



**IV Russian-Finnish Symposium**  
**“Academy and industry cooperation: from science to business”**  
**(In the frame of the “Northern Growth Zone Project”)**  
**October, 19-20, 2017, St. Petersburg**

**PROGRAM**

**October, 19.**

**Presentation of the Russian-Finnish Life Sciences Center**

**Venue: SPCPA, prof. Popova, 4 / prof. Popova 14 –main building**

**09:30 – 12.00** Tours for members of Finnish delegation on Russian –Finnish Life Science Center, GMP Training Center, Center of Drug Quality Control, vivarium, Engineering Center at Techno park. Members of the delegation can choose visits in accordance with their interest and will be escorted by English speaking SPCPA volunteers.

**12.30-13.30** Lunch at Gyuet Hotel (participants own budget)

**14.30-15.30**

Presentation of the RFLSC with live stream press-conference in Turku. Presenters: K. Väänänen, rector, UTU, I.Narkevich, rector, SPCPA, N.Sandler, vice-rector, AA University. Participants: A. Lammila, Council General of Finland in SP (invited), members of the Finnish delegation, representative of SP pharmaceutical business community, mass-media

**16:00 – 17:00** Business –class for young entrepreneurs “How to create business idea” by Tero Karhi and Teppo Laaksonen, Turku Science Park

**16.20-17.20** Session of the SPCPA Scientific Council and nomination to UTU Rector K. Vaananen decree of “SPCPA Honorary Professor”  
Session will be attended officials from St Petersburg and Turku, members of the Finnish delegation

**18.30** Furshet for Finnish delegation and SPCPA participants at Hotel Guyet (hosed by SPCPA, UTU and AA)

## **October, 20, IV Russian-Finnish Symposium**

**Venue: St Petersburg, Lenexpo complex, Pavilion 4, Vasilevsky Island**

**9.30-10.00** Registration, coffee

**10.00-10.20** Welcome.

- **Sergei Movchan, Vice-Governor of St.-Petersburg**
- **Igor Narkevich, rector, SPCPA,**
- **Kalervo Väänänen, rector, UTU**

**10.20-11.40. Session I «Joint international projects: science and academic mobility» (session languages are English and Russian, simultaneous translation is provided)**

Moderators:

Elena Flisyuk, vice-rector, SPCPA

Niklas Sandler, vice-rector for research affairs, Abo Akademi University

Speakers:

1. “Features of the formation and pharmacotherapy of comorbid liver lesions”.  
**Prof. Sergei Okovity, SPCPA.**
2. “Nanoencapsulation of enzymes into inorganic carrier systems”.  
**Prof. Jessica Rosenholm, Abo Academy**
3. “Increase of bioavailability of nanosystem entrapped betulin for endotracheal administration”.  
**Prof. Alexander Shikov, St.-Petersburg Pharmacy Institute**
4. “Background of creating pharmacological agents for the target differentiation of resident myocardial stem cells”.  
**Prof. Alexander Tukavin, SPCPA.**
5. "Harnessing microbial chemical communication for production of pharmaceuticals and diagnostic tools".  
**Dr. Mikko Metsä-Ketelä, UTU**

**11.40-12.00. Coffe-breack and Poster Session**

**12.00-13.30. Session II «Drugs of natural origin: from research to practical pharmacy» (session languages are English and Russian, simultaneous translation is provided)**

Moderator: Maria Povydysh, head R&D, SPCPA

Speakers:

1. «International Phytoplatform: concept and first achievements».  
**Vladimir Luzhanin**, vice-rector, SPCPA.
2. «Plant cell cultures as the basis of modern innovative biotechnologies for obtaining biologically active substances of secondary plant metabolism».  
**Prof. Alexander Nosov**, Timiryazev Institute of Plant Physiology, RAS, Moscow.
3. «Synthetic modification of bioactive natural products».  
**Dr. Patrik Eklund**, Abo Academy
4. «Assessment of pharmacological targets for natural compounds by network pharmacology and biological activity spectra prediction».  
**Prof. Alexey Lagunin**, Pirogov Russian National Research Medical University, Moscow
5. «Development and practice of technologies of closed water supply for cultivation of various species of fish and plants».  
**Alexander Yakovlev**, Pharmaceutical Company «Grumant, Ltd.», Velikiy Novgorod.
6. **Sergey Melnikov**, Pharmaceutical Company «Samson-med», Saint-Petersburg (topic TBC)

