Congratulations to Dr. Zustiak for editing the publication of the Special Issue reprint book "Feature Reviews in Pharmaceutical Technology.” The reprint aims to highlight exciting developments in pharmaceutical technologies. With the continuous discovery of a plethora of new drug candidates, both small-molecule drugs and large biomolecules, such technologies are becoming essential for the advancement of patient treatments. This issue features twelve review papers broadly classified into formulation development and drug delivery devices. These technologies address important issues of improving drug bioavailability, decreasing treatment toxicity and side effects, and enhancing treatment efficacy to both cure patients and improve their quality of life.

CONFERENCE PRESENTATIONS
Dr. Koyal Garg, Dr. Alex Reiter, David Johnson, and Avantika Jain attended the Orthopedic Research Society 2024 Annual Meeting in Long Beach, California from February 2–6.

POSTERS


Dr. Koyal Garg was a part of the panel discussion for the “Women in Leadership Forum” session at the 2024 Orthopedic Research Society Annual Meeting.
**NEW GRADUATE STUDENTS**

**Ryan Fallon** was born and raised in Southern California. He graduated from San Jose University with his Bachelor’s in Biomedical Engineering. His research experience focused on the development of making more compliant synthetic coronary bypass grafts through bioreactor fabrication and simulations to determine biomarkers for failure modes to alleviate those failures. At the same time, he pursued professional experience in the industry by working for Heartflow, a diagnostic CT software company that is helping to revolutionize the treatment pathway for coronary artery disease. Currently, he works at Young Innovations as a Product development engineer, where he conducts research and develops current and new products for the market for the professional dental equipment industry. He is pursuing a non-thesis master’s and he is excited to learn and grow as much as possible while he is here at SLU.

**Maxwell Adinkra** is from Ghana, graduating with a bachelor’s degree in Biomedical Engineering from Hangzhou Dianzi University in China. His research interests include tissue engineering, medical instruments, and biomaterials. He is a new non-thesis master’s graduate student. Please give a warm welcome to our new graduate students!

**UNDERGRADUATE STUDENT SPOTLIGHT**

Thank you to Abbott for speaking to SLU’s student chapter of the Biomedical Engineering Society (BMES) about potential career and internship opportunities within the cardiac rhythm management (CRM) division! Follow BMES on Instagram @slu_bmes or search for them on SLU Groups for announcements about upcoming speakers!
Ryan Mueller (senior) attended the American Physical Therapy Association Combined Sections Meeting (APTA CSM) in Boston, MA from February 14-17, 2024. This is one of the largest physical therapy conferences in the United States.

He presented a platform presentation titled, “Enhancing Healthcare Education: A Model for Joint End-Feel Replication” discussing a tool that he and his research group developed. The group is headed by Dr. Ann Hayes of the Department of Physical Therapy. This tool aided in educating physical therapy students in their confidence in defining and assessing joint end-feels to simulate a real patient’s movement. Results showed that physical therapy students showed an increase in overall knowledge on the topic of joint end-feels due to the use of the tool. Also, students showed a higher than expected rate of correctly identifying a joint end-feels when using their tool.

Elizabeth Flad (junior) attended the Association for Research in Otolaryngology (ARO) 2024 Midwinter Meeting from Feb. 3-7 in Anaheim, CA. ARO is the world’s largest organization of hearing and balance researchers. She presented on simplifying an existing algorithm to test its ability to artificially localize different sound types in the horizontal direction, based on human sound localization cues. The goals include advancing the algorithm to selectively segregate out specific sounds and apply this to hearing aid device development.

E. Flad, J. Orr, Y. Gai, “A Fast and Accurate Algorithm of Sound Localization for Smart Hearing Aids”, (Poster), ARO 2024, February 3-7, Anaheim, CA
UPCOMING SYMPOSIUMS

Dr. Garg will be presenting a talk on “Regenerative Rehabilitation for Musculoskeletal Trauma” at the NC NM4R 2024 Showcase Symposium. This free virtual conference takes place from March 14-15, 2024. Click on the flyer below to register and please consider attending!

NC NM4R 2024 Showcase Symposium
March 14-15, 2024 | 10AM ET, Via Zoom

Join the National Center of Neuromodulation for Rehabilitation for a free, two-day, virtual symposium showcasing the diverse portfolio of research supported by the NC NM4R.

Perspective Speakers
Charlotte Stagg, Ph.D. University of Oxford & St. Helens College

Featured Presentations From NC NM4R Supported Speakers
Deborah Barany, Ph.D. University of Georgia
Andreae Benitez, Ph.D. Medical University of SC
Michael Borich, DPT, Ph.D. Emory University
Marian Dale, M.D. Oregon Health and Science University
Ashley Dalrymple, Ph.D. University of Utah
Wayne Feng, M.D. Duke University
Koyal Garg, Ph.D. Saint Louis University
Dorothée Jenkins, M.D. Medical University of South Carolina
Gonzalo Revuelta, DO Medical University of South Carolina
James Sulzer, Ph.D. MetroHealth System
Andrew Tan, Ph.D. University of Colorado, Boulder
Mike Urbin, Ph.D. University of Pittsburgh
Sharyl Samaria-Grivette, Ph.D., CCC-SLP University of Minnesota, Duluth
Marlon Wong, PT, Ph.D. University of Miami

Stay Tuned, More Perspective Speakers To Be Announced!
Scan Here to Learn More and Register!

UPCOMING SEMINARS

Date: Wednesdays (see dates below)
Time: 3:30-4:45 PM
Location: BME 1004

3/6 No Seminar
3/13 No Seminar – Spring break
3/20 Jakeh Orr, Alli Faber Gai Lab and Zustiak Lab
3/27 No seminar – Easter break
SOCIAL EVENTS

Thank you to everyone who attended our graduate student social event: Trivia at the City Foundry STL on February 8, 2024. BME commends everyone’s efforts in testing your knowledge outside of academics! Take a look at the fun below!

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