
KAITO KIKUCHI

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EDUCATION

UNIVERSITY OF TOKYO – TOKYO, JAPAN April 2014 – March 2016

Master of Science – *Biophysics*

- Department of Basic Science, Graduate School of Arts and Sciences

INTERNATIONAL CHRISTIAN UNIVERSITY – TOKYO, JAPAN April 2010 – March 2014

Bachelor of Arts/Science – *Biology Major*

- **GPA:** 3.12/4.00
- **Relevant Course Work:** Cell Dynamics, Biochemistry, Plant Physiology, Ecology, Biostatistics, Biotechnology, Marine Field Studies, Laboratory in Animal Physiology, Laboratory in Biochemistry, Laboratory in Molecular Microbiological Ecology

UNIVERSITY OF CALIFORNIA AT BERKELEY – BERKELEY, CA July 2012 – August 2012

- Summer Student – Neuroanatomy and Psychopharmacology focus

RESEARCH EXPERIENCE

UNIVERSITY OF TOKYO – TOKYO, JAPAN April 2014 – Present

Masters Student

- Independent research for Master's degree under guidance of Professor Yuichi Wakamoto..
- Research on cellular heterogeneity in clonal bacteria populations using microfluidic devices..

SYSTEMS BIOLOGY INSTITUTE – TOKYO, JAPAN April 2013 – Present

Student Research Assistant

- Research on gene regulatory network of mouse primordial germ cell sex determination.
- Research on clustering protein-protein interaction networks with focus on drug repositioning.

INTERNATIONAL CHRISTIAN UNIVERSITY – TOKYO, JAPAN December 2012 – March 2014

Undergraduate Researcher

- Independent research for senior thesis under guidance of Professor Tatsuo Nunoshiba.
- Analysis of the genome stabilization system of the extremely thermophilic eubacterium *Thermus Thermophilus* through a plasmid homologous recombination detection system.
- Presented the research results at the 42nd Annual meeting of The Japanese Environmental Mutagen Society (JEMS).

SKILLS AND INTERESTS

Research Interests

- Stochastic Gene Expression, Non-Coding RNA, Phenotypic Variability, Genomic Stability, Genotype-to-Phenotype Relationships, Synthetic Biology, Fundamental Understanding of Life.

Research Skills

- PCR, Transformation, Electrophoresis, Site-Specific Gene Disruption, Genomic/Plasmid DNA Extraction, SNP Calling, Sequence Alignment, Pathway Modeling (CellDesigner, E-Cell3).

Languages

- Fluent in English: TOEFL iBT 116 points, IELTS Academic 8.5 points, TOEIC 985 points.
- Native fluency in Japanese.

Living abroad

- Studied abroad at University of California at Berkeley, CA, United States of America 2012
- Lived in Discovery Bay, Hong Kong 1994 – 1999

PROFESSIONAL EXPERIENCE

SHOYOJUKU PRIVATE TUTORING – TOKYO, JAPAN

January 2011 – Present

President

- Founding, managing, and teaching at a private tutoring school for secondary school students.

WEEKLY GIANTS CO. – TOKYO, JAPAN

June 2012- December 2012

Editor in Chief

- Responsible for design, writer management, and final checking of an independent weekly newspaper publishing organization at International Christian University.

INDEPENDENT WEB JOURNAL – TOKYO, JAPAN

November 2012 – Present

Intern, literature research

- Curating and translating research papers on US/Japan relationships published by the Heritage Foundation, Brookings Institute and other think tanks for the UStream broadcasting agency.

POSTER PRESENTATIONS

Kaito Kikuchi, Kazune Ezaki, Hanaka Mera, Keiichiro Hiratsu, Tatsuo Nunoshiba (November 2013)

“Role of DNA repair in *Thermus thermophilus* genomic integrity ~Analyzing through a Homologous Recombination Detection System” 42nd Annual Meeting of the Japanese Environmental Mutagen Society (JEMS)

Kaito Kikuchi, Kazune Ezaki, Hanaka Mera, Keiichiro Hiratsu, Tatsuo Nunoshiba (May 2013)

“Evaluation of a Homologous Recombination Detection System in *Thermus thermophilus*” Okinawa Integrated Biology Course, OIST

ORAL PRESENTATIONS

Kaito Kikuchi, Kazune Ezaki, Hanaka Mera, Keiichiro Hiratsu, Tatsuo Nunoshiba (November 2013)

“Role of DNA repair in *Thermus thermophilus* genomic integrity ~Analyzing through a Homologous Recombination Detection System” 42nd Annual Meeting of the Japanese Environmental Mutagen Society (JEMS)

- Chosen by JEMS as an oral presenter.

Kaito Kikuchi, Kazune Ezaki, Hanaka Mera, Keiichiro Hiratsu, Tatsuo Nunoshiba (June 2013)

“Evaluation of a Homologous Recombination Detection System in *Thermus thermophilus*” 26th Summer School of Mutagenesis Mechanisms

AWARDS AND HONORS

TAKUYA TOKIHISA AWARD –INTERNATIONAL CHRISTIAN UNIVERSITY

March 2014

- Awarded for outstanding senior thesis research project.

PEACE BELL SCHOLAR –INTERNATIONAL CHRISTIAN UNIVERSITY

April 2010 – Present

- Competitive scholarship that covers ¥ 1 million/year for 4 years.

DEAN’S LIST –INTERNATIONAL CHRISTIAN UNIVERSITY

June 2011

- Commendation by the college dean for academic achievement.

ATTENDED WORKSHOPS

QBIC SPRING COURSE–RIKEN QUANTITATIVE BIOLOGY CENTER (QBIC)

March 2014

- Hands-on training at the Furusawa lab on *E. coli* adaptive evolution. Acquired experiment skills (microarray) and computational skills (PCA analysis).

2ND E-CELL SPRINT–KEIO UNIVERSITY SHONAN FUJISAWA CAMPUS

September 2013

- Weeklong workshop held jointly by Keio University and RIKEN on modeling biological pathways using the whole-cell simulation software E-Cell3.

OKINAWA INTEGRATED BIOLOGY COURSE–OKINAWA INST. OF SCIENCE AND TECHNOLOGY May 2013

- Two-week long workshop focusing on quantitative biology. Participated as the only Japanese and undergraduate.

VOLUNTEER ACTIVITIES

PANEL SPEAKER –*INTERNATIONAL CHRISTIAN UNIVERSITY*

October 2013

Open Campus Day for Parents

- Participated in a model-discussion class as a representative of the Biology Department. Contents are shared online as an OpenCourseWare lecture.

ORGANIZING MEMBER –*INTERNATIONAL CHRISTIAN UNIVERSITY*

April 2012 – Present

Science Experiment Fair for Children

- Planning and organizing an annual science fair for young children. 100 children and their parents visited International Christian University for the 2013 fair.