



Workshop on Recent Advances in Cancer Research – Online only

November 4-5, 2022

PROGRAM

Friday, November 4, 2022

Time	Chairs: Hans-Uwe Simon, Anna Brichkina, Nickolai A. Barlev, Marina Gomzikova and Albert Rizvanov
Metabolism, genes and cancer (Chair: Hans-Uwe Simon, Bern, Switzerland / Kazan, Russia)	
08:45-09:00	Hans-Uwe Simon (Bern, Switzerland/Kazan, Russia): Welcome
09:00-09:30	Elena Vasileva (Los Angeles, USA): Dysregulated heparan sulfate proteoglycan metabolism promotes Ewing sarcoma tumor growth
09:30-10:00	Nikita Markov (Bern, Switzerland): The functional and metabolic consequences of mitochondrial dysfunction in macrophages
10:00-10:30	Coffee break
10:30-11:00	Yufang Shi (Suzhou/Shanghai, China): Metabolic regulation of macrophage polarity by mesenchymal stem cell produced IGF2
11:00-11:30	Emil Bulatov (Kazan, Russia): Restoration of the functions of mutant oncosuppressor p53(Y220C) using small molecule reactivators
11:30-12:00	Eugene Tulchinsky (Nur-Sultan, Kazakhstan / Leicester, UK): Tumour cell plasticity as an obstacle for cancer treatments
12:00-13:00	Lunch break
Metabolism, genes and cancer (continue) (Chair: Albert Rizvanov, Kazan, Russia)	
13:00-13:30	Thomas Kaufmann (Bern, Switzerland): Regulation of the BCL-2 family member BOK and its role in cancer
13:30-14:00	Anna Brichkina (Marburg, Germany): Pericentromeric satellite lncRNAs are new markers of cancer-associated fibroblasts in lung cancer
14:00-14:30	Mauro Piacentini (Rome, Italy): The role of Transglutaminase type 2 in hepatocarcinogenesis
14:30-15:00	Coffee break
Short talks (Chair: Anna Brichkina, Marburg, Germany)	
15:00-15:10	Gulnaz Sharapova (Kazan, Russia): Bioenergetic heterogeneity of commonly used glioma cell lines
15:10-15:20	Sirina V. Kurbangaleeva (Kazan, Russia): Efficacy of drugs targeting mitochondria in inhibiting proliferation of colorectal cancer cells
15:20-15:30	Adelya F. Mullakhmetova (Kazan, Russia): Targeting mitochondrial functions in tumor-associated macrophages as a strategy for cancer therapy
15:30-15:40	Roman Suezov (Marburg, Germany): Targeting mesenchymal stromal cells for treatment of acute myeloid leukemia
15:40-16:00	Alexandra Daks (Saint-Petersburg, Russia): Crosstalk between p53-modifying enzymes Pirh2 and Set7/9 in carcinogenesis

16:00-16:10	Oleg Semenov (Saint-Petersburg, Russia): Downregulation of Set7/9 increases migration activity of cancer cells through Zeb1 expression activation
16:10-16:30	Olga Fedorova (Rehovot, Israel/ Saint-Petersburg, Russia): MDM2 is an E3 ubiquitin ligase for PTEN
16:30-16:50	Oleg Shuvalov (Saint-Petersburg, Russia): Pharmacological activity of invertebrate steroid hormone, ecdysterone, in normal and cancer human cells.
16:50-17:20	Gerry Melino (Rome, Italy): Function of the Sterile Alpha Motif domain in the p53 family
17:20	End of the first day

