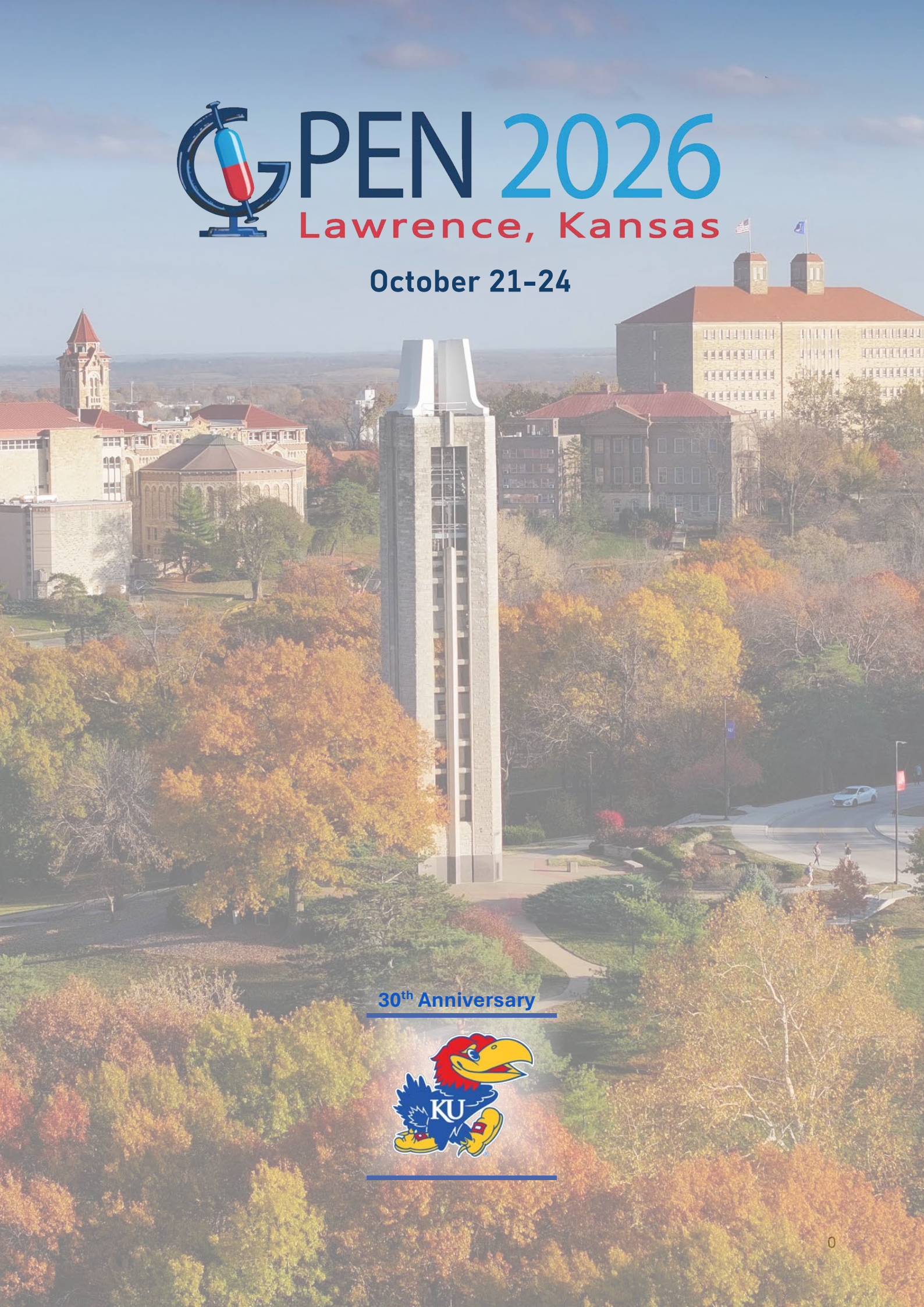


GPEN 2026

Lawrence, Kansas

October 21-24

30th Anniversary

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Welcome from the GPEN 2026 Organizing Committee

We are delighted to welcome you to the 15th Globalization of Pharmaceutics Education Network (GPEN) biennial meeting at the University of Kansas (KU). GPEN 2026 is especially meaningful as it marks the 30th anniversary of GPEN and brings the conference back to Lawrence, Kansas, where it was founded in 1996 within the Department of Pharmaceutical Chemistry at KU. This meeting also provides an opportunity to honor the legacy of Dr. Ronald T. Borchardt, founder of GPEN and Distinguished Professor Emeritus at the University of Kansas. Dr. Borchardt's vision was to create an international platform where young pharmaceutical scientists could share their research, build professional connections, and prepare for careers in an increasingly global pharmaceutical sciences community. Thirty years later, GPEN continues to reflect that vision through student-centered scientific exchange, international collaboration, and mentorship across academia and industry.

A unique strength of GPEN is that each meeting is organized largely by graduate students at the host institution, with support and guidance from faculty mentors. This year's program will welcome approximately 200 attendees and will feature 45 podium presentations, 73 poster presentations, and six short courses spanning timely areas of pharmaceutical science. We are also honored to welcome Wendy Young, Ph.D., as the GPEN 2026 keynote speaker. Her lecture, "Adventures in Drug Hunting," will open the meeting and highlight a distinguished career in drug discovery and development.

Beyond the scientific program, we hope GPEN 2026 provides opportunities to reconnect with colleagues, meet new collaborators, and experience the University of Kansas and the Lawrence community. From the welcome reception and networking event to the gala dinner at Abe & Jake's Landing and the short courses at the KU School of Pharmacy, our goal is to create an environment that encourages scientific exchange, professional growth, and lasting connections. We are honored to welcome you back to KU for this special anniversary meeting and look forward to celebrating the continued impact of GPEN and Dr. Borchardt's vision.

Welcome to Lawrence, Kansas, and welcome to GPEN 2026.

On behalf of the GPEN 2026 Local Organizing Committee,

Student Organizing Committee and Subcommittee Members: Yezan Salamoun, Grahmm Funk, Zahraa Al-Tamimi, Sydney Houser, Olivia Ngo, Sivani Badrivenkata, Indeewara Munasinghe, Jessi Chan, Amin Haghighat, Mounika Katamneni, Hashim Reza, Benjamin Odei Nyarko, and Haylin Garrison.

Faculty Organizing Committee: Nancy Helm, Dr. Jeffrey Krise, Dr. Teruna Siahaan, and Dr. Ken Audus.

Acknowledgements

The GPEN 2026 Organizing Committee extends its sincere appreciation to the University of Kansas School of Pharmacy for providing its facilities for the GPEN 2026 Short Courses.

We are deeply grateful to everyone whose support, guidance, and contributions have made GPEN 2026 possible. We would especially like to recognize and thank:

- GPEN Board of Directors

  Ken Audus, Teruna Siahaan, Yoshi Takakura, and Jeff Krise for their leadership and continued dedication to GPEN.

- GPEN Executive Committee

  Bianca Liederer, Christel "Kicki" Bergström, Christian Schöneich, Jeff Krise, Joe Nicolazzo, Ken Audus, Kim Brouwer, M. Vitória Bentley, Teruna Siahaan, Yoshi Takakura, and Steve Schwendeman for their guidance and contributions to the organization.

- Ms. Nancy Helm (University of Kansas) for her many years of dedicated service to the Department of Pharmaceutical Chemistry and her continued support even after retirement. We are especially grateful for her invaluable assistance with the planning and organization of GPEN 2026.

- Dr. Wendy Young, our keynote speaker, for her participation and contribution to the conference.

- All GPEN 2026 sponsors for their generous support.

- All oral and poster presentation judges for their time and expertise.

- All industry participants for sharing their knowledge and perspectives.

- All short course coordinators and faculty and industry speakers for their contributions to the educational program.

- All session chairs for facilitating the scientific sessions.

- All Career Center participants for supporting professional development and networking opportunities.

- The GPEN 2026 Organizing Committee for its dedication and efforts in planning and coordinating the conference.

