

Austin Evers

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EDUCATION

Auburn University	Auburn, Alabama
Doctor of Philosophy (PhD) Studies and Research	In Progress
	Current GPA: 3.67/4.00
Clemson University	Clemson, South Carolina
Bachelor of Science (B.S.) in Chemical Engineering	May 2020
Concentration in Biomolecular Engineering	

RESEARCH EXPERIENCE

Dr. Jessica Larsen Laboratory , <i>Research in the Chemical Engineering Dept.</i> <i>Undergraduate Researcher</i>	Clemson, South Carolina May 2018 – May 2020
<ul style="list-style-type: none"> • Collaboration between University of South Carolina and Clemson University to deliver nerve regenerating peptides to the central nervous system. • Proficient with biodegradable polymers, PEG-PLA and PEG-PLGA, as drug delivery systems • Preparation of nanoparticles/polymersomes using the solvent injection method via self-assembly • Development of Ligand-Bound to nanoparticles to aid targeting • Demonstrated proficiency in Dynamic Light Scattering to nanoparticle sizes and zeta potential • Freeze-drying nanoparticles/polymersomes using lyophilizer • Proficient in UV/VIS spectroscopy to measure absorption and concentration of solutions to determine nanoparticle loading efficiency. • Successful in culturing of Human Neuroblastoma SH-SY5Y cells • Determination of nanoparticle routes of uptake via uptake inhibition studies. • Finding the degradation of the polymer inside the cells using fluorescent dyes and Cytation machine • Efficient at communicating and analyzing scientific results to various audiences. • Independent, driven researcher as project is self-led. 	
Dr. Agneta Simionescu Laboratory , <i>Research in the Bioengineering Dept.</i> <i>Creative Inquiry Student</i>	Clemson, South Carolina August 2017 – December 2017
<ul style="list-style-type: none"> • Collaborating with a team on the project called “Regenerative Myocardocytes” • Culturing Adipose-derived stem cells to differentiate into cardiomyocytes • Using immunofluorescent staining to show effects of the differentiation media on the cells • Determining the best media to differentiate the stem cells into cardiomyocytes • Differentiating the stem cells into spheroid-like structures to simulate cardiac-like microtissues • Using tissues created from differentiated stem cells in post-myocardial infarctions in the long term • Organizing and scheduling lab meetings and times 	

PRESENTATIONS AND PUBLICATIONS

1. **Evers, A.**; Brady, C.; Sahoo, P.; Twiss, J.; Kelly, J. “Cellular Delivery of Enhanced Polymersomes with Encapsulated Neuron-Regenerating Peptides.” Biomedical Engineering Society Annual Meeting. Philadelphia, PA. (October 2019).

2. **Evers, A.**; Brady, C.; Sahoo, P.; Twiss, J.; Kelly, J. "Optimization of Polymersomes for Delivery of Nerve-Regenerating Peptides." Biomedical Engineering Society Annual Meeting. Atlanta, GA. (October 2018).
3. **Evers, A.**; Brady, C.; Sahoo, P.; Twiss, J.; Larsen, J. Optimization of Polymersomes for Delivery of Nerve-Regenerating Peptides. *Publication In Process*

RESEARCH FUNDING

1. Creative Inquiry Travel Grant. Biomedical Engineering Society Annual Meeting (October 2019). Philadelphia, PA. (\$1,496.25).
2. Creative Inquiry Travel Grant. Biomedical Engineering Society Annual Meeting (October 2018). Atlanta, GA. (\$1,125).

EXTRACURRICULAR ACTIVITIES AND MEMBERSHIPS

American Institute for Chemical Engineers, National Member August 2019 - Present

- Networking with Chemical Engineers and Chemical Engineering companies
- Staying informed about research and safety updates in the field of Chemical Engineering

Biomedical Engineering Society, National Research Presenter and Member September 2018 - Present

- Presenting posters and networking at two annual BMES conferences
- Staying informed about research updates in the field of Biomedical Engineering

College of Engineering, Computing, and Applied Science Ambassador, Clemson, South Carolina Chemical Engineering Ambassador September 2019 – May 2020

- Public speaking to prospective undergraduate about Clemson University's Chemical Engineering department
- Presenting about the opportunities surrounding Chemical Engineering

SCHOLARSHIPS

SC LIFE Scholarship, South Carolina In-State Scholarship Recipient August 2016 – May 2020

- Exhibiting good academic standards throughout college

Abney Scholarship, Clemson University Scholarship Recipient August 2016 – May 2020

- Exhibiting good academic standards throughout college

SKILLS

- | | | |
|--------------------------|--------------------------|---------------------------|
| • Microsoft Office | • Cell Culture | • Time Management |
| • Teamwork/Collaboration | • Data and Stat Analysis | • Gas Chromatography |
| • Critical Thinking | • Communication | • Aspen |
| • UV/Vis Spectroscopy | • Zetasizer (DLS) | • Drug Delivery Synthesis |

INTERESTS

- | | | |
|----------------|-------------------------|----------------|
| • Biomaterials | • Regenerative Medicine | • Nanomedicine |
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- Drug Delivery
- Biophysics
- Biomanufacturing
- Recombinant DNA
- Cellular Delivery
- Immunotherapy
- Tissue Engineering
- Biotechnology
- Protein Engineering