



GPEN2024

University of Copenhagen
July 14-17, 2024

GOPENHAGEN

www.gpenconference.com

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Table of Contents

Welcome From the GPEN 2024 Local Committee	2
Acknowledgements	3
Borchardt Keynote Lecture	4
Event Map	5
Program Overview	6
Podium Sessions	8
Short Courses	13
Poster Overview.....	16
Event Highlights	20
Venues and Transportation.....	23
Sponsors.....	27
Conference Attendees	30
GPEN 2024 Organizing Committee	36

Welcome From the GPEN 2024 Local Committee

Dear GPEN2024 Attendees,

We are thrilled to host the 14th Globalization of Pharmaceutics Education Network (GPEN) biennial meeting here at the University of Copenhagen Department of Pharmacy. It is a great privilege for us to host the conference back in Europe after a 10-year hiatus, and to host it for the first time ever in Denmark. We are excited to welcome all GPEN members, along with our industrial and academic guests from around the world, to the wonderful Danish capital, Copenhagen, for four days of inspiring scientific discussions, networking, and fantastic social activities.

GPEN was founded at the Department of Pharmaceutical Chemistry at the University of Kansas in 1996, with the goal of promoting and enabling international scientific collaboration in the pharmaceutical sciences. A pillar of GPEN's mission is to provide young pharmaceutical researchers with the opportunity to disseminate their findings on the international stage. GPEN 2024 is no exception and will feature over 50 student oral presentations in addition to over 70 poster presentations, promising us scientific discussions of the very highest quality. This will be complemented by five short courses focused on state-of-the-art research in five diverse areas of pharmaceutical science.

As networking is also at the heart of the GPEN mission, the organizing committee has been committed to ensuring that participants get the opportunity to connect and engage with international colleagues throughout the duration of the conference. We have planned an array of evening social events, including a welcome reception, a boat/dinner trip to the island of Flakfortet, and culminating in the conference Gala dinner held in the University of Copenhagen's historic "Festsalen".

We hope this all sets the scene for a memorable edition of this GPEN meeting. Welcome to wonderful Copenhagen.

On behalf of the GPEN2024 Local Organizing Committee,

Jonathan Currie, Nana Isabella Svane, Melike Ongun, Anas Aljabbari (Student Co-chairs)

Prof. Camilla Foged, Prof. Ben Boyd, Prof. Thomas Rades, Prof. Annette Müllertz

(Faculty Co-chairs)

Acknowledgements

The GPEN2024 organizing committee would like to thank all the students, faculty, and staff involved in this event's organization. We hope this acknowledgment section serves as a testament to the consolidated team effort from the outset, involving the help of many dedicated individuals.

The organizing committee would like to thank the sponsors of this event by highlighting their generous contributions. We are grateful to Ronald T. and Pamela K. Borchardt for their continued support of the GPEN organization and acknowledge their generous support towards our boat trip to Flakfortet Island. Furthermore, we would like to recognize their generous support towards an eponymous travel fellowship, which has afforded three young researchers the opportunity to perform an international exchange at a fellow GPEN member institution in the lead-up to GPEN 2024. These students will give the first student presentation session on Monday, 15th July.

We extend our thanks to Gilead Sciences, Inc. for their financial support towards the Gala dinner and to Bristol Myers Squibb for their contribution to the opening reception. Additionally, we would like to thank Chong Yuan and Xiaohong Yu for their gracious support towards the Flakfortet conference dinner. We express our gratitude to Bioneer A/S, Nagai Foundation, and Pfizer for their generous support of the conference day events, including coffee breaks and lunches. Furthermore, we appreciate Captisol for sponsoring the conference meeting bags. Finally, we are thankful to Teva Branded Pharmaceutical Products R&D, Inc., JPharmSci, Pharmadanmark, and the Pennington Family Giving Fund for their invaluable financial support.

We would especially like to thank the following people for their indispensable support in making this event possible:

- The GPEN board of directors: Kenneth Audus, Teruna Siahaan, and Jeffrey Krise for their constructive guidance, insight, and support throughout the planning process.
- Ms. Nancy Helm (University of Kansas) for her tremendous and continued support throughout the organization process. Ms. Helm was vital to the success of this event and has been invaluable in helping us work through any issues we have encountered.
- The Borchardt Keynote Lecturer, Professor Jens Juul Holst (University of Copenhagen).
- The Department of Pharmacy, University of Copenhagen, for their support in hosting the event.
- All student/faculty committee members from the Department of Pharmacy, University of Copenhagen.
- The GPEN Executive Committee members: Patrick Augustijns, Christian Schöneich, Joseph Nicolazzo, Christel Bergström, Kim Brouwer, Maria Vitoria Bentley, and Bianca Liederer.
- All GPEN2024 sponsors.
- All podium presentation and poster judges.
- All short course organizers, coordinators, and speakers.
- All podium session student moderators.
- All industry attendees.
- The GPEN2022 organizing committee.

Borchardt Keynote Lecture

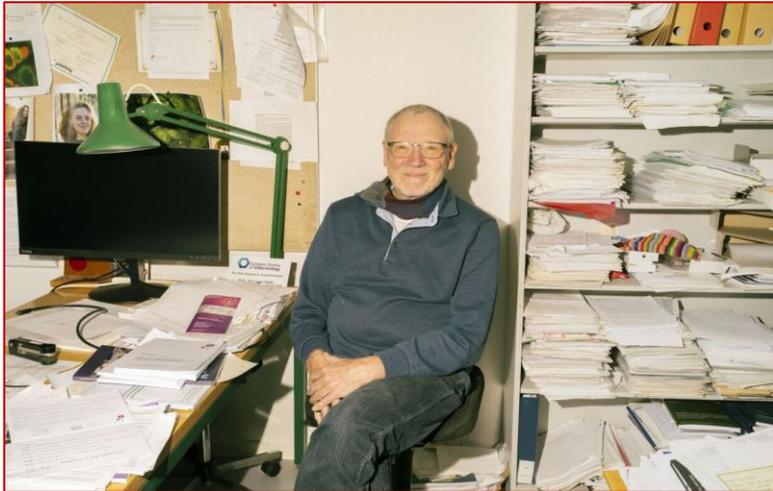


Photo: Asger Ladefoged (Berlingske)

Jens Juul Holst, MD, Ph.D.

2010 – **Senior Group Leader**, Novo Nordisk Foundation Center for Basic Metabolic Research, Faculty of Health and Medical Sciences, University of Copenhagen

1996 – **Full Professor** of Medical Physiology (today Biomedical Sciences), UCPH

Jens Juul Holst, born in 1945, is a distinguished Danish physician and professor renowned for his extensive contributions to the field of endocrinology, with a particular focus on gastrointestinal hormones. Holst's pioneering research has significantly advanced the understanding of how hormones such as GLP-1 (glucagon-like peptide-1) and GIP (gastric inhibitory polypeptide) influence metabolic processes, appetite regulation, and insulin secretion.

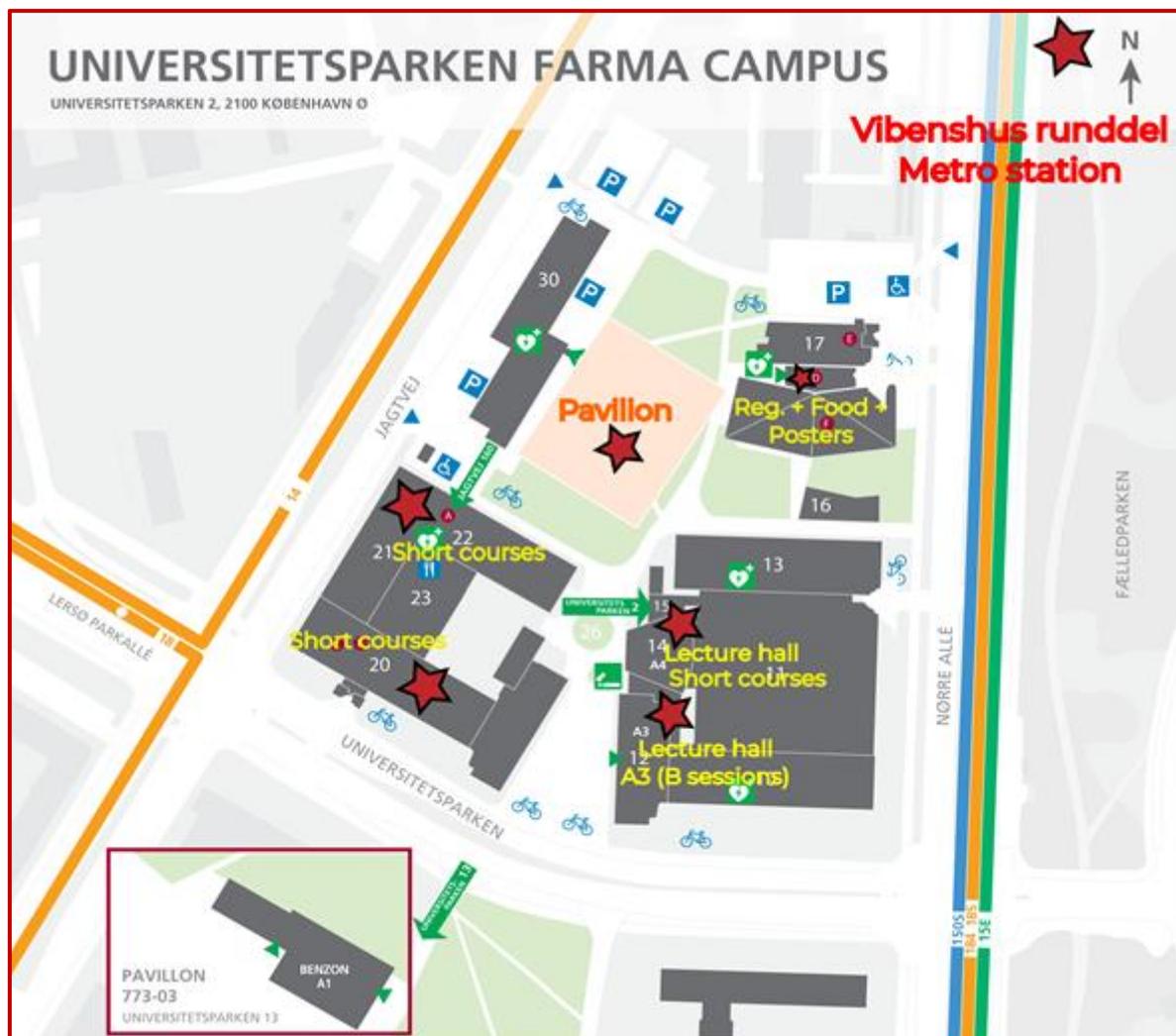
Holst's academic journey began at the University of Copenhagen, where he earned his medical degree and later his doctorate. His early research centered on the endocrine functions of the gastrointestinal tract, leading to the discovery of incretin hormones, which are critical in the regulation of glucose metabolism. His identification and characterization of GLP-1 have been particularly influential, opening new avenues for the treatment of type 2 diabetes and obesity.

