

# Biomedical Engineering Graduate Program Newsletter

School of Science and Engineering | Saint Louis University

## Welcome STARS Students!

Welcome to our **STARS high school students** who are learning biomedical engineering techniques in the labs.

From Dr. Zustiak's lab, please welcome:



**Nathan Ly**



**Shashank Mani**

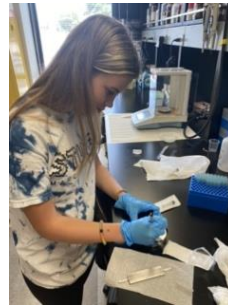
From Dr. Sell's lab, please welcome:



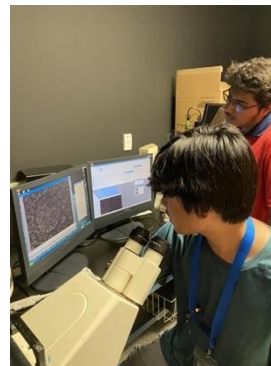
**Jessica Kellerman**



**Ben Horwitz**



Pictured to the left is Jessica Kellerman preparing a glass slide to create a scaffold.



Nathan Ly (blue) and Shashank Mani (red) are observing microspheres through a fluorescent microscope.

## Recent Graduates

Congratulations to **Abigail Avila**, advisor Scott Sell, who successfully defended her Ph.D. dissertation "Alginate Hydrogels as Platform Bone Spacers for Masquelet's Induced Membrane Technique" on Friday, July 1<sup>st</sup>.

## 2022 BME Seminar Series

**Time:** Wednesdays at 11 AM

**Location:** MDH Rm 1016

Date	Speaker 1	Speaker 2
June 29	Austin Krohn (Case)	David Johnson (Garg)
July 6	Sam Stealey (Zustiak)	Prathamesh Bhagvath (Hall)
July 13	BME Alumnus	BME Alumnus
July 20	Eileen Robertson (Sell)	Emily Luc (Zustiak)
July 27	Jakeh Orr (Gai)	Qi Chen (Gai)
August 3	Jamshid Tadiwala	Elena Castiaux (Sell)

## Submitted Grant Proposals

“Development and Preclinical Testing of a Minimally Invasive Chemotherapy and Hormonal Embolization Treatment for Prostate Cancer”, PCRO, Department of Defense, Dates: 07/01/2023 – 06/30/2025, **Silviya Zustiak - PI**; **Andrew Hall - co-I**

“The Beckman Scholars Program at Saint Louis University”, Arnold and Mabel Beckman Foundation, Dates: 07/01/2023 – 06/30/2026, **Silviya Zustiak and Scott Sell - co-Is** (PIs: Paul Bracher and Scott Martin)

## Peer-Reviewed Publications

Cuellar III, D.O., Velez, D.A.G., **Bledsoe, G.** and Watson, J.T., 2021. Hybrid Screw Fixation for Femoral Neck Fractures: Does it prevent mechanical Failure?. *Injury*. 2022, In press

Tegou, F.Z., Velluto, D., Stock, A.A., Fitzgerald, S.N., **Stealey, S., Zustiak, S.P.**, Bayer, A.L. and Tomei, A.A., 2022. CCL21 and beta-cell antigen releasing hydrogels as tolerance-inducing therapy in Type I diabetes. *Journal of Controlled Release*, 348, pp.499-517.