MAKI INADA

CURRICULUM VITAE

ITHACA COLLEGE BIOLOGY DEPARTMENT
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EDUCATION

Ph.D. and M.S., Biochemistry and Biophysics 2004
University of California, San Francisco, CA
Advisor: Christine Guthrie

B.S., Chemistry, Minor in Biology 1994
Massachusetts Institute of Technology, Cambridge, MA
Advisor: James R. Williamson

PROFESSIONAL APPOINTMENTS

Assistant Professor 2009 - present
Department of Biology, Ithaca College, Ithaca, NY

Adjunct Assistant Professor 2009 - present
Department of Molecular Biology & Genetics, Cornell University, Ithaca, NY

Senior Research Associate & Lecturer 2007 - 2009
Department of Molecular Biology & Genetics, Cornell University, Ithaca, NY

Postdoctoral Fellow 2005 - 2007
Plant & Microbial, Molecular & Cell Biology Departments, University of California, Berkeley, CA
Advisor: Steven E. Brenner

Visiting Assistant Professor 2004 - 2005
Biology Department, Macalester College, St. Paul, MN

TEACHING EXPERIENCE

Assistant Professor, Ithaca College, Department of Biology 2009 – present

Principles of Biology Introductory Course and Laboratories
Biochemistry II – Molecular Biology of the Gene
Current Topics in Biochemistry
Experimental Biochemistry Laboratory Course

Lecturer, Cornell University, Department of Molecular Biology and Genetics 2007 – 2009

Research Practicum in Molecular & Cell Biology - Instituted new undergraduate research course.
Human Genetics and Society -Conducted upper-level course including ethical, legal, & social issues.
Genomics and Society - Designed Freshman Seminar based on the Human Genome Project.
Advanced Molecular Biology Laboratory - Developed experimental module for 1st year grad

students.

Visiting Assistant Professor, Macalester College Biology Department 2004 – 2005

Introductory & Upper-Level Biochemistry Courses and Laboratories - Revamped Biochem curriculum.

Teaching Assistant, U.C.S.F. Medical School 1994 – 1995

Interdisciplinary Studies in Biology - Recipient of best teaching assistant award.

Teaching Assistant, M.I.T. Biology Department 1993 – 1994

Principles of Biochemistry - Invited leader for undergraduate course with weekly discussion.

RESEARCH EXPERIENCE

Assistant Professor Ithaca College 2009 – present

· Studying an unusual mode of gene regulation coupling alternative splicing with decay in yeast.

Senior Research Associate Cornell University, Jeffrey A. Pleiss 2007 – 2009

· Examining regulation of gene expression via pre-mRNA splicing using microarrays in yeast.

Postdoctoral Research U.C. Berkeley, Steven E. Brenner 2005 - 2007

· Investigated an unusual mode of gene regulation associated with some of the most conserved regions in the human genome. Resulted in publication in *Nature* with undergraduate co-author.

Visiting Assistant Professor Macalester College 2004 - 2005

· Designed new undergraduate laboratories based on open-ended research modules including 2-hybrid screening of auxin binding proteins and microarray analysis of environmental stress.

Ph.D. Thesis U.C.S.F., Christine Guthrie 1994 - 2004

DISSERTATION: Genetic, Biochemical and Genomic Investigation of RNP biogenesis in *S. cerevisiae*.

PROJECT: Pioneered immunoprecipitation microarray assay to identify novel RNAs in *S. cerevisiae.*

THESIS COMMITTEE: Christine Guthrie (chair), Peter Walter, Liz Blackburn, Erin O'Shea.

Undergraduate Research M.I.T., James R. Williamson 1991 - 1994

· Analyzed the thermal stability of telomeric G-quartet sequences

· Developed a procedure for isotopically labeling nucleotides in *E. coli* for NMR

Summer Research Intern Genetics Institute/Wyeth, Yibin Xiang 1994

· Organic synthesis of small molecule anti-inflammatory compounds

Summer Research Intern Proctor & Gamble, Osaka, Charles Tsai 1993

· Developed an immunohistochemical assay for testing protein penetration into hair

FUNDING

Research Corporation Cottrell College Investigator Grant *($35,000*), Ithaca College 2010-2012

College of Arts and Sciences Dean Support *($90,000*), Cornell University 2007-2009

CALS Bentinck-Smith One Time Teaching Needs Award *($16,000*), Cornell University 2007

Genetically Engineered Machines Team (*raised $9,000*), Cornell University 2007-present

AWARDS

NIH Genetics Training Grant Award, U.C.S.F. 1995 – 2000

University of California, Regents Fellowship, U.C.S.F. 1994 - 1995

Richard Fineberg Memorial Teaching Award, U.C.S.F. 1996
Award for excellence in teaching based on student and faculty evaluations.

