular nucleoid populations with distinct activity levels	S. Jakobs

13:00 Lunch

Gene expression and structural biology I		Chair: M. Bohnsack
13:45	Dynamic changes in the catalytic RNA core in the spliceosome	M. Konarska
14:15	Structural insights into the stepwise assembly pathway leading to a catalytically-active spliceosome	R. Lührmann
14:45	m6A-driven SF3B1 translation control steers splicing to direct genome integrity and leukemogenesis	M. Ciesla

15:15 Coffeebreak



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	Gene expression and structural biology II	Chair: W. Filipovic
15:45	Transcription and RNA processing in human mitochondria	H. Hillen
16:15	Deciphering the molecular architecture of membrane contact sites by cryo-electron tomography	R. Fernandez-Busnadiego
16:45	Bunyaviral strategies for hijacking cellular translation machinery	P. Gerlach
17:15	Molecular mechanisms of the transcription machinery	P. Cramer

19:00 Speakers Dinner