Throughout his illustrious career, Jens Juul Holst has published over 1,500 scientific papers, making him one of the most cited researchers in his field. His work has not only deepened scientific understanding but also had a tangible impact on clinical practices. The development of GLP-1-based therapies, such as GLP-1 receptor agonists (e.g. Semaglutide – Ozempic/Wegovy), has revolutionized both the management of diabetes and appetite regulation, providing more effective treatment options for millions of patients worldwide.

Holst's contributions have been recognized with numerous prestigious awards and honors, including the Claude Bernard Award from the European Association for the Study of Diabetes and the Distinguished Scientist Award from the American Diabetes Association. In addition to his research achievements, Holst is a dedicated educator and mentor, having guided many young scientists and researchers through their careers, supervising approximately 100 PhD and Medical Students.

Currently, Jens Juul Holst serves as a professor at the department of biomedical sciences at the University of Copenhagen, as well as a senior group leader at the Novo Nordisk Foundation Center for Basic Metabolic Research, where he continues to lead innovative research into metabolic diseases.

Event Map



Venue Buildings	Event
Building 17-18 Atrium	Registration – Lunch – Welcoming reception
Building 14 (Entrance Building 15)	A4 Auditorium (Keynote lecture, Podium presentations) Short course 1: Formulation and Delivery of Biologics
Building 12 (Entrance building 15)	A3 Auditorium (Podium presentation sessions B)
Building 20 ground floor U21	Short Course 2: CNS Drug Delivery and Pharmacokinetics
Building 21 4th floor U22	Short Course 3: Development of Oral Formulations and IVIV Correlation
Building 21 4th floor U23	Short Course 4: Individualized Medicine – From Genetic Polymorphism to 3D Printing
Building 21 4th floor U24	Short Course 5: Sustainable Pharmaceuticals

Program Overview

Day 1: Sunday, July 14th

Venue: UCPH Department of Pharmacy

Time	Event	Location
16:00 – onward	Conference registration *For your convenience you can store your luggage with us if needed. These can be retrieved at the welcome reception.	Atrium/Pavilion Area
18:00 – 18:10	Welcoming Remarks – Professor Kenneth Audus (University of Kansas, GPEN Chair)	A4 Auditorium
18:10 – 18:20	Opening Remarks – Professor Jukka Rantanen (UCPH Department of Pharmacy, Head of Department)	A4 Auditorium
18:20 – 18:30	Conference Practical Information – Professor Camilla Foged (UCPH Department of Pharmacy)	A4 Auditorium
18:30 – 19:30	Keynote Lecture – Professor Jens Juul Holst (University of Copenhagen) “The Amazing Impact of Obesity and Diabetes Treatment with Incretins”	A4 Auditorium
19:30 – 23:00	Welcome Reception <i>sponsored by Bristol Myers Squibb</i>	Atrium/Pavilion Area

Day 2: Monday, July 15th

Venue: UCPH Department of Pharmacy & Flakfortet

Time	Event	Location
08:45 – 09:45	Presentation Session 1 (Borchardt Travel Fellows Session) Chairs: Alba Arbiol Enguita, University of Helsinki and Amin Ariaee, University of South Australia	A4 Auditorium
09:45 – 10:15	Coffee Break <i>sponsored by Teva Branded Pharmaceutical Products R&D, Inc.</i>	Atrium/Pavilion Area
10:15 – 12:15	Presentation Session 2 Chairs: Iori Azuma, University of Tokyo and Arch Bansal, University of Queensland	A4 Auditorium
12:15 – 13:00	Lunch <i>sponsored by Bioneer</i>	Atrium/Pavilion Area
13:00 – 14:00	Poster Session 1 (all)	Atrium
14:00 – 16:00	Presentation Session 3 Chairs: Achim Biesel, Saarland University and Christine Blaze, University of Maryland	A4 Auditorium
16:00 – 17:00	Transportation from Department of Pharmacy to Nyhavn 71 We leave from the Department of Pharmacy and take the M3 metro directly to Kongens Nytorv. The boat will depart from the dock opposite Nyhavn 71, 1051 København at 17:00 sharp .	Metro M3
17:00 – 23:00	Boat Trip and Historical Tour <i>sponsored by Ronald T. and Pamela K. Borchardt</i> Dinner/Networking <i>sponsored Chong Yuan and Xiaohong Yu</i>	Flakfortet

Day 3: Tuesday, July 16th

Venue: UCPH Department of Pharmacy & UCPH Festsalen (Frue Plads)

Time	Event	Location
08:45 – 09:45	Presentation Session 4A Chairs: Andrew Burkholder-Wenger, University of Manitoba and Simone Carneiro, LM Munich	A4 Auditorium
08:45 – 09:45	Presentation Session 4B Chairs: Yipan Chen, Shandong University and Fabiana Coelho Inouye, University of Sao Paulo	A3 Auditorium
09:45 – 10:15	Coffee Break <i>sponsored by Pharmadanmark</i>	Atrium/Pavilion Area
10:15 – 12:15	Presentation Session 5A Chairs: Namrata Dhakal, National University of Singapore and Helen Erickson, University of Nebraska	A4 Auditorium
10:15 – 12:15	Presentation Session 5B Chairs: Jin Sil Kang Chungnam, National University and Tuomas Kilpeläinen, University of Eastern Finland	A3 Auditorium
12:15 – 13:00	Lunch <i>sponsored by Pfizer</i>	Atrium/Pavilion Area
13:00 – 14:30	Poster Session 2 (all)	Atrium
14:30 – 16:10	Presentation Session 6A Chairs: Swetha Kodamasimham, University of Michigan and Jeffery Wei Heng Koh, National University of Singapore	A4 Auditorium
14:30 – 16:10	Presentation Session 6B Chairs: Lisa Schöne, University of Marburg and Priscila Yamamoto, University of Florida	A3 Auditorium
18:00 – 23:00	Gala Dinner (UCPH Frue Plads) <i>sponsored by Gilead Sciences, Inc.</i>	Festsalen (Frue Plads)

Day 4: Wednesday, July 17th

Venue: UCPH Department of Pharmacy

Time	Event	Location
08:00 – 08:40	For your convenience you can store your luggage from 8:00 AM to 8:40 AM. These can be retrieved at lunchtime.	A4 Auditorium
08:45 – 10:05	Short Course Part 1*	Breakout rooms
10:05 – 10:40	Coffee Break <i>sponsored by JPharmSci</i>	Atrium/Pavilion Area
10:40 – 12:15	Short Course Part 2	Breakout rooms
12:15 – 12:45	Closing remarks and Awards	A4 Auditorium
12:45 – 14:00	Lunch <i>sponsored by Nagai Foundation</i>	Atrium/Pavilion Area

Podium Sessions

Day 2: Monday, July 15 Venue: UCPH Department of Pharmacy

Podium Session 1: Ronald T. and Pamela K. Borchardt Travel Fellowship presentations

Podium Chairs: Alba Arbiol Enguita, University of Helsinki and Amin Ariaee, University of South Australia

Location: A4 Auditorium

Sponsored by Ronald T. and Pamela K. Borchardt

Time	Title	Presenter	Affiliation
09:00 – 09:20	Optimizing the Delivery of Antibody Therapeutics using Blood-Brain Barrier Modulators	Eric Ebert	University of Kansas
09:20 – 09:40	In vivo Exposure of 3D-printed Emulsion Gel Tablets vs Innovator Products in a Juvenile Pig Model	Lidia Habtemikael	Uppsala University
09:40 – 10:00	Effect of lipopolysaccharide on abundance of microglial transporters: a quantitative targeted absolute proteomics approach	Ethan Kreutzer	Monash University

Podium Session 2

Podium Chairs: Iori Azuma, University of Tokyo and Archi Bansal, University of Queensland

Location: A4 Auditorium

Time	Title	Presenter	Affiliation
10:15 – 10:35	A VP4 synonymous mutation acquired during enterovirus 71 disseminated infection reduces viral replication and modulates tissue tropism	Wanzhen Lu	National University of Singapore
10:35 – 10:55	Excipient-excipient interactions can accelerate the aggregation of therapeutic proteins	Casey Patrick	University of Colorado
10:55 – 11:15	In-vitro photoselective gene transfection of hepatocellular carcinoma cells with hypericin lipopolyplexes	Sebastian Schlüter	University of Marburg
11:15- 11:35	Mechanisms and Extent of Enhanced Oral Absorption by Colloidal Drug Particles	Da Hye Yang	University of Connecticut
11:35- 11:55	Overcoming efflux-mediated multidrug resistance in <i>Pseudomonas aeruginosa</i>	Simon Su	University of Otago
11:55- 12:15	Anti-evaporative liposomal formulations for dry eye treatment	Janika Jääntti	University of Eastern Finland

