QIAN QIN

EDUCATION

Princeton University
Ph.D. in Chemistry, August 2010

University of North Carolina at Chapel Hill
B.S. in Chemistry with distinction, minor in Biology, May 2005

ACADEMIC HONORS

Hugh Stott Taylor Merit Prize, 2005-2009, Princeton University
George B. Rathmann *51 Graduate Fellowship in Chemistry, 2005-2006, Princeton University
Dean's Lists, 2002-2003, UNC-Chapel Hill

TEACHING

Laboratory Teaching Assistant for both Organic Chemistry and General Chemistry
Instructed and helped students to perform weekly laboratory experiments for three semesters

Preceptor for General Chemistry
Led weekly discussion and review of course materials for 1 semester
August-December 2008, Princeton University

Math and Science Teacher
Taught 7th and 8th graders (three classes of 50 students each) math and science, Hillgrove Secondary School, Singapore, January-June 2005

RESEARCH

Postdoctoral Fellow
Center for Aging, School of Medicine, Tulane University, New Orleans, LA
September 2013-May 2015
(1) Determination of DNA binding sites of the SAGA and SLIK protein complexes in vivo via ChIP assay
(2) Determination of the role of PHO84 in lifespan extension in Saccharomyces cerevisiae

Research Assistant
Audubon Center for Research of Endangered Species, New Orleans, LA
March 2012-August 2013
(1) *Derivation of induced pluripotent stem cells in cats*
(2) Isolation and characterization of adipose tissue-derived mesenchymal stem cells from cats

Postdoctoral Fellow
with Professor Ming C. Hammond, Department of Chemistry
University of California, Berkeley, January 2011-March 2012
(1) Transgene control in plants via an alternatively spliced cassette exon
(2) In vitro RNA aptamer selection via native PAGE gel shift assay on microfluidic devices (in collaboration with Professor Amy Herr in Bioengineering)

Graduate Research Assistant
with Professor Robert A. Pascal, Jr., Department of Chemistry
Princeton University and Tulane University, July 2007-August 2010
Synthesis of complex aromatic organic molecules with interesting structures and properties

PUBLICATIONS

Gomez, M. C., **Qin, Q.**; Biancardi, M. N.; Galiguis, J.; Dumas, C.; MacLean, R. A.; Wang, G.; Pope, C. E.; "Characterization and Multi-lineage Differentiation of Domestic and Black-footed Cat Mesenchymal Stromal/Stem Cells from Abdominal and Subcutaneous Adipose Tissues," *submitted*.

Karns, K., Vogan, J. M.; **Qin, Q.**; Hickey, S. F.; Wilson, S. C.; Hammond, M. C. and Herr, A. E., "Microfluidic Screening of electrophoretic mobility shifts elucidates riboswitch binding function," *J. Am. Chem. Soc.* **2013**, *135*, 3136-3143.

Hickey, S.; Sridhar, M.; Westermann, A.; **Qin, Q.**; Vijayendra, P.; Liou, G.; Hammond, M. C., " Transgene regulation in plants by alternative splicing of a suicide exon," *Nucleic Acids Res.* **2012***,* 1-10. (Featured article)

Qin, Q.; Ho, D. M.; Mague, J. T.; Pascal, R. A., Jr., "Exceptional Molecular Architectures via Cycloadditions to Pyrenequinones," *Tetrahedron* **2010**, *66*, 7933-7938.

Qin, Q.; Mague, J. T.; Pascal, R. A., Jr., "An *in*-Ketocyclophane," *Org. Lett*. **2010**, *12*, 928-930.

Walters, R. S.; Kraml, C. M.; Bryne, N.; Ho, D. M.; **Qin, Q.**; Coughlin, F. J.; Bernhard, S.; Pascal, R. A., Jr., "Configurationally Stable Longitudinally Twisted Polycyclic Aromatic Compounds," *J. Am. Chem. Soc.* **2008**, *130*, 16435-16441.

Pascal, R. A., Jr.; **Qin, Q.**, "Conformational Reactions of D_2-Symmetric Twisted Acenes," *Tetrahedron* **2008**, *64*, 8630-8637 (***article featured on the issue cover***).

ACTIVITIES

Resident Graduate Student, Princeton University, August 2008-January 2009
Worked on academic advising team; organized career choices events for lower classmen
Member, Graduate Student Association for Women in Chemistry,
Helped host visiting professors
Safety Officer, Pascal Lab, Princeton University
Ensured safe lab practice and proper waste disposal; communicated new safety procedures
Coordinator, Womentoring Program, UNC-Chapel Hill, 2003-2004
Assisted in organizing social events for faculty and students participants

INTERESTS

Running; birding; reading; travel; food