



10th European Workshop on Particulate Systems (EWPS)

Program, list of participants and abstracts

January 19th -20th, Auditorium 3, Building 12.1.106, Universitetsparken 2, 2100
Copenhagen O, Denmark



2017

Thursday, January 19th

12:30 Registration and sandwich

13:30 Welcome and introduction, Camilla Foged

13:50 Session 1: Liposomes, micelles and cubosomes, Chair: Hanne Mørck Nielsen

13:50 Lenea Kontturi (Utrecht): Indocyanine Green Loaded Liposomes for Light Triggered Drug Release

14:10 Intan DM Azmi (Copenhagen): Citrem-Phospholipid Liquid Crystalline Nano-Assemblies: Shaping Future Nanopharmaceuticals

14:30 Marzieh Najafi (Utrecht): Core Crosslinking of Flower Like Micelles Using Native Chemical Ligation

14:50 Aghiad Gazal (Copenhagen): Combination of Small-Angle X-Ray Scattering With Microfluidics for Monitoring Calcium-Triggered Structural Alterations in Cubosomes

15:10 Feilong Sun (Utrecht): Influence of PEGylation on the Stability of Vitamin-K Loaded Mixed Micelles And Uptake / Transport By Caco-2 Cells

15:30 Sun Min Pyo (Berlin/Marburg): SmartPearls[®] for Optimized Topical Delivery of Poorly Soluble Amorphous Actives

15:50 Coffee break and poster session (presenters present)

16:30 Session 2: Nucleic acid delivery, Chair: Gert Storm

16:30 Lotte Vermeulen (Ghent): Effect of Cellular Properties on Endosomal Escape Efficiency

16:50 Xianghui Zeng (Copenhagen): siRNA-Based Treatment of Rheumatoid Arthritis

17:10 Lasse Hyldgaard Klausen (Copenhagen): Cryo-Correlative Light and Electron Microscopy

17:30 Monica Agnoletti (Copenhagen): Inhalable siRNA-Loaded Nano-Embedded Microparticles Engineered Using Microfluidics and Spray Drying

17:50 Kaushik Thanki (Copenhagen): Efficient Pulmonary Delivery of siRNA Using Lipid-Polymer Hybrid Nanoparticles (LPNs): Insights in to Formulation, Transfection And In Vivo Biodistribution Using NIR-Based Spatio-Temporal Tracking

20:00 Dinner, Restaurant Tårnet, Christiansborg:

<http://taarnet.dk/restauranten/?lang=en>

Friday, January 20th

9:00 Lecture by Prof. Urs Hafeli: Importance of Molecular Weight and Size for Drug Targeting in Nanomedicine

9:45 Session 3: Vaccine delivery, Chair: Florence Delie

9:45 Signe Tandrup Schmidt (Copenhagen): Design of an Emulsion-Based Vaccine Adjuvant for the Induction of Cytotoxic T-Cell Responses

10:05 Fabrice Rose (Copenhagen): Unusual Self-Assembly of the Recombinant *Chlamydia trachomatis* Major Outer Membrane Protein (MOMP)-based Fusion Antigen CTH522 into Well-Defined Protein Nanoparticles

10:25 Aneesh Thakur (Copenhagen): Spray Drying of a Subunit Vaccine H56/CAF01 Preserves Antigen-Specific TH1 and TH17 Responses

10:45 Coffee break

11:00 Session 4: Cancer immunotherapy and imaging, Chair: Sven Frøkjær

11:00 Cédric Thauvin (Geneva): Biosensitive Nanocarriers in Cancer Immunotherapy: a Novel Approach to Improve the Systemic Delivery of Immunostimulating Agents

11:20 Rein Verbeke (Ghent): Messenger RNA Lipoplex-Mediated Cancer Immunotherapy

11:40 Mathew Hembury (Utrecht): Gold Quantum Dot-Decorated Micelles for Multimodal Imaging And Therapy

12:00 Stella-Saphira Ehrenberger (Geneva): Targeting of Theranostic Iron Oxide Nanoparticles Towards Lymph Node Metastases

12:20 Lunch

13:00 Poster session (two parallel sessions A/B): Chair: Marco van de Weert

Poster session A:

13.00/14.00 Bruno Borro (Copenhagen): Flickering Analysis Reveals an Enhanced Membrane Flexibility in Presence of Protein Oligomers and Amyloid-Like Fibrils

13.10/14.10 Bettina Schwarz (Geneva): Functionalized Nanoparticles in Cancer Immunotherapy: Towards A Sustained Release of Resiquimod

13.20/14.20 Francesca Gavins (Copenhagen): Design of a Mucosal Adjuvant Based On Chitosan-Coated Lipid-Polymer Hybrid Nanoparticles for Vaccination Against Chlamydia

13.30/14.30 Pascal Stahr (Marburg): Flavonoid Nanocrystals for Treatment of COPD

13.40/14.40 Wim Hennink (Utrecht): Liposomal Rapamycin as a Targeted Formulation Directed to Glomerular Endothelial Cells

13.50/14.50 Wim Hennink (Utrecht): Embedding of Gefitinib-Loaded Polymeric Microspheres in a Polyurethane Stent Coating

Poster session B:

- 13.00/14.00 Daniel Knoth (Marburg): Enhanced Physical Stability Testing of Nanocrystals with an Analytical Centrifuge
- 13.10/14.10 Florian Stumpf (Marburg): Tablets Made From Paper – is it Possible?
- 13.20/14.20 Veronica Martini (Copenhagen): A Quality-By-Design Approach for the Design of a Thermostable Tuberculosis Vaccine for Inhalation
- 13.30/14.30 Emily Falkenberg (Copenhagen): Synthesis and Characterisation of an Array of Lipidoid Analogues for RNA Interference Therapy
- 13.40/14.40 Gert Storm (Utrecht): Development of Methodology for the Separation and Quantification of Liposome-Bound and Free Drug in Plasma
- 13.50/14.50 Gert Storm (Utrecht): Critical Evaluation of Quantification Methods for Oligonucleotides in Lipid Nanoparticles

15:10 Session 5: PLGA nano- and microparticles, Chair: Cornelia Keck

- 15:10 Ioanna Mylonaki (Geneva): PLGA Microparticle and Hyaluronic Acid Gel Formulation for Perivascular Statin Delivery
- 15:30 Donglei Leng (Copenhagen): Preparation of Budesonide-Loaded PLGA Nanoparticles Intended for the Treatment of Inflammation

15:50 Coffee break

16:20 Session 6: Antibiotics and protein delivery, Chair: Rainer Müller

- 16:20 Stine Harloff-Helleberg (Copenhagen): Sucrose Ester-Based Gels as Carriers for Oral Delivery of Biopharmaceuticals
- 16:40 Feng Wan (Copenhagen): Improved Drug Delivery to Bacterial Biofilm Using Lipid-Enveloped Polymeric Nanoparticles
- 17:00 Jeffrey Ritsema (Utrecht): Design and Characterization of Antibiotic-Loaded Nanoparticulate Systems Based on Aliphatic Polyesters

PARTICIPANTS EWPS 2017

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	Surname	First Name	Group
1	Hafeli	Urs	Hafeli group, Copenhagen
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17	Schwarz	Bettina	Geneva group
18	Thauvin	Cédric	Geneva group
19	Ehrenberger	Stella-Saphira	Geneva group
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