

INGENiUM

2020

Number of publications = **12**

Boldfaced names represent Bioengineering undergraduate students

Tumor derived exosomes regulate dendritic cell maturation and activation

Rosh Bharthi, Carolina M. Gorgulho, Nils Ludwig, Theresa L. Whiteside, and Michael T. Lotze

Extensions and analysis of a virtual balancing task for studying sensory-motor control

Michael Clancy, Sudarshan Sekhar, Aaron Batista, and Patrick Loughlin

Feature validation and online visualization of forearm high-density EMG in an individual with spinal cord injury

J. Sebastian Correa, Jordyn E. Ting, and Douglas J. Weber

Tractography reveals patterns of hippocampal innervation in the human temporal lobe

Lauren Grice, Chandler Fountain, and Michel Modo

Metformin administration impairs tendon wound healing

Catherine Grace P. Hobayan, Arthur R. McDowell, Feng Li, Jianying Zhang, and James H.C. Wang

Mechanical characterization of silk derived vascular grafts for human arterial implantation

Patrick Iyasele, Eoghan Cunnane, Katherine Lorentz, Timothy Chung, Justin Weinbaum, and David Vorp

Robust osteogenesis of mesenchymal stem cells in 3D bioactive hydrogel

Eileen Li, Zhong Li, Colin Del Duke, and Hang Lin

Manufacturing a polyelectrolyte coating on contact lenses using automated vs. manual techniques for the treatment of dry eye disease

Zixie Liang, Alexis Nol , and Bryan Brown

Changes to the maternal sacrum and coccyx during and after pregnancy and delivery

Liam Martin, Megan R. Routzong, Ghazaleh Rostaminia, Pamela A. Moalli, and Steven D. Abramowitch

Genetically engineering ocular probiotics to manipulate ocular immunity and disease

Yannis Rigas, Benjamin Treat, and Anthony St. Leger

Monitoring the in-vitro extracellular matrix remodeling of tissue engineered vascular grafts
Hannah Schmidt and Jonathan Vande Geest

Biotelemetry: a brief history and future developments in lowering cost
Kevin Xu and Mark Gartner