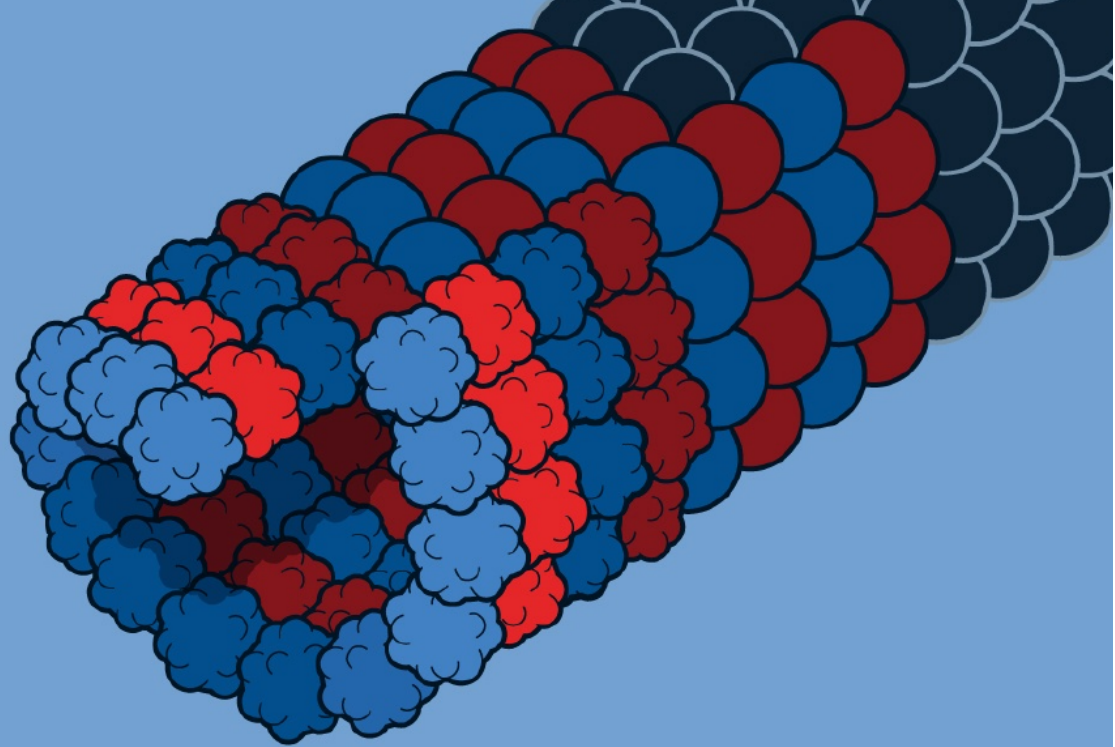




31st CYTOSKELETAL CLUB

21-23 September 2026
Liblice Castle
Czech Republic

Organizers



Institute of Physiology
of the Czech Academy of Sciences



Institute of Molecular Genetics
of the Czech Academy of Sciences (IMG)



Institute of Biotechnology
of the Czech Academy of Sciences (IBT)



Dresden International Graduate School
for Interdisciplinary Life Sciences (DIGS-ILS)

Sponsors



www.cytoskeletalclub.cz

ORGANIZING COMMITTEE

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Teije Middelkoop

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Michaela Ruskova

Darina Hlubuckova

Nikon

Leica

MICROSYSTEMS

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CONFERENCE PROGRAM

MONDAY 21.9.2026

13:00 – 14:30	Registration	
14:30 – 14:40	Opening Remarks	Organizing Committee
Session 1		<i>Session Chair: Zdenek Lansky</i>
14:40 – 15:00	Structural basis of Rab-dependent activation of the actin oxidase MICAL1	Daniel Rozbesky
15:00 – 15:20	Automation of in vitro reconstitution assay with single molecule resolution	Roman Podhájecký
15:20 – 15:40	Cell size reduction distinctly scales spindle elongation and chromosome segregation in <i>C. elegans</i>	Thomas Müller-Reichert
15:40 – 16:10	Coffee Break	<i>Foyer</i>
Session 2		<i>Session Chair: Lenka Libusova</i>
16:10 – 16:30	Update from the Tubulin Code world	Carsten Janke
16:30 – 16:50	Actomyosin-driven embryonic cytokinesis.	Allan Akandwanaho
16:50 – 17:30	Keynote: The actin cytoskeleton in brain homeostasis and injury: from synapses to astrocytes	Britta Eickholt
17:30 – 19:00	Poster Session I (Posters 1-19)	<i>Poster Hall</i>
19:00 –	Dinner	<i>Restaurant</i>

