

KENSEI KISHIMOTO

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EDUCATION

Bachelor of Science in Biochemistry

Minor in Bioinformatics

Overall GPA: 3.94

Expected June 2020

University of California, Los Angeles

Sentinel Secondary School

Vancouver, Canada

July 2016

RESEARCH EXPERIENCE

Undergraduate Researcher

Hoffmann Lab at University of California, Los Angeles

June 2017-Present

Los Angeles, CA

- Performed differential gene expression analysis using edgeR on murine fibroblasts upon stimulations with TNF and LPS
- Visualized and interpreted various RNA-seq data using R and various R packages such as ggplot2 and pheatmap
- Conducted ChIP-seq of RelB transcription factor in murine fibroblasts
- Analyzed and interpreted data from ChIP-seq experiments using softwares such as deepTools, Integrated Genome Viewer, and HOMER
- Design ChIP-qPCR experiments to identify binding of ISGF3 and GAF transcription factors at gene promoters of interest
- Mentor an undergraduate student on computational analysis through weekly meetings

High School Intern

Students on the Beamline Project

May 2016

Saskatchewan, Canada

- Generated a research hypothesis through literature review and conducted an experiment to look at chemical changes in tomato pollen in response to heat stress
- Analyzed mid-IR spectra to study a change in chemical compositions of tomato pollens using an analysis software OPUS

RESEARCH SKILLS

Computer Languages

R, C++, Shell Scripting, Python

Computational Analysis

ChIP-seq, RNA-seq

Experimental Techniques

ChIP-qPCR, ChIP-seq, primer design, cell culture, genotyping

POSTERS/ORAL PRESENTATIONS

1. **Kishimoto K**, Cheng Q, Wilder C, Buchanan J, Hoffmann A. Type-I interferon induces temporally distinct activities of two STAT1-containing transcription factor complexes. *American Physician Scientist Association Annual Meeting*, May 2019
2. **Kishimoto K**, Cheng Q, CS Ng, Hoffmann A. Studying RelB's Role as a Negative Regulator of IFN- β by ChIP-seq Analysis. *Bruins-In-Genomics Program*, August 2018
3. Ngo K, **Kishimoto K**, Hoffmann A. Structure-Function Analysis of NF- κ B/RelA in Activating Endogenous Target Gene Expression. *Undergraduate Research Poster Day*, May 2018

4. **Kishimoto K**, Boltz T, Ngo K, Hoffmann A. Differential Gene Expression Analysis of an NFκB/RelA Transactivation Domain Mutant. *Bruins-In-Genomics Program*, August 2017
5. Oral Presentation: Chemical mechanism of thermotolerance in pea pollen using mid-infrared spectroscopy. *Students on the Beamline project at University of Saskatchewan*, May 2016

VOLUNTEERING AND LEADERSHIP

Hospital Volunteering Coordinator

Sep 2016-Present

Bruins Fighting for Pediatric Cancer (BFPC)

UCLA

BFPC raises awareness for pediatric cancer and serves children and families who are affected by cancer, by fundraising money, volunteering, and hosting educational events.

- Volunteered and interacted with patients at Pediatric Hematology and Oncology outpatient and inpatient units at UCLA Ronald Reagan Hospital for over 150 hours
- Managed the volunteering programs for 30 undergraduate students, working closely with ChildLife specialists
- Fundraised \$6,504 collectively for our annual event Cranes for Cancer to donate to Alex's Lemonade Stand Foundation to fund pediatric cancer research

Curriculum Director and Finance Director

Jan 2017-Present

Glendale Learning Program

UCLA

Glendale Learning Program promotes educational equity through personalized tutoring and mentorship. We have over 20 volunteers and work with over 30 middle school students.

- Tutored and mentored middle school students from immigrant families and underprivileged background weekly
- Designed weekly quizzes, based on California education standard, for the students to assess improvements in their learning
- Acquired \$8,857 to operate the program by successfully applying to a UCLA organizational funding body for 2018-2019 academic year

AWARDS

June 2017-2018	Awardee, Bruins-In-Genomics Summer Program Grant
August 2017	Best Poster Award recipient, Bruins-In-Genomics Summer Program
May 2017	Most Dedicated Volunteer Award, BFPC
Fall 2017-Present	Dean's List
Fall 2017-Present	Honors College Program, UCLA

REFERENCES

Professor. Alexander Hoffmann, Ph.D.

Asher Professor of Microbiology

Department of Microbiology, Immunology, and Molecular Genetics

University of California, Los Angeles

Email: ahoffmann@ucla.edu

Quen Cheng, MD.

Board Certified Infectious Disease Specialist

Department of Medicine

University of California, Los Angeles

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