

IUPS 2025

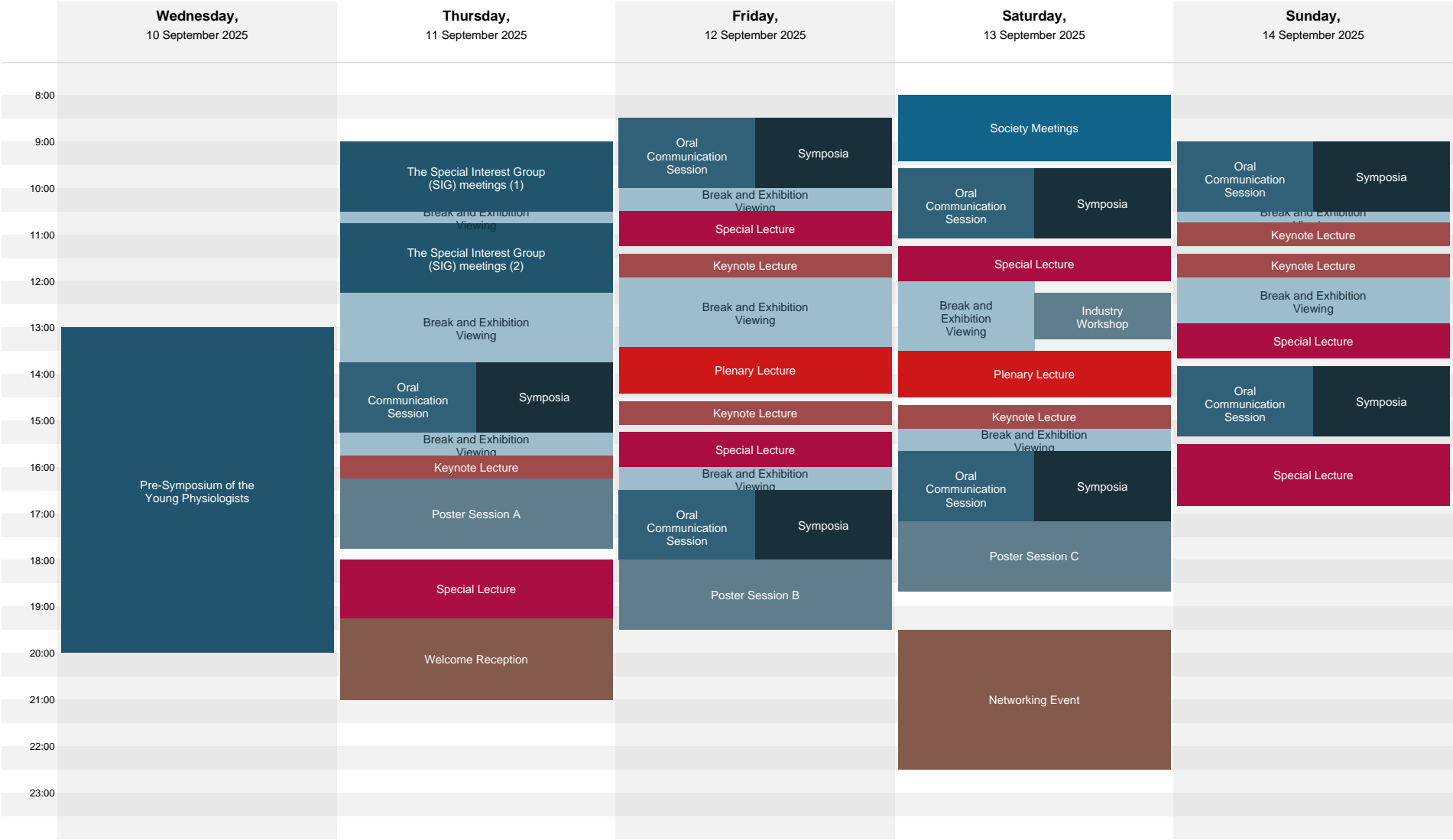
a joint meeting with

EUROPHYSIOLOGY

11. – 14. September 2025 | Frankfurt/Main



Week overview



40th congress of the international union of physiological sciences

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## Overview: Wednesday, 10 Sept 2025

### Plateau

13:00 YP – Cutting edge approaches in physiology – at the bench and beyond

14:00

15:00

16:00

17:00

18:00

19:00

20:00

21:00



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### Overview: Friday, 12 Sept 2025

