

## Session 5, Monday 11:30-14:00, Stream 2

Small speeches on Submitted Posters 2022

Chair: Dr. Sc. Nat. Ruth Schmid, SINTEF AS

(4 min. presentations)

- 1. Laila Arabi, Mashad University of Medical Sciences, Iran**  
*Liposomal Celecoxib combined with dendritic cell therapy in B16F10 mouse model for melanoma*
- 2. Lekshmi Kumar, AIMS Pnakkari Kochi, India**  
*Phycocyanin sorafenib nanoformulation with enhanced oral bioavailability and anti-tumor efficacy against FLT3-ITD acute myeloid leukemia*
- 3. Arathyram Ramachandra, University of Birmingham, UK**  
*Development of self-powered multifunctional piezomagnetic nanoparticles for non-invasive BBB modulation and glioblastoma treatment*
- 4. Jenny Schunke, University Medical Center of the Johannes Gutenberg University Mainz, Germany**  
*Multicomponent adjuvantation of antigen-based nanocapsules using site-directed click chemistry crosslinking for the treatment of melanoma*
- 5. Valeria Sidorenko, University of Tartu, Estonia**  
*Tumor-penetrating utorubicin polymersomes for cancer therapy*
- 6. Katharina Spyridopoulou, Democritus University of Thrace, Greece**  
*Diverse bioactivities of biogenic senps spur cancer cell-based vaccine potential*
- 7. Shiqi Wang, University of Helsinki, Finland**  
*A polyoxometalate incorporating, injectable hydrogel with pH- and NIR-responsiveness for chemo-photo-thermal therapy*
- 8. Ahmad Bahlool, Royal College of Surgeons in Ireland (RCSI), Ireland**  
*Development of inhalable retinoic acid-loaded polymeric nanoparticles as targeted host directed immunotherapy for mycobacterium tuberculosis*
- 9. Carolina Medina-Montana, University Medical Center of the Johannes Gutenberg University Mainz, Germany**  
*Biological effects of systemically administered TLR7/8 agonist and antigen-conjugated nanogels on immune cell populations in the liver and in the spleen*
- 10. Yanira Zeyn, University Medical Center of the Johannes Gutenberg University Mainz, Germany**  
*Comparative analysis of nucleic acid-based adjuvants for the activation of dendritic cells to improve nano-vaccines*
- 11. Michael Fichter, University Medical Center of the Johannes Gutenberg University Mainz, Germany**  
*Achieving dendritic cell subset-specific targeting in vivo by site-directed conjugation of targeting antibodies to nanocarriers*

- 12. Hanmant Gaikwad, University of Colorado, US**  
*Lipid nanoparticle formulation of niclosamide (nano NCM) effectively inhibits SARS-COV-2 replication in vitro*
- 13. Giovanni Settanni, Johannes Gutenberg University Mainz, Germany**  
*pH-dependent behaviour of ionizable cationic lipids in mRNA-carrying lipoplexes investigated by molecular dynamics simulations*
- 14. Piotr Tarach, University of Lodz, Poland**  
*Application of lysine-based peptide dendrimers D3K2, D3R2, and D3H2 for gene delivery: A functional transfection study in vitro*
- 15. Alice Spadea, University of Manchester, UK**  
*Novel insights on endosomal escape of lipid nanoparticles using reflectometry techniques*
- 16. Aldona Mzyk, UMCG/RUG Groningen, The Netherlands**  
*Nanodiamond magnetometry for real-time monitoring of drug efficiency in arthritis treatment*
- 17. Eduard Gatin, University of Bucharest, Romania**  
*A new approach of bone evaluation in oral regenerative surgery based on Raman Spectroscopy. Ex vivo and in vivo evaluation, viable alternative to histology*
- 18. Shunping Han, King's College London, UK**  
*Comparative analyses of gold nanorod uptake in mice brain after intranasal administration*
- 19. Revadee Liam-Or, King's College London, UK**  
*Culturing Conditions of Mesenchymal Stem Cells derived Exosomes alter their Protein Corona Formation, Cellular Uptake and in vivo Organ Biodistribution*
- 20. Danielle Brain, University of Liverpool, UK**  
*Assessment of cell phenotype following repeat exposure to NRTIS: FTC and 3TC*
- 21. Mareike Deuker, Max Planck Institute for Polymer Research, Germany**  
*Interaction of nanocarriers with anti-PEG antibodies*
- 22. Bettina Heiss, Hospital of University of Munich, Germany**  
*Enhancing drug efficacy with a heat-activated drug-delivery platform based on phosphatidyl-(oligo)-glycerol nanocarrier*
- 23. Valentina Francia, University of Basel, Switzerland**  
*Development of a liposomal nanoformulation for the treatment of lysosomal storage diseases*
- 24. Manuela Gaspar, University of Lisboa, Portugal**  
*Liposomes - a highly efficient drug delivery system for different clinical applications*
- 25. Satinderdeep Kaur, Nottingham Trent University, UK**  
*Mechanism behind selective infiltration of lipid nanoparticles in the spleen following ischemic stroke*
- 26. Soraia Pinto, i3S, University of Porto, Portugal**  
*FCRN-targeted nanomedicines for intestinal delivery of an antidiabetic peptide*
- 27. Elena Gardey, Jena University Hospital, Germany**

*Selective uptake into inflamed human intestinal tissue and immune cell targeting by wormlike polymer micelles*

**28. Emilie Laprévotte, Perseo Pharma AG, Switzerland**

*Gut-homing stable enzyme activities to develop efficient digestive therapies*

**29. Rafal Baker, King's College London, UK**

*Nose-to-brain delivery of riluzole-loaded polymeric nanoparticles for the treatment of amyotrophic lateral sclerosis*

**30. Chinazom Agbo, University of Nigeria, Nigeria**

*Chitosan-based quinine thermosensitive gels for the intranasal treatment of cerebral malaria in rural areas in sub-saharan africa*