

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. Beschoner

Validation of an Ostoehondral 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 Rynearson, **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