



Russian–Taiwanese Symposium

NANOBIولوجY AND NANOMEDICINE



*3-5 November 2015, Institute Cytology and Genetics, Novosibirsk,
Prospect Lavrentyeva 10 (Conference Hall)*

PROGRAM

Day 1: Tuesday, 3 November 2015

Arrival

Hotel Check-In

Registration (Institute Cytology and Genetics)

Welcome Party

9:00-9:30	Opening Ceremony Introductory Speech
9:30-10:00	Self-assembling nanoconjugates with stimuli-responsive property for cancer theranostics Wang T.-W. Department of Materials Science and Engineering, National Tsing Hua University
10:00-10:30	Contribution of Ural Center for Shared Use “Modern Nanotechnology” to nanotoxicological research ¹ Shur V.Ya., ^{1,2} Tyurnina A.E., ¹ Kuznetsov D.K., ¹ Shishkina E.V., ¹ Vasileva D.S., ¹ Vazhenin V.A., ¹ Potapov A.P., ¹ Morozova M.V. ¹ Institute of Natural Sciences, Ural Federal University, Ekaterinburg ² UNIIM, Ekaterinburg, Russia
10:30-11:00	Synthesis Multifunctional Nanoparticles for Theranostic Applications Huang Y.-Y. Institute of Biomedical Engineering, National Taiwan University
11:00-11:30	Novel micelle-forming material used for preparing a theranostic vehicle exhibiting enhanced in vivo therapeutic efficacy Liu T.-Y. Department of Biomedical Engineering, National Yang-Ming University
11:30-12:00	Coffee break
12:00-12:30	Design of multifunctional teranostic agent based on surface-modified zero-valent iron nanoparticles Postnikov P. Tomsk Polytechnic University, Tomsk
12:30-13:00	Sequence-selective binding of oligonucleotides to superparamagnetic cobalt ferrite nanoparticles: A new way to fabricate functional nanoconjugates Pershina A. Siberian State Medical University, Tomsk
13:30-14:00	Towards nanoconstructions bearing biologically active oligonucleotides Pyshnyi D.V. Institute of Chemical Biology and Fundamental Medicine, Siberian Branch of Russian Academy of Sciences, Novosibirsk
14:00-15:00	Lunch

15:00-15:30	<p>Modulating Trastuzumab Density and Magnetic Targeting Duration of pH-sensitive Magnetic Nanocarriers for Synergistically Targeting to HER2-positive Breast Cancer Chen S. Y. Department Materials Science and Engineering, National Chiao Tung University</p>
15:30-16:00	<p>Bispecific Antibody Conjugated MnMEIO for HER2/neu- and EGFR-Expressing Tumor Imaging Hsu T. A. Institute of Biotechnology and Pharmaceutical Research</p>
16:00-16:30	<p>Gadolinium Nanoparticle as stem cell tracker for In-vivo Imaging Lin F. H. Institute of Biomedical Engineering and Nanomedicine, National Health Research Institutes</p>
16:30-17:00	<p>Coffee break</p>
17:00-17:30	<p>Vector peptide pHLIP linked with nanosized conjugates of superparamagnetic iron oxide as materials for MRI diagnostics Demin A. Institute of Organic Synthesis, Ural Branch of Russian Academy of Sciences, Ekaterinburg</p>
17:30-18:00	<p>Development of Magnetic Bioceramic Nanocrystals for Intracellular Hyperthermia Wu H.-C. Department of Materials Engineering, Tatung University</p>
18:00-18:30	<p>Long-term feeder-free and xeno-free culture of human pluripotent stem cells on biomaterials grafted with nanosegments Hikuchi A. Department of Chemical and Materials Engineering, National Central University</p>

