

15th IMG PhD CONFERENCE

Monday 10th October 2022

PROGRAM

09:00 – 09:05 INITIAL WELCOME BY PhD REPRESENTATIVES
Michal Mrkáček & Darina Paprčková

09:05 – 09:15 WELCOME BY IMG DEPUTY DIRECTOR
Prof. David Staněk

FIRST SESSION (09:15 – 11:00)

Chairman: Michal Mrkáček

09:15 – 09:30 FUNCTIONAL CHARACTERIZATION OF UNCONVENTIONAL NAIVE CD8+ 4-1BB+ T CELLS USING A NOVEL INDUCIBLE MONOCLONAL TCR MOUSE MODEL
Veronika Niederlová

09:30 – 09:45 ROLE OF MECHANOTRANSDUCTION IN HEPATIC STELLATE CELLS (HSCs) ACTIVATION
Srikant Ojha

09:45 – 10:00 INDIVIDUAL BMP LIGANDS SECRETED BY VILLUS MESENCHYMAL CELLS INITIATE DISTINCT DIFFERENTIATION PROGRAMS IN ENTEROCYTES
Linda Berková

10:00 – 11:00 Keynote Lecture:
SCIENTIFIC PUBLISHING – EMBO PRESS PERSPECTIVE
Dr. Karin Dumstrei, Senior Scientific Editor, EMBO Press

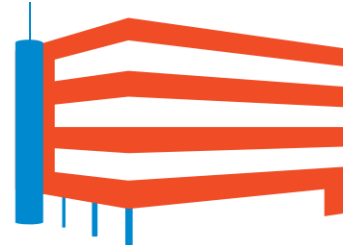
11:00 – 11:30 COFFEE BREAK I.

SECOND SESSION (11:30 – 12:30)

Chairman: Maria Kuzmina

11:30 – 11:45 EMERGENCY GRANULOPOIESIS INDUCES A LYMPHOID TO MYELOID TRANSCRIPTIONAL SWITCH IN A SUBSET OF HEMATOPOIETIC STEM CELLS MARKED BY CD201 EXPRESSION
Karolína Vaničková

11:45 – 12:00 EFFECTS OF CHRONIC INFLAMMATION ON HEMATOPOIETIC STEM CELLS
Sladjana Kosanović



12:00 – 12:15 **TAKING A CLOSER LOOK AT THE ROLE OF SPLICING FACTOR MUTATIONS
IN RETINITIS PIGMENTOSA USING A RETINAL ORGANOID MODEL**

Felix Zimmann

12:15 – 12:30 **ENLIGHTENING THE QUIETNESS – THE SEARCH FOR EARLY SILENCED PROVIRUSES**

Jakub Kaňka

12:30 – 13:30 **Lunch Time**

THIRD SESSION (13:30 – 15:20)

Chairman: Darina Paprčková

13:30 – 14:30 **MOLECULAR MECHANISMS OF CRISPR GENOME EDITOR NUCLEASES AND TRANSPOSONS**

Keynote Lecture:
Prof. Martin Jínek, Department of Biochemistry, University of Zurich

14:30 – 14:45 **STRATEGIES FOR ACTIVATING CANONICAL RNAi IN HUMAN CELLS**

Diego André Florian Joseph

14:45 – 15:00 **COMPUTATIONAL DETECTION OF FULL-LENGTH RETROTRANSPOSON INSERTIONS
IN GENOME ASSEMBLY OF GOLDEN HAMSTER**

Filip Horvat

15:00 – 15:20 **HALOTAG & NANOBRET – FUSION TAG-BASED TECHNOLOGIES
FOR CELLULAR PROTEIN ANALYSIS**

Sponsor's Talk:
Dr. Vojtěch Ledvina, EastPort LifeScience

15:20 – 15:50 **COFFEE BREAK II.**

FOURTH SESSION (15:50 – 17:20)

Chairmans: Michal Mrkáček & Darina Paprčková

15:50 – 16:05 **HEMATOPOIESIS IN SEA LAMPREY: HUMAN SWEAT AND TEARS AND LAMPREY BLOOD**

Martin Kovář

16:05 – 16:20 **SPO11 KNOCK-OUT IN CHICKEN AS A WAY TOWARD THE GENETIC STERILITY
AND EFFICIENT TRANSGENESIS**

Eliška Galíková

16:20 – 16:40 **VOTING AND BEST TALK AWARD**

16:40 – 17:20 **PANEL DISCUSSION FOR PhD STUDENTS**

17:20 – 00:00 **AFTERPARTY AT IMG**