

RESEARCHER'S DAY 2018

Phospholipid Research Center June 25th, 2018

Dermal Application of Phospholipids

Monday, June 25th, 2018, Residenz Hotel, Limburgerhof/Germany

8.00 **Welcome & Registration**

8.30 **Address of Welcome**

by Prof. Dr. Alfred Blume (President of PRC) & PD Dr. P. van Hoogevest (Managing Director, PRC)
Room *Mannheim*

-Splitting in three Expert Groups-

Expert Group **Dermal Application of Phospholipids**

Chairman: Prof. Dr. Christel Müller-Goymann (Vice President of PRC)
Room *Ludwigshafen*

9.00 **Dermal Application of Phospholipids - An Introduction**
Prof. Dr. Alfred Fahr (PRC; Emeritus Professor University Jena/Germany)

9.30 **Lipid Analysis for Skin Penetration of Phospholipids**
Dr. Dorothea Gutekunst (R&D, Lipoid GmbH)

10.10 **Coffee Break**

10.40 **Influence of Phospholipid Composition on Emulsion Stability**
Felix Otto (Martin Luther University, Halle-Wittenberg/Germany)

Supervisor: Prof. Dr. Reinhard Neubert

11.20 **Pilotstudy: Effect of Lipidnano-Systems on Physiological Skin Parameters and Investigation of Skin Penetration via Tape Stripping**
Martin Bernhard Wolf (University of Vienna/Austria)

Supervisor: Prof. Dr. Claudia Valenta

12.00 **Lunch Break**

13.30 **Liposomes-In-Hydrogel Formulations for the Improved Topical Vaginal Therapy of Sexually-Transmitted Infections**
Prof. Dr. Zeljka Vanic (University of Zagreb/Kroatia)

14.10 **Investigation of Liposomal Transdermal Drug Delivery by Raman Microscopic Imaging in Combination with Stable Isotopic Labelling as a New Non-Invasive Modality to Study Drug Penetration**
Anna Mühlrig (Friedrich-Schiller-University, Jena/Germany)

Supervisor: Dr. Christian Matthäus

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14.50	Elektro-Spun Bioactive Wound Dressing Francis Kamau Mwiiri (Eberhard Karls University, Tübingen/Germany) Supervisor: Prof. Dr. Rolf Daniels
15.30	Coffee Break
16.00	Final Discussion Concluding Remarks by Prof. Dr. Gert Storm, Prof. Dr. Christel Müller-Goymann, Prof. Dr. Gert Fricker Chairman: Dr. Dorothea Gutekunst (PRC) Room <i>Mannheim</i>
16.45	End of Researcher's Day 2018
17.00	General Meeting of the PRC Members & Guests Room <i>Mannheim</i>
18.30	Dinner at <i>Residenz Hotel Limburgerhof</i>



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Oral Application of Phospholipids

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Room *Mannheim*

-Splitting in three Expert Groups-

Expert Group **Oral Application of Phospholipids**

Chairman: Prof. Dr. Gert Fricker (Scientific Advisory Council, PRC)

Room *Heidelberg*

9.00 **Oral Application of Phospholipids - An Introduction**

Dr. Peter van Hoogevest (Managing Director, PRC)

9.30 **Phospholipid-Based Liquid-Fill Formulations for Hard Capsules**

Linda Grüne (Technical University of Braunschweig/Germany)

Supervisor: Prof. Dr. Heike Bunjes

10.00 **Coffee Break**

10.30 **Treatment and Diagnosis of Early Gastric Cancer with Lipid Based Formulated Hypericin**

Tim Tremmel (Ruprecht-Karls-University of Heidelberg/Germany)

Supervisor: Prof. Dr. Gert Fricker

11.00 **Beyond Hot: Alternative Sources for Tetraether Lipids**

Dr. Alexander Treusch (University of Southern Denmark, Odense/Denmark)

11.30 **Functionalized Calcium Carbonate: A Strategy for Dissolution Enhancement in Oral Formulations**

Maryam Farzan (University of Basel/Switzerland)

Supervisor: Prof. Dr. Jörg Huwyler

12.00 **Lunch Break**

13.30 **Miscibility of Bipolar Amphiphiles with Conventional Phospholipids for Development of Stabilized Liposomes**

Dr. Simon Drescher (Martin Luther University of Halle-Wittenberg/Germany)