Keynote Address: Adventures in Drug Hunting



Wendy Young, Ph.D. is a widely recognized and distinguished biotech executive with more than 30 years of experience in the discovery and development of innovative medicines. She currently serves as a board member and scientific advisor to multiple biotechnology companies and is an advisor to Google Ventures (GV).

Previously, Wendy was Senior Vice President of Small Molecule Drug Discovery at Genentech, where she built and led the organization responsible for advancing more than 25 clinical candidates across oncology, immunology, antibacterial, and neuroscience programs. She was the research leader and co-inventor of fenebrutinib, which has demonstrated positive Phase 3 results in multiple sclerosis.

Beyond her industry impact, Wendy has made significant contributions to the broader scientific community. She has served as elected Chair of the ACS Division of Medicinal Chemistry and as an editor for the *Journal of Medicinal Chemistry*. She is an author or inventor on more than 80 scientific publications and patents.

Her leadership and scientific achievements have been widely recognized. She was inducted as an ACS Fellow in 2018, named one of Endpoint News' *Top 20 Women in Biopharma* in 2019, awarded the Earle B. Barnes Award for Chemical Leadership in 2020, and inducted into the MEDI Hall of Fame in 2024.

Wendy earned her PhD in Chemistry from Princeton University and completed postdoctoral training at Memorial Sloan Kettering Cancer Center.

Event Highlights

Wednesday, October 21st

Welcome Remarks *Sponsored by Gilead Sciences*

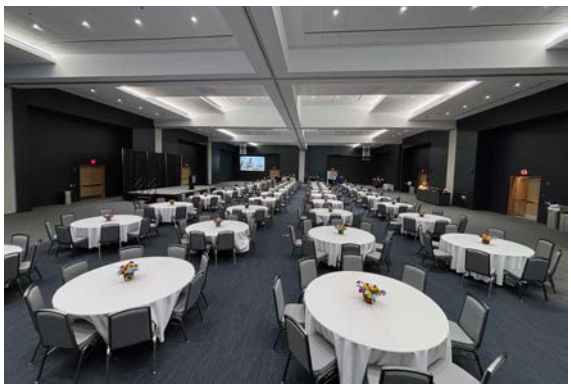


Arash Mafi, Ph.D., Chief Academic Officer, Provost, and Executive Vice Chancellor of the University of Kansas Lawrence and Edwards Campuses, will formally welcome GPEN participants to the University of Kansas and recognize the organization's role in bringing together students, postdoctoral researchers, faculty, and scientists from across the pharmaceutical sciences field worldwide.

Kenneth Audus, Dean Emeritus of Pharmacy at KU and Chair of the GPEN Board of Directors, will reflect on GPEN's history and honor the legacy of Dr. Ronald T. Borchardt, who founded GPEN at the University of Kansas in 1996 and passed away earlier this year. GPEN 2026 marks the organization's 30th anniversary and its return to the institution where it was founded.

Time: 5:00pm - 5:30pm

Keynote Lecture *Sponsored by Captisol, A Ligand Technology*



The opening program will be followed by the Ronald T. Borchardt Keynote Lecture, "Adventures in Drug Hunting," delivered by Wendy Young, Ph.D., a distinguished biotechnology executive and former Senior Vice President of Small Molecule Drug Discovery at Genentech.

Time: 5:30pm - 6:30pm

Welcome Reception *Sponsored by Novartis*



Please join us for the Welcome Reception following the Keynote Lecture at the KU Conference Center. The reception will feature hors d'oeuvres and hosted beer and wine, with additional spirits available for individual purchase. It will provide an informal opportunity to reconnect with longtime GPEN colleagues and meet attendees from around the world.

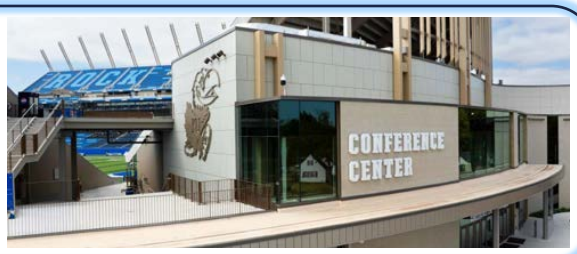
Time: ***6:30pm - 8:00pm***

Venue

KU Conference Center

815 Fambrough Drive

Lawrence, KS 66044



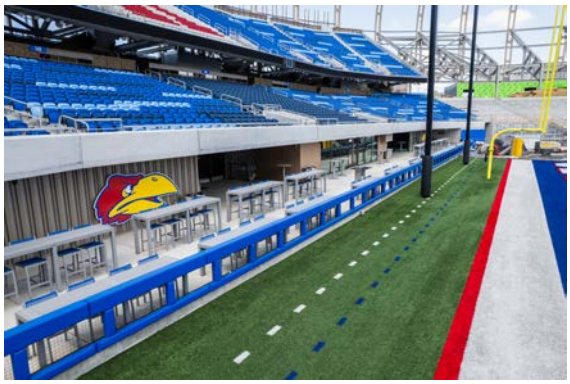
Thursday, October 22nd

Networking Event and Dinner **Sponsored by Bristol Myers Squibb**

Join us Thursday evening for a uniquely KU networking event at the 1921 Field Club and David Booth Kansas Memorial Stadium, one of the university's most storied gathering places and a setting deeply connected to generations of Jayhawk tradition. Attendees will enjoy dinner served throughout the evening, exclusive access to the stadium field and end zone, lawn and field activities, and special appearances from KU spirit groups, including the KU Band, cheerleaders, and Baby Jay.

Don't forget to wear comfortable shoes!! ☺

Time 5:30pm - 10:00pm



Venue

KU Conference Center/ Field End Zone

815 Fambrough Drive

Lawrence, KS 66044



Friday, October 23rd

Gala Dinner ***Sponsored by KU Department of Pharmaceutical Chemistry***

The GPEN 2026 Gala Dinner will be held Friday evening at Abe & Jake's Landing in downtown Lawrence. The evening will feature a Jack Stack Barbecue dinner, including an interactive build-your-own spice-rub station, beverages, and an interactive quiz competition with a prize for the winning table. The Gala will bring attendees together for the final evening social event of GPEN 2026 and an opportunity to celebrate the organization's 30th anniversary.

