

School of Science and Engineering | Saint Louis University

Promotions and Appointments

Congratulations to **Silviya Zustiak, Ph.D.** was promoted to Full Professor effective July 1st!



Publications

Charles West*, **Connor Tobo***, Jeffrey Au, **David Johnson**, M. Abdul Mottaleb, Jessica Robinson, Saloni Shringarpure, David W. Griggs, and **Koyal Garg**, *co-first authors, "Combined application of biosponges and antifibrotic agent for the treatment of volumetric muscle loss", American Journal of Physiology, 2023, 324:6. C1341-C1352. https://journals.physiology.org/doi/full/10.1152/ajpc ell.00092.2023

Ziemkiewicz, N., Au, J., Chauvin, HM., Garg, K., "Electrically stimulated eccentric contraction training enhances muscle mass, function, and size following volumetric muscle loss", J Orthop Res. 2023; 1-11. doi:10.1002/jor.25591

M. Flanagan, Q. Gan, #S. Sheth, R. Schafer, #S. Ruesing, L. E. Winter, K. Toth, *S. P. Zustiak, *A. M. Montaño, "Hydrogel delivery device for the invitro and in-vivo sustained release of active rhGALNS enzyme", Pharmaceuticals, 2023, In press (IF: 5.215)

Grants Awarded

PI Gary Bledsoe Ph.D., was awarded an SSE Seed grant titled "Distal Tibia Fractures Treated with Locked Intramedullary Nailing: Comparison of Reduction with Plating Versus Reduction Without Plating" from SLU School of Science and Engineering for \$15,000.

PI Koyal Garg, Ph.D., received the Institute of Translational Neuroscience (ITN) research award of \$10,000 for the project "Improving Functional Recovery from Traumatic Injuries through Enhanced Myofiber Innervation".

PI Silviya Zustiak, Ph.D. and PI Paul Jelliss, PhD received a \$3,000 FIRE SSE grant (renewal) for their project "Synthesis and optimization of poly-(DMA/SBMA) polymer as a lubricous coating for microgels: towards application in the treatment of knee osteoarthritis."

Recent Graduates

Congratulations to **Nicolas Corker**, advisor **Dr. Zustiak**, who successfully defended his master's thesis "Development of Imageable Nanocomposite Hydrogel Microspheres for Multi-Drug Delivery Applications" on Monday June 12th.



Congratulations to **Shabnam Nejat**, advisor **Dr. Zustiak**, who successfully defended her master's thesis "Glioblastoma Spheroid Invasion and Motility in Dual-Stiffness Polyethylene Glycol Hydrogels" on Wednesday June 28th. She graduated with Distinction!



Conference Presentations

NIBIB 2023 Training Grantees Meeting

Hamidreza Moheimani, a postdoc in Dr. Zustiak's lab presented a poster titled: "Autoclaved alginate hydrogels as cell scaffolds of varying viscoelasticity".