

Tara E. Mokhtari

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Current Address: 320 Memorial Drive, Cambridge, MA 02139
Permanent Address: 9991 Dell Road, Eden Prairie, MN 55347

Education

Massachusetts Institute of Technology: Cambridge, MA

September 2008 – Present

Department of Chemistry
Bachelor of Science expected June 2012
Current GPA: 4.9/5.0

University of Minnesota: Minneapolis, MN

Fall 2006 – Fall 2007

Non-degree candidate during junior and senior year of high school.
GPA: 4.0/4.0

Harvard College: Cambridge, MA

Summer 2006

Non-degree candidate
GPA: 4.0/4.0

Breck School: Minneapolis, MN

2006 – 2008

High School Diploma
GPA: 4.0/4.0

Experience

Associate Advisor

Fall 2010 – Spring 2011

McCormick Hall

Massachusetts Institute of Technology: Cambridge, MA

Pharmaceutical Development Intern

Summer 2010

Upsher-Smith Pharmaceuticals

Maple Grove, Minnesota

- *In Vitro* intestinal stability investigation
- Instrumentation and techniques utilized:
 - High-performance liquid chromatography (HPLC)
 - Liquid chromatography-mass spectrometry (LC-MS)

Undergraduate Research (UROP)

Spring 2010 – Present

Laboratory of Stephen J. Lippard

Massachusetts Institute of Technology: Cambridge, MA

- Platinum anticancer agents subgroup member

Research Assistant

Laboratory of Ronald G. Brisbois

Summer 2009

Macalester College: St. Paul, MN

- Scope and limitations study of copper(I)-catalyzed azide-alkyne “click” chemistry
- Instrumentation and techniques utilized:
 - Proton nuclear magnetic resonance spectroscopy (^1H NMR)
 - Gas chromatography-mass spectrometry (GCMS)
 - Thin layer chromatography (TLC)
 - Flash-column chromatography

Research Assistant

Laboratory of Walter C. Low

Summer 2007

University of Minnesota: Minneapolis, MN

- Investigated the role of microRNA in the development of glioblastoma brain tumors
- Techniques utilized:
 - Neural stem cell culturing

- Glioma cell (GL261) culturing
- microRNA microarray

Course Tutor and Grader, *Introduction to Solid State Chemistry* (3.091)
Massachusetts Institute of Technology: Cambridge, MA

Fall 2009

MIT Society of Women Engineers, Executive Board
Girl Scout Outreach Co-Chair

Spring 2010 – Spring 2011

Relevant Coursework

Biology

- Introductory Biology (7.013) Spring 2009
- Genetics (7.03) Spring 2010

Chemistry

- Introduction to Solid-State Chemistry (3.091) Fall 2008
- Organic Chemistry I (5.12) Fall 2009
- Organic Chemistry II (5.13) Fall 2010
- Biological Chemistry I (5.07) Fall 2010
- Biological Chemistry II (5.08) Spring 2011
- Thermodynamics and Kinetics (5.60) Fall 2009
- Principles of Inorganic Chemistry I (5.03) Spring 2010

Relevant Labwork

Introduction to Experimental Biology and Communication (7.02)

- Block 1: Biochemistry and Recombinant DNA Spring 2010
- Block 2: Yeast Display Technology Spring 2010
- Block 3: Genetics and Development Spring 2010

Introduction to Experimental Chemistry (5.35)

- Module 1: Fundamentals of Spectroscopy Fall 2009
- Module 2: Synthesis of Coordination Compounds and Kinetics Fall 2009
- Module 3: Fabrication of a Polymeric Light Emitting Device Fall 2009

Biochemistry and Organic Laboratory (5.36)

- Module 4: Expression and Purification of Enzyme Mutants Spring 2011
- Module 5: Kinetics of Enzyme Inhibition Spring 2011
- Module 6: Organic Structure Determination Fall 2010

Organic and Inorganic Laboratory (5.37)

- Module 7: Introduction to Organic Synthesis Spring 2011

Activities and Interests

National Society of Collegiate Scholars
 MIT Symphony Orchestra, principal violist
 MIT Chamber Music Society
 Pi Beta Phi sorority, MA gamma

MIT Society of Women Engineers
 Aviation, private pilot's license training
 Tae Kwon Do, first-degree black belt
 Intramural Soccer