

Jeff Chen

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Education	Massachusetts Institute of Technology 2015 <ul style="list-style-type: none">• Candidate for Bachelor of Science in Biological Engineering• Coursework: Neuroscience (Minor), Genetics, Organic Chemistry, Thermodynamics, Bioengineering Design, Differential Equations, Multivariable Calculus Cambridge Rindge and Latin School 2010 <ul style="list-style-type: none">• Graduated Valedictorian of a class of 358
Lab Skills	Immunofluorescence Staining; Western Blotting; ELISA/ELIDA; Tissue Culture; Cell-based Screening Assays; Transfection/siRNA Knockdown; Primer Design; PCR/qPCR; Recombinant DNA; Laboratory Automation (liquid handler programming)
Other Skills	Proficient with Python Programing and Microsoft Office
Experience	Immunology Research Intern at Biogen Idec Jun - Aug 2012 <ul style="list-style-type: none">• Developed and carried out multiple cell-based assays for anti-inflammatory drug screening and evaluated the compounds' efficacy through IC₅₀ analysis• Assessed protein expression in NF-κB pathways via IHC and Western blotting• Characterized BAFF (B-cell survival factor) effects in Antiphospholipid Syndrome through ELISA optimization• Performed skin biopsy on humanized mice to study Cutaneous T Cell Lymphoma• Gave three talks over the summer to diverse groups of audience, ranging from high school students to senior scientists Undergrad Researcher at the Whitehead Institute, Sabatini Lab Jan - June 2012 <ul style="list-style-type: none">• Constructed protein nucleases for knockout of tumor suppressor genes• Characterized differential essentiality of human genes in the absence of selected tumor suppressors through haploid screening in KBM-7 cells Summer Intern in Molecular Biology R&D at the Broad Institute July - Aug 2010 <ul style="list-style-type: none">• Improved PCR conditions for amplicons of extremely high GC content and yielded more even sequencing readouts by testing combinations of factors• Analyzed DNA enrichment levels via qPCR assays• Created a scientific poster and presented to both the Institute's scientific community and non-scientists
Recognitions	Co-author of a journal paper in <i>Genome Biology</i> 2011 <ul style="list-style-type: none">• "Analyzing and Minimizing PCR Amplification Bias in Illumina Sequencing Libraries" <i>Genome Biology</i> 2011, 12:R18 \$2,500 Scholarship from Harvard University's PBH Association 2010 <ul style="list-style-type: none">• For commitment to promote and sustain diversity in the Cambridge community
Activities	Theta Xi Fraternity, Delta Chapter: Representing delegate of the MIT chapter at the 2012 national convention "Rising Stars Academy" Sports: Captain intramural volleyball, badminton and table tennis teams Education: Mentor and tutor inner-city students from Boston Public Schools in math, reading and writing every Sunday morning with MIT's Amphibious Achievement.