

17th **IMG** PHD conference

Friday 11th October 2024

- 9:00 - 9:30 Registration
- 9:45 - 9:50 Welcome by the organizers
- 9:50 - 10:00 Welcome by the Director of IMG

SESSION 1 Immunology & innovation

- 10:00 - 10:10 Jakub Onhajzer
Reactivation of the embryonic genes Trop2 and Sca1 correlates with the cellular zonation of the intestinal tumors
- 10:10 - 10:20 David Machač
Distinct Populations of gut RORyt+ Tregs Shaped by Microbiota and Weaning Timing.
- 10:20 - 10:25 Kateřina Weisová
Innovative use of SNPs in preimplantation genetic testing (PGT-A)
- 10:25 - 10:30 Kateřina Večerková
Equipping a LLM with bioinformatical tools
- 10:30 - 10:45 **Biotech - Josef Uskoba**
It starts with a pipette, but no one can tell you which one to choose and why.
- 10:45 - 11:30 **Keynote speaker - Mileidys Perez Alea**
Start-Up! How to make it from scratch
- 11:30 - 13:00 **Lunch break**

SESSION 2

Cancer & cell biology

13:00 - 13:10

Natálie Palková

Role of reversible phosphorylations in nucleolar structure

13:10 - 13:20

Mohamed Elgendy

2 in 1 : Linking the two cancer hallmarks of evading apoptosis and deregulated energetics

13:20 - 13:35

Eastport - Vojtěch Ledvina

Seeing is believing – Imaging Bioluminescence with GloMax Galaxy

13:35 - 13:40

Beatrice Valtorta

RNA processing and DNA damage response in neurological disorders

13:40 - 13:45

Kristína Jamrichová

FBXO38 and Its Impact on Cell Homeostasis

13:45 - 13:50

Katarína Ondrušková

DCAF12: A Key Player In DNA Replication

13:50 - 14:05

Immunai - Anna Dostalova

Unlocking the Power of Immunomics for Better Therapeutic Choices

14:05 - 14:30

Coffee break

SESSION 3

Communication & developmental biology

14:30 - 14:45

Flash talk competition

- Matouš Palek - *Epigenetic landscape control by (de)phosphorylation*
- Tobiáš Ber - *The slug life*
- Shreyoshi Karmakar - *Analysis of features of miRNA precursors in the RNA silencing pathway.*
- Marie Zelená - *Size matters: how to improve resolution with expansion microscopy*

14:45 - 15:30

Keynote speaker - Elodie Chabrol Science communication

15:30 - 15:40

Diego F. Joseph

Life through color: RNAi sensor system based on Single-cell fluorescence

15:40 - 15:50

Sven biolabs - Lenka Šídová

Systems for analysis of cell culture migration and proliferation

15:50 - 16:30

Coffee & Gifts

Come get your IMG present and a cocktail ticket for the evening party!

SESSION 4 Structural biology

- 16:30 - 16:40 Allan Akandwanaho
Converting molecular-scale torques to cellular and embryonic left-right asymmetry
- 16:40 - 16:50 Farahdokht Nourisanami
Molecular mechanisms of proteoglycan-mediated semaphorin signaling in axon guidance
- 16:50 - 16:55 Mario A. Martinez Monleon
Diversification of Actomyosin-driven axis establishment
- 16:55 - 17:05 Marie Zelená
One ring to rule them all: An unexpected journey of Bilbo 1 amid the flagellar pocket division in Trypanosoma brucei
- 17:05 - 17:30 **Break, voting for the best talks**
- 17:30 - 18:00 **PhD Agenda, Best talk announcement**
- 18:00 Dinner & Party!**

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