TUESDAY 22.9.2026

Session 3		<i>Session Chair: Teije Middelkoop</i>
09:30 – 09:50	Cytoskeletal Crosslinking in Liver Pathologies: From Mechanisms to Therapeutic Targeting	Martin Gregor
09:50 – 10:10	Solid Immersion TIRF microscopy for study of intraciliary dynamics.	Ludek Stepanek
10:10 – 10:30	Is tubulin in bulk solution an electrically gated smart material?	Ondrej Kucera
10:30 – 11:00	Coffee Break	<i>Foyer</i>
Session 4		<i>Session Chair: Carsten Janke</i>
11:00 – 11:20	Dissecting the mechanism of actin cage formation around the Salmonella pathogenic vacuole driven by the Salmonella kinase SteC	Mithu Ezhuthachan

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11:20 – 11:40	Long term tau protein changes after hibernation in golden hamsters	Max Holzer
11:40 – 12:20	Keynote: Cytoskeletal mechanisms in axon remodeling	Monika Leischner-Brill
12:20 – 15:00	Lunch & Rest	<i>Restaurant / Free Time</i>
Session 5		<i>Session Chair: Aniruddha Mitra</i>
15:00 – 15:20	TRAK1 Role in Mitochondrial Dynamics and Neuronal Development	Maria Jose Ruiz Estrada
15:20 – 15:40	Activation of Dynein Through Microtubule Crossbridging	Apolena Zounarová
15:40 – 16:00	Dark-Field Interferometric Scattering Microscopy for Quantitative Label-Free Imaging of Cytoskeletal Dynamics and Cellular Processes	Sreyash Sarkar
16:00 – 16:20	Coffee Break	<i>Foyer</i>
Session 6		<i>Session Chair: Stanislav Vinopal</i>
16:20 – 16:40	Which way the electric field points decides how a microtubule wall breaks	Michal Cifra
16:40 – 17:00	RNA regulates the interaction of human YBX1 with the microtubule cytoskeleton	Fathima Feroosh
17:00 – 17:40	Keynote: The Tubulin Code and Cytoskeleton-Associated Protein Diversity and Versatility: Key Drivers of Neuronal Circuit Wiring	Coralie Fassier
17:40 – 19:00	Poster Session II (Posters 20-37)	<i>Poster Hall</i>
19:00 –	Dinner & Party	<i>Restaurant</i>

WEDNESDAY 23.9.2026

Session 7		<i>Session Chair: Michal Cifra</i>
09:30 – 09:50	Kinesin-5 organizes in regular patterns withing microtubule overlaps	Lukas Niese
09:50 – 10:10	Effect of kinesin-5 inhibition on k-fiber length and architecture in RPE-1 cells	Gunar Fabig
10:10 – 10:30	Direct Regulation of Microtubule Plus End Proteins Localization and Dynamics by CK1δ/ε	Stepan Čada

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10:30 – 11:00	Coffee Break	<i>Foyer</i>
Session 8		<i>Session Chair: Marek Piliarik</i>
11:00 – 11:20	Disassembly of actin and microtubules differentially affect mortality and anhydrobiosis recovery in the eutardigrade <i>Paramacrobiotus gadabouti</i> (Macrobiotidae)	Stanislav Vinopal
11:20 – 11:40	Live-Cell iSCAT at 1 Million FPS: Label-Free Imaging of Cellular Dynamics	Laurence Fitzpatrick
11:40 – 12:00	Actomyosin contractility in the maturing oocyte terminates a transient wave of clathrin mediated endocytosis	Subhadip Chakraborty
12:00 – 12:40	Keynote: Organizing actomyosin for function: lessons from <i>C. elegans</i> contractile systems	Ana Xavier de Carvalho
12:40 – 13:00	Poster Awards & Closing Remarks	Organizing Committee
13:00	Lunch	<i>Restaurant / Departure</i>