Undergraduate Research Opportunities Program Award, M.I.T. 1994
Award for excellence in undergraduate research chosen by Chemistry Department Faculty

PUBLICATIONS

Inada, M, and Pleiss JA. 'Genome-wide approaches to monitoring pre-mRNA splicing.' *Methods in Enzymology*. Ed. Guthrie, C, Fink, GR and Weissman JE. 2010. *In press*.

Sahi, C, Lee, T, **Inada, M**, Pleiss, JA and Craig EA. 'Cwc23, an essential J-protein critical for pre-mRNA splicing with a dispensable J-domain.' *Molecular Cellular Biology*. 2010. Jan;30(1):33-42.

[1]Lareau, LF, [1]**Inada, M**, Green, RE, [2]Wengrod, JC, and Brenner SE. 'Unproductive splicing of SR genes associated with highly conserved and ultraconserved DNA elements.' *Nature*. 2007 Apr 19; 446(7138):926-929.

[1]These authors contributed equally to this work.
[2]Denotes undergraduate under my supervision.

Inada M and Guthrie C. 'Identification of Lhp1-associated RNAs by microarray analysis in *Saccharomyces cerevisiae* reveals association with coding and noncoding RNAs.' *Proc Natl Acad Sci USA*. 2004 Jan 13 101(2) 434-439.

Batey RT, **Inada M**, Kujawinski E, Puglisi JD, Williamson JR. 'Preparation of isotopically labeled ribonucleotides for multidimensional NMR spectroscopy of RNA.' *Nucleic Acids Res*. 1992 Sep 11; 20(17):4515-23.

ORAL PRESENTATIONS

RNA Society Meeting, Madison, Wisconsin, June 2007. '*Ultraconserved Nonsense: For an unusual mode of gene regulation*.' **Selected talk**.

RNA Society Meeting, Banff, Canada, June 2001. '*Identification of Lhp1-Associated RNAs Using Whole Genome Microarray Analysis in S. cerevisiae.*' **Selected talk**.

SELECTED POSTER PRESENTATIONS

RNA Society Meeting, Seattle, Washington, June 2010. **Poster**. 'Genome-Wide Analyses of *prp8* Alleles Implicated in the Two-State Model for Spliceosome Activitiy.'

RNA Society Meeting, Seattle, Washington, June 2006. **Poster**. '*Pervasive Unproductive Splicing in the Human SR Protein Family Associated with Ultraconserved DNA Elements.*'

UC Berkeley, Molecular & Cell Biology Retreat, Asilomar, California, September 2005. **Poster**. '*Analysis of regulated unproductive splicing and nonsense-mediated decay in the SR protein family.*'

RNA Society Meeting, Vienna, Austria, June 2003. **Poster**. *'Search for Lhp1-Associated RNAs Using Whole Genome Microarrays Identify Novel RNAs, Additional Noncoding RNAs, and mRNAs.'*

Eukaryotic mRNA Processing Meeting, Cold Spring Harbor Laboratory, New York, 1999. **Poster**. '*Genetic and Biochemical Analyses of the Spliceosomal Small Nuclear Ribonucleoprotein Particle Biogenesis Factor, Brr1p.*'

Dynamic Organization of the Nucleus Meeting, Cold Spring Harbor Laboratory, New York, 1998. **Poster**. '*snRNA transport in S. cerevisiae : Investigation by in situ hybridization.*'

RNA Society Meeting, Banff, Canada, 1997. **Poster**. *'Are snRNAs Transported during Their Biogenesis in S. cerevisiae?'*

RNA Society Meeting, Madison, Wisconsin, 1996. **Poster**. '*Screen for U1:5' splice site modulators.*'

PROFESSIONAL ACTIVITIES

Biochemistry Steering Committee	Ithaca College	2009-present
Institutional Biosafety Committee	Ithaca College	2010-present
Biology Club Faculty Advisor	Ithaca College	2010-present
Faculty Advisor	Cornell Genetically Engineered Machines (iGEM) competition team	2008-present
RNA Society Member		1994-present
Sigma Xi		1994-present