Podium session 3

Podium Chairs: Achim Biesel, Saarland University and Christine Blaze, University of Maryland

Location: A4 Auditorium

Time	Title	Presenter	Affiliation
14:00 – 14:20	Optimizing Amorphous Multidrug Formulation Design through Excipient Selection: Insights from Supersaturation and Solution Chemistry	Mira El Sayed	Uppsala University
14:20 – 14:40	Immunotoxicity of Silica Nanoparticles as a Function of Physicochemical Properties	Jason Grunberger	University of Utah
14:40 – 15:00	Development of recombinant and synthetic, multicomponent tumor-targeted gene delivery platforms	Limin Dai	University of Queensland
15:00 – 15:20	Design and development of formulations by nanoencapsulation of antidotes, against intoxications by chemical warfare agent	Léa Thiberville	Université Paris-Saclay
15:20 – 15:40	Deep eutectic solvents as novel and alternative enabling formulations	Shaida Panbachi	University of Basel
15:40 – 16:00	Poly-N-Ethylglycine based lipopolymers: From synthesis to applications in nucleic acid drug delivery systems	Ewout Buijs	Leiden University

Day 3: Tuesday, July 16 Venue: UCPH Department of Pharmacy

Parallel podium sessions on Day 3

🌸 Podium Session 4 A

Podium Chairs: Andrew Burkholder-Wenger, University of Manitoba and Simone Carneiro, LM Munich

Location: A4 Auditorium

Time	Title	Presenter	Affiliation
08:45 – 09:05	Liposomal co-loading of two anticancer drugs: manage the disparities	Cindy Schelker	University of Geneva
09:05 – 09:25	Development of Gold Nanostars Coated with Mesoporous Silica for Laser-Triggered Chemo-Photothermal Therapy	Fadilah Asril	Nagoya City University
09:25 – 09:45	Polymeric Micelles Increase Carbamazepine Solubility and Permeability	Manveer Sandhu	Aston University

Podium Session 4 B

Podium Chairs: Yipan Chen, Shandong University and Fabiana Coelho Inouye, University of Sao Paulo

Location: A3 Auditorium

Time	Title	Presenter	Affiliation
08:45 – 09:05	The Colder, the Better? Sustainability in Frozen Storage of Protein Drug Substance	Ricarda Nagel	Ludwig Maximilian University of Munich
09:05 – 09:25	Degradation of GPCRs by Endolysosomal Trafficking Targeting Chimeras Strategy	Jiwei Chen	Shandong University
09:25 – 09:45	Effect of polymer structure on the degree of salt formation in lumefantrine amorphous solid dispersion	Amy Neusaenger	University of Wisconsin

Podium Session 5 A

Podium Chairs: Namrata Dhakal, National University of Singapore and Helen Erickson, University of Nebraska

Location: A4 Auditorium

Time	Title	Presenter	Affiliation
10:15 – 10:35	Influence of gut microbiota on intestinal drug transporters, enzymes and other endogenous factors affecting oral drug bioavailability	Douglas Nelson	University of Minnesota
10:35 – 10:55	Exploring the relationship between Bottlebrush Polymers Structure and Polyplex Formation for mRNA Delivery: insights from in vitro and in vivo studies	Alessia Filippini	University of Montreal
10:55 – 11:15	Characterization of an open-state GABAA receptor using in-silico site-directed mutagenesis and molecular dynamics simulations	Ayobami Diyaolu	Washington State University
11:15 – 11:35	Transcriptomic Profiling Across Ages, APOE Genotypes and Sexes in Mouse Models of Alzheimer's Disease at a Single Cell Resolution	Yaqiao Li	University of California, San Francisco
11:35 – 11:55	Near UV Photo-degradation of IgG1 HM-Fc CH2 domain mediated by Iron(III)-containing Histidine buffer	Maribel Espinoza Ballesteros	University of Kansas
11:55 – 12:15	Pharmacokinetic and Pharmacodynamic Evaluation of RTA 901: a Potential NADPH Oxidase Inhibitor	Yara Sheeni	Hebrew University of Jerusalem

Podium Session 5 B

Podium Chairs: Jin Sil Kang Chungnam, National University and Tuomas Kilpeläinen, University of Eastern Finland

Location: A3 Auditorium

Time	Title	Presenter	Affiliation
10:15 – 10:35	Examination And Identification of Potential Drug Biomarker Candidates for Glioblastoma	Thordur Hendrickson-Rebizant	University of Manitoba
10:35 – 10:55	Enhancing Viability of Lactobacilli in Mucoadhesive Polymer Films	Charlotte Eckermann	Saarland University
10:55 – 11:15	Development Of a Microphysiological Model of The Human Intestine for Predicting FG	Eimear O'Mahony	University of Washington
11:15 – 11:35	Hydrogen Bonding Between Drug and Polymer as a Failure Mechanism for Amorphous Solid Dispersion Release	Michelle Cousineau	Purdue University
11:35 – 11:55	The Optimization and Evaluation of Liposomal Nanoparticles for Synergistic Effect of Erlotinib and Doxorubicin	Yeji Choi	Chungnam National University
11:55- 12:15	Intestinal Atp8b1 function provides a choline source to the liver through lysophosphatidylcholine absorption	Ryutaro Tamura	University of Tokyo

Podium Session 6 A

Podium Chairs: Swetha Kodamasimham, University of Michigan and Jeffery Wei Heng Koh, National University of Singapore

Location: A4 Auditorium

Time	Title	Presenter	Affiliation
14:30 – 14:50	Itaconate-based nanoparticles modulate macrophage polarization to treat obesity	Andrea Cottingham	University of Maryland
14:50 – 15:10	On demand cargo loading of extracellular vesicles for precision therapeutic delivery	Nina Erwin	University of Florida
15:10 – 15:30	Physiologically-Based Pharmacokinetic Modeling of Extended-Release MK-2048 Formulations for HIV Pre-Exposure Prophylaxis in Non-Human Primates	Kimberly Adams	University at Buffalo
15:30 – 15:50	ROS-responsive polymeric chloroquine nanogel as oral	Neha Kumari	University of Nebraska

	maintenance therapy for Inflammatory Bowel Disease		
15:50 – 16:10	A novel nicotinamide riboside-based probe for targeting CD38	Guoyun Kao	University of Southern California

Podium session 6 B

Podium Chairs: Lisa Schöne, University of Marburg and Priscila Yamamoto, University of Florida

Location: A3 Auditorium

Time	Title	Presenter	Affiliation
14:30 – 14:50	Reprogramming tumor microenvironment via systemic delivery of TLR3 agonist/Mn2+ coordination nanomedicine	Young Seok Cho	University of Michigan
14:50 – 15:10	Increase of antigen-selective cell adhesion by cell surface modification with VHH with controlled orientation	Tsuyoshi Hirata	Kyoto University
15:10 – 15:30	Analyzing the Effect of Nanoparticle Size on Modulation of Circulating Innate Immune	Daniel Kolpek	University of Kentucky
15:30 – 15:50	Design and Characterization of an Injectable Methacrylated hyaluronic acid – Gelatin Hydrogel for Cell Transplantation	Sirikool Thammium	Chulalongkorn University
15:50 – 16:10	Does a biosimilar require a different formulation than its reference product?	Hesham Abdelsamad	University of Iowa

Short Courses

Short Course 1: Formulation and Delivery of Biologics (Room: A4)

Organizer: Sarah Hook, University of Otago. **Chair:** Abhijeet Lokras, University of Copenhagen

Time	Event	Name	Affiliation	Title
08:45 – 09:15	Faculty Presentation 1	Sarah Hook	University of Otago	Challenges for delivery of biologics, Responsive Delivery Systems
09:15 – 09:35	Faculty Presentation 2	Wolfgang Freiss	Ludwig-Maximilians-University of Munich	Challenges for Formulation of biologics, Interfaces and self-interaction
09:35 – 10:05	Student Presentation 1	Santhni Subramaniam	University of South Australia	A disease-targeted approach in understanding delivery of nanomedicine: A case study with pulmonary cancer
10:05 – 10:40	Coffee Break			Atrium/Pavilion Area
10:40 – 11:00	Student Presentation 2	Bryan W. Debiase	University of São Paulo	Development of Liquid Crystalline Nanoparticles containing ionizable lipids for mRNA delivery
11:00 – 11:30	Faculty Presentation 3	Michael Burger	ETH Zurich	Protein-based gene delivery
11:30 – 12:00	Faculty Presentation 4	Camilla Foged	University of Copenhagen	Delivery of Nucleic Acid-based drugs

Short Course 2: CNS Drug Delivery and Pharmacokinetics (Room: U21)

Organizer: Joseph Nicolazzo, Monash University. **Chair:** Maria Thaysen, University of Copenhagen

Time	Event	Name	Affiliation	Title
08:45 – 09:05	Student Presentation 1	Mattie Hartauer	University of North Carolina	Hepatic Organic Anion Transporting Polypeptide 1B (OATP1B) Zonality Within a Physiologically Based Pharmacokinetic (PBPK) Framework: Implications for Rifampicin-Mediated Drug-Drug Interactions
09:05 – 09:35	Faculty Presentation 1	Mie Kristensen	University of Copenhagen	Brain delivery of therapeutic peptides – with a helping hand from cell-penetrating peptides
09:35 – 10:05	Faculty Presentation 2	Bill Elmquist	University of Minnesota	CNS drug delivery: how much is enough?
10:05 – 10:40	Coffee Break			Atrium/Pavilion Area
10:40 – 11:00	Student Presentation 2	Showmika T Supti	Monash University	Iron reduces trafficking of fatty acids from human brain endothelial cells

				through modulation of fatty acid transporter 1
11:00 – 11:30	Faculty Presentation 3	Teruna Siahaan	University of Kansas	Improving delivery of molecules through the BBB by modulating cadherin interactions
11:30 – 12:00	Faculty Presentation 4	Joseph Nicolazzo	Monash University	Disease effects on drug transporters at the BBB: implications for CNS delivery

