

HITOSHI TSUJIMOTO

ASSISTANT RESEARCH SCIENTIST

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SUMMARY

Experienced researcher with in-depth understanding and hands-on experience of CRISPR genome editing, including sgRNA design, biochemical validation of Cas9-sgRNA complex, in vivo knockout generation, and genotyping mutant individuals using high-resolution melt curve analysis (HRMA). Expert in plasmid construction for protein expression, eukaryotic cell transfection, and RNAseq experiment (from design to library prep and bioinformatic analysis). Meticulous record keeper (electronic) with extended experience in presenting research in internal and external meetings.

EXPERIENCE

- **ASSISTANT RESEARCH SCIENTIST** [Texas A&M University](#)
College Station *December 2016 - Present*
 - Designed and conducted experiments to characterize iron transporters in disease vector mosquito using molecular biology and biochemistry technologies (including CRISPR/Cas9 knockout generation, HRMA genotyping)
 - Conducted RNAseq project (plan, sample collection, library prep/QC, bioinformatics analysis, and writing manuscript).
 - Trained undergrads, graduate students, and postdocs on molecular biology, biochemistry, cell biology, microscopy techniques, and bioinformatics.
 - Published 5 peer-reviewed papers (1 more in prep).
- **POST-DOCTORAL RESEARCHER** [New Mexico State University](#)
Las Cruces, NM *November 2013 - October 2016*
 - Characterized amino-acid transporters in the dengue vector mosquito using molecular biology and electrophysiology techniques.
 - Performed cryosection, immunostaining, and confocal microscopy on insect antennae.
 - Conducted RNAseq study of the mosquito in response to dengue virus infection.
 - Published 4 peer-reviewed papers.
- **POST-DOCTORAL FELLOW** [Penn State University](#)
University Park, PA *November 2011 - October 2013*
 - Characterized the aquaporins water channels in the malaria mosquito, the bed bug, and the tick as targets to disrupt their water homeostasis to reduce population.
 - Published 7 peer-reviewed papers.
- **POST-DOCTORAL FELLOW** [Johns Hopkins University](#)
Baltimore, MD *August 2010 - October 2011*

Same as above position

EDUCATION

■ **DOCTOR OF PHILOSOPHY (PH.D.) IN ENTOMOLOGY (MOLECULAR BIOLOGY, BIOCHEMISTRY)**

University Of Georgia, Athens, GA

July 2010

■ **BACHELOR OF SCIENCE (B.S.) IN BIOLOGY**

Utah State University, Logan, UT

GPA 3.9

May 2004

Awards & Honors

- Magna cum laude

ADDITIONAL SKILLS

- Seeker of improvement for greater efficiency
- Statistical analysis with R, GraphPad, and Excel
- Mammalian primary culture (spleen, bone marrow), and cell line
- Python coding for big data manipulation and statistics