Time: 6:00pm - 10:00pm

Dress code: *Smart/Casual*



Venue

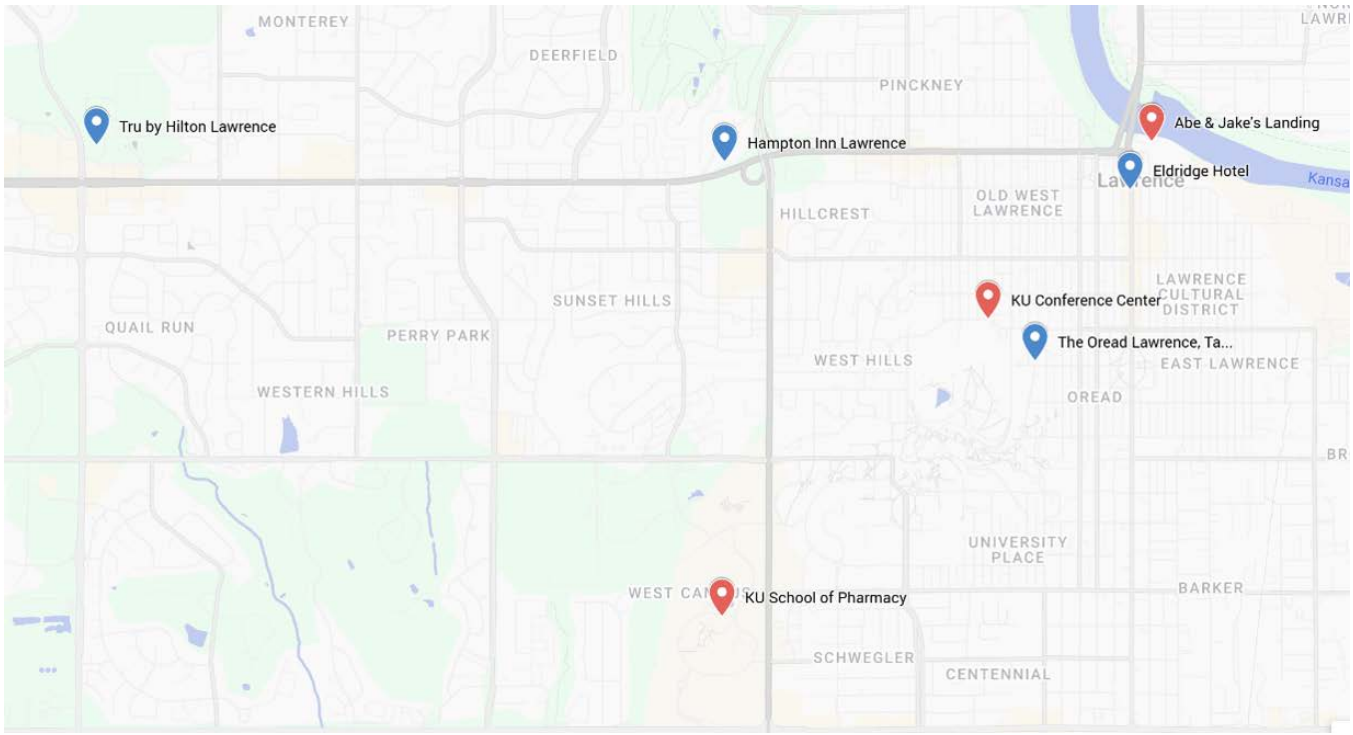
Abe & Jake's Landing

8 East 6th St.

Lawrence, KS 66044



Event Map & Venues



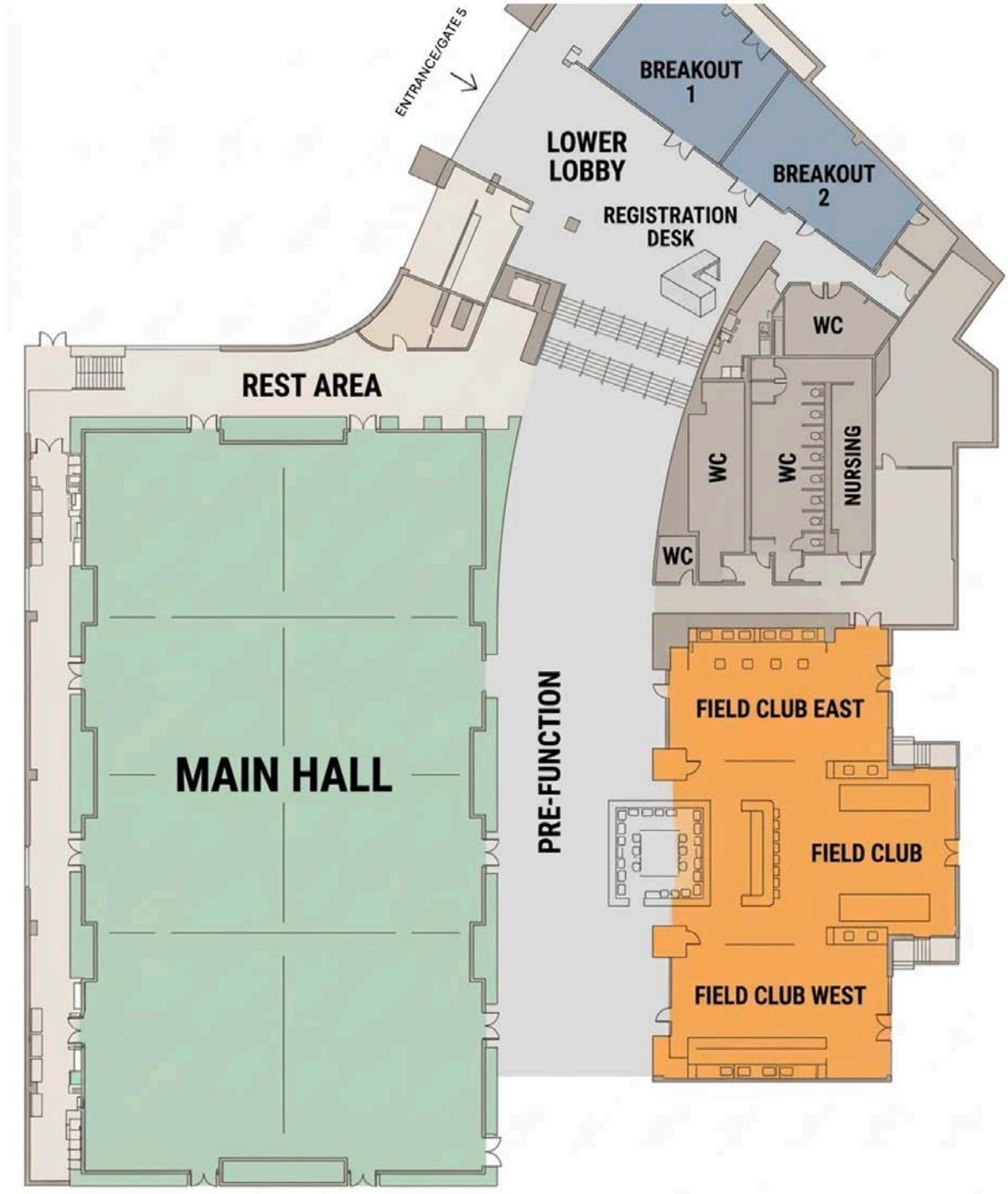
Venue/Location	Purpose/Event	Address
KU Conference Center	Conference	815 Fambrough Drive Lawrence, KS 66044
KU School of Pharmacy	Short Courses	2010 Becker Drive Lawrence, KS 66047
Abe & Jake's Landing	Gala Dinner	8 East 6th St. Lawrence, KS 66044
Eldridge Hotel	Hotel	701 Massachusetts St Lawrence, KS 66044
The Oread Lawrence	Hotel	1200 Oread Ave Lawrence, KS 66044
Hampton Inn Lawrence	Hotel	2300 W. 6th Street Lawrence, Kansas 66049
Tru by Hilton Lawrence	Hotel	510 Wakarusa Drive Lawrence, Kansas 66049

