Guanrui Li
Mobile: +1(352)3280291
Email: lg19i@my.fsu.edu

EDUCATION

Florida State University

PhD candidate in chemical engineering 08/2019-present
GPA:4.0/4.0

University of Florida

Master of science in chemical engineering 08/2017-05/2019
GPA:3.71/4.0

Hainan University Haikou, China

College of Material and Chemical Engineering
B.E ng in Chemical Engineering and Technology 09/2013-06/2017
GPA: 80.72/100
Thesis: Investigation on Synthesis Methods of S-2-Amino Amide.

Research Experience

Nanoparticle used for drug delivery 02/2018-03/2019

- Investigate the mechanism of Polymerization induced self-assembly (PISA) and build relationship between PISA and drug molecules.
- Investigate the efficiency of drug loading on nanoparticle and improve the efficiency of drug loading.
- The final goal is to improve the treatment of drugs encapsulated in the nanoparticle,

The changes of nuclear shape after EMT process 02/2018-03/2019

- Investigated the changes of nuclear shape and made comparison between the normal cell's nuclear shape and nucleus after EMT (epithelial to mesenchymal) process.
- Explored the reason leading to the abnormalities of nucleus.
- Changed culture environment of cells such as cultivating cells in specific micropattern to compare the mobility of normal cells and cells after EMT process.

Lipase Catalyzed Chiral Separation of Phenylalanine 10/2015-01/2016

- Investigated on the impact of environmental factors like concentration, reaction time, temperature on the catalytic activity of lipase.
- Literature research for the experimental technique of chiral separation of amino acid
- Employed experimental data for building the chemical reaction kinetic model.
- Analyzed the reaction mechanism.