### **13.30-14.15. Lunch / Poster presentation**

### **14.15-16.15. Session III. «New approaches in drug development and analysis» (Session languages are English and Russian, simultaneous translation is provided)**

Moderator: Ferdinand Molnar, University of Eastern Finland

Speakers:

1. «PET imaging in drug development and neuroscience research».  
**Dr. Francisco Rafael López Picón**, UTU
2. «Conjugate Group-Induced in vivo-Targeting of Oligonucleotides, Monitored by PET».  
**Prof. Pasi Virta**, UTU
3. «Dynamic Combinatorial Chemistry: an opportunity of synthesizing drug molecules while binding».  
**Dr. Jianwei Li**, UTU
4. «Novel DNA-templated Chemical Ligation».  
**Dr. Heidi Korhonen**, UTU
5. «Synthesis of 2,6-diaryl-pyrimidine and -pyrimidin-4-one».  
**Lonnqvist Jan-Erik Stefan**, Abo Academy
6. «Mesoporous Silica Nanoparticle-Based Protein Delivery Systems for Biomedical Applications».  
**Tu Jing**, Abo Academy
7. «Characterization of modified mesoporous silica nanoparticles as vectors for siRNA delivery».  
**Anna Slita**, Abo Academy
8. «Printed dosage forms on electrospun fiber matrices for oromucosal drug delivery».  
**Palo Mirja**, Abo Academy

- 9.«Preclinical development of PET radiopharmaceuticals for the detection of inflammation and cancer».  
**Olli Moisio**, UTU
- 10.«Production of polyphenols in Nordic berry cell cultures for nutritional and medical research».  
**Jussi Suvanto**, UTU.
- 11.«Adsorption of peptides on Silica surface: What interactions are involved».  
**Gounani Zahra**, Abo Academy
- 12.«Colorimetry as Quality Control tool for Pharmaceutical Inkjet Printed Formulations».  
**Wickstroem Henrika**, Abo Academy

**14.15.-16.15. Session III A (in parallel with Session III)**  
**«Reports by young scientists» (session language is English)**

**Moderator: Oksana Terenteva, PhD student, SPCPA**

**Speakers:**

1. «Phytochemical analysis of *Rubus chamaemorus*».  
**Andrei Whaley**, SPCPA
2. «The effects of NPY overexpression on the doxorubicin-induced cardiomyopathy».  
**Minttu Mattila**, UTU
3. «Research on the technology of obtaining a fast-soluble kiesel from different extracts of *Empetrum nigrum*».  
**Sergey Belokurov**, SPCPA
4. «Immobilization of enzymes in silica nanorods».  
**Alexandra Omelianova**, SPCPA,
5. «Hydroxysteroid (17beta) Dehydrogenase 13 Deficiency Triggers Hepatic Steatosis And Inflammation In Mice».  
**Hanna Heikelä**, UTU.
6. «Targeted quantitation of anthelmintic ellagitannins by UPLC-MS/MS».  
**Sanjib Saha**, UTU
7. «Utilization of high resolution UPLC-Orbitrap-MS and quantitative UPLC-QqQ-MS/MS technique in the analysis of anthelmintic proanthocyanidin oligomers».  
**Milla Leppä**, UTU
8. «Device for fastening of weighting agent to small laboratory animals».  
**Konstantin Gusev**, SPCPA
9. «Studies on DNA and RNA Triplexes Characterised by 19F NMR Spectroscopy».  
**Ville Tähtinen**, UTU
10. «Glycosylation of 2-aryl-6-hydroxy-4-pyrimidinone».  
**Robert Lassfolk**, Abo Academy
11. «The neuroprotective properties of new cholinergic and adrenergic compounds in the rat traumatic brain injury model».  
**Yuriy Sysoev**, SPCPA
12. «Notch Activity in Breast Cancer Stem Cells by Glucose Functionalized Nanoparticles Carrying Gamma-Secretase Inhibitors».  
**Ozliseli Ezgi**, Abo Academy

**16.15. Symposium conclusion**