

TODD SYMPOSIUM

THERAPEUTICS, OUTCOMES,
DISCOVERY & DELIVERY

20 23



APRIL 12, 2023 • LEE T. TODD, JR. BLDG.

789 S. Limestone, Lexington, KY 40536

 College of
Pharmacy

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Welcome to the TODD Symposium

It is my pleasure to welcome you to the eleventh annual TODD Symposium hosted by the University of Kentucky College of Pharmacy.

Following a hiatus due to the COVID-19 pandemic, we are thrilled to have esteemed scientists from both our campus and across the nation gather once again to share the latest advancements in pharmaceutical sciences.

This year's focus on therapeutic manipulation of immune function is an exciting opportunity for our community to gain knowledge and collaborate to improve health outcomes in various diseases.

We hope that you find this day of seminars, poster presentations, and networking with colleagues informative and engaging. We value your participation and contribution to our research community.

Thank you for being an integral part of this symposium.

Sincerely,

A handwritten signature in black ink, which appears to read 'R. Kip Guy'.

R. Kip Guy, Ph.D.
Dean & Professor



SCHEDULE

TODD BLDG, ROOM 234



TIME	ACTIVITY	
8:00 - 8:25 AM	CHECK-IN	TODD ATRIUM
8:25 - 8:30 AM	OPENING REMARKS	DR. CRAIG MARTIN CHIEF OPERATIONS OFFICER
8:30 - 9:30 AM	PLENARY LECTURE	DR. JAMES MOON UNIVERSITY OF MICHIGAN
9:30 - 10:15 AM	RAPID RESEARCH TALKS	SELECTED AUTHORS BRIEF POSTER SYNOPSES
10:15 - 10:30 AM	BREAK	
10:30 - 11:30 AM	PLENARY LECTURE	DR. ELIZABETH WAYNE CARNEGIE MELLON UNIVERSITY
11:30 - 1:00 PM	LUNCH & POSTER SESSION	TODD ATRIUM
1:00 - 1:30 PM	FEATURED LECTURE	DR. JONGHYUCK PARK PHARMACEUTICAL SCIENCES
1:30 - 2:00 PM	FEATURED LECTURE	DR. FANNY CHAPELIN BIOMEDICAL ENGINEERING
2:00 - 2:15 PM	BREAK	
2:15 - 2:45 PM	FEATURED LECTURE	DR. VINCENT VENDITTO PHARMACEUTICAL SCIENCES
2:45 - 3:45 PM	KEYNOTE	DR. LYNN HEDRICK AUGUSTA UNIVERSITY
3:45 - 5:00 PM	AWARDS & RECEPTION	TODD ATRIUM

PLENARY LECTURES

THERAPEUTICS, OUTCOMES,
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James Moon, Ph.D.

Professor, Biomedical Engineering
University of Michigan

"Engineering strategies to modulate the gut microbiome and immune system."

Elizabeth Wayne, Ph.D.

Assistant Professor, Chemical Engineering and
Biomedical Engineering
Carnegie Mellon University

*"Macrophages and drug pharmacokinetics:
Opportunities to improve dosing and delivery."*



Lynn Hedrick, Ph.D.

Professor, Medicine
Medical College of Georgia at Augusta University

Keynote: *"Monocyte heterogeneity and cancer immunotherapies."*

FEATURED LECTURES

THERAPEUTICS, OUTCOMES,
DISCOVERY & DELIVERY



Jonghyuck Park, Ph.D.

Assistant Professor, Pharmaceutical Sciences
University of Kentucky

"Neuroimmunomodulatory strategies for spinal cord injury."



Fanny Chapelin, Ph.D.

Assistant Professor, Biomedical Engineering
University of Kentucky

"Magnetic Resonance Imaging toolbox to track cell fate."



Vincent Venditto, Ph.D.

Assistant Professor, Pharmaceutical Sciences
University of Kentucky

"Antibiotics to heal a broken heart."

