

Jennifer Chen Li
jennli@mit.edu, (919) 924-4962

MASSACHUSETTS INSTITUTE OF TECHNOLOGY (M.I.T.)

CAMBRIDGE, MA

Candidate for B.S. in Biology

2014 (expected)

- Current Coursework: Biology, Principles of Chemistry, Physics I, Differential Equations

RESEARCH EXPERIENCE

DUKE UNIVERSITY COMPREHENSIVE CANCER CENTER

DURHAM, NC

Summer on the Edge Program Internship

Summer 2009 – Summer 2010

- Conducted an independent research project in Prof. Francis Ali-Osman's lab in the Surgery Dept.
- Investigated the role of GSTP1 (Glutathione S-transferase P1) in the drug resistance of human glioblastoma (most malignant form of human brain cancer)
- My results demonstrated that the resistance of glioblastoma cells to the chemotherapy drug temozolomide is mediated by GSTP1
- Results will be published in a research paper and I will be a co-author
- Relevant Skills: Working with Human Cell Lines, Western Blot, Drug Treatment of Cells, siRNA Transfection

Research Assistant

Summer 2006 – Summer 2007

- Shadowed a graduate student in Prof. Weiguo Zhang's lab in the Immunology Dept.
- Studied how immune cells communicate, specifically immunoreceptor-mediated signaling pathways
- Learned how to perform various molecular biology techniques: DNA cloning, Cell Culture, MiniPrep, Gel Electrophoresis, and dissection of dead mice for obtaining bone marrow, spleen, and lymph nodes
- Completed the cloning of the gene encoding RAS guanyl nucleotide-releasing protein (RASGRP)

NORTH CAROLINA STATE UNIVERSITY

RALEIGH, NC

Research Assistant

Summer 2008

- Conducted experiments in Dr. Hanley Bowdoin's lab in the Genetics Dept.
- Studied how plant DNA replication and transcription processes are involved in the infection of the plant virus Geminivirus Tomato Golden Mosaic Virus (TGMV)
- Examined the interactions between viral replication factor AL1 with the host protein, Geminivirus Rep Interacting Kinase (GRIK)

PUBLICATION

Li, J. Plastics: The Ambient Technology of the Future. *Plastics Engineering Magazine*. 2010. Vol. 66 (1):42-43.

- International Winner, Society of Plastic Engineers (SPE) "Wonders of Plastics" Essay Contest

RESEARCH AWARDS

- 3rd Place Winner, MIT Merck BE-BMES Research Competition 2010
- 1st Place Winner (both State Level and Regional Level), Advanced Biological Division in the North Carolina Student Academy of Science Competition 2010
- 3rd Place (State Level) and 1st Place (Regional Level), Senior Biological Division at the North Carolina Science and Engineering Fair, ISEF 2010
- Presented at the North Carolina Junior Science & Humanities Symposium 2010

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- 2nd Place Winner, North Carolina Student Academy of Science Competition Advanced Biological Science Division, Regional Level 2009
- 2nd Place Winner, American Society of Human Genetics DNA DAY Essay Contest 2009
- National Semifinalist, United Nations Association of the USA (UNA-USA) Essay Contest and Winner of Hanna Ridgeway Award 2009
- 2nd Place Winner, National Academy of Engineering (NAE) “Energy for the Future” Essay Contest 2008