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- 14.00 Preparation and Characterization of Multi-Liposomal-Aggregates for Delivery of Antitubercular Drugs
Simona Sennato (CNR-ISC and La Sapienza University, Rome/Italy)
Supervisor: Prof. Dr. Maria Carafa
- 14.30 Extruded Phosphatidylcholine Matrices for Oral Controlled Delivery
Marina Kolbina (Freie Universität Berlin/Germany)
Supervisor: Prof. Dr. Roland Bodmeier
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- 15.30 **Coffee Break**
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- 16.00 **Final Discussion**
Concluding Remarks by Prof. Dr. Gert Storm, Prof. Dr. Christel Müller-Goymann, Prof. Dr. Gert Fricker
Chairman: Dr. Dorothea Gutekunst (PRC)
Room *Mannheim*
- 16.45 **End of Researcher's Day 2018**
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Parenteral Application of Phospholipids

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Room *Mannheim*

-Splitting in three Expert Groups-

Expert Group **Parenteral Application of Phospholipids**

Chairman: Prof. Dr. Gert Storm (Scientific Advisory Council, PRC)

Room *Mannheim*

9.00 **Parenteral Application of Phospholipids - An Introduction**
Prof. Dr. Gert Storm (PRC)

9.20 **Polymer-Bounded Nanodiscs as Phospholipid Carriers**
Prof. Dr. Sandro Keller (Technical University Kaiserslautern/Germany)

9.40 **Lipid-Based Therapeutics for Liver Fibrosis and their Impact on Extracellular Vesicles**
Cristina Zivko (Friedrich-Schiller-University, Jena/Germany)

Supervisor: Prof. Dr. Paola Luciani, Dr. Gregor Fuhrmann

10.00 **Coffee Break**

10.20 **Combination of Phosphatidylcholine-Bound Polyunsaturated Fatty Acids with Cytoskeleton-Targeting Drugs for Overcoming Akt-Dependent Tumor Resistance**
Konstantin Löser (Friedrich-Schiller-University, Jena/Germany)

Supervisor: PD Dr. Andreas Koeberle

10.40 **Lipid Nanovectors to Use Non-Coding RNA Oligonucleotides in Glioblastoma in Combination with Standard Therapy**
Virginia Campani (University of Naples Federico II/Italy)

Supervisor: Prof. Dr. Guiseppe de Rosa

11.00 **Phosphatidylserine Enriched Phospholipids as Anti-Inflammatory Agents**
Miriam Klein (Martin Luther University Halle Wittenberg/Germany)

Supervisor: Prof. Dr. Karsten Mäder & PD Dr. Annette Meister

11.20 **Evaluation of Cochleates as Parenteral Depot Formulations**
Sören Kristensen (University of Southern Denmark, Odense/Denmark)

Supervisor: Prof. Dr. Judith Kuntsche



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11.40	Investigations of Interfacial Behaviour of Phospholipid Suspensions and Oil Kirsten Ullmann (Karlsruhe Institute of Technology/Carl Gustav Carus-Institute, Karlsruhe/Germany) Supervisor: Prof. Dr. Herman Nirschl/Dr. Gero Leneweit
12.00	Lunch Break
13.30	In Vitro Efficacy of Liposomal Antioxidant and Antiflammatory Formulations Developed for Liver Ischemic Reperfusion Injury's Treatment Margarida Ferreira-Silva (University of Lisboa/Portugal) Supervisor: Prof. Dr. Luisa Corvo
13.50	Targeted Nanomedicine against Tumor-Associated Macrophages Praneeth Kuninty (University of Twente/The Netherlands) Supervisor: Dr. Jai Prakash
14.10	Development of a Phospholipid-Based Depot Technology for Sustained Drug Release Lisa Rahnfeld (Friedrich-Schiller-University, Jena/Germany) Supervisor: Prof. Dr. Paola Luciani
14.30	Lipid Phase Behaviour of Phospholipid-Coated Ultrasound Contrast Agents Simone Langeveld (Erasmus MC, Rotterdam/The Netherlands) Supervisor: Prof. Dr. Klazina Kooiman
14.50	Reconsidering the Mode of Action of Thermo-Responsive Liposomes Daniel Eckardt (University of Freiburg/Germany) Supervisor: Prof. Dr. Heiko Heerklotz
15.10	Development of Heat-Sensitive and Ultrasound-Sensitive Liposomal Nanocarriers for Macromolecular Toxins Maria Betania Carreira de Matos (Utrecht University/The Netherlands) Supervisor: Dr. Robbert Kok
15.30	Coffee Break
16.00	Final Discussion Concluding Remarks by Prof. Dr. Gert Storm, Prof. Dr. Christel Müller- Goymann, Prof. Dr. Gert Fricker Chairman: Dr. Dorothea Gutekunst (PRC) Room <i>Mannheim</i>



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