Controlled Release Society
Local Chapter Meeting

2019

Functional Biomaterials and Release of Nucleic Acid Drugs

March, 7th and 8th
at Leipzig University
23\textsuperscript{nd} Annual meeting at Leipzig University
7./8. March 2019
“Functional biomaterials and release of nucleic acid drugs”
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Conference Venue:

Universität Leipzig, Biotechnologisch-Biomedizinisches Zentrum (BBZ)
Deutscher Platz 5
04103 Leipzig

Parking is limited in the area
Nearest tram stop: Deutsche Nationalbibliothek.
Every 10 min, tram 16 drives from main station to Nationalbibliothek (11 min drive)

Wireless Internet access:

EDUROAM
Welcome Note

Dear Colleagues,

On behalf of the organizing committee and the executive board of the CRS Local Chapter Germany, I would like to welcome you to Leipzig for the CRS Local Chapter Meeting 2019. We are excited to host two days of thought-provoking discussions, both within and outside the scheduled sessions. More than 100 researchers, among them a large number of young scientists, will attend the meeting and present their latest data in selected short presentations, in the poster slam session and in discussions on their posters.

Our conference theme this year, “Functional Biomaterials and Release of Nucleic Acid Drugs”, is intended to highlight two key fields within the controlled release research sector, especially in the invited talks. We are happy to welcome well known speakers from Leipzig and Halle as well as from other places in Germany.

We look forward to seeing you in Leipzig!

Prof. Dr. Lea Ann Dailey
President
Conference Program

Thursday, 07.03.19

13:00 - 13:10  Organiser welcome
Decan of the Medical Faculty, Prof. Christoph Josten

13:10 - 13:35  **O1 Achim Aigner:** Microparticulate poly (vinyl alcohol) (PVA) hydrogel formulations for embedding and controlled release of polyethyleimine (PEI)-based nanoparticles

13:35 - 14:00  **O2 Olivia Merkel:** Endosomal escape of siRNA loaded nanoparticles in the lung

14:00 - 14:15  **O3 Thorben Fischer:** Cytokine inhibition by aspheric drug carriers for pulmonary administration

14:15 - 14:30  **O4 Ulrich Lächelt:** Artifical cationic lipopeptides for intracellular delivery of spliceswitching PMO

14:30 - 14:45  **O5 Eilien Schulz:** Myxobacteria-derived vesicles are biocompatible and show inherent antimicrobial activity

14:50 - 15:20  Poster flash – 60 second flash of poster contents

15:20 - 16:00  Coffee break and poster viewing

16:00 - 16:25  **O6 Christian Wölk:** Peptide-mimicking Cationic Lipids as DNA Delivery Systems – From a Lipid Library to Highly Effective Lipoplex Formulations

16:25 - 16:40  **O7 Olga Hartwig:** In vitro Models for the Investigation of the Intestinal Mucosa - Special Focus on Inflamed Condition

16:40 - 16:55  **O8 Maria Hoernke:** Quantifying Membrane Permeabilization: Lipid Composition Changes Leakage Mechanisms and Leakage Efficiency
16:55 - 17:10 O9 Robert Richter: In vitro modelling approaches to investigate the permeation across the Gram-negative bacterial cell envelope

17:10 - 17:25 O10 Sung Min Pyo: Anti-pollution skin care – 2nd skin formation by smartLipids from natural lipids

19:00 – 23:00 Drinks and dinner at “Hans im Glück”, Augustusplatz
Friday, 08.03.19

9:00 - 10:00  General assembly meeting of the CRS Local Chapter

10:00 - 10:25  **O11 Twan Lammers:** Smart Cancer Nanomedicine

10:25 - 10:50  **O12 Annette Beck-Sickinger:** Targeted Cancer Therapy Approaches by Peptide-Drug Conjugates

10:50 - 11:05  **O13 Aljoscha Koenneke:** Influence of the Temperature on the Diffusion Behaviour of Nanoparticles in Pulmonary Mucus – A Novel Approach to Improve Mucus Penetration

11:05 - 11:20  **O14 Berit Karl:** The role of additives for bacterial nanocellulose to enhance the penetration of anti-inflammatory frankincense extract into skin

11:20 - 11:35  **O15 Reema Anouz:** Novel Surface Coatings as Biocompatible Reservoirs for Controlled Release of BMP-2 for Bone Regeneration

11:35 - 12:30  Poster viewing

12:30 - 13:15  Lunch and poster viewing

13:15 - 13:40  **O16 Thomas Groth:** Engineering of Bioactive Surface Coatings and Hydrogels with Polysaccharides

13:40 - 14:05  **O17 Michael C. Hacker:** Macromers for Biomedical Material Design

14:05 - 14:20  **O18 Marcus Rohnke:** Kinetics of drug release and dispersion in bone

14:20 - 14:35  **O19 Kai Zheng:** Mesoporous bioactive glass nanoparticles as platforms for delivery of drugs and biologically active ions

14:45 - 15:00  Poster prize and award for the best short presentation and closing remarks
# Poster Flash

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<thead>
<tr>
<th>Order</th>
<th>Presenter</th>
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<tr>
<td>P1</td>
<td>Sarah Nasr</td>
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<td>P2</td>
<td>Clara Grundmann</td>
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<td>P3</td>
<td>Lena Maria Spindler</td>
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<td>P4</td>
<td>Husnia Kindi</td>
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<td>P5</td>
<td>Alexandra Springwald</td>
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<td>P6</td>
<td>Sandra Müller</td>
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<td>P7</td>
<td>Iram Maqsood</td>
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<td>Ghazala Ambreen</td>
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<td>Uzma Ali</td>
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<td>P10</td>
<td>Julia Giselbrecht</td>
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<td>P11</td>
<td>Catharina Husteden</td>
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<td>P12</td>
<td>Maximilian Schmid</td>
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<td>P13</td>
<td>Franziska Mitrach</td>
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<td>B. Huck</td>
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<td>P15</td>
<td>Florence Olechowski</td>
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<td>P17</td>
<td>Bettina Schwarz</td>
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<td>Karola Lima-Engelmann</td>
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<td>P22</td>
<td>Marcel Pourasghar</td>
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<td>P23</td>
<td>Alexandra J. Linder</td>
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<td>P24</td>
<td>Mathis Gronbach</td>
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**Instructions for Poster Flash Participants**

1. Please bring a printed poster of your work to the conference. Your poster has been allocated a number and space.

2. Additionally, prepare a PowerPoint presentation with a maximum of 2 slides to showcase the major scientific questions and findings of your project. Send the PowerPoint slides to pharmazeutische.technologie@uni-leipzig.de by 28 February 2019. Late submissions will be removed from the list. No pdf file formats, please.

3. During the first session of the conference, chairs will be reserved for the poster flash participants near the front of the room. Please use these.

4. Each participant will have 60 seconds to present their work. A sound will alarm once 60 seconds are finished and you will not be allowed to continue.

5. Due to the fast nature of the event, please make your way to the podium as soon as you are two speakers away from your slot.

6. Please stand by your poster during the coffee break and poster session directly following the poster flash.

7. Have fun and enjoy yourself!