

BBME 600

BIOENGINEERING &
BIOMEDICAL ENGINEERING

FALL 2023 STUDENT SYMPOSIUM

In-person - Duff 507/509

SESSION 1: FRIDAY, OCTOBER 13, 2023

12:30PM - 2:30PM

Agent-Based Simulation of Nucleus Pulposus Cell Behaviour in Alginate-Based Hydrogels

Romi Bonomo, Profs. Nicole Li-Jessen & Jianyu Li

Characterizing the Relationship Between YAP Activity, Nuclear Deformation and Cell Contractility in Breast Cancer Cells

Alice Delarue, Prof. Allen Ehrlicher

Co-administration of pramlintide and insulin via an automated dual-hormone artificial pancreas system

Jimmy El Maalouli, Prof. Ahmad Haidar

Machine Learning and the Brain

Karam Ghanem, Prof. Danilo Bzdok

TBD

Ishita Hiremath,

Development of a Dual-use Assembly Yeast System for Metabolic Engineering

Zimo Jin, Prof. Codruta Ignea

Engineering of a bacterial drug delivery system to treat metastatic melanoma systemically

Sarah Jurchuk, Prof. Maryam Tabrizian

Widespread adoption of capillaric circuit-based diagnostics

Houda Shafique, Prof. David Juncker



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