KU Conference Center



Address:
815 Fambrough Drive
Lawrence, KS 66044

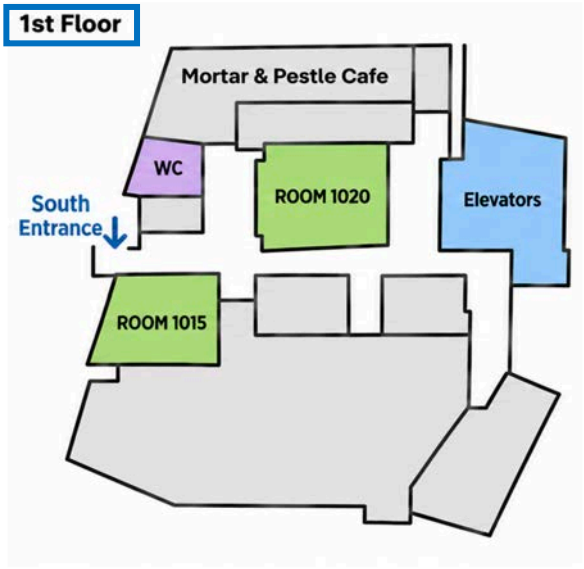
Entrance: GATE 5

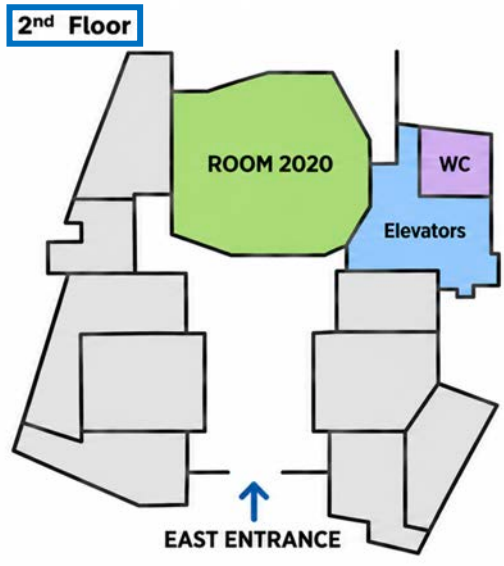


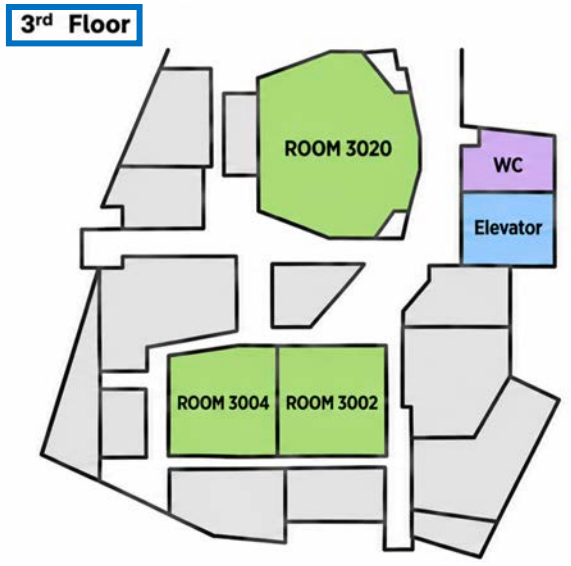
KU School of Pharmacy



Address:
2010 Becker Drive
Lawrence, KS 66047



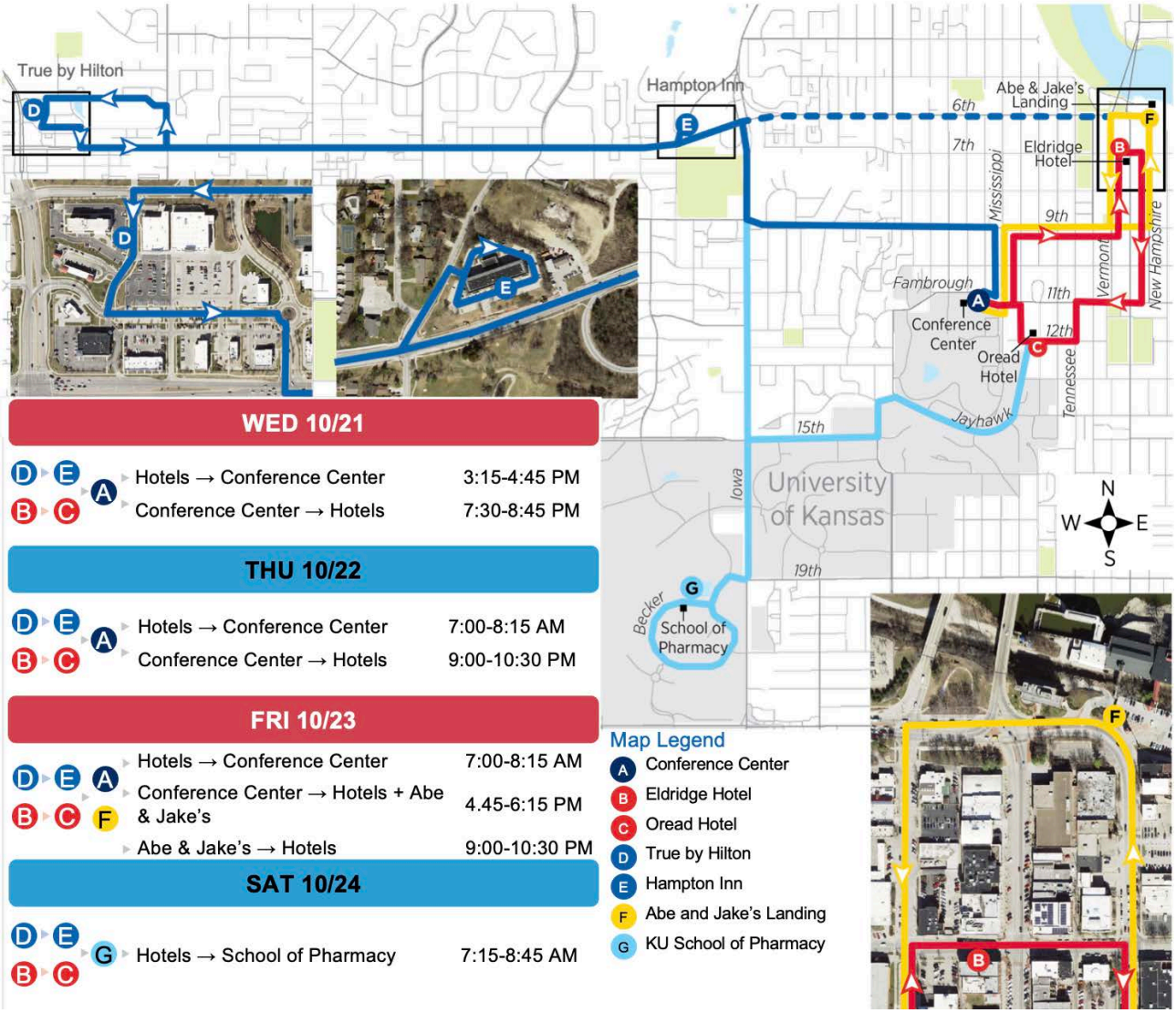




The **main entrance** to the **KU School of Pharmacy**, located at 2010 Becker Drive, is on the **east side** of the building (shown in the photo above). This entrance provides direct access to the **2nd floor**. From the 2nd floor, use the stairs or elevators to access the **1st or 3rd floors**.

Transportation

Transportation During Conference



Shuttles circulate approximately every 15 minutes during transportation windows.

Complimentary shuttle services will be available during the transportation windows shown in the schedule. Shuttles will circulate approximately every 15 minutes during these periods. The **blue route** serves Tru by Hilton and Hampton Inn, while the **red route** serves The Oread and The Eldridge.

Airport Shuttle Schedule

Complimentary transportation will be provided from the Kansas City International Airport (MCI) to Lawrence, Kansas. Attendees can locate the shuttle buses at the lower-level arrivals commercial hub at MCI. Once arriving in Lawrence, the shuttle buses will loop through the following 4 hotels: Eldridge, Oread, Tru by Hilton, and Hampton Inn. At the conclusion of the conference, transportation will again be provided from the University of Kansas School of Pharmacy (Lawrence, Kansas) to MCI. The dates and departure times for all shuttle buses are shown in the table below:

Date	Route	Departure Times
Tue, Oct 20	MCI → Lawrence	10:30 AM, 2:00 PM, 6:00 PM
Wed, Oct 21	MCI → Lawrence	10:00 AM, 1:00 PM
Sat, Oct 24	Lawrence → MCI (from School of Pharmacy)	2:00 PM

Airport shuttle pickup: Lower-level Arrivals commercial curb at MCI.

For attendees arriving and/or leaving from Lawrence at a time that is not conducive to use the GPEN-sponsored shuttle buses, there are plenty of other options available. Please refer to the following link: https://flykc.com/getting-to-and-from If you scroll to the bottom, you will find various transportation options, including taxi and app-based ride share services.

Transportation Alternatives

Uber and Lyft are available in Lawrence and provide convenient transportation throughout the city. International guests who do not already have these apps are encouraged to download and set up an account before traveling. Account registration requires a valid phone number capable of receiving SMS verification messages. A U.S. phone number is not necessarily required, but international guests should ensure that their phone service allows them to receive verification messages while in the United States.

For transportation-related questions or assistance during the conference, please contact the GPEN Transportation Coordinator at aruna_munasinghe@ku.edu or Phone 785-840-8633.

