SYMPOSIUM

«Systems biology of DNA repair processes and programmed cell death»

20-22 August 2018 Akademgorodok, Novosibirsk, Russia

PROGRAMME

Monday August 20, 2018
18h00 - 18h30: Registration
19h00: Get-together party

Tuesday August 21, 2018

Part 1. Systems biology of pharmacological targeting of apoptosis
Chairpersons: Inna Lavrik, Vladimir Ivanisenko

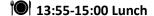
11:00-11:30	Towards understanding of apoptosis regulation using computational biology Inna Lavrik
11:30-12:00	Novel approach for computational design of small molecule inhibitors of protein/protein interactions in CD95/FAS pathway Nikita Ivanisenko
12:00-12:30	Growth of interest to research in the field of medical genetics according to the analysis of scientific publications Vladimir A. Ivanisenko

12:30-12:50 Analysis of Programmed Cell Death in Associative Gene Net-work of Glaucoma Reconstructed Using AND System

Olga V. Saik

12:50-13:10 Topological properties of graph of hydrogen bonds forming in SOD1 protein indicate critical regions in its structure

Nikolay Alemasov



Part 2. Cross talk between autophagy and apoptosis and their targeting

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15:00-15:45	Cross-talk between apoptosis and autophagy: the role of suppressed translation Boris Zhivotovsky	
15:45-16:15	Role of miR-126a in regulation of expression of anti-apoptotic protein BCL2 Lyudmila Gulyaeva	
16:15-16:45	Novel therapeutic approaches based on lactaptin action Olga Koval	
16:45-17:05	Autophagy and lactaptin Anastasiya Tkachenko	
17:05-17:30 Tumor-Specific Peptide, Enhances Antitumor Activity of Lactaptin		

A.A. Nemudraya

17:30-18:00 DNA Repair and death regulation in cells of the immune system **Bernd Kaina**

Wednesday August 22, 2018

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Part 3. DNA Repair Chairpersons: Olga Lavrik, Dmitry Zharkov		
	Non canonical roles of BER enzymes in RNA processing: novel perspectives in cancer biology through the study of APE1 RNA- and protein-interactomes Gianluca Tell	
	Molecular model of DNA glycosylase stimulation by human apurinic/apyrimidinic endonuclease 1 Nikita A. Kuznetsov	
	Poly(ADP-ribose) polymerase 1 in regulation of DNA repair and longevity Olga Lavrik	
	Poly- and mono(ADP-ribosyl)ation of DNA strand breaks by PARP2 and PARP3 enzymes Alexander Ishchenko	
	DNA Is a New Acceptor of PARP3 Protein Ekaterina Belousova	
13:10-14:30 Lunch		
14:30-14:50	TDP 1 Inhibitors as Potential Antitumor Drugs Alexandra Zakharenko	
	Targeted DNA Damage and Repair: The Cell's Multitool for Genome Regulation Dmitry Zharkov	
15:20-15:40	Biological activity of the new photoactive ruthenium nitrosyl complexes: cytotoxicity and effects on DNA repair Inga Grin	
15:40-16:00 Processivity of DNA repair enzymes Evgenia Dyatlova		
	Structural and biochemical insights on new atypical FPG/NEI DNA – Glycosylases Anna Yudkina	
16:20-16:40 Coffee Break // Poster Session		
	esion recognition by bifunctional DNA-glycosylase Endo III and its catalytic mutants Olga Kladova	
	Translesion DNA synthesis by DNA polymerase iota and it's variants Evgeniy S. Shilkin	

17:20-17:40 The point mutations in the fingers domain increase the fidelity of DNA synthesis on undamaged DNA

and abrogate DNA translesion synthesis in Y-family of DNA polymerases

Alena V. Makarova

17:40-18:00 In vitro lesion bypass by human PrimPol Elizaveta Boldinova