9:00-9:30	Liposome of Herbal Extract for Anti-photo Skin Aging In-vitro Hsieh M.-F. Department of Biomedical Engineering, Chung Yuan Christian University
9:30-10:00	Inorganic Nanoporous Nanoparticles for Tooth Bleaching and Drug Delivery Systems Wu C.-W. Department of Chemical Engineering, National Taiwan University
10:00-10:30	Development of nanotechnology for therapy of metabolic and cardiovascular diseases Ahmedov Sh. Research Institute for Cardiology, Tomsk
10.30-11:00	Cytostatic content magnetosensitive composites of phospholipids in oncotherapy Fedushak T. Institute of Petroleum Chemistry, Siberian Branch of Russian Academy of Sciences, Tomsk
11:00-11:30	Coffee break
11:30-12:00	Anticancer agents based on human milk protein – Lactaptin Koval O.A. Institute of Chemical Biology and Fundamental Medicine, Siberian Branch of Russian Academy of Sciences, Novosibirsk
12:00-12:30	Platelet growth factors and platelet-derived microvesicles in regenerative medicine and xeno-free ex vivo cell expansion and cell therapy Burnouf T. Institute of Biomedical Materials and Tissue Engineering, Taipei Medical University
13:00-14:00	Lunch
14:30-15:00	Nanomaterial biological system interaction and their inspired biomedical applications Shieh D. B. Institute of Oral Medicine, National Cheng Kung University
15:00-15:30	Common patterns and some specific features of organism's responses to impacts of different metallic nanoparticles (a synopsis of results obtained in animal experiments by an inter-insititutional research group) 1Katsnelson B., 1Privalova L., 1Sutunkova M., 1Minigaliyeva I., 1Gurvich V., 2Shur V., 2Shishkina E., 3Valamina I., 3Makeyev O. et al 1The Medical Research Center for Prophylaxis and Health Protection in Industrial Workers, Ekaterinburg 2Center of Nanotechnology, Ural State University, Ekaterinburg 3Ural State Medical University, Ekaterinburg

15:30-16:00	<p>«Road map» for nose-to-brain transport of metal oxide nanoparticles ¹Romashenko A., ²Troitsky S., ¹Gerliskaya L., ¹Moshkin M. ¹The Federal Research Center "Institute Cytology and Genetics, Siberian Branch of Russian Academy of Sciences, Novosibirsk ²Boreskov Institute of Catalysis, Siberian Branch of Russian Academy of Sciences, Novosibirsk</p>
16:00-16:30	<p>Enhancing organism's resistance to general and specific adverse bio-activity of metallic nanoparticles: theoretical premises, experimental data, practical needs and possibilities ¹Katsnelson B., ¹Privalova L., ¹Sutunkova M., ¹Minigaliyeva I., ¹Gurvich V., ²Shur V., ²Shishkina E., ³Valamina I., ³Makeyev O. et al ¹The Medical Research Center for Prophylaxis and Health Protection in Industrial Workers, Ekaterinburg, ²Center of Nanotechnology, Ural State University, Ekaterinburg, ³Ural State Medical University, Ekaterinburg</p>
16:30-16:00	<p>Coffee break</p>
16:00-16:30	<p>Hypothermia induced by intranasal application of the metallic oxide nanoparticles ¹Petrovskii D., ²Troitsky S., ¹Romashenko A. ¹The Federal Research Center "Institute Cytology and Genetics, Siberian Branch of Russian Academy of Sciences, Novosibirsk ²Boreskov Institute of Catalysis, Siberian Branch of Russian Academy of Sciences, Novosibirsk</p>
16:30-17:00	<p>Nanoparticles in a cell: respectable visitors, or illegal migrants? Ryabchikova E., Razum K., Grigor'eva A., Pyshnaya I. Institute of Chemical Biology and Fundamental Medicine, Siberian Branch of Russian Academy of Sciences, Novosibirsk</p>
17:00-17:30	<p>Interactions of intracellular proteins and metallic oxide nanoparticles Moshkin Yu., Romashenko A. The Federal Research Center "Institute Cytology and Genetics, Siberian Branch of Russian Academy of Sciences, Novosibirsk</p>
19:00	<p>Farewell Party</p>