Program Overview

Day 1: Wednesday, October 21st

Venue: **KU Conference Center**
815 Fambrough Drive
Lawrence, KS 66044

Time	Event	Location
4:00 PM - 8:00 PM	***Conference Registration*** Attendee registration and badge pick-up. *Sponsored by Gilead Sciences*	KU Conference Center
5:00 PM – 5:30 PM	***Welcome Remarks*** Opening welcome remarks for GPEN 2026. *Sponsored by Gilead Sciences*	KU Conference Center
5:30 PM – 6:30 PM	***Keynote Lecture*** Wendy Young, Ph.D., Adventures in Drug Hunting. *Sponsored by Captisol, A Ligand Technology*	KU Conference Center
6:30 PM – 8:00 PM	***Welcome Reception*** Opening reception for conference attendees. *Sponsored by Novartis*	KU Conference Center – Field Club

Day 2: Thursday, October 22nd

Venue: KU Conference Center
815 Fambrough Drive
Lawrence, KS 66044

Time	Event	Location
8:30 AM – 9:30 AM	***Podium Presentation Session 1: Borchardt Travel Fellows*** Scientific podium presentations. *Sponsored by Ronald T. and Pamela Borchardt*	KU Conference Center
9:30 AM – 10:00 AM	***Coffee Break*** Morning coffee break. *Sponsored by Kailas & Dhiren Thakker*	KU Conference Center
10:00 AM – 12:00 PM	***Podium Presentation Session 2*** Scientific podium presentations.	KU Conference Center

12:00 PM – 1:00 PM	***Lunch*** Lunch for conference attendees. *Sponsored by Pfizer Inc.*	KU Conference Center – Field Club
1:00 PM – 2:00 PM	***Poster Session 1 and Coffee Break*** Poster presentations and coffee break. Odd-Numbered Posters	KU Conference Center
2:00 PM – 3:40 PM	***Podium Presentation Session 3*** Scientific podium presentations.	KU Conference Center
3:40 PM – 4:00 PM	***Coffee Break*** Afternoon coffee break. *Sponsored by Teva Pharmaceuticals*	KU Conference Center
4:00 PM – 5:00 PM	***Podium Presentation Session 4*** Scientific podium presentations.	KU Conference Center
5:30 PM – 10:00 PM	***Networking Event and Dinner*** Evening networking event and dinner. *Sponsored by Bristol Myers Squibb*	KU Conference Center – Field End Zone

Day 3: Friday, October 23rd

Venue: KU Conference Center | **Abe & Jake's Landing**

815 Fambrough Drive | 8 East 6th St.

Lawrence, KS 66044 | Lawrence, KS 66044

Time	Event	Location
8:30 AM – 9:50 AM	***Parallel Podium Presentation Sessions 5*** Scientific parallel podium presentations.	KU Conference Center
9:50 AM – 10:00 AM	***Coffee Break*** Morning coffee break. *Sponsored by AstraZeneca*	KU Conference Center
10:00 AM – 11:40 AM	***Parallel Podium Presentation Sessions 6*** Scientific podium presentations.	KU Conference Center
12:00 PM – 1:00 PM	***Lunch*** Lunch for conference attendees. *Sponsored by Madison & Lila Self Graduate Programs*	KU Conference Center
1:00 PM – 2:30 PM	***Poster Session 2 and Coffee Break*** Even-Numbered Posters *Sponsored by Amgen*	KU Conference Center

2:30 PM – 4:30 PM	***Parallel Podium Presentation Sessions 7*** Scientific podium presentations.	KU Conference Center
5:00 PM – 6:00 PM	***Transportation to Hotels / Gala Dinner*** Bus transportation from the conference area to hotels and the gala dinner.	Buses
6:00 PM – 10:00 PM	***Gala Dinner*** GPEN 2026 gala dinner. *Sponsored by KU Department of Pharmaceutical Chemistry*	Abe & Jake's Landing
9:00 PM – 10:00 PM	***Return Transportation to Hotels*** Return bus transportation to hotels.	Buses

Day 4: Saturday, October 24th

Venue: KU School of Pharmacy
2010 Becker Drive
Lawrence, KS 66047

Time	Event	Location
9:00 AM – 10:00 AM	***Short Courses – Part 1*** GPEN short course sessions. *Sponsored by Gattefossé*	School of Pharmacy
10:00 AM – 10:20 AM	***Coffee Break*** Short course coffee break. *Sponsored by Journal of Pharmaceutical Sciences*	School of Pharmacy
10:20 AM – 12:00 PM	***Short Courses – Part 2*** GPEN short course sessions. *Sponsored by Gattefossé*	School of Pharmacy
12:00 PM – 1:00 PM	***Lunch*** Lunch for short course attendees. *Sponsored by Eli Lilly and Company*	School of Pharmacy – Mortar & Pestle Café
1:00 PM – 1:30 PM	***Closing Remarks and Awards*** Closing remarks and awards presentation. *Sponsored by ACS Publications*	School of Pharmacy
2:00 PM -	***Final Buses to MCI Airport*** Final bus transportation to MCI Airport.	School of Pharmacy

Podium Sessions

Podium Session 1: Borchardt Fellowship **Sponsored by Ronald T. and Pamela Borchardt**

Location: **KU Conference Center, Main Hall**

Time	Title	Presenter	Affiliation
8:30-9:00	Small Molecule Disaggregases of α-Synuclein: Discovery, Optimization, and LAT1-Mediated Brain Delivery	Ryan Foreman	University of Southern California
9:00-9:30	Composition-Dependent Tolerance of Marketed Trastuzumab Drug Products to an Aggressive Freeze-Drying Cycle	Hesham Refaat	University of Iowa

Podium Session 2

Location: **KU Conference Center, Main Hall**

Time	Title	Presenter	Affiliation
10:00-10:20	Physiological Intelligence Powered by PBPK–PD–VD and Mechanism-Informed AI for Precision Antiviral Therapy	Arjun Kolappurath Madathil	National University of Singapore
10:20-10:40	Development of a liquid formulation for colonic delivery of glial cell–derived neurotrophic factor in Hirschsprung disease	Elisa Goetzinger	ETH Zurich
10:40-11:00	Evaluating the Menstrual Cycle Impact on Drug Exposure in the Female Reproductive Tract	Xinnong Li	State University of New York at Buffalo
11:00-11:20	Designing Lipid-Porphyrin Conjugate-based Assemblies against Local Antibiotic-Resistant Bacterial Infections	Khatia Merabishvili	Paris-Saclay
11:20-11:40	Development of vaccines that sustainably release small extracellular vesicles containing antigens and adjuvants using GelMA microspheres	Hiroto Otera	Kyoto University
11:40-12:00	Effect of antiseizure medications on cytochrome P450 2C19 Activity: A systematic review and network meta-analysis	Rachel Shein Oshri	The Hebrew University of Jerusalem

Podium Session 3

Location: **KU Conference Center, Main Hall**

Time	Title	Presenter	Affiliation
2:00-2:20	Unraveling the dynamics and mechanisms of alpha-synuclein aggregation and neurotoxicity	Annabel Menendez	University of California San Francisco
2:20-2:40	Improved Encapsulation and Potential of Liposomal Tosufloxacin via Inclusion in Cyclodextrin	Hemat Mostafa	Nagoya City University
2:40-3:00	Predicting the Long-Term Effects of Inhaled Corticosteroids on Bone Development in Children	Brittann Pierce	University of Florida
3:00-3:20	Genetically Engineered Exosomes Targeting Transferrin Receptor 1 for Versatile Cancer Therapeutic Applications	Zeyu Zhang	University of Southern California
3:20-3:40	Failure Mechanisms of High Drug Load Amorphous Solid Dispersions	Simisol Arinze	Purdue University

Podium Session 4

Location: **KU Conference Center, Main Hall**

Time	Title	Presenter	Affiliation
4:00-4:20	Interfacial Characterization of Antibody Self-Association Across Advanced Therapeutic Modalities	Siddhanth Hejmady	University of Iowa
4:20-4:40	Xyloglucan Matrix Tablets: A Platform for Colon-Targeted Delivery of Drugs and Live Biotherapeutic Products	Daniel Preisig	University of Basel
4:40-5:00	Investigating the effects of obesity on central nervous system-draining lymphatic structure and function	Hefeng Song	Monash University

