## **DEPARTMENT OF PHARMACEUTICS**

## Spring 2024 Seminar Series

## Tuesdays 3:00-4:00 PM | Moos 5-125

Email <u>kmjames@umn.edu</u> to request a Zoom link

Jan 16	MECHANICAL PROPERTIES AND COMPRESSIBILITY OF AMORPHOUS PHARMACEUTICALS Vikram C. Joshi, PhD Candidate, Sun Lab
Jan 23	POTENTIAL CONTRIBUTIONS OF BLOOD-BRAIN-BARRIER DYSFUNCTION INVOLVING PERICYTE LOSS TO THE PROGRESSION OF ALZHEIMER'S DISEASE Doug Nelson, PhD Candidate, Kandimalla Lab
Jan 30	SYSTEMS PHARMACOLOGY APPROACHES TO INVESTIGATE NEUROVASCULAR UNIT INTEGRITY AND FUNCTION Karunya Kandimalla, PhD, Professor, Department of Pharmaceutics, and Associate Dean for Graduate Education, College of Pharmacy
Feb 6	EVALUATING THE IMPACT OF VARIED CONDITIONS ON THE FUNCTIONAL ROLE OF EXTRACELLULAR VESICLES IN THE INTERCELLULAR TRANSFER OF NANOPARTICLES Yiqin Li, PhD Student, Pang Lab
	RADIATION THERAPY FOR BRAIN TUMORS: DOES IT INFLUENCE DRUG DELIVERY? Lina Le, PhD Student, Elmquist Lab
Feb 13	STEM CELL-DERIVED MODELS OF THE HEALTHY AND DISEASED BLOOD-BRAIN BARRIER Samira Azarin, PhD, Associate Professor, Shell Distinguished Chair, and Director of Undergraduate Studies in Chemical Engineering, Department of Chemical Engineering and Materials Science
Feb 20	MICROBATCH - A MATERIAL-SPARING TECHNIQUE FOR ROLLER COMPACTOR FORMULATION DEVELOPMENT Yiwang Guo, PhD, Researcher 5, Sun Lab
	DRUG PHASE TRANSFORMATION DURING CONTINUOUS TABLET MANUFACTURING Bhushan Munjal, PhD, Postdoctoral Associate, Sury Lab
Feb 27	A SYSTEMATIC INVESTIGATION OF THE TABLETABILITY FLIP PHENOMENON Zijian Wang, PhD Candidate, Sun Lab
Mar 5	NO SEMINAR – Spring Break
Mar 12	ADVANCES IN LIPOSOMES AND LIPID NANOPARTICLES AS DRUG CARRIERS - ARE WE THERE YET? Francis C. Szoka, Jr., PhD, Emeritus Professor of Bioengineering, Therapeutic Sciences and Pharmaceutical Chemistry, University of California, San Francisco
Mar 19	MICROENCAPSULATION BY COACERVATION Tianyi Xiang, PhD Student, Sun Lab
	MARKER MOLECULES TO MEASURE THE BLOOD-BRAIN BARRIER PERMEABILITY IN AND AROUND BRAIN TUMORS Juhee Oh, PhD, Researcher 5, Elmquist Lab
Mar 26	MOLECULAR MECHANISMS UNDERLYING THE BLOOD-BRAIN BARRIER INFLAMMATION IN ALZHEIMER'S DISEASE: ROLE OF INFLAMMATORY CYTOKINES AND GUT MICROBIAL METABOLITES Vrishali Salian, PhD Candidate, Kandimalla Lab
Apr 2	UNDERSTANDING NANOPARTICLE SYNERGISTIC CELLULAR ENTRY THROUGH MOLECULAR DYNAMIC SIMULATION Nianwu Wang, PhD Student, Pang Lab
	AMYLOID BETA PEPTIDES INHIBIT INSULIN TRAFFICKING AT THE BLOOD-BRAIN-BARRIER IN ALZHEIMER'S DISEASE BRAIN Vaishnavi Veerareddy, PhD Student, Kandimalla Lab
Apr 9	TARGETED DELIVERY OF DNA AND RNA VIA SUB-50 NM CAPSULES Gretchen Unger, PhD, CEO, Surtovol Laboratories
Apr 16	IONTOPHORETIC DELIVERY OF DRUGS VIA IONTOPATCH™: SCIENTIFIC FUNDAMENTALS, PRACTICAL APPLICATIONS, AND IONTOPATCH™ MANUFACTURING OVERVIEW Marina Ruleva, PhD Student, Siegel and Kandimalla Labs
	USING A MACROPHAGE TARGETING PEPTIDE TO IMPROVE STEROID DRUG DELIVERY Mitch Kowalke, PhD Student, Pang Lab
Apr 23	SCREENING THE DISEASE TARGETING PEPTIDE USING IN VIVO PHAGE DISPLAY TECHNIQUE Hae chan Kim, PhD Student, Pang Lab
	DRUGGING THE UNDRUGGABLE: KRAS PATHWAY IN CANCER Ruisi Leng, PhD Student, Elmquist Lab