

# Tara E. Mokhtari

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## Objective

To obtain an internship in a chemistry-related position to enhance experience and knowledge in this field.

## 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 ( $^1\text{H}$  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 – Present**

## 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
- Thermodynamics and Kinetics (5.60) Fall 2009
- Principles of Inorganic Chemistry I (5.03) Spring 2010
- Organic Chemistry II (5.13) Fall 2010
- Biological Chemistry I (5.07) Fall 2010
- Biological Chemistry II (5.08) Spring 2011
- Physical Chemistry (5.62) Spring 2011

## 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