Short Course 3: Development of Oral Formulations and IVIV Correlation (Room: U22)

Organizers: Christel Bergstrom, Uppsala University and Patrick Augustijns, KU Leuven. **Chair:** Cristiana Cunha, University of Copenhagen

Time	Event	Name	Affiliation	Title
08:45 – 09:15	Faculty Presentation 1	Patrick Augustijns	KU Leuven	Examining Intraluminal Drug and Formulation Behaviour
09:15 – 09:35	Student Presentation 1	Harshad Jadhav	KU Leuven	Physiologically Based Biopharmaceutics Modeling of Mesalamine and Acetyl Mesalamine for Predicting Luminal, Enterocyte and Plasma Concentrations
09:35 – 10:05	Faculty Presentation 2	Anette Müllertz	University of Copenhagen	Predicting The Performance of Lipid-Based and Amorphous Drug Delivery
10:05 – 10:40	Coffee Break			Atrium/Pavilion Area
10:40 – 11:00	Student Presentation 2	Esha S. Attar	Institute of Chemical Technology, Mumbai	Maneuvering Curcumin Lipomer Across the Multiple Gastro-Intestinal Barriers for Oral Absorption
11:00 – 11:30	Faculty Presentation 3	Christel Bergström	Uppsala University	Simultaneous Assessment of Drug Release, Digestion and Permeation for Improved IVIVC
11:30 – 12:00	Faculty Presentation 4	Clive Prestidge	University of South Australia	Solidification Of SEDDS For Oral Drug Delivery: Opportunities and Challenges

Short Course 4: Individualized Medicine – From Genetic Polymorphism to 3D Printing (Room: U23)

Organizers: Julian Quodbach, Utrecht University. **Chair:** Wuzhong He, University of Copenhagen

Time	Event	Name	Affiliation	Title
08:45 – 09:15	Faculty Presentation 1	Yan Shu	University of Maryland	Pharmacogenetics
09:15 – 09:35	Student Presentation 1	Ilari Ahola	University of Copenhagen	Tailor-made doses of citalopram hydrobromide by tunable modular design
09:35 – 10:05	Faculty Presentation 2	Christel Bergström	Uppsala University	Semi-solid extrusion printing of Lipid Based Formulations in connection to hospital compounding
10:05 – 10:40	Coffee Break			Atrium/Pavilion Area
10:40 – 11:00	Student Presentation 2	Myriam Neumann	Utrecht University	Functional Materials for High Resolution 3D Bioprinting in Kidney Engineering
11:00 – 11:30	Faculty Presentation 3	Julian Quodbach	Utrecht University	Selective Laser Sintering as an Industrial Manufacturing Technology
11:30 – 12:00	Faculty Presentation 4	Anson Ma	University of Connecticut	Inkjet Printing and Binder Jetting

Short Course 5: Sustainable Pharmaceutics

Organizer: Mia Sivén, University of Helsinki. **Chair:** Hannah Kolberg, University of Copenhagen

Time	Event	Name	Affiliation	Title
08:45 – 09:15	Faculty Presentation 1	Mia Sivén	University of Helsinki	Holistic Approach to Sustainable Pharmacy
09:15 – 09:35	Student Presentation 1	Tea Pihlaja	University of Helsinki	Pharmaceutical Residues in fish- in vitro evaluation
09:35 – 10:05	Faculty Presentation 2	Thomas Rades	University of Copenhagen	Aspects of Sustainability in Drug Delivery
10:05 – 10:40	Coffee Break			Atrium/Pavilion Area
10:40 – 11:00	Student Presentation 2	Hanna Krupke	ETH Zürich	A biodegradable suction patch for the transbuccal delivery of peptides
11:00 – 11:30	Faculty Presentation 3	Arlene McDowell	University of Otago	How can pharmaceutical scientists contribute to wildlife health and a sustainable planet?
11:30 – 12:00	Round Table	All speakers		Discussion on Sustainable Pharmacy

Poster Overview

Poster no.	Title	Presenter & Affiliation
1	Aging and sex-dependent cell-cell communication in APOE4 mouse single-cell transcriptomics	Carlota Pereda Serras University of California at San Francisco
2	Codelivery of STING Agonist & Manganese from Injectable PLGA Implants for Enhanced Cancer immunotherapy	Swetha Kodamasimham University of Michigan
3	Structural comparison of innovator and biosimilar monoclonal antibodies, Rituximab and Trastuzumab, using the mass spectrometry-based methods of post-translational modification analyses	Youngseo Na University of Michigan
4	Investigating Drug Release Dynamics of Liposomal Berberine in Varied Shear Environments with the Dispersion Releaser	Namrata Dhakal National University of Singapore
5	Intranasal protein subunit vaccine candidate CS/S-RBD/O-HTCC induce nonspecific innate and specific adaptive immune protections in mouse model simultaneously	Yipan Chen Shandong University
6	The optimization of tacrolimus loaded lipid nanoparticle using Box-Behnken design for treatment of atopic dermatitis	Jin Sil Kang Chungnam National University
7	Modeling the mouse blood-brain barrier: A simple method for generating mouse brain endothelial cell monolayers	Alberte Pedersen University of Copenhagen
8	Evaluation of Hydrogel Formulations for Local, Sustained Delivery of Spermidine/spermine N1-acetyltransferase Small Interfering RNA Loaded Lipid Nanoparticles to Glioblastoma Tumor Cells	Andrew Burkholder-Wenger University of Manitoba
9	How do data quality and data quantity impact the estimation of solubility?	Jiaxi Zhao Uppsala University
10	From bulk drug to nanocrystals: a systematic approach to the nanosizing process	Atte Junnila University of Helsinki
11	Permeation Enhancer Ex vivo Investigation: Influence of Key Parameters in Ussing Chambers	Cristiana Cunha University of Copenhagen
12	Photodynamic therapy of glioblastoma with curcumin-lipid nanoparticles	Lisa Schöne University of Marburg
13	Multimodal nonlinear imaging of liquid-liquid phase separation and its sequelae	Alba Arbiol Enguita University of Helsinki
14	Stimulated Raman scattering (SRS) microscopy of solid-state forms of lactose	Elina Harju University of Helsinki
15	Cholesterol in mRNA-lipid nanoparticles can be replaced with the synthetic mycobacterial monomycoloyl analogue MMG-1	Abhijeet Lokras University of Copenhagen
16	Enhancing amorphous solid dispersions: The role of functionalized polymers in molecular interactions, drug loading ability, stability and dissolution	Rong Di University of Copenhagen
17	Engineering anti-microbial nanoparticles for synergy with other antimicrobials	Archi Bansal University of Queensland

18	Structural basis of reversible and covalent inhibitors of a novel maltosyltransferase in Mycobacteria	Helen Erickson University of Nebraska
19	Lipid-coated Nanoparticles for pulmonary mRNA delivery	Achim Biesel Saarland University
20	Dual-mRNA loaded Lipopolyplex as novel platform for enhanced mucosal vaccination	Aljoscha Gabelmann Saarland University
21	Progress in RNA Delivery: Development of Nanoemulsions and Lipid Nanoparticles	Chih-Chun Chang University of Wisconsin
22	Development of active-targeting liposomes for better treatment of pediatric acute megakaryoblastic leukemia (AMKL)	Celine Delansay University of Paris-Saclay
23	Ocular and systemic pharmacokinetics of dexamethasone after subconjunctival and intravenous injections in rabbits	Susanna Posio University of Eastern Finland
24	In vitro screening of novel pigment binding carbonic anhydrase inhibitors	Julius Viita University of Eastern Finland
25	A Genomics-Informed Mechanism-Based Pharmacokinetic/Pharmacodynamic (PK/PD) Model of Cefiderocol (FDC) and Ceftazidime/Avibactam (CAZ/AVI) Against Carbapenem Resistant <i>Achromobacter xylosoxidans</i> (Ax)	Bhavatharini Arun University of Southern California
26	Patient-derived organoids platform to establish personalized treatment for colorectal cancer	Mireia Andreu Carbó University of Geneva
27	Characterization and formulation of a VHH-IgA Fc fusion candidate for orally delivered passive immunization against Enterotoxigenic <i>E. coli</i> (ETEC)	Layla Barreto University of Kansas
28	Designing a pH-responsive nano-drug delivery system to target lymph nodes to enhance cancer therapy	Dan Zhao Monash University
29	Developing Protein Switch Technologies to Enable Targeted Drug Delivery	Morgan Marsh University of Utah
30	Marker gene-based deconvolution to reveal the immune response from drug-induced transcriptome	Iori Azuma University of Tokyo
31	Characterizing and formulating a vaccine candidate for Shigellosis comprised of four polysaccharide-protein conjugate antigens and two different adjuvants	Poorva Taskar University of Kansas
32	Quantitative amorphous-amorphous phase separation analysis	Tuomas Kilpeläinen University of Eastern Finland
33	Pegylated DOPC liposomes enable multi day drug release of inhibitory cGMP analogue after intravitreal injection:	Eetu Valkama University of Eastern Finland
34	Enabling rapid screening of poly(2-oxazoline)-based nanomedicine through divergent synthesis towards alternative mRNA-vaccines	Zlata Nagorna Leiden University
35	High-Throughput in vivo screening for organotropism of surface decorated Extracellular Vesicles	Caden Kussatz University of North Carolina
36	Neuropharmacokinetic assessment of eletriptan and sumatriptan distribution into central and peripheral regions: Target engagement predictions point towards a central site of action in migraine therapy	Nana Svane University of Copenhagen
37	Untargeted metabolomics identifies Uremic Toxins as Multi-specific Drug Transporter Slc47A1 (Mate1) Substates	Christine Blaze University of Maryland

