Jihe Liu

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SUMMARY

Postdoctoral associate with research experience in chemical biology and computational biology. Apply genomics approaches to understand tumor evolution.

EDUCATION & TRAINING

The Jackson Laboratory for Genomic Medicine — Farmington, CT
- **Postdoc in Cancer Genomics** — Present

University of Pittsburgh, Department of Chemistry — Pittsburgh, PA
- **Ph.D. in Chemical Biology** — Aug 2017

Huazhong University of Science and Technology — Wuhan, China
- **B.S. in Bioinformatics** — June 2011

SKILLS

Experimental: molecular cloning, protein expression, cell culture, microscopy, genome editing
Computational: C++, Matlab, Python, R

PUBLICATIONS

Liu, J.; Hemphill, J.; Samanta, S.; Tsang, M.; Deiters, A., Genetic Code Expansion in Zebrafish Embryos and Its Application to Optical Control of Cell Signaling. *J. Am. Chem. Soc.* 2017.

Luo, J., Torres-Kolbus, J., **Liu, J.**; Deiters, A., Genetic Encoding of Photocaged Tyrosines with Improved Light-Activation Properties for the Optical Control of Protease Function. *ChemBioChem* 2017.

Torres-Kolbus, J.; Chou, C.; **Liu, J.**; Deiters, A., Synthesis of non-linear protein dimers through a genetically encoded Thiol-ene reaction. *PloS one* 2014, *9* (9), e105467.

Uprety, R.; Luo, J.; **Liu, J.**; Naro, Y.; Samanta, S.; Deiters, A., Genetic encoding of caged cysteine and caged homocysteine in bacterial and mammalian cells. *ChemBioChem* 2014, *15* (12), 1793-9.

PRESENTATIONS

Talks:

Liu, J.; Tsang, M.; Deiters, A. Genetic Code Expansion in Zebrafish: Optical Control of Cell Signaling, 2017, Midwest Zebrafish Meeting, Cincinnati, OH

Liu, J.; Deiters, A. Optical Control of Cell Signaling in Zebrafish through Genetic Code Expansion, 2017, Biological Chemistry Student Seminar, Pittsburgh, PA

Posters:

Liu, J.; Tsang, M.; Deiters, A. Optical Control of Protein Function in Mammalian Cells and Zebrafish Embryos, 2017, International Conference on Genomic Medicine, Baltimore, MD

Liu, J.; Tsang, M.; Deiters, A. Optical Control of Protein Function in Mammalian Cells and Zebrafish Embryos, 2017, NExM, Pittsburgh, PA

Liu, J.; Tsang, M.; Deiters, A., Optical Control of Protein Function in Mammalian Cells and Zebrafish, 2016, Grad Expo, Dietrich School of Arts & Sciences, Pittsburgh, PA

Liu, J.; Deiters, A., Optical Control of Protein Function by Genetically Encoded Photocaged Unnatural Amino Acids, 2015, Science Unleashed, Pittsburgh, PA

Liu, J.; Uprety, R.; Deiters, A., Engineering the Pyrrolysyl-tRNA Synthetase for the Incorporation of Photocaged Tyrosine and its Derivatives into Proteins, 2012, Southeastern Regional Meeting of ACS (SERMACS), Raleigh, NC

AWARDS

NExM Poster Award — 2017
Strem Family Travel Award — 2017
Genomic Science Graduate Student Fellowship — 2011

LEADERSHIP EXPERIENCE

Teaching

North Carolina State University — Raleigh, NC
Teaching Assistant in Undergraduate Lab in Chemistry — Fall 2013

Huazhong University of Science and Technology — Wuhan, China
Teaching Assistant in Undergraduate Lab in Biochemistry — Fall 2009, Spring 2010

Volunteer

University of Pittsburgh — Pittsburgh, PA
Mentor for team PITT 2015 in iGEM competition — Summer, Fall 2015

Huazhong University of Science and Technology — Wuhan, China
Mentor for team HUST 2011 in iGEM competition — Summer, Fall 2011