Podium Session 5A

Location: **KU Conference Center, Main Hall**

Time	Title	Presenter	Affiliation
8:30-8:50	CDK7 Inhibition: A Novel Therapeutic Strategy for Doxorubicin-Induced Cardiotoxicity	Mahder Belew	Washington State University
8:50-9:10	A Theranostic Strategy Targeting Circulating Tumor Cells via both 5-ALA induced Fluorescence and Photodynamic Therapy	Michel Frommholz	University of Marburg
9:10-9:30	Chemical Modification of Hyaluronic Acid with Ascorbyl Palmitate: Synthesis, Structural Characterization, and Its Efficacy	Pattarachat Ingrungruengluet	Chulalongkorn University
9:30-9:50	B cell-targeted microparticles for antigen-specific multiple sclerosis vaccine	George Barbery	University of North Carolina

Podium Session 5B

Location: **KU Conference Center, Main Hall**

Time	Title	Presenter	Affiliation
8:30-8:50	Controlled Release of Extracellular Vesicles from Freeze-Dried Hydrogels for Improved Wound Healing	Julia Monola	University of Helsinki
8:50-9:10	Solid-phase strategy for efficient diversification and functional evaluation of ionizable triazine lipids for mRNA delivery	Julian Mory	University of Kentucky
9:10-9:30	Itaconate-based Nanoparticles Promote Antigen-Specific Immune Tolerance in Multiple Sclerosis through Immunometabolic Reprogramming	Fanny Xu	University of Maryland
9:30-9:50	ALI-Cultured Dog and Human Intestinal Organoid-Derived Monolayers as a Translational Platform for Drug-Induced Gastrointestinal Toxicity Assessment	Mana Namai	Tokyo University

Podium Session 6A

Location: **KU Conference Center, Main Hall**

Time	Title	Presenter	Affiliation
10:00-10:20	Pharmacokinetics and CNS Penetrance of the Novel ATR inhibitor AD1058	Jiayan Le	University of Minnesota
10:20-10:40	R,S-Ketamine for Internalizing Disorders: Molecular Insights into Treatment-Responsive microRNA Changes	Md Firoz Alam	University of Otago
10:40-11:00	Engineering Intra-Bone Distribution of Antisense Oligonucleotides Using Bone-Affinitive Oligopeptide Conjugates	Ruba Almasri	Adelaide University
11:00-11:20	Proteomic and functional profiling of suspended jejunal enteroids reveals pharmacokinetic fidelity to native intestine	Foteini Tzioufa	Uppsala University
11:20-11:40	Toward Improved Prediction of Drug-Induced Cholestasis: A Mechanism-Based Hepatic Tri-Culture Approach	Caro Mertens	KU Leuven

Podium Session 6B

Location: **KU Conference Center, Main Hall**

Time	Title	Presenter	Affiliation
10:00-10:20	Polymer Core-Lipid Shell Nanoparticles with Enhanced Mechanical Stability for Pulmonary mRNA Delivery	Vesa Kopliku	University of Saarland
10:20-10:40	Liquid Crystalline Nanoparticles for Efficient mRNA Delivery and Efficacy as a Therapeutic Melanoma Vaccine	Bryan Wender Debiasi	University of Sao Paulo
10:40-11:00	Functionalized FZD7-PTX-PLGA Nanoparticle System for Tripple Negative Breast Cancer	Crystal Madera Enriquez	University of Texas-El Paso
11:00-11:20	Immunomodulatory effects and physiologically based modeling of microbial metabolite-delivering polymeric prodrugs	Lindsey Williams	University of Washington
11:20-11:40	Effect of permeability enhancers on ex vivo ocular drug transport across sclera, conjunctiva, and sclera-choroid-RPE	Jonna Laitinen	University of Eastern Finland

Podium Session 7A

Location: **KU Conference Center, Main Hall**

Time	Title	Presenter	Affiliation
2:30-2:50	Overcoming extrahepatic delivery barriers: a versatile renal-targeting ligand for oligonucleotides, lipid nanoparticles, and targeted protein degradation	Ruchi Ruchi	University of Connecticut
2:50-3:10	Impact of Oxidative Degradation on Conformational Stability and Biological Activity of Subcutaneously Formulated Therapeutic Antibodies	Moustafa Abdelaziz	University of Kansas
3:10-3:30	Modular PLGA Implants for Local Co-Delivery of a PARP Inhibitor and STING Agonist in H3.3 G34-Mutant Diffuse Hemispheric Glioma	Helen Ju	University of Michigan
3:30-3:50	Selective Enhancement of Surface Mobility by Ultrasound of Amorphous Pharmaceuticals	Sichen Song	University of Wisconsin
3:50-4:10	SITE: A Modular Platform for Selective Immune Cell Engagement in Cancer Immunotherapy	Shannuo Li	University of Utah
4:10-4:30	Lipid Nanoparticles for Systemic Delivery of SRX3305 and miR-217 Hairpin Inhibitor to Overcome Therapeutic Resistance in Medulloblastoma	Tanvi Patil	University of Nebraska

Podium Session 7B

Location: **KU Conference Center, Main Hall**

Time	Title	Presenter	Affiliation
2:30-2:50	Understanding the role of interferon-lambda in nanoparticle drug delivery	Natalie Carter Blake	University of Colorado
2:50-3:10	Addressing structural and compositional heterogeneity in mRNA-LNP formulations	Anas Aljabbari	University of Copenhagen
3:10-3:30	A Bioinspired Bilirubin-Albumin Nanoplatform for Liver-Directed Sorafenib Delivery in Hepatocellular Carcinoma Therapy	Young Ju Jo	Chungnam National University
3:30-3:50	Fully Synthetic Antibody Drug Conjugates for Drug Delivery	Leif Janke	Leiden University
3:50-4:10	Systematic screening of lipid nanoparticle compositions identifies helper lipids as one of key factors of improving endosomal escape and mRNA delivery	Zhuqing van Veen-Dai	Utrecht University

Short Courses

Sponsored by Gattefossé

Location: KU School of Pharmacy
2010 Becker Drive
Lawrence, Kansas 66047

Short Course 1: Vaccines and Immunotherapy

Organizers: Ming Zhao, University of Kansas; David Volkin, University of Kansas
Room: 3002

Time	Presenter	Affiliation	Title
9:00-9:30	Ming Zhao	University of Kansas	Vaccine History and Development
9:30-10:00	David Volkin	University of Kansas	Vaccine Analytics and Formulation
10:00-10:20	**Break**		
10:20-10:50	Carlo Barnaba	University of Kansas	mAb Immunotherapy for Cancer
10:50-11:20	Hyunjoon Kim	University of Kansas	Novel Formulation and Delivery Systems for Cancer Immunotherapy
11:20-12:00	**Discussion / Q&A**		

Short Course 2: Blood-Brain Barrier

Organizer: Gregory Knipp, Purdue University
Room: 1015

Time	Presenter	Affiliation	Title
9:00-9:40	Donald Miller	University of Manitoba	Transient Opening of the Blood-Brain Barrier as a Drug Delivery Option – When, Where and How
9:40-10:20	Gregory Knipp	Purdue University	Development of an In Vitro Model of the Human Neurovascular Unit (NVU) for Drug and Phenotypic Screening
10:20-10:40	**Break**		
10:40-11:20	William Elmquist	University of Minnesota	Tumors in the Brain: A Tough Nut to Crack.
11:20-12:00	Jie Luo	Purdue University	PRECISE: Programmable RNA nanoparticles for Extrahepatic Cell-type-Identified Selective delivery

Short Course 3: Biologic Stability

Organizer: Christian Schöneich, University of Kansas

Room: 3004

Time	Presenter	Affiliation	Title
9:00-9:40	Enrico Mastrobattista	Utrecht University	Stability of mRNA-LNPs
9:40-10:00	Christian Schöneich	University of Kansas	Oxidation and Photo-Degradation of Therapeutic Protein Formulations: Mechanistic Aspects — Part 1
10:00-10:20	**Break**		
10:20-10:40	Christian Schöneich	University of Kansas	Oxidation and Photo-Degradation of Therapeutic Protein Formulations: Mechanistic Aspects — Part 2
10:40-11:20	Teruna Siahaan	University of Kansas	Deamidation and Hydrolysis Reactions in Peptides and Proteins
11:20-12:00	Reza Nejadnik	University of Iowa	Protein Aggregation and Developability