38	Mucosal Delivery of mRNA-loaded lipid nanoparticles	Melike Ongun University of Copenhagen
39	Engineered extracellular vesicles derived from human neural stem cells enriched of miR-125a-5p for cerebral ischemia reperfusion injury therapy	Qingyue Liu Shandong University
40	In-silico Predictive Design of Safe INSTA-AmB a Lipidic Amphotericin B Nanoformulation	Pooja Todke Institute of Chemical Technology, Mumbai
41	Hybrid nano-prodrugs for distal gut delivery of short-chain fatty acids as immunomodulatory therapeutics for multiple sclerosis	Lindsey William University of Washington
42	Study of Adherence to Tyrosine Kinase Inhibitors in Patients Diagnosed with Chronic Myeloid Leukemia: A Retrospective Cohort	Fabiana Coelho Inouye University of Sao Paulo
43	Investigating the Hepatotoxicity of Micro- and Nanoplastics Exposure and Accumulation in the Liver	Jeffery Wei Heng Koh National University of Singapore
44	Investigating the Relationship between in-vitro and in-vivo Release: The Role of Drug Loading, Release Rate, and Surface Area	Emily Benson Purdue University
45	Development of small extracellular vesicles (sEV) labeling method using Vn96 peptide	Hiroto Otera Kyoto University
46	Comparison of Parent Antigenic Peptides and Bifunctional Peptide Inhibitors to Modulate Autoimmunity	Andrea Lucia Villela Nava University of Kansas
47	The size-dependent permeability of the blood brain barrier (BBB) following photothrombotic-induced ischemic stroke in mice visualized with light sheet microscopy	Maria Thaysen University of Copenhagen
48	Indirect effect of pH on the solubilization of neutral drugs in simulated intestinal fluids	Mare Oja Katholieke Universiteit Leuven
49	Ink optimization for fabricating personalized carvedilol-containing dosage forms by inkjet printing	Wuzhong He University of Copenhagen
50	A Multiple Prodrugs Approach for Topical administration: Implications of Thermodynamics on Flux for Saturated Systems Comprising Prodrugs of Salicylic Acid	Hannah Kolberg University of Copenhagen
51	Development of a Multi-Drug Containing SNEDDS for Treatment of Multi Drug Resistant Tuberculosis	Jonathan Currie University of Copenhagen
52	Discovery and Validation of Oral Vaccine Adjuvants via Bioanalytical HTS Assays	Grahmm Funk University of Kansas
53	Characterizing the influence of NTD mutations on variant SARS-CoV-2 spike receptor binding affinity and antibody escape	Alexandra Lucas University of Colorado
54	Bile Acid Sequestrants to Improve the Bioavailability of Octreotide	Zahraa Al-Tamimi University of Kansas
55	Triazine lipids as an immunomodulatory vaccine platform	Kaysi Lee University of Kentucky
56	Acetalated Dextran Microparticle-Associated B Cells: The Dynamic Duo Against Multiple Sclerosis	Nicole Rose Lukesh University of North Carolina
57	3D-printed prednisolone phosphate suppositories with tunable dose and rapid release for the treatment of inflammatory bowel disease	Levent Kocabas Utrecht University

58	Hydrophobic drug particles adopt a gastrointestinal biomolecular corona in ex vivo GI fluids	Anas Aljabbari University of Copenhagen
59	Elucidating the role of API attributes on in situ forming implant microstructure and degradation	Mckenzie Roy University of Connecticut
60	Regulation of the CB1 Receptor by Neurensin-2 in Depression disorder	Yumna Abu Ghanem Hebrew University of Jerusalem
61	Biochemical characterization of skin mitochondrial extracellular vesicles	Finn Brigger ETH-Zurich
62	Microbiome-Sensing Inulin-Lipid Hybrids for Colonic Drug Delivery	Amin Ariaee University of South Australia
63	Development and Evaluation of Controlled Release Responsive Antibiotic Delivery Systems	Kathleen Sircombe University of Otago
64	Rerouting cardiometabolic diseases management post-gastric bypass: the surgery impact on carvedilol and simvastatin exposure and response	Priscila Yamamoto University of Florida
65	Impact of nanoparticle size on trafficking, biodistribution, and immune cell association in lymph nodes after subcutaneous injection in mice	Muhammad Asim Farooq Monash University
66	Local delivery of CST6 mRNA for bone regeneration	Pornpoj Phruttiwanichakun University of Iowa
67	Optimization of lipid nanoparticles for CRISPR/Cas9 delivery: a strategy for enhanced gene editing in lung tumor cells	Simone Carneiro LM Munich
68	High-Throughput in vivo screening for organotropism of surface decorated Extracellular Vesicles	Caden Cussatz University of North Carolina
69	Quantitative Analysis of the Impact of the C421A Mutation on BCRP Activity in Human Ileal Spheroid-derived Differentiated Cells	Hiroyuki Kusuhara University of Tokyo
70	Insight into the Mechanism of Oral Peptide Drug Formulations	Kyle J Colston Purdue University
71	Free Energy Perturbation (FEP)-guided Discovery and Mechanistic Investigations of Benzothiazole-bearing HIV Capsid Protein Modulators	Shujing Xu Shandong University
72	Below their T _g , are organic molecular glasses softer than their crystalline counterparts?	Vikram Chandrashekar Joshi University of Minnesota

Event Highlights

Opening Remarks and Keynote Lecture

Sponsored by Pennington Family Giving Fund

Venue: Auditorium 4 (A4), Department of Pharmacy, University of Copenhagen

July 14th, 18:00 – 19:30

Prof: Kenneth Audus will provide the welcoming remarks to kick-off GPEN2024 by providing an overview of the GPEN network mission and organization: KU Head of department Professor Jukka Rantanen will provide the opening remarks.

July 14th, 18:30 – 19:30

Professor Jens Juul Holst (University of Copenhagen) will give his keynote lecture entitled “The Amazing Impact of Obesity and Diabetes Treatment with Incretins”

Welcome reception

Sponsored by Bristol Myers Squibb

Venue: Atrium building 17-18, Department of Pharmacy, University of Copenhagen

July 14th, 19:30 – 23:00

A welcoming reception in the Atrium with finger-food and complimentary drinks. A chance to socialize with your fellow attendees:



Boat Trip and Dinner at Flakfortet

Boat Trip and Historical Tour sponsored by Ronald T. and Pamela K. Borchardt

Dinner sponsored by Chong Yuan and Xiaohong Yu

Venue: Boat trip to Flakfortet

July 15th, 17:00 – 23:00

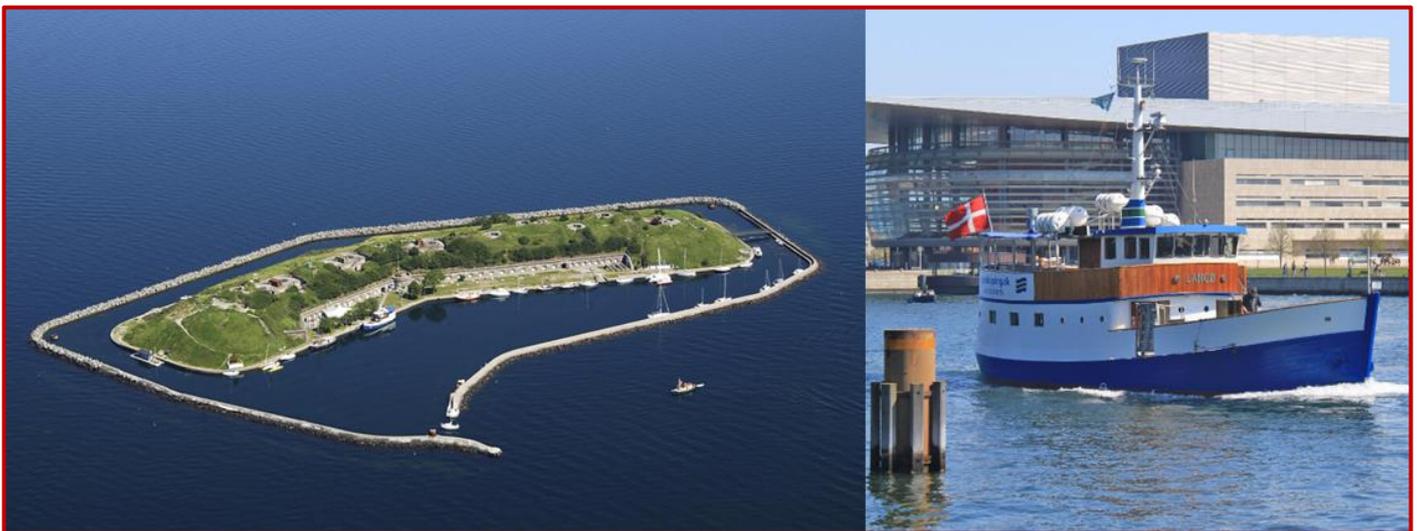
The GPEN2024 organizing committee is delighted to invite you on a boat trip from the heart of central Copenhagen and out to sea! We will board two boats (M/S Langø and M/S Bjørnsholm) for an approximately 50 minute journey that will take us to the fortress island of Flakfortet, where we will receive a historical guided tour – starting at 18:30.

Boat pick-up point: Nyhavn 71, 1051 København. The boat to Flakfortet will depart at 17:00 sharp – please see Venues and Transportation section for more information.

