

5 MAY 2022 | 1:00-3:30 PM CST | EVERITT 2310

BIOENGINEERING GRADUATE STUDENT RESEARCH SYMPOSIUM

1:00 PM INTRODUCTION & WELCOME

1:10 - 2:10 PM ORAL PRESENTATIONS

1:10 PM Jongwon Lim

Microfluidic point-of-care device for detection of early strains and B.1.1.7 variant of SARS-CoV-2 virus

1:30 PM Tarun Mahajan

Relative stability of mRNA and protein severely limits inference of gene networks from single-cell mRNA measurements

1:50 PM Fu Li

Advanced image reconstruction for accurate and high-resolution breast ultrasound tomography

2:10 - 2:25 PM REFRESHMENT BREAK

2:25 - 3:15 PM ORAL PRESENTATIONS

2:25 PM Hyeon Ryoo

PEG Microgels Enable Distinct 3D Cellular Microenvironments

2:45 PM Skye Shepherd

Target Recycling Amplification Process for Digital Detection of Exosomal MicroRNAs through Photonic Resonator Absorption Microscopy

3:00 PM Xiaohui Zhang

Identifying Functional Brain Networks from Spatial-temporal Wide-field Calcium Imaging Data Via a Recurrent Autoencoder

3:15 PM CLOSING REMARKS & AWARDS

