



18th Annual symposium with international participation

Croatian Physiological Society, 17th-18th October 2025

School of Medicine, University of Zagreb

17th October 2025 - Friday

10.00.-11.00. Registration and coffee

11.00.-11.45. Keynote Lecture: Obesity: a matter of fat taste
prof Naim Akhtar Khan (Centre for Translational and Molecular medicine, Physiologie de la Nutrition & Toxicologie, France)

11.45.-12.15. Invited Lecture: Nina Vardjan (University of Ljubljana, Faculty of Medicine): Dysregulation of Signalling and Metabolism in the Aging Drosophila Brain

12.15. – 12.30. Coffee break

12.30.-14.30. Session 1. Metabolism: from physiology to clinics
Chairs: Aleksandra Dugandžić, Marina Dobrivojević Radmilović

12.30.-13.00. Ivana Jarić (Institute of Laboratory Animal Science, University of Zurich, Switzerland): Beyond SABV: Sex Steroid Hormone Status as a Key Factor in Detecting Sex Differences

13.00.-13.30. Aleksandra Dugandžić (School of Medicine, University of Zagreb): Expression of guanylate cyclase C and uroguanylin in mouse and human brain depend on sex/gender, phase of estrous cycle, age and feeding status

13.30.-14.00. Zvonko Miličević (Department of Science, Teaching, Projects and Clinical Trials, University hospital "Sveti Duh"): Searching for new targets for treatment of metabolic diseases: is glucagon the right choice?

14.00.-14.30. Marina Dobrivojević Radmilović (School of Medicine, University of Zagreb): Bradykinin type 2 receptor deficiency alters vascular endothelial growth factor and atrial natriuretic peptide levels in early-stage diabetic retinopathy

14.30.-16.30. Lunch break: Student canteen of the School of Medicine

15.30.-16.30. CPS (HDF) Assembly – all members of CPS

16.30.-18.30. Poster session (PP presentations)

18.30. Taking photo

20.00. Congress Dinner– Restaurant TBA

18th October 2025 - Saturday

09.30. – 10.00. Coffee

10.00.-10.45. Keynote Lecture: Hydration and volume homeostasis - from cells to body and population

Markus Ritter (Institute for Physiology and Pathophysiology, Salzburg, Austria)

10.45.-12.15. Session 2: Patophysiology 1

Chairs: Ines Drenjančević, Darja Flegar

10.45.-11.15. Ines Drenjančević (Faculty of Medicine of University of Osijek): Endothelial glycocalyx- a barrier or a mediator?

11.15.-11.45. Darja Flegar (School of Medicine, University of Zagreb): The role of gut microbiota in circadian rhythm of bile acid levels

11.45.-12.00. Short talk: Vedrana Tudor Špalj: Association between pulse wave velocity and cardiovascular risk factors in patients with spondyloarthritis

12.00.-12.15. Coffee break

12.15.-13.45. Session 2: Patophysiology 2

Chairs: Ines Drenjančević, Hrvoje Lalić

12.15.-12.45. Ines Mrakovčić-Šutić (The Faculty of Medicine, University of Rijeka): Granulysin and perforin mediated cytotoxicity in patients with colorectal cancer

12.45.-13.15. Hrvoje Lalić (School of Medicine, University of Zagreb): Decoding chronic graft-versus-host disease with monocyte signatures and plasma chemokines

13.15.-13.30. Short talk: Klara Bardač (School of Medicine, University of Zagreb): Metabolic impact of stearyl-coenzyme A desaturase inhibition on acute myeloid leukemia cells

13.30.-13.45. Short talk: Željka Minić (Faculty of Biotechnology and Drug Development, University of Rijeka): Central control of sympathetic nerve activity in a rat: the role of spinal cord and forebrain centers

13.45. Closing ceremony and awards