Short Course 4: Peptide Formulation and Drug Delivery

Organizer: Michael Hageman, University of Kansas

Room: 3020

Time	Presenter	Affiliation	Title
9:00-9:30	Christel Bergstrom	Uppsala University	Utility of Modelling for Peptide Delivery
9:30-10:00	Marilena Bohley Steiger	ETH Zurich	Enhancing peptide transport across mucus and epithelial barriers
10:00-10:20	**Break**		
10:20-10:50	Zahraa Al-Tamimi	Bristol Myers Squibb	Peptide interactions with Bile Acids
10:50-11:20	Michael Hageman	University of Kansas	Peptide interactions with Cyclodextrins

Short Course 5: Computational / AI / ML Strategies in Pharmaceutical Sciences

Organizer: Hao Lou, University of Kansas
Room: 2020

Time	Presenter	Affiliation	Title
9:00-9:40	Stephan Schmidt	University of Florida	Assessing exposure-response of hormonal contraceptives through the use of an integrated modeling framework
9:40-10:20	Bodhi Chaudhuri	University of Connecticut	Multi-scale modeling of advanced pharmaceutical manufacturing
10:20-10:40	**Break**		
10:40-11:10	Krzysztof Kuczera	University of Kansas	Classical vs. AI approaches to computational design of Blood-Brain Barrier modulating peptides
11:10-11:40	Hao Lou	University of Kansas	Computational modeling for subcutaneous formulation design

Short Course 6: Lipid-Based Drug Delivery Systems

Organizer: Inayet Ellis, Gattefossé
Room: 1020

Time	Presenter	Affiliation	Title
9:00-9:30	Inayet Ellis	Gattefossé	Fundamentals of LBDDs: Biopharmaceutics, Formulation Design, and Regulatory Considerations
9:30-10:00	Na Li	University of Connecticut	Oral Drug Absorption Beyond the Solubility Limit: Role of Colloidal Drug Particles
10:00-10:20	**Break**		
10:20-10:50	Valérie Gaëlle Roullin	University of Montreal	Formulation Strategies for Lipid-Based Drug Delivery
10:50-11:20	Teresa Carvajal	Purdue University	Spray Drying for Lipid-Based Oral Delivery
11:20-11:50	Hovhannes Gukasyan	University of Southern California	Mechanistic Modeling of Lipid-Based Formulations

Poster Presentations

Thursday, October 22nd: Odd-numbered posters | **Friday, October 23rd:** Even-numbered posters

Poster No.	Title	Presenter & Affiliation
1	Evaluating the Impact of SMILES Notational Inconsistencies in Molecular Representation Learning	**Yosuke Kikuchi** Tokyo University
2	Post-Translational Modification of Multidrug Resistance-Associated Protein 2 (MRP2) in an In Vitro Model of Metabolic-Dysfunction Associated Steatohepatitis (MASH)	**Abigail Mayo** University of North Carolina
3	Immune Recognition and Specificity of Claudin-4 Targeted Iron Oxide Nanoworms in Ovarian Cancer	**David Angarita** University of Colorado
4	Characterization of dopaminergic G protein-coupled receptors as potential anthelmintic targets in parasitic nematodes	**Elena Rehborg** University of Wisconsin
5	Anticancer Effects of Combining Paclitaxel with a Novel Moxifloxacin Derivative Using c-RGD-Targeted Nanoparticles in Endometrial Cancer	**Elham Taherian** University of Iowa
6	Discovery of Coronavirus Main Protease Inhibitors Using Integrated Computational and Experimental Approaches	**Kai Qing Chan** University of Kansas
7	Universal AI-Designed Cross-Species Blood-Brain Barrier Shuttle Targeting CD98hc for Translational CNS Drug Delivery	**Katherine Dong** University of Michigan
8	Extracellular Vesicle-Associated Oncofetal Proteins as Potential Biomarkers for Early Detection of Hepatocellular Carcinoma	**Mitchell Gates** University of Kansas
9	Structure-Dependent Non-Canonical Autophagy and BNIP3/NIX-Mediated Mitophagy Induced by Polymeric Proanthocyanidins	**Oluwabukunmi Babalola** University of Kansas
10	Hedgehog inhibitor MDB5 and hairpin inhibitor miR-96 attenuate metabolic dysfunction-associated steatotic liver disease	**Sanjali Panigrahi** University of Nebraska
11	Impact of Lysine Mutations on the Stability of the Apical Sodium-dependent Bile Acid Transporter (SLC10A2; ASBT)	**Sarah Cayton** University of Kentucky
12	Engineering Long Acting ACE2 Immunodecoys for Broad-Spectrum Coronavirus Prophylaxis	**Stephen Szpak** University of North Carolina
13	Investigating mAb: EGFR Trafficking and Clearance Dynamics in Glioblastoma Through CRISPR-Engineered Cellular Models	**Jing-Ya Hsu** University of Kansas
14	Effect of the Kv1.3 blocking peptide HsTX1[R14A] on cognition and neuroinflammation in APP/PS1 mice	**Zak Monaghan** Monash University
15	A mechanistic, system-based framework integrating human cytokines, granulopoiesis, antibiotic pharmacokinetics, and in vitro time-kill experiments for host – pathogen – antibiotic interactions	**Anh Quan Truong** University of Southern California
16	Targeted Genome Editing of CYP2E1: A Comprehensive Study of Safe-Harbor Integration and Endogenous Modification	**Marah Sawalha** University of Kansas
17	A Comprehensive In Vitro Six-Cell Human NVU Model for Coupled Evaluation of BBB Function, Immune Response, CNS exposure, and Neurotoxicity	**Grace Coomes** Purdue University
18	Quantitative evaluation of intestinal drug metabolism using enterocytes derived from human intestinal organoids	**Hiroyuki Kusuhara** Tokyo University

19	Qualitative and Quantitative Evaluation of Drug Disposition in Metastatic Lung Tumors using Mass Spectrometry	**Ishwor Poudel** University of Washington
20	Evaluation of nutraceuticals for modulation of PFOA renal clearance in in vitro and in vivo models	**Lingli Qin** University of Kansas
21	Human pharmacokinetics of cannabidiol nano-dispersion	**Muhammad Abdel-haq** The Hebrew University of Jerusalem
22	N-Methyl vs. N-Ethyl Perfluorooctane Sulfonamides: A Comparative Study of Phase I and Phase II Hepatic Biotransformation in Human and Rat Liver Microsomes and Implications for PFOS Body Burden	**Mounika Katamneni** University of Kansas
23	Quantitative analysis of drug-induced gastrointestinal toxicity attributable to the interinfluence between serotonin and gut microbiota	**Suguru Asaji** Showa Pharmaceutical University
24	Intracellular Disposition and Clearance of Monoclonal Antibodies in Brain-Resident Cells	**Sydney Houser** University of Kansas
25	Development of a Self-Adjuvanting Polymeric Nanovaccine Platform for Efficient RBDJ Subunit Delivery and Robust Immune Activation Against COVID-19	**Amin Haghighat** University of Kansas
26	Evaluation of a Novel Permeability-Enhancing Peptide for Ocular Drug Delivery using Latanoprost Acid as a Model Therapeutic	**Anthony Napolitano** University of Kansas
27	Ionizable cationic liposomes enable pH-triggered charge switching and antibiotic release for targeted delivery to biofilms	**Anton Liebezeit** University of Helsinki
28	Rational ssDNA Design Improves Coacervate-Based Lipid Nanoparticle-Free mRNA Delivery	**Ayumi Kikkawa** Kyoto University
29	Drug-Loading Effects in Nifedipine Amorphous Solid Dispersions for Preclinical Oral Delivery: Analytical Sensitivity for Detecting Crystallinity and Dissolution Performance	**Benjamin Odei Nyarko** University of Kansas
30	Effect of Soluplus on Supersaturation Maintenance and Dissolution Performance of Ritonavir Amorphous Solid Dispersions.	**Chuang Zhang** University of Kansas
31	Reduction of Hydrophobic Drug Adsorption in Extracorporeal Membrane Oxygenation Systems	**Debika Ghatak** University of Utah
32	Smart Hydrogels for Controlled Mechanostimulation of Chondrocytes in Cartilage Regeneration	**Eline Geerits** Utrecht University
33	Immobilized Human VE-Cadherin on SPR Biosensors: A Versatile Platform for Screening Blood-Brain Barrier-Modulating Peptides to Optimize Brain Drug Delivery	**Farid Hajareh Haghighi** University of Kansas
34	Melatonin-Encapsulated Lipid Nanoparticles Maintain Antioxidant Enzyme Homeostasis and Mitochondrial Function Under Oxidative Stress	**Fucen Luo** Paris-Saclay
35	In vitro evaluation of water-insoluble silicates and polyvinylpyrrolidone-vinyl acetate as oral carriers for amorphous ritonavir: Dissolution enhancement and the role of phosphatidylcholine	**Gaurav Dhumal** University of Maryland
36	Tannic Acid-coated Liposome as a Carrier of a Synthetic Toll-Like Receptor 7/8 Dual Agonist as an Immunostimulatory Adjuvant for Bladder Cancer Therapy	**Grahmm Funk** University of Kansas

