

## Monday, September 12, 2022

### Welcome

- 8:00 – 9:00 (CEST)      **Registration**
- 9:00                      **Address of Welcome**  
Professor Dr. Alfred Blume (President PRC)  
PD Dr. habil. Simon Drescher (Managing Director PRC)

### Session 1: Advances in Gene Delivery – What comes next?

Chairman: Prof. Dr. Alfred Blume

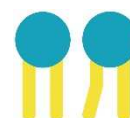
- 9:10 – 9:40              **Targeted lipid nanoparticles going beyond the liver:  
Form vaccines to genome editing**  
Prof. Dr. Dan Peer – Tel Aviv University/Israel
- 9:40 – 9:55              **Improved in-vitro transfectivity by incorporation of archaeal lipids  
in lipid nanoparticles**  
Viktor Sedlmayr – Vienna University of Technology/Austria  
Dr. David Wurm – NovoArc GmbH, Vienna/Austria
- 9:55 – 10:25            **Translational models to study lipid-based gene delivery systems**  
Prof. Dr. Jörg Huwlyer – University of Basel, Basel/Switzerland
- 10:25 – 11:00          **Coffee Break**  
Poster Session and Industrial Exhibition



### Session 2: RNA Vaccines and Analytics | Pathogens

Chairman: Dr. Peter Hölig

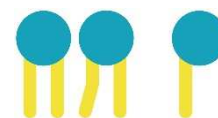
- 11:00 – 11:30            **Lipid nanoparticles for RNA delivery: can self-assembling platform foster  
technology transfer and clinical use**  
Prof. Dr. Giuseppe De Rosa – University Federico II of Naples/Italy
- 11:30 – 12:00            **Simultaneous quantification of multiple RNA cargoes co-loaded into  
nanoparticle-based delivery systems**  
Prof. Dr. Camilla Foged – University of Copenhagen/Denmark
- 12:00 – 12:15            **Rifabutin liposomes as an effective strategy to overcome antibiotic  
resistance of *Staphylococcus aureus* infections**  
Dr. Jacinta Pinho – University of Lisbon/Portugal
- 12:15 – 12:30            **Membrane interaction of virulence factors of intracellular pathogens  
studied with time-resolved and high-resolution atomic force microscopy**  
Dr. Christian Nehls – Research Center Borstel/Germany
- 12:30 – 14:00          **Lunch**  
Poster Session and Industrial Exhibition



## Session 3: Advances in Parenteral Use of Phospholipids

Chairman: PD Dr. Peter van Hoogevest

- 14:00 – 14:30 (CEST) **Extending the use of phospholipids: Phospholipid extrudates and anti-inflammatory phospholipid dispersions**  
Prof. Dr. Karsten Mäder  
Martin Luther University Halle-Wittenberg, Halle (Saale)/Germany
- 14:30 – 14:45 **Effect of novel thermoresponsive liquid crystal systems on fluidity of phospholipid membranes**  
Prof. Dr. Iryna Kravchenko – Helmholtz Institute for Pharmaceutical Research Saarland, Saarbrücken/Germany
- 14:45 – 15:00 **Optical Control of Neuronal Activities with Photoswitchable Nanovesicles**  
Prof. Dr. Zhengpen Qin  
The University of Texas at Dallas/USA
- 15:00 – 15:30 **Osteoimmunomodulatory liposome/GelMA coatings for orthopedic implants**  
Prof. Dr. Enrico Mastrobattista  
University of Utrecht/The Netherlands
- 15:35 **Group photo**
- 15:45 – 16:30 **Coffee Break**  
Poster Session and Industrial Exhibition



## Session 4: Phospholipids in Industry

Chairman: Dr. Frank Martin / PD Dr. habil. Simon Drescher

- 16:30 – 17:00 **Quality requirements for phospholipid excipients in liposomal formulations**  
Dr. Michael Radius  
Lipoid GmbH, Ludwigshafen/Germany
- 17:00 – 17:30 **Mechanosensitive liposomes**  
Dr. Andreas Zumbühl  
Acthera Therapeutics, Basel/Switzerland
- 17:30 – 18:00 **Structural Features of Lipid Nanoparticle Formulations of Nucleic Acid**  
Dr. Jayesh A. Kulkarni  
NanoVation Therapeutics, Vancouver/Canada
- 18:00 – 21:00 **Come Together – Networking**  
Poster Session and Industrial Exhibition

**End of Day 1**



## Tuesday, September 13, 2022

### Young Session

Chairman: Prof. Dr. Paola Luciani

9:00 – 10:00 (CEST) **Presentation of Best Posters**  
The scientists of six pre-selected posters are invited to give an 8 min (max) lecture

10:00 – 11:00 **Coffee Break**  
Poster Session and Industrial Exhibition



### Session 5: Phospholipids in Cancer Treatment

Chairmen: Prof. Dr. Gert Storm

11:00 – 11:30 **Spatiotemporal controlled drug delivery with light- and radiotherapy-responsive liposomes**  
Dr. Mans Broekgaarden – National Institute of Health and Medical Research, Grenoble-Alpes University/France

11:30 – 11:45 **Liposomes as a successful tool for colon cancer management: exploring metal-based complexes as aquaporin inhibitors**  
Dr. Maria Manuela Gaspar – University of Lisbon/Portugal

11:45 – 12:15 **Liposomal vincristine delivery targeted to pediatric rhabdomyosarcoma**  
PD Dr. Michele Bernasconi – Inselspital Bern University Hospital and University of Bern/Switzerland

12:15 – 12:30 **Lipodisks for dual delivery of chemotherapeutic drugs and anti-cancer peptides**  
Luís Silva – Uppsala University/Sweden

12:30 – 13:00 **Multimomics-assisted discovery of cell fate-determining phospholipids with potential in supportive anti-leukemic therapy**  
Prof. Dr. Andreas Koeberle – Michael Popp Institute, University of Innsbruck/Austria

13:00 – 14:30 **Lunch & Coffee**  
Poster Session and Industrial Exhibition



## Award Ceremony

14:30 – 14:45 (CEST)	<b>Poster Award</b> Presented by Prof. Dr. Paola Luciani
14:45 – 15:15	<b>Thudichum Young Scientist Award for the Most Outstanding Publications</b> Lecture of the award winner Presented by Prof. Dr. Paola Luciani
15:15 – 16:00	<b>Thudichum Life Award</b> Lecture of the award winner Presented by Prof. Dr. Alfred Blume / Dr. Herbert Rebmann
16:00	<b>Concluding Remarks</b>

## End of Symposium

### 7<sup>th</sup> International Symposium on Phospholipids in Pharmaceutical Research

