

PROGRAMME

Friday 16th September

08:00 – 09:00	Registration	room 114, building A11
09:00 – 09:10	OFFICIAL OPENING	room 114, building A11
09:10 – 09:30	Lexogen presentation - RNA-Seq as an efficient tool for gene expression profiling	miRNA quantification and analysis
09:30 – 09:50	Tomáš Bárta - miRNAsong: microRNA SpONge Generator and tester - high-throughput approach for miRNA sponge design and testing	
09:50 – 10:10	Peter Androvic - New RT-qPCR system for miRNA analysis	
10:10 – 10:30	Dasa Dolezalova - Human Embryonic Stem Cell-derived Neural Stem Cells: Role of Cell Cycle and MicroRNAs in Shaping Cell Identity	
10:30 – 11:00	COFFEE BREAK	room 114, building A11
		The role of nucleic acids modifications
	PLENARY LECTURE I	room 114, building A11
11:00 – 11:50	Stefan Ameres - Mechanism and Biology of RNA Silencing	
11:50 – 12:10	Martina Janoušková - Influence of major-groove chemical modifications of DNA on transcription by bacterial RNA polymerases	
12:10 – 12:30	Sneha Kulkarni - Queuosine: The role of an essential tRNA modification in parasitic protist <i>Trypanosoma brucei</i>	
12:30 – 12:50	Helena Covelo Molaes - The mechanism of m6A demethylation in pre-mRNA processing regulation	
12:50 – 15:00	LUNCH & POSTER SESSIONS	Atrium, building A35

RNA and development

- PLENARY LECTURE II** **room 114, building A11**
- 15:00 – 15:50** **Eric Miska** - RNA memories in *C. elegans*
- 15:50 – 16:10** **Sravya Ganesh** - Role of LncRNAs in Oocyte-to-Zygote transition
- 16:10 – 16:30** **Lenka Veselovska** - The rate of transcription, but not timing of its activation, defines dynamics of DNA methylation establishment in the oocytes
- 16:30 – 16:50** **Denisa Jansova** - RNA world in progress: Complex visualization of transcriptome in oocyte and embryo
- 16:50 – 17:20** **COFFEE BREAK** **room 114, building A11**
- 17:20 – 17:40** **Radek Sindelka** - Identification of cell fate determinants and formation of organism body plan

RNA, structure and modeling

- 17:40 – 18:00** **Miroslav Krepl** - Study of RRM Protein/RNA Complexes - The Synergy of NMR Spectroscopy and MD Simulations
- 18:00 – 18:20** **Olga Jasnovidova** - Assemblies of RNA polymerase II C-terminal domain with processing factors investigated using integrative structural biology

Pre-mRNA splicing

- 18:20 – 18:40** **Darina Šikrová** - The human translation initiation factor 3 (eIF3) expression and integrity code
- 18:40 – 19:00** **Maria Zlobina** - Molecular aspects of CFTR exon9 aberrant splicing

19:00 – 19:20 **Transfer to A35**

19:20 – 19:30 **CLOSING REMARKS AND AWARDS**

19:30 – ?? **DINNER & PARTY** **Atrium, building A35**