<https://flakfortet.com/>

Restaurant venue: Flakfortet restaurant – Flakfortet Island

What was once a fortress of defense will be the venue for our Day 2 conference dinner, with views over the beautiful Øresund strait. We will enjoy a buffet style dinner and drinks, at 19:30, at the island restaurant. The boats will return to Copenhagen at 22:00 arriving around 23:00.



Gala Dinner (UCPH Frue Plads)

Sponsored by Gilead Sciences, Inc:

Venue: Festsalen Banquet Hall, Frue plads 4 1168 Copenhagen K

July 16th, 18:00 – 23:00

For the gala dinner we invite you on a journey through time in the banquet hall of UCPH, known as “Festsalen”: This historical and magnificent hall is the venue for our delicious three-course gala dinner: After dessert you can lean back for some evening entertainment, brought to you by the student co-chairs and subcommittee.



Dress code: Smart/Casual



Venues and Transportation

Venues

Department of Pharmacy/Conference Venue:

Nørre Allé 69, København Ø, 2100 Denmark

Main Conference Hotel:

Scandic Falkoner, Falkoner Allé 9, Frederiksberg 2000 Denmark

Social/Networking Event:

Flakfortet, 1009 København

The conference day will finish at 16:00 on Monday 15th July: We plan to leave from the Department of Pharmacy and take the metro directly to Kongens Nytorv: The boat will depart from the dock opposite Nyhavn 71 at 17:00: Please consider the weather forecast when preparing for this trip.

Gala Dinner Venue:

University of Copenhagen Hovedbygningen, Frue Plads: 4, 1168 København K

The conference day will finish at 16:10 on Tuesday 16th July, after which it should be possible to return to your hotel prior to the Gala dinner: The Gala dinner venue can be reached by taking either the M1 or M2 metro lines to Nørreport: From Nørreport, the University of Copenhagen Main Building is approximately a 500 m walk:

Transportation

Metro

For travelling within Copenhagen, we recommend using the city's extensive metro system: This is the most accessible and convenient way to travel throughout the city: It is possible to purchase a ticket for public transport through the DOT Ticket App or use the ticket machines available at the Metro/Train Stations: Tickets can be used on the metro, buses and trains within the specified zones.

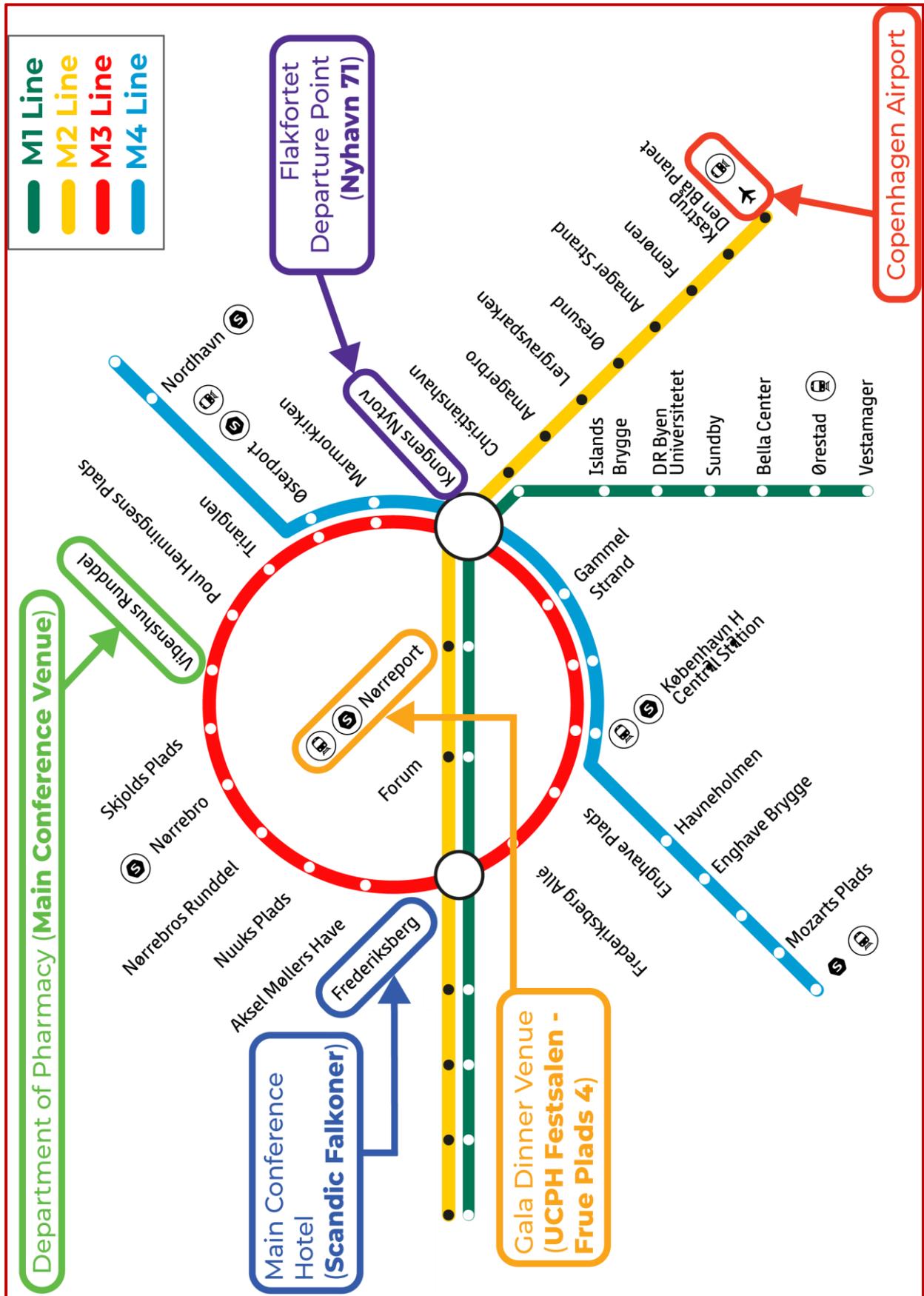

 The logo for DOT (Danish Transport) is a blue square with the letters 'DOT' in white, bold, sans-serif font.

We highly recommend purchasing a “City Pass Small Zone 01-04” ticket covering the duration of the conference (280 DKK for 96 hours). This will cover all transport zones, including to and from Copenhagen Airport. Please be aware that there is ongoing ticket control, and you are ultimately responsible for having the correct tickets prior to boarding any form of public transport. If you are travelling without a valid ticket there is a penalty fine of 750 DKK (Approximately USD \$105, EUR €100).

Planning your journey using public transport can be done easily, either using Google Maps, or Rejseplanen (<https://beta.rejseplanen.dk/>). Metro trains run frequently, every 2-4 minutes during the day, and between 5-15 minutes during the evening/night.

Key Metro Stations

Metro Station	Metro Line	Notes
Vibenshus Runddel (Conference Venue)	M3	350m walk to the UCPH Department of Pharmacy main conference venue
Frederiksberg (Main Conference Hotel)	M1, M2, M3	200m walk to Scandic Falkoner Hotel M2 Metro can be taken directly to Frederiksberg from Copenhagen Airport Take the M3 Metro (towards Nørrebro) to reach the Department of Pharmacy. To return to the hotel take the metro in the opposite direction
Kongens Nytorv	M1, M2, M3, M4	The boat trip will depart at 17:00 sharp from Nyhavn 71 (Approximately 600m walk from the metro station) Take the M3 Metro (Toward Østerport) to travel directly from the conference to the boat departure point.
Nørreport	M1, M2	Approximately 500m walk to Frue Plads (University of Copenhagen Main Building) Take the M1 or M2 lines from Frederiksberg to Nørreport Station (Direction – CPH Airport or Vestamager)



Taxi

Licensed taxis are readily available all over Denmark. It's possible to hail them on the street, if the taxi light on their roof is on. You can also pick one up at the many taxi ranks in the city, or by booking one in advance. Booking a taxi in advance will be slightly more expensive than hailing one. Tipping is always included in the fare. Most taxi drivers will speak English and can give you a receipt at the end of your ride. Drivers are required to display their license number and rate cards. Payment will most often be taken by card. The following taxi companies can be reliably used in the Copenhagen area.

- DanTaxi
- Taxa4x35
- Bolt
- Viggo

Bicycle

Copenhagen is a cycling city. If you wish to explore the city by bike, it is possible to rent a bike very easily. Donkey Republic is one of the cheaper options and can be rented via the Donkey Republic App. Please be aware of the rules of the road when cycling – as these may differ from your previous experience (<https://www.donkey.bike/denmark-cycling-rules/>).

