

INGENiUM

2021

Number of publications = **13**

Boldfaced names represent Bioengineering undergraduate students

Computer vision methods for tool guidance in a finger-mounted device for the blind

Yuxuan Hu, Rene R. Canady, Roberta Klatzky, George Stetten

Immunomodulators and macrophages in endometriosis pathogenesis and progression

Hilda Jafarah, Isabelle Chickanosky, Alexis Nolfi, Mangesh Kulkarni, Clint Skillen, Bryan Brown

Testing the compressive stiffness of endovascular devices

Lucy Jones, Jonathan Vande Geest

Design and manufacture of two experimental test benches for the in vitro assessment of a method to perform in situ fenestration of stent grafts

Nicholas P. Lagerman, Timothy K. Chung, Mohammad H. Eslami, David A. Vorp

Fluid flow simulation of microphysiological knee joint-on-a-chip

Eileen N. Li, Zhong Li, Ryan M. Ronczka, Hang Lin

Association between functional dedifferentiation and amyloid in preclinical Alzheimer's Disease

Elizabeth J. Mountz, **Jinghang Li**, Akiko Mizuno, Ashti M Shah, Andrea Weinstein, Ann D. Cohen, William E. Klunk, Beth E. Snitz, Howard J. Aizenstein, Helmet T. Karim

Bioinformatic analysis of fibroblast-mediated therapy resistance in HER2+ breast cancer

Jacob C. McDonald, Ioannis K. Zervantonakis

Levator Ani muscle dimension changes with gestational and maternal age

Oreoluwa Odeniyi, Megan Routzong, Steven Abramowitch

Innovations for reimagined educational experiences in the face of a pandemic

Sophie Shapiro, Stuart McCutchen, Zeve Cohen, Elizabeth Gilman, William Clark

User-specific factors associated with ladder handrail use

Jami Stuckey, **Michelle Tsizhovkin**, Kurt Beschorner, Erika Pliner, Daina Sturnieks, Stephen Lord

Relationship between center of pressure and contact region during gait: implications for shoe wear and slipping risk

Joseph Sukinik, **Rosh Bharthi**, Sarah Hemler, Kurt Beschorner

Analysis of stride segmentation methods to identify heel strike

Victoria Turchick, Yulia Yatsenko, and Mark Redfern

Assessment of luminal fillers in nerve guidance conduits for promoting regeneration following peripheral nerve injury

Carol Vinski, Tyler Meder, Bryan Brown