

2nd Symposium on *Nanoparticles in Biomedical Applications*

Date: 13 December 2022

Place: Biomedicum, Room D1012

Time: 9.00-17.30

PROGRAM

09:00-09:10	Alexandra Teleki: Welcome from <i>Pharmaceutical Nanotechnology Laboratory</i>
09:10-09:20	Georgios A. Sotiriou: Welcome from <i>Bionanomaterial Technology Laboratory</i>
09:20-10:00	Keynote 1: Prof. Frantisek Stepanek, <i>Lipid-coated pharmaceutical nanocrystals: Wolf in a sheep's clothing</i> , University of Chemistry and Technology in Prague
10:00-10:20	Shno Asad, <i>Click chemistry-based bioconjugation of iron oxide nanoparticles</i> , UU
10:20-10:40	Anshika Maheshwari, <i>Calcium phosphate nanoparticles as potential vaccine carriers</i> , KI
10:40-11:00	Break
11:00-11:20	Haipeng Li, <i>Fabricating high-performance SERS sensors for rapid and easy-to-use detection of pesticides and antibiotics</i> , KI
11:20-11:40	Yuming Zhang, <i>Magnetic hyperthermia in biosimilar colonic tumor environment using silica-coated superparamagnetic iron oxide nanoparticles</i> , UU
11:40-12:00	Namrata Singh, <i>Modulation of Mitochondrial Function and ATP Synthesis in Neuronal Cells by Metallonanozymes</i> , KI
12:00-13:00	Lunch (provided)
13:00-13:40	Keynote 2: Prof. Muhammet Toprak, <i>Colloidal nanoparticles developed for biomedical applications</i> , KTH
13:40-14:00	Shaquib Rahman Ansari, <i>Engineering magnetic microcomposites for bacterial biofilm eradication</i> , UU
14:00-14:20	Padryk Merkl, <i>Point-of-Care Diagnostic Ammonia Sensing by Responsive Silver Nanoparticles</i> , KI
14:20-14:40	Yael del Carmen Suárez Lopez, <i>In vitro simulation of inflammatory bowel disease for investigating nanoparticle stability</i> , UU
14:40-15:00	Break
15:00-15:20	Felix Geissel, <i>Flame made nanostructured implant coatings to fight antimicrobial resistance</i> , KI
15:20-15:40	Hannah Pohlit, <i>Do digestion products of lipid-based formulations influence compound permeability across the intestinal barrier</i> , SweDeliver, UU
15:40-16:00	Giovanni Marco Saladino, <i>Hybrid Nanoparticles for XRF bioimaging</i> , KTH
16:00-16:20	Break
16:20-16:40	Paarkavi Udayakumar, <i>Antifungal formulations in a microneedle-based vaginal drug delivery system</i> , UU
16:40-17:00	Stefanie Dietl, <i>Prevention of biofilm formation by hydrophobic inorganic nanocoatings</i> , KI
17:00-17:20	Malhar Pathare, <i>Extrusion-based 3D printing of Pickering emulsions stabilized by SiO₂ nanoparticles</i> , UU
17:20-17:30	Concluding remarks
17:30-23:00	Dinner at Faculty Club, Biomedicum 10 th floor and Table soccer tournament

Warm welcome!

Alexandra Teleki, Uppsala University & Georgios A. Sotiriou, Karolinska Institutet