

**International conference on organic and medicinal chemistry dedicated to
Professor Gustavs VANAGS' 125 years anniversary
May 16-17, 2016, Riga**

Venue Albert Hotel, 33 Dzirnavu Street, RigaLV-1010, Latvia

Program

16.05.2016.

8.45-9.15 Registration

9.15-9.40 Opening remarks

Dr.Osvalds Pugovičs(Latvian Institute of Organic Synthesis, Riga, Latvia) Opening (5 min)

Prof.Maija Dambrova(Latvian Institute of Organic Synthesis, Riga, Latvia) "InnovaBaltProject" (5 min)

Prof.Jānis Stradiņš (Latvian Institute of Organic Synthesis, Latvian Academy of sciences, Riga, Latvia) "Riga Polytechnical Institute, Walden, Vanags, succession" (10 min)

9.40-11.05 Session - From past to future

Prof.Gunārs Duburs (Latvian Institute of Organic Synthesis, Riga, Latvia)"Prof.G.Vanags and innovations" (25 min)

Prof.Andris Zicmanis(University of Latvia, Riga, Latvia) "Prof.G.Vanags and ionic liquids" (20 min)

Prof.Valdis Kampars, Mg.chem. Ilze Māliņa (Riga Technical University, Riga, Latvia) "Use of cyclic β,β' -triketones in synthesis of novel luminophores" (20 min)

Dr.Gunārs Tirzītis (Latvian Institute of Organic Synthesis, Riga, Latvia) "Indandione – past, present and future" (20 min)

11.05-11.35 Coffee break

11.35-13.25 Session – Organic synthesis

Prof. Dieter Schinzer (Otto-von-Guericke-University, Magdeburg, Germany) "Translating organic synthesis into therapeutic products" (55 min)

Prof.Marijan Kočevar (University of Ljubljana, Ljubljana, Slovenia) "Synthetic potential of some heterocyclic compounds" (55 min)

Dr.Ronalds Zemribo (Latvian Institute of Organic Synthesis, Riga, Latvia) "Novel applications of Ireland-Claisen rearrangement in the total syntheses of natural compounds" (20 min)

13.25-14.25 Lunch

14.25-16.05 Session – Rational approach to drug discovery in neuroscience

Prof., Dr.Povl Krogsgaard-Larsen (University of Copenhagen, Copenhagen, Denmark) "Heterocyclic bioisosterism: mushroom toxins, GABA and glutamate" (50 min)

Dr. Sarah Skerratt (Pfizer, Neusentis, Cambridge, UK) „The discovery of PF-06273340: A potent, selective and peripherally restricted pan-Trk inhibitor for pain" (50 min)

16.05-16.35 Coffee break

16.50 Departure to the memorial site for Professor Gustavs Vanags

17.20 Floral tribute at the memorial site for Professor Gustavs Vanags and Dr. Elga Vanaga

17.05.2016.

9.00-10.30 Session – Nanoparticles

Prof. Dr. Alf Lamprecht (University of Besançon, France University of Bonn, Germany) “Particulate drug delivery systems for anti-inflammatory therapy” (30 min)

Prof. Dr. Gabriel Dimofte (University of Medicine and Pharmacy "Gr. T. Popa" Iasi, Romania) “Delivering ferric nanoparticles to subthreshold modified liver tissue - problems and solutions” (30 min)

Prof. Emanuelle Papini (University of Padova, Italy) “Specific proteins of the human plasma critically influence the cytotoxic, inflammatory and stealth properties of naked and polymer-coated nanoparticles” (30 min)

10.30-11.00 Coffee break

11.00-11.45 **Prof. Rumiana Koynova, Prof. Boris Tenchov** (Ohio State University College of Pharmacy, USA; Medical University – Sofia, Sofia, Bulgaria) “Optimizing nucleic acid delivery: cationic phospholipid structure/transfection activity relationships” (45 min)

11.45-12.55 Session – Stem Cells, Regenerative Medicine

Dr. Dennis Schade (TU Dortmund, Germany) "Small molecules for stem cells and heart regeneration" (40 min)

Prof. Dr. Ralf Weberskirch (TU Dortmund, Germany) “Synthesis of Hydrogels for 2D and 3D Cell Experiments” (30 min)

13.00-14.00 Lunch

14.00-15.30 **Dr. Tomo Saric** (University of Cologne, Germany) “Selective elimination of tumorigenic stem cells from therapeutic cell preparations using small molecules” (30 min)

Dr. Jared Sternecker (CRDT Dresden, Germany) “Identifying neuroprotective compounds using stem cell-based models of neurodegeneration” (30 min)

Dr. Gerald Dräger (REBIRTH Centre, Hannover, Germany) “Towards Biocompatible Medical Devices and Artificial Extracellular Matrices” (30 min)

15.30-16.00 Coffee break

16.00-17.00 Session – Bioprotectors

Prof. Nikolajs Sjakste (Latvian Institute of Organic Synthesis, Riga, Latvia) “Unusual effects of unusual 1,4-dihydropyridines” (30 min)

Dr. Alexander Slukvin, Dr. Tatyana Kuzhir, Prof. Roza Goncharova (Institute of Genetics and Cytology, Nat. Academy Sciences of Belarus, Minsk, Belarus) “Antimutagens and bioprotectors of dihydropyridine series” (30 min)