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Conference Attendees

First name	Last name	Affiliation	Email
Hesham	Abdelsamad	University of Iowa	hesham-abdelsamad@uiowa.edu
Yumna	Abu Ghanem	Hebrew University of Jerusalem	yumna.abughanem@mail.huji.ac.il
Kimberly	Adams	University at Buffalo, SUNY	kadams4@buffalo.edu
Ilari	Ahola	University of Copenhagen	ilari.ahola@sund.ku.dk
Anas	Aljabbari	University of Copenhagen	anas.aljabbar@sund.ku.dk
Mireia	Andreu Carbó	University of Geneva	mireia.andreucarbo@unige.ch
Alba	Arbiol Enguita	University of Helsinki	alba.arbiol@helsinki.fi
Amin	Ariaee	University of South Australia	amin.ariaee@unisa.edu.au
Samuel	Arnold	University of Washington	slarnold@uw.edu
Bhavatharini	Arun	University of Southern California	bparthas@usc.edu
Fadilah	Asril	Nagoya City University	fadilahasril@gmail.com
Esha	Attar	Institute of Chemical Technology, Mumbai	eshaattar317@gmail.com
Kenneth	Audus	University of Kansas	audus@ku.edu
Cheryl	Audus	Guest	
Patrick	Augustijns	Katholieke Universiteit Leuven	patrick.augustijns@kuleuven.be
Iori	Azuma	University of Tokyo	azuma-iori@g.ecc.u-tokyo.ac.jp
Udo	Bakowsky	University of Marburg	ubakowsky@aol.com
Heike	Bakowsky	Guest	
Archi	Bansal	University of Queensland	archi.bansal@uqconnect.edu.au
Layla	Barreto	University of Kansas	laylabarreto.f@ku.edu
Emily	Benson	Purdue University	benso101@purdue.edu
Maria Vitoria	Bentley	University of Sao Paulo	vbentley@usp.br
Christel	Bergström	Uppsala University	christel.bergstrom@farmaci.uu.se
Robert	Bies	University at Buffalo, SUNY	robertbi@buffalo.edu
Achim	Biesel	Saarland University	achim.biesel@helmholtz-hips.de
Christine	Blaze	University of Maryland	cblaze@umaryland.edu
Susan	Bogdanowich-Knipp	Guest	
Ben	Boyd	University of Copenhagen	ben.boyd@sund.ku.dk
Davide	Brambilla	University of Montreal	davide.brambilla@umontreal.ca
Finn	Brigger	ETH-Zurich	finn.brigger@pharma.ethz.ch
Birger	Brodin	University of Copenhagen	birger.brodin@sund.ku.dk
Kim	Brouwer	University of North Carolina	kbrouwer@unc.edu
Kenneth	Brouwer	BioIVT	kbrouwer@bioivt.com
Yevgeny	Brudno	University of North Carolina	ybrudno@email.unc.edu
Ewout	Buijs	Leiden University	ewout.buijs@hotmail.com
Michael	Burger	ETH-Zurich	michael.burger@pharma.ethz.ch

Andrew	Burkholder-Wenger	University of Manitoba	acwenger22@gmail.com
Simone	Carneiro	Ludwig Maximilian University of Munich	simone.carneiro@cup.uni-muenchen.de
Roger	Chang	University of Wisconsin	chang253@wisc.edu
Bodhisattwa	Chaudhuri	University of Connecticut	bodhi.chaudhuri@uconn.edu
Suliman	Chawdry	Bristol Myers Squibb	suliman.chawdry@bms.com
Yipan	Chen	Shandong University	chenyipan117@163.com
Jiwei	Chen	Shandong University	cjw1012@thelilab.cn
Eng Hui	Chew	National University of Singapore	phaceh@nus.edu.sg
Youngseok	Cho	University of Michigan	yscho@umich.edu
Cheong-Weon Cho	Cho	Chungnam National University	chocw@cnu.ac.kr
Yeji	Choi	Chungnam National University	5503com14@gmail.com
John	Clarke	Washington State University	j.clarke@wsu.edu
Fabiana	Coelho Inouye	University of Sao Paulo	fabiana.inouye@usp.br
Kyle	Colston	Purdue University	kcolston@purdue.edu
Andrea	Cottingham	University of Maryland	acottingham@umaryland.edu
Michelle	Cousineau	Purdue University	mcousine@purdue.edu
Cristiana	Cunha	University of Copenhagen	cristiana.cunha@sund.ku.dk
Jonathan	Currie	University of Copenhagen	jonathan.currie@sund.ku.dk
Limin	Dai	University of Queensland	l.dai@uq.edu.au
Bryan Wender	Debiasi	University of Sao Paulo	bryanwender@usp.br
Celine	Delansay	University of Paris-Saclay	celine.delansay@universite-paris-saclay.fr
Manisha	Desai	Bristol Myers Squibb	manisha.desai@bms.com
Padma	Devarajan	Institute of Chemical Technology, Mumbai	pv.devarajan@ictmumbai.edu.in
Namrata	Dhakal	National University of Singapore	dhakal_namrata@u.nus.edu
Rong	Di	University of Copenhagen	rdq@novonordisk.com
Ayobami	Diyaolu	Washington State University	ayobami.diyaolu@wsu.edu
Eric	Ebert	University of Kansas	eric.ebert@ku.edu
Charlotte	Eckermann	Saarland University	charlotte.eckermann@uni-saarland.de
Mira	El Sayed	Uppsala University	mira.el-sayed@farmaci.uu.se
William	Elmquist	University of Minnesota	elmqu011@umn.edu
Helen	Erickson	University of Nebraska	helen.erickson@unmc.edu
Nina	Erwin	University of Florida	nerwin@ufl.edu
Maribel	Espinoza Ballesteros	University of Kansas	mespinoza27@ku.edu
Sara	Eyal	Hebrew University of Jerusalem	sara.eyal@mail.huji.ac.il
Muhammad Asim	Farooq	Monash University	muhammad.farooq1@monash.edu
Alessia	Filippini	University of Montreal	alessia.filippini@umontreal.ca

Camilla	Foged	University of Copenhagen	camilla.foged@sund.ku.dk
Wolfgang	Friess	Ludwig Maximilian University of Munich	wolfgang.friess@lrz.uni-muenchen.de
Grahmm	Funk	University of Kansas	gfunk@ku.edu
Aljoscha	Gabelmann	Saarland University	aljoscha.gabelmann@helmholtz-hips.de
Jason	Grunberger	University of Utah	u1204188@utah.edu
Lidia	Habtemikael	Uppsala University	lidia.habtemikael@farmaci.uu.se
Elina	Harju	University of Helsinki	elina.a.harju@helsinki.fi
Mattie	Hartauer	University of North Carolina	mhartauer@unc.edu
Wuzhong	He	University of Copenhagen	wuzhong.he@sund.ku.dk
Mei	He	University of Florida	mhe@cop.ufl.edu
Thordur	Hendrickson-Rebizant	University of Manitoba	hendrict@myumanitoba.ca
Tsuyoshi	Hirata	Kyoto University	hirata.tsuyoshi.56n@st.kyoto-u.ac.jp
Sarah	Hook	University of Otago	sarah.hook@otago.ac.nz
Zobair	Hossain	Guest	
Georgios	Imanidis	University of Basel	georgios.imanidis@unibas.ch
Harshad	Jadhav	Katholieke Universiteit Leuven	harshad.jadhav@kuleuven.be
Wenjie	Jiang	Shandong University	w.jiang@sdu.edu.cn
Lene	Jorgensen	University of Copenhagen	Lene.jorgensen@sund.ku.dk
Vikram Chandrashekhar	Joshi	University of Minnesota	joshi389@umn.edu
Atte	Junnila	University of Helsinki	atte.junnila@helsinki.fi
Angelika	Jüptner	Kiel University	ajueptner@pharmazie.uni-kiel.de
Janika	Jäntti	University of Eastern Finland	janika.jantti@uef.fi
Karunya	Kandimalla	University of Minnesota	kkandima@umn.edu
Jin Sil	Kang	Chungnam National University	jinsil984@gmail.com
Guoyun	Kao	University of Southern California	guoyunka@usc.edu
Tuomas	Kilpeläinen	University of Eastern Finland	tuomas.kilpelainen1@uef.fi
Yoo Joong	Kim	Gilead Sciences, Inc.	YooJoong.Kim@gilead.com
Gregory	Knipp	Purdue University	gknipp@purdue.edu
Levent	Kocabas	Utrecht University	l.i.kocabas@uu.nl
Swetha	Kodamasimham	University of Michigan	kswetha@umich.edu
Jeffery Wei Heng	Koh	National University of Singapore	e0176341@u.nus.edu
Hannah	Kolberg	University of Copenhagen	hannah.kolberg@sund.ku.dk
Daniel	Kolpek	University of Kentucky	djko225@g.uky.edu
Melitini	Koutsovit	University of Copenhagen	mpkt@novonordisk.com
Ethan	Kreutzer	Monash University	ethan.kreutzer@monash.edu
Mie	Kristensen	University of Copenhagen	mie.kristensen@sund.ku.dk
Hanna	Krupke	ETH-Zurich	hanna.krupke@pharma.ethz.ch

Neha	Kumari	University of Nebraska	neha.kumari@unmc.edu
Caden	Kussatz	University of North Carolina	kussatzc@unc.edu
Hiroyuki	Kusuhara	University of Tokyo	kusuhara@mol.f.u-tokyo.ac.jp
Kaysi	Lee	University of Kentucky	KaysiMLee@uky.edu
François-Xavier	Legrand	University of Paris-Saclay	francois-xavier.legrand@universite-paris-saclay.fr
Yaqiao	Li	University of California at San Francisco	yaqiao.li@ucsf.edu
Minyong	Li	Shandong University	mli@sdu.edu.cn
Qingyue	Liu	Shandong University	SDU_qingyue.Liu@outlook.com
Abhijeet	Lokras	University of Copenhagen	abhijeet.lokras@sund.ku.dk
Wanzhen	Lu	National University of Singapore	wanzhenlu@u.nus.edu
Alexandra	Lucas	University of Colorado	alexandra.lucas@cuanschutz.edu
Jittima	Luckanagul	Chulalongkorn University	jittima.luck@gmail.com
Nicole Rose	Lukesh	University of North Carolina	nlukesh@unc.edu
Krishna	Mallela	University of Colorado	krishna.mallela@cuanschutz.edu
Luis	Marky	University of Nebraska	lmarky@unmc.edu
Morgan	Marsh	University of Utah	morgan.marsh@utah.edu
Arlene	McDowell	University of Otago	arlene.mcdowell@otago.ac.nz
Sandro	Mecozzi	University of Wisconsin	sandro.mecozzi@wisc.edu
Donald	Miller	University of Manitoba	donald.miller@umanitoba.ca
Peter	Moyle	University of Queensland	p.moyle@uq.edu.au
Eric	Munson	Purdue University	munsone@purdue.edu
Anette	Müllertz	University of Copenhagen	anette.mullertz@sund.ku.dk
Youngseo	Na	University of Michigan	nays@umich.edu
Ricarda	Nagel	Ludwig Maximilian University of Munich	ricarda.nagel@cup.uni-muenchen.de
Zlata	Nagorna	Leiden University	z.nagorna@lacdr.leidenuniv.nl
Douglas	Nelson	University of Minnesota	nels9816@umn.edu
Myriam	Neumann	Utrecht University	m.neumann@uu.nl
Amy	Neusaenger	University of Wisconsin	neusaenger@wisc.edu
Joe	Nicolazzo	Monash University	joseph.nicolazzo@monash.edu
Mare	Oja	Katholieke Universiteit Leuven	mare.oja@kuleuven.be
Eimear	O'Mahony	University of Washington	eomahony@uw.edu
Melike	Ongun	University of Copenhagen	melike.ongun@sund.ku.dk
Hiroto	Otera	Kyoto University	otera.hiroto.25e@st.kyoto-u.ac.jp
Shawn	Owen	University of Utah	shawn.owen@hsc.utah.edu
Tetsuya	Ozeki	Nagoya City University	ozekit@phar.nagoya-cu.ac.jp
Shaida	Panbachi	University of Basel	Shaida.panbachi@fhnw.ch
Casey	Patrick	University of Colorado	casey.patrick@cuanschutz.edu
Alberte	Pedersen	University of Copenhagen	alberte.pedersen@sund.ku.dk
Carlota	Pereda Serras	University of California at San Francisco	carlota.peredaserras@ucsf.edu

