Yuting Qiu

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EDUCATION

Northeastern University, Boston, MA
College of Chemical Engineering GPA: 3.8/4.0 Sep 2014 - Present
Candidate for a PhD of Science in Chemical Engineering Expected graduation: Apr 2018
Related Courses: Transport Phenomena, Cellular Engineering

Northeastern University, Boston, MA
College of Chemistry and Chemical Biology GPA: 3.0/4.0 Sep 2013 – Apr 2014
Related Courses: Analytical Separation, Principles of Mass Spectrometry, Glycoprotein

Jilin University, Changchun, China
College of Chemical Engineering GPA: 3.5/4.0 June 2013
Bachelor's Degree in Engineering
Related Courses: Polymer Chemistry, Polymer Design
College of Mathematics GPA: 3.8/4.0 June 2013
Bachelor's Degree in Actuarial Sciences (Minor)
Related Courses: Applied statistics, Risk Modeling, Simulation, Programming in Matlab, Chain management

PUBLICATIONS

Northeastern University

- Three-dimensional microtissues as in vitro model for personalized radiation therapy, published by *Analyst*, 2017, 142, 3605 as front cover article
- Enhancing radiation therapy with cell penetrating peptide modified gold nanoparticles, published by *Austin J. Biomed. Eng.* 2016, 3, 1033
- Nanoparticle enhanced anti-metastatic treatment of cancer with ionizing radiation, accepted by *Journal of Materials Science: Materials in Medicine*
- Population based sub-cellular toxicity assay on single cell array, accepted by *Analytica Chimica Acta*
- Nanocellulose hydrogel as 3D scaffold for tissue engineering, submitted to *Biomaterials*
- Photocontrollable dynamic micropatterning of 3D microtissues for radiation condition assessement, submitted to *Langmuir*

PATENTS

- Single Cell Patterning for High Throughput Toxicity Assay 5200.2185-000 (INV-18025)

SKILLS

Laboratory: Radiation Therapy, Cell Culture, Biochemistry, PCR, Confocal Microscopy, Gold Nanomedicine
Software: OriginPro, Microsoft Office, Photoshop, Matlab, Python, R
Social: Strong Communication Ability, Piano (Grade 6 Certified in China), Business Analytics

EXPERIENCE

Research Assistant at Department of Biomedical Engineering
Northeastern University, Boston, MA Apr 2013 – Present

- Researching three-dimensional micro-tissue assay for high-throughput cytotoxicity of nanoparticles
- Designed multi-marker based blood assay for rapid reliable screening of diseases

Analytical Separations Engineer Intern
Catabasis Pharmaceuticals Inc., Cambridge, MA May 2017-Sep 2017

- Optimization Analytics, Data Analysis, Operations research