

# Bioengineering Day

2018

Number of presentations = 10

**Boldfaced** names represent Bioengineering undergraduate students

*Biomimetic small diameter vascular graft*

Armaan Akbar, **Daniel L. Jacobs**, Matteo Solazzo, Paulo Gonzalez, Michael Luketicb, Richard Hoff, William R Wagner, and Antonio D'Amore

*Examination of Two Tet-On Constructs with Sh95 in the Visual Cortex*

**Nowa B. Bronner**, and Oliver M. Schlüter

*Oxygen Inhibits Nitrite Reduction to Nitric Oxide by the Molybdopterin Enzyme mARC2*

**Eric Cecco**, Couttney Sparacino-Watkins, and Mark T. Gladwin

*Sensitive and selective polymer nanocomposite for resting-level dopamine detection at carbon fiber microelectrodes*

**Noah C. Freedman**, I. Mitch Taylor, and X. Tracy Cui

*A Neural Network for online spike sorting*

**Deepa Issar**, Ryan C. Williamson, Ben R. Cowley, Byron M. Yu, and Matthew A. Smith

*Novel injectable biomimetic intervertebral hydrogel discs for IVD repair*

**Kelsey Toplak**, **Meredith Lie-Atjam**, Sarit Sivan, and Micbal Amit

*Characterizing the Required Friction during Ladder Climbing*

**Ellen R. Martin**, Erika M. Pliner, and Kurt E. Beschorner

*Validation of an Ostoechondral Bioreactor for In Vitro Drug Screening*

**Kalon J. Overholt**, Alessandro Piroso, Rocky S. Tuan, and Riccardo Gottardi

*Biomechanical analysis of wide posterior releases compared to standard facetectomy and discectomy in the thoracolumbar and lumbar spine*

Bryan Ryneerson, **Rahul Ramanathan**, Marcus Allen, Xiangjiang Wang, Nicholas Vaudreuil, Kevin M. Bell, and Patrick Bosch

*Photoelectric effect-induced intracortical neural stimulation with free-floating carbon fiber wireless axon electrodes*

**Kaylene C. Stocking**, Alberto L. Vazquez, and Takashi D. Kozai