37	Formulation and evaluation of C7-derivatized imidazoquinolines as a new toll-like receptor agonist in cutaneous T-cell lymphoma	**Guanyou Cui** University of Kansas
38	Development and Optimization of Liposomes Using a Design of Experiment Approach to Enhance Ocular Delivery of Poorly Water Drugs & Evaluating Drug Release Using a Novel In Vitro Device	**Hashim Mushtasin Reza** University of Kansas
39	Next Generation Melanin Lipid Nanocarriers for Targeted Drug Delivery in Retinoblastoma Therapy	**Hassan Raza** University of Eastern Finland
40	Inhibition of Precipitation and Generation of Celecoxib Supersaturation Using Cosolvent/Surfactant and Ternary Formulations	**Haylin Garrison** University of Kansas
41	Engineering the Polymer-Lipid Interface to Balance Extracellular Stability and Intracellular Release for Efficient mRNA Delivery	**Heyang Zhang** Leiden University
42	Cyclodextrin-Mediated Enhancement of the Limit of Congruence in Ritonavir-PVPVA64 Amorphous Solid Dispersions	**Indeewara Munasinghe** University of Kansas
43	Determination of the impact of oxidative modifications on the properties of subcutaneously administered human IgG1 monoclonal antibodies	**Ishini Ranatunga** University of Kansas
44	Preclinical Intraperitoneal Delivery: Modulating Dilution-Induced Precipitation From Aqueous Cosolvent Formulations	**Jack Terry** University of Kansas
45	Development of a Self-Nanoemulsifying Drug Delivery System (SNEDDS) for Oral Coadministration of Osimertinib and Etoposide	**Ji Hyun Bang** Chungnam National University
46	Peptide to Open the Blood–Brain Barrier for the Delivery of Small Molecules to the Brain	**Jin Xie** University of Kansas
47	Design-of-Experiments–Guided Cryoformulation and Process Optimization to Improve T-Cell Post-thaw Recovery	**Jobair Hossen** University of Connecticut
48	Spray drying co-formulated particles of peptide drugs and sodium caprate (C10) retains permeation enhancement	**Jonas Autenrieth** Uppsala University
49	Tuning lipid nanoparticle surface hydrophobicity to enable tissue-selective mRNA expression	**Kevon Jolly** University of Florida
50	Activity comparison of different fungal exopeptidases in biorelevant media: bicarbonate versus phosphate buffer	**Laura Biedermann** University of Basel
51	Thermoresponsive micellar amphiphilic hydrogels based on multiblock polyurethanes as functional materials for prolonged ocular drug delivery	**Iuliia Pilipenko** University of Eastern Finland
52	Incorporation of microneedles in suction patches for transbuccal peptide delivery	**Méline Zhao** ETH Zurich
53	Development of an Ex Vivo Model for Predicting In Vivo Tissue Back Pressure for Subcutaneous Injections	**Mengjuan Pang** University of Kansas
54	Supersaturability and Solubility of Celecoxib as impacted by polymer excipients used in Oral Thin Films	**Mohammed Riaz Hasan Chowdhury** University of Kansas
55	Liposome-incorporated Multifunctional Hydrogel for Targeted and Controlled Release of the Drug for the Treatment of Chronic Diabetic Wounds	**Muhammad Zahid Anwar** National University of Singapore

56	Plasmid DNA Encapsulating Lipid Nanoparticle for Macrophage Engineering	**Nayeon Kim** University of Kansas
57	Investigating The Effect of Sodium Caprate (C10) on Drug Size and Solubility in Bile Acid Media	**Ngan Ngo** University of Kansas
58	Characterization, stabilization, and formulation of a VHH-IgA Fc fusion protein candidate for oral passive immunization against ETEC	**Poorva Taskar** University of Kansas
59	Design and Characterization of Doxorubicin-Loaded Lipopolyplexes as a Proof-of-Concept for multifunctional nanocarrier system	**Rashid Munir** University of Marburg
60	Does the addition of excipients that increase mRNA conformational stability or inhibit oxidation improve mRNA-LNP storage stability in liquid formulations?	**Ria Caringal** University of Kansas
61	Role of stabilizers in blackberry leaf plantcrystals: particle size and antioxidant capacity	**Rina Su** University of Marburg
62	Aerolized curcumin liposomes for antimicrobial photodynamic therapy of infections caused by gram-positive bacteria	**Sabine Carola Klein** University of Marburg
63	Bilirubin and GalNAc modified mRNA-LNPs for enhanced liver specific delivery	**Samuel Lee** Chungnam National University
64	Lactic acid and trometamol-based ionic liquid enhances oral absorption of a 10 kDa mid-sized molecule via the intestinal tract rather than the gastric tract	**Shoichiro Fukuda** Tokushima University
65	Rheological Characterization of Emulfree® Duo-based Vaginal Gels Incorporating Lactoferrin Protein for the Prevention of Neonatal Early-Onset Sepsis	**Sivani Badrivenkata** University of Kansas
66	Novel synergistic formulations using lipid-drug conjugates and SNEDDS to improve the oral administration of antiretrovirals	**Stephanie Stodulka** University of South Australia
67	Development of a surfactant–polymer stabilized nanosuspension for improving the oral bioavailability of GS-441524	**Sung ho Lee** Chungnam National University
68	Biodynamer prodrugs for enhancing chemosubstance potential and controlled activity	**Thi Thu Nguyen** University of Saarland
69	Targeting E-Cadherin to Enhance Corneal Drug Permeation: Adapting a Blood-Brain Barrier Peptide for Ocular Drug Delivery	**Vikneswaran Lachman** University of Kansas
70	Hydrotrope and co-solvent strategies to mitigate peptide self-association for subcutaneous injection using a model peptide Lanreotide phenylalanine analogue	**Xi Luan** University of Kansas
71	High Drug Loading and Enhanced Release of Praziquantel from Poly(acrylic Acid)-Based Amorphous Solid Dispersions	**Xinran Zhu** University of Wisconsin
72	Preclinical Development of STC-101: A Novel Prodrug Approach to Oral Testosterone Replacement Therapy (TRT)	**Yezan Salamoun** University of Kansas
73	Biomimetic PLGA Nanoparticles for Targeted Prostate Cancer Therapy	**Yoome Han** University of Texas-El Paso

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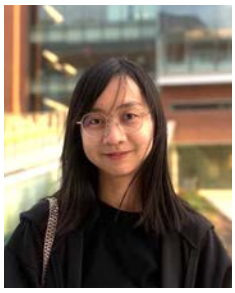
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Notes


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