POSTER SESSION

TODD ATRIUM - 11:30 AM - 1:00 PM



POSTER	PRESENTING AUTHOR	TITLE
1	ALSUM AR	Using In Vivo Calcium Imaging to Shed Light on Opioid Use Disorder
2	ABBAS UL	Assessing Prediction Fairness of AlphaFold2 in Drug Discovery
3	IMAM IA	In-silico Pipeline to Discover Small Molecules Overcoming Mutation Induced Drug Resistance for EGFR
4	STEWART MJ	Anti-inflammatory and analgesic effects of a selective mPGES-1 inhibitor against models of pain
5	SHRESTHA A	Optimization of Mithramycin 2'-oximes targeting EWS-FLI1 transcription factor to treat Ewing Sarcoma
6	WONGSAENGPIBOON P	SHP2-DDX3X complexes may control translation of the PD-L1 mRNA in KRAS-active non-small cell lung cancer
7	JOHNSON K	Behavioral characterization of NHB-6012, a functionally selective and potent synthetic mu agonist
8	KOLPEK DJ	Investigating the Effect of Nanoparticle Size on Immunomodulation of Innate Immune Cells Following Spinal Cord Injury
9	MOHAMMADMORADI S	High Mobility Group Box 1 Inhibition by Antisense Oligonucleotide Attenuates Angiotensin II-induced Abdominal Aortic Aneurysm
10	BLANTON MB	SARS-CoV-2 vaccine booster elicits robust prolonged maternal antibody responses and passive transfer via the placenta and breastmilk

POSTER SESSION

TODD ATRIUM - 11:30 AM - 1:00 PM



POSTER	PRESENTING AUTHOR	TITLE
11	SAGHAEIANNEJAD H	Non-antibiotic Azithromycin Analogs for Immunomodulation
12	PITTS MG	Understanding the Role of Core Fucosylation in Neuroblastoma Progression
13	MASUD AA	Systematic Development and Optimization of a Microfluidic Protocol for Liposomal Azithromycin
14	DANIELS H	ABL1 Mediates DNA Mismatch Repair by MLH1 Regulation
15	MAYRHOFFER BF	Endophytic Fungi from Serra do Amolar-Pantanal (Brazil) with Antifungal Activities
16	WILLIAMS K	Drug Development for Preterm Infant Lung Disease: Challenges and Opportunities
17	TAHA ME	Evaluation of the efficacy of next-generation probiotics for controlling Salmonella enterica serovar Typhimurium infections in vitro
18	LAMICHHANE B	Probiotics as an antibiotic alternative approach for the treatment of Campylobacter jejuni infections
19	TRUE HE	Maternal Opioid Use Leads to a Hyperactive Immune Landscape Susceptible to Microbial Infection
20	DINAR MAM	SARS-CoV-2 vaccine booster elicits robust prolonged maternal antibody responses and passive transfer via the placenta and breastmilk
21	HANKORE ED	Functional and structural studies on the esperamicin thioesterase and progress toward understanding enediyne core biosynthesis

POSTER SESSION

TODD ATRIUM - 11:30 AM - 1:00 PM



POSTER	PRESENTING AUTHOR	TITLE
22	KEADY JV	Nicotine Withdrawal During Contextual Fear Extinction Causes Sex Specific Impacts in the Murine Dorsal and Ventral Hippocampus
23	XU Y	Application of small molecule targeting fluorophore on studying tail regeneration in Ambystoma mexicanum
24	PRANTZALOS ER	Effects of Aripiprazole on Nicotine WD-Like Behaviors and Murine Neuregulin 3-ErbB4 Signaling
25	KADAYAT TM	Addressing hERG Activity of DCN1-UBE2M Interaction Inhibitors

Thank You for Joining Us

At the University of Kentucky College of Pharmacy, we strive to establish an inclusive, engaging environment that embraces our core mission of leading change to improve health in our communities and beyond.

We are grateful for your participation in today's symposium, which we hope was informative, fun, helpful, collaborative, and inspiring.

We appreciate your attendance today and hope that we will have the opportunity to see you again next year.

Tom Prisinzano, Ph.D.
Professor & Committee Chair

2023 Committee Members

Alla Arnold
Dave Feola
Rosa Mejia-Cruz
Jane Palagi
Jonghyuck Park

Tom Prisinzano
Maddie Stewart
Tonya Vance
Vincent Venditto



Scan to submit feedback