	Plateau	Solar	Satellit	Sirius	Passat	Meridian	Mistral	Horizont
8:00								
9:00	S 04 – Location, Location, Location: Why Location Does Matter in the Cardiac Myocyte		OS 05 – Cellular and Molecular Neuroscience 1	OS 06 – Education and Teaching	S 05 – Strategies for Dealing with Predictable Increases in Energy Demands Across Time and Space	S 06 – The Pathophysiology of Exertional Dyspnoea: From Physiology to Clinical Applications	OS 07 – Cellular and Molecular Physiology 1	S 07 – Epithelial Barrier Functions: Brush Border, Tight Junctions, and Beyond
10:00	Foyer Coffee Break							
11:00						SL 01 – Special: T. Longden: Capillary Ion Channels and Cerebral Blood Flow		SL 02 – Special: G. Liu: Programming of Aging
12:00	KL 05 – Keynote: K.R. Sirtori: Cardiovascular Risk Factors and the Role of Diet				KL 06 – Keynote: Ch. Stucky: Mechanism of Pain	KL 07 – Keynote: V. Prevot: Regulation of the Cardiovascular System		KL 08 – Keynote: N. Partridge: The Role of the Gut Microbiome in Health and Disease
	Foyer Lunch Break							
13:00								
14:00								PL 01 – Noble Laureate Lecture: P. Ratcliffe: HIF related Oxygen Sensing
15:00	KL 09 – Keynote: M. López: Metabolic and hormonal regulation of the cardiovascular system				KL 10 – Keynote: M. Kano: Development of neuronal circuits	KL 11 – Keynote: B. Isakson: Microcirculation		KL 12 – Keynote: L. Ellerby: Insulin resistance and the role of the gut microbiome
16:00	Foyer Coffee Break					SL 03 – Special: H. Kasai: Dendritic Spines		SL 04 – Special: R. Murphy: Skeletal Muscle Physiology
17:00	S 08 – Bidirectional Brain-Gut Interactions in Health and Diseases	OS 08 – Modelling	OS 09 – Endocrinology and Metabolism	OS 10 – Physical Activity: Immunometabolic Effects	S 09 – Extracellular Vesicles and Physical Exercise: Hermes is Using Nanocarriers to Convey Bodily Messages	S 10 – The Physiology of Hypoxia: From Cellular Oxygen Sensing to Ethnic Differences in High Altitude Adaptation	OS 11 – Gastrointestinal Physiology	S 11 – Arterial Blood Pressure, Cerebral Perfusion and Brain Health
18:00	Foyer Poster Session B							
19:00								
20:00								

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Plateau	Solar	Satellit	Sirius	Passat	Meridian	Mistral	Horizont
Society Meetings							
S 12 – Multimodal Communications Between Astrocytes and Heterogeneous Cell Types in the Cerebral Cortex	OS 12 – Inflammation	OS 13 – Ion Channels and Transporters 1	OS 14 – Cardiac Physiology	S 13 – Mechanisms and Functions of Gas Permeation across Membranes	S 14 – Gastrointestinal Hormones and the Gut Kidney Axis	OS 15 – Kidney and Vessels	S 15 – Body Rhythms and Metabolic Aging
					SL 05 – Special: S. Teukita: Claudin-based Tight Junctions		SL 06 – Special: P. Silveira: Sex differences in lung physiology
Industry Workshop - AIBODY - Virtual patients for learning physiology	Foyer Lunch Break						
							PL 02 – Noble Laureate Lecture: S. Hell: Molecule-Scale Resolution Microscopy
KL 13 – Keynote: W. Boron:				KL 14 – Keynote: R. Quian-Quiroga:	KL 15 – Keynote: C. Bagni: Mechanisms underlying		KL 16 – Keynote: M.
Foyer Coffee Break							
S 16 – Arrhythmias: Beyond the Myocyte	OS 16 – Sensory Systems	OS 17 – Cellular and Molecular Physiology 2	OS 18 – Vascular Health and Function		S 17 – Capillary Pericytes in the Central and Peripheral Nervous System	OS 19 – Endocrinology and Reproduction	S 18 – The Physiome Project and Virtual Human Twins
Foyer Poster Session C							
Networking Event (outside of the congress venue)							

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### Overview: Sunday, 14 Sept 2025

	Plateau	Solar	Satellit	Sirius	Passat	Meridian	Mistral	Horizont
9:00	S 19 – HCN Channels: From Atomistic Resolution to Physiological Function	OS 20 – Cardiac Hypertrophy	OS 21 – Environmental and Comparative Physiology	OS 22 – Cellular and Molecular Neuroscience 2		S 20 – The Biology of Big: Physiological Consequences of Living Large on a Changing Landscape	OS 23 – Respiratory Physiology	S 21 – Respiratory Control Across the Aging and Health Spectrum
10:00								
11:00	Foyer KL 17 – Keynote: J. Leipziger: CFTR in Renal Physiology				KL 18 – Keynote: H. Witzke: Cardiac	KL 19 – Keynote: T. Xue: High and Low Energy Fuel		KL 20 – Keynote: A.L. Hargrave: The eye
12:00	KL 21 – Keynote: P. Hegyi: From the Heart to the Brain				KL 22 – Keynote: M. Nieto López : Developmental	KL 23 – Keynote: M. J. L. de Foa: The		KL 24 – Keynote: L. B. Reid: Molecular Signaling
	Foyer Lunch Break							
13:00						SL 07 – Special: P. Casanella: Development programming by obesity		SL 08 – Special: S. Mendez-Ferrer: Neural and Circadian Control of Hematopoiesis
14:00	S 22 – Competency-based education: Core concepts and skills	OS 24 – Ion Channels and Transporters 2	OS 25 – Kidney Function and Signalling	OS 26 – Muscle Physiology		S 23 – Natural Computation	OS 27 – Microcirculation and Vascular Physiology	S 24 – Time to Move: Type, Frequency, Dose and Timing Considerations for Physical Activity
15:00								
16:00								Prize Giving and Closing Ceremony
17:00								