

## AGENDA

Early Career Symposium

Stowers Research Conferences: *Developmental Cell Biology*

May 4, 2020

1:00 PM – 4:30 PM CST

**Schedule:** All talks are 15 minutes followed by 5 minutes for questions

**1:00 PM**

**Welcome and Overview**

**1:05 PM – 2:05 PM** **Session 1: Dynamics of Lineage and Cell Identity**

**Martyna Lukoseviciute** | University of Oxford

*Making heads or tails of an embryo: differential foxd3 regulation in the cranial neural crest and neuromesodermal progenitors*

**Dennis de Bakker** | Hubrecht Institute

*Epicardial Prx1 guides zebrafish heart regeneration*

**Theodora Yung** | Hospital for Sick Children, University of Toronto

*Establishment of gut mesenchymal niches by Hedgehog signaling for pancreatic beta cell development*

**2:15 PM – 3:15 PM** **Session 2: Mechanism of Morphogenesis**

**Ashley Rich** | University of Chicago

*Optogenetic dissection of gastrulation in Drosophila*

**Abdul Malmi-Kakkada** | University of Texas at Austin

*From super-resolution imaging to theory: cadherin clustering drives asymmetric glassy dynamics during convergent extension*

**Konner Winkley** | Kansas State University

*Iterative and complex asymmetric divisions control cell volume differences in Ciona notochord tapering.*

**3:30 PM – 4:30 PM** **Session 3: Modeling, Quantitation, and Tissue Engineering**

**Katherine Rogers** | Friedrich Miescher Laboratory of the Max Planck Society

*Investigating BMP-mediated patterning with in vivo optogenetics*

**Stephanie Lau** | New York University School of Medicine

*A negative feedback loop maintains optimal chemokine concentrations for directional cell migration*

**Alexandra Eicher** | Cincinnati Children's Hospital Medical Center

*Human enteric neurons encourage the growth, patterning, and maturation of human gastric epithelium and mesenchyme*

**4:30 PM**

**Closing Comments**