PROGRAM

Saturday, November 5, 2022

Novel pharmacological approaches in cancer (Chair: Nickolai A. Barlev, Nur-Sultan, Kazakhstan)	
09:00-09:30	Nickolai A. Barlev (Nur-Sultan, Kazakhstan): Dissecting the mechanism of Zeb1-mediated repression of p53 during the EMT program
09:30-10:00	Oleg Demidov (Dijon, France / Saint-Petersburg, Russia): Immunogenetic aberrations in DNA-damage response pathway
10:00-10:30	Ilya Ulasov (Moscow, Russia): Understanding GBM resistance to develop an effective anticancer approach
10:30-11:00	Coffee break
11:00-11:30	Svetlana Khaiboullina and Gulzin Tezcan (Kazan, Russia): The role of inflammasome in the mechanism of antibiotic regulation of cancer cells vitality
11:30-12:00	Marina Gomzikova (Kazan, Russia): Therapeutic potential of induced extracellular vesicles in regenerative medicine
12:00-12:30	Lunch break
Short talks (Chair: Marina Gomzikova, Kazan, Russia)	
12:30-12:40	Anastasiia Sapach (Moscow, Russia): Inhibition of TGF- β receptors of bladder cancer cells affects their mechanical properties as measured by nanopipette-based scanning ion-conductance microscopy
12:40-12:50	Ivan Filin (Kazan, Russia): Evaluation of immune cell cytotoxic activity after interaction with tumour-derived membrane vesicles.
12:50-13:00	Leisan Bulatova (Kazan, Russia): Recognition of cysteine mutant forms of the sodium-dependent phosphate transporter NaPi2b by monoclonal antibodies in ovarian cancer cells OVCAR-8
13:00-13:10	Aisylu Sagdeeva (Kazan, Russia): Genetic variants of DNA repair genes in cisplatin-resistant ovarian cancer cells
13:10-13:20	Alexey Matveev (Kazan, Russia): Autophagy suppression as a way to increase the sensitivity of ovarian cancer to cisplatin
13:20-13:30	Elvira Akhmetzyanova (Kazan, Russia): Characterization of microglia activation in a model of spinal cord injury different severity <i>in vitro</i>
13:30-13:40	Julia Gnennaya (Saint-Petersburg, Russia): Role of TG-2 in regulation of p53 in lung cancer
13:40-13:50	Shaimaa Hamza (Kazan, Russia): Tamoxifen suppresses NLRP3 priming via miR-223 in breast cancer independently from Estrogen Receptor alpha
13:50-14:00	Maria Zolotykh (Kazan, Russia): Germline genetic variants of ERBB3 in triple-negative breast cancer
14:00-14:10	Valeria Syromiatnikova (Kazan, Russia): Stimulation of full-thickness skin wound healing using chitosan-fibroin hydrogels in combination with plasmids encoding VEGF165A and FGF2 genes
14:10-14:20	Sergey Nikolayev (Kazan/Moscow, Russia): Application of multigene panels in

	hereditary cancer predisposition testing
14:20-14:30	Sevindzh Kletukhina (Kazan, Russia): Evaluation of microvesicles stability using the flow cytometry approach
14:30-15:00	Coffee break
Short talks (continue) (Chair: Nikita Markov, Bern, Switzerland)	
15:00-15:10	Irina Bogomolova (Kazan, Russia): Interleukin-8 overexpression in tumor modulates progression in colorectal cancer
15:10-15:20	Aleksei Ponomarev (Kazan, Russia): Evaluation of viability, cytokine profile changes and pluripotency genes of colorectal cancer spheroids cells after interaction with tumor and stem vesicles
15:20-15:30	Ilgiz Gataullin (Kazan, Russia): Regional features of the K-ras gene mutation in colorectal cancer
15:30-15:40	Raniya Khadiullina (Kazan, Russia): Reactivation of tumor suppressor p53 by aminobenzothiazole derivatives
15:40-15:50	Anastasia Burtseva (Kazan, Russia): The role of autophagy in Hashimoto's thyroiditis
15:50-16:00	Evgenii Guryev (Moscow, Russia): UCNP-based photoluminescent nanomedicines for theranostics of HER2-positive tumors
16:00-16:10	Maxim Pudovkin (Kazan, Russia): Ce ³⁺ , Tb ³⁺ :YF ₃ nanoparticle-polymer -“radaclorin” conjugates for X-ray induced photodynamic therapy
16:10-16:15	Hans-Uwe Simon (Bern, Switzerland/Kazan, Russia): Concluding remarks
16:15	End of the meeting

***Supported by the Russian Government Program for the Recruitment of the Leading Scientists into the Russian Institutions of Higher Education, Mega-grant # 075-15-2021-600**