DEPARTMENT OF PHARMACEUTICS

Spring 2024 Seminar Series
Tuesdays 3:00-4:00 PM | Moos 5-125
Email kmjames@umn.edu 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	**INVESTIGATING TNF ALPHA'S IMPACT ON AMYLOID BETA UPTAKE IN BLOOD-BRAIN BARRIER ENDOTHELIAL CELLS AND THE INFLUENCE OF GUT METABOLITES ON CEREBROVASCULAR INFLAMMATION IN ALZHEIMER'S DISEASE: EXPLORING MOLECULAR MECHANISMS** ***Vrishali Salian**, PhD Candidate, Kandimalla Lab*
Apr 2	**UNDERSTANDING NANOPARTICLE SYNERGISTIC CELLULAR ENTRY THROUGH MOLECULAR DYNAMIC SIMULATION** ***Nianwu Wang**, PhD Student, Pang Lab* **EFFECT OF GUT MICROBIAL METABOLITE SODIUM BUTYRATE ON ALZHEIMER'S AMYLOID BETA 42 TRANSPORT ACROSS THE BLOOD BRAIN BARRIER ENDOTHELIUM** ***Vaishnavi Veerareddy**, PhD Student, Kandimalla Lab*
Apr 9	**EFFECT OF FREE SURFACE ON CRYSTALLIZATION AND POLYMORPH SELECTION IN MOLECULAR LIQUIDS AND GLASSES** ***Lian Yu**, PhD, Professor, Pharmaceutical Sciences and Chemistry, School of Pharmacy, University of Wisconsin-Madison*
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*