Nikhil Menon

33 Southgate Drive , South Glastonbury, CT 06073 , (860) 280-1723 , nmenon3@jhu.edu

OBJECTIVE

To improve my understanding of materials in biotechnology and gain experience working in a company.

EDUCATION

Bachelor of Materials Science and Engineering August 2014 - Expected May 2018
Johns Hopkins University, Baltimore, MD

- Cumulative GPA of 3.59
- Awarded Dean's List (spring 2015, fall 2015, and spring 2016)

SKILLS

Programming: MATLAB, Java, Python
CAD Software: Solidworks, AutoCAD
Software: LaTeX
Laboratory techniques: Pipette usage, solution preparation, cell staining, chemical and lab safety procedures
Laboratory Equipment: optical microscope, laser capture machines, Vickers hardness tester, rheometer Rockwell hardness tester, metallographic polishing and mounting devices, Q-Sense QCM-D device.
Laboratory Software: TRIOS, ConfiDENT .

EXPERIENCE

Student Researcher October 2015 - Present
Translational Tissue Engineering Center, Baltimore, MD

- Conduct research on the creation and applications of vitrified collagen membranes
- Create hydrogels and vitrified hydrogels (vitrigels) from collagen, small intestinal submucosa (SIS), cardiac tissue, and Matristem^{TM}.
- Tested the effects of adding cyclodextrin to collagen gels of the resulting vitrified gel.
- Perform material analysis on hydrogels and vitrigels using a G2 Ares rheometer to characterize their material properties.

Intern July 2015 - August 2015
National Chemical Laboratories, Pune, India

- Created supercapacitors by coating strips of PET plastic with gold nanoparticles
- Constructed a simple electrochromic device (ECD)
- Utilized effective techniques for eletropolymerization

Student Researcher August 2013 - May 2014
University of Connecticut Health Center, Farmington, CT

- Conducted research for one year on how differences in osteoblast genotype between Pagetfis disease of Bone (PDB) and osteosarcoma are correlated with the progression of osteoblasts from PDB to osteosarcoma
- Obtained and prepared cell samples for PCR methodology.
- Utilized national databases to analyze and select genes for experimentation.