

BBME 600

BIOENGINEERING &
BIOMEDICAL ENGINEERING

FALL 2023 STUDENT SYMPOSIUM

In-person - Duff 507/509

SESSION 2: FRIDAY, OCTOBER 20, 2023

12:30PM - 2:30PM

Process Development for mRNA-Based Vaccines: Optimization of DNA Template Production and Purification for In Vitro Transcription (IVT)

Cynthia Hitti, Prof. Amine Kamen

A deep learning approach to identify major sources of interpersonal differences from deeply phenotyped population data

Justin Marotta, Prof. Danilo Bzdok

Universal plasma single EV capture and profiling using Size photometry and fluorescence imaging

Hugues Martin, Prof. David Juncker

TBD

Sean Murray,

Label-free single Extracellular vesicle profiling for early diagnosis of Medulloblastoma

Yao Lu, Prof. Sara Mahshid

Counterfactual evaluation of the impact of pharmaceutical and non-pharmaceutical interventions on the burden of COVID-19 hospitalizations in Quebec

Samuel Torres Florez, Profs. Caroline Wagner & Étienne Racine

In vivo directed evolution of plant enzymes involved in antioxidant compound production

Asia Vighi, Prof. Codruta Ignea

Establishing & Optimizing A Scalable Lipid Nanoparticle Encapsulation Process for mRNA Vaccines and Therapeutics

Maryam Youssef, Prof. Amine Kamen



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