Pornpoj	Phruttiwanichakun	University of Iowa	pornpoj-phruttiwanichakun@uiowa.edu
Tea	Pihlaja	University of Helsinki	tea.pihlaja@helsinki.fi
Susanna	Posio	University of Eastern Finland	susanna.posio@uef.fi
Eduard	Preis	University of Marburg	eduard.preis@pharmazie.uni-marburg.de
Clive	Prestidge	University of South Australia	clive.prestidge@unisa.edu.au
Julian	Quodbach	Utrecht University	j.h.j.quodbach@uu.nl
Thomas	Rades	University of Copenhagen	thomas.rades@sund.ku.dk
Mckenzie	Roy	University of Connecticut	mckenzie.roy@uconn.edu
Serge	Rudaz	University of Geneva	serge.rudaz@unige.ch
Pranav Pankaj	Runwal	Monash University	pranav.runwal1@monash.edu
Craig	Russell	Aston University	c.russell6@aston.ac.uk
Yezan	Salamoun	University of Kansas	Ymsalamoun@ku.edu
Manveer	Sandhu	Aston University	149094748@aston.ac.uk
Cindy	Schelker	University of Geneva	cindy.schelker@unige.ch
Oliver	Scherf-Clavel	Ludwig Maximilian University of Munich	O.Scherf-Clavel@lmu.de
Regina	Scherließ	University of Copenhagen	rscherliess@pharmazie.uni-kiel.de
Sebastian Horst Friedrich	Schlüter	University of Marburg	sebastian.schlueter@pharmazie.uni-marburg.de
Severin	Schneebeli	Purdue University	schneebeli@purdue.edu
Anna	Schwendeman	University of Michigan	annaschw@umich.edu
Steven	Schwendeman	University of Michigan	thardy@umich.edu
Lisa	Schöne	University of Marburg	lisa.schoene@pharmazie.uni-marburg.de
Yara	Sheeni	Hebrew University of Jerusalem	yara.sheeni@mail.huji.ac.il
Hui-Wen	Shih	Gilead Sciences, Inc.	hui-wen.shih@gilead.com
Yan	Shu	University of Maryland	yshu@rx.umaryland.edu
Teruna	Siahaan	University of Kansas	siahaan@ku.edu
Nanette	Siahaan	Guest	
Kathleen	Sircombe	University of Otago	ksircombe@gmail.com
Mia	Siven	University of Helsinki	mia.siven@helsinki.fi
Lewis	Stevens	University of Iowa	lewis-stevens@uiowa.edu
Clare	Strachan	University of Helsinki	clare.strachan@helsinki.fi
Simon	Su	University of Otago	susi1146@student.otago.ac.nz
Santhni	Subramaniam	University of South Australia	santhni.subramaniam@unisa.edu.au
Astrid	Subrizi	University of Eastern Finland	astrid.subrizi@uef.fi
Showmika Tabassum	Supti	Monash University	showmika.supti@monash.edu
Nana	Svane	University of Copenhagen	nana.svane@sund.ku.dk
Yoshinobu	Takakura	Kyoto University	takakura@pharm.kyoto-u.ac.jp
Ryutaro	Tamura	University of Tokyo	tamura.dotai@gmail.com
Poorva	Taskar	University of Kansas	poorva_t@ku.edu

Sirikool	Thamniun	Chulalongkorn University	molecully_123@hotmail.com
Maria	Thaysen	University of Copenhagen	mthaysen@sund.ku.dk
Léa	Thiberville	University of Paris-Saclay	lea.thiberville@universite-paris-saclay.fr
Peter	Thøgersen	Pharmadanmark	pt@pharmadanmark.dk
Pooja	Todke	Institute of Chemical Technology, Mumbai	poojatodke34@gmail.com
Eetu	Valkama	University of Eastern Finland	eetu.valkama@uef.fi
Vincent	Venditto	University of Kentucky	vincent.venditto@uky.edu
Julius	Viita	University of Eastern Finland	julius.viita@uef.fi
Andrea Lucia	Villela Nava	University of Kansas	alvillela2@ku.edu
Matthias	Wacker	National University of Singapore	matthias.g.wacker@nus.edu.sg
Fengshan	Wang	Shandong University	fswang@sdu.edu.cn
Agnes-Valencia	Weiss	Saarland University	agnes.weiss@uni-saarland.de
Lindsey	Williams	University of Washington	lmw99@uw.edu
Priscila	Yamamoto	University of Florida	priscilayamamoto@ufl.edu
Da Hye	Yang	University of Connecticut	da_hye.yang@uconn.edu
Mehran	Yazdanian	Teva Pharmaceuticals	mehran.yazdanian@tevapharm.com
Peng	Zhan	Shandong University	zhanpeng1982@sdu.edu.cn
Yong	Zhang	University of Southern California	yongz@usc.edu
Xinke	Zhang	Shandong University	zhangxinke@sdu.edu.cn
Heyang	Zhang	Leiden University	h.zhang@lacdr.leidenuniv.nl
Jiayi	Zhao	Uppsala University	jiayi.zhao@farmaci.uu.se
Dan	Zhao	Monash University	dan.zhao1@monash.edu

GPEN 2024 Organizing Committee

Faculty Co-chairs



**Prof.
Camilla Foged**



**Prof.
Thomas Rades**



**Prof.
Ben Boyd**



**Prof.
Anette Müllertz**

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Anas Aljabbari



Melike Ongun



Jonathan Currie



Nana Svane



Anna-Lena Gürtler

Sub-committee Team Members



Maria Thaysen



Ilari Ahola



Hannah Kolberg



Cristiana Cunha

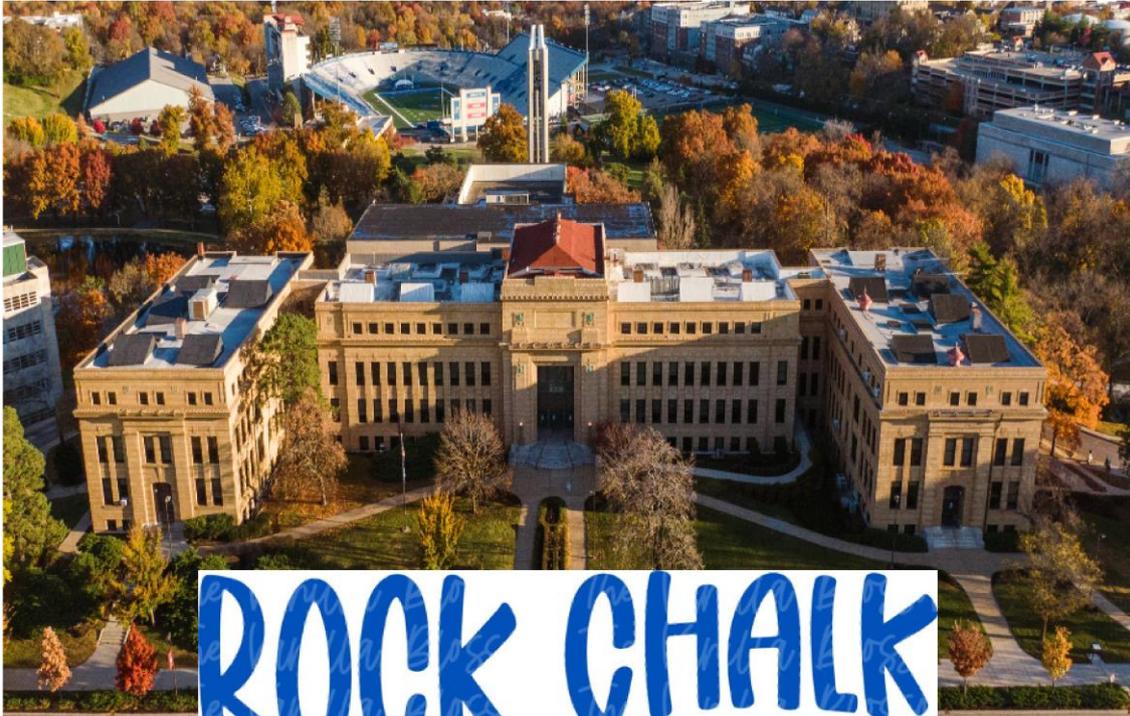


Wuzhong He



Abhijeet Lokras

WELCOME TO GPEN 2026



**ROCK CHALK
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LAWRENCE, KANSAS



Notes

