Kam D. Dahlquist, Ph.D. Professor of Biology Loyola Marymount University

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EDUCATION

Ph.D. University of California, Santa Cruz

Molecular, Cellular, and Developmental Biology Program

Advisor: Joseph D. Puglisi, Ph.D.

Committee: Harry F. Noller, Ph.D., Manuel Ares, Jr., Ph.D. Thesis: Interaction of Translation Initiation Factor IF1

with the E. coli Ribosomal A Site

B.A. Pomona College, Claremont, California

May 1993

March 2000

Biology, cum laude

University College, Oxford University, Oxford, England

Fall 1991

2017_present

Study Abroad Program

Specialized tutorial in Philosophy of Science

POSITIONS HELD

Professor

Professor	2017–present
Department of Biology, Loyola Marymount University, Los Angeles, California	_
Affiliate Faculty Bioethics Institute, LMU	2013-present
William F. McLaughlin Chair of Biology, LMU	2010-2012
Associate Professor, Department of Biology, LMU	2009-2017
Assistant Professor, Department of Biology, LMU	2005-2009
Assistant Professor Department of Biology, Vassar College, Poughkeepsie, New York	2003–2005
Postdoctoral Fellow Gladstone Institute of Cardiovascular Disease, University of California, San Franc	2000–2003 isco
Adjunct Lecturer Department of Biology, Santa Clara University, Santa Clara, California	Spring 2000
Visiting Researcher Department of Structural Biology, Stanford University, Stanford, California	1997–2000
Research Assistant	1994–1997

Department of Biology, University of California, Santa Cruz, California

GRANTS, FELLOWSHIPS, HONORS, AWARDS

Kadner-Pitts Research Grant

2017-2018

\$11,600, Experimental, Mathematical Modeling, and Data Visualization Methods to Investigate the Properties of the Gene Regulatory Network Controlling the Cold Shock Response in Budding Yeast

ASBMB Travel Grant 2016

\$500, to present at the American Society for Biochemistry and Molecular Biology Annual Meeting, April 2-5, 2016, San Diego California

National Institute for Mathematical and Biological Synthesis (NIMBioS)

2015-2017

Working Group, Unpacking the Black Box: Teaching Quantitative Biology,

Invitation-only, collaborative group with face-to-face meetings held at the University of Tennessee, Knoxville and an online collaboration between meetings

Elizabeth and Michael Rudinica Endowed Prize for Student-Faculty Research

2015

Seaver College of Science and Engineering, Loyola Marymount University

Kadner-Pitts Research Grant

2015-2016

Department of Biology, Loyola Marymount University

\$13,400, Extending and Refining the Mathematical Model of the Gene Regulatory Network Controlling the Cold Shock Response in Budding Yeast

ASBMB Thematic Best Poster Award in Systems Biology

2012

\$500, for poster presented at the American Society for Biochemistry and Molecular Biology Annual Meeting, April 20-24, 2012, San Diego, California

ASBMB and NSF Travel Grant

2012

\$2,250, to present at the American Society for Biochemistry and Molecular Biology Annual Meeting, April 20-24, 2012, San Diego California

NSF-DMS Mathematical Biology, MCB Genes and Genome Systems

2009-2015

\$246,123, Collaborative Research and RUI: Stochastic Dynamic Network Models of Gene Regulation under Environmental Stress

Principal Investigator: Kam D. Dahlquist; Co-Principal Investigator: Ben G. Fitzpatrick

Loyola Marymount University Center for Teaching Excellence Travel Grant, \$740

2009

NSF-UBM (Interdisciplinary Training for Undergraduates in Biological and Mathematical Sciences)

2007-2010

\$240,000, Analysis of Stress in Biological Systems

Principal Investigator: Ben G. Fitzpatrick; *Co-Principal Investigators*: Wendy J. Binder, Erika Camacho, **Kam D. Dahlquist**, Gary A. Kuleck; *Faculty Associates*: Philippa M. Drennan, Martin G. Ramirez, *Interdisciplinary Research Project* with Ben G. Fitzpatrick entitled, *Modeling*

Gene Expression Networks in Saccharomyces cerevisiae

W.M. Keck Foundation 2007–2010

\$300,000, Equipment for the Molecular Analysis and Imaging Laboratory Principal Investigator: Gary A. Kuleck; Co-Principal Investigators: Kam D. Dahlquist, David Moffet, Martin G. Ramirez, Carl R. Urbinati

Kadner-Pitts Research Grant 2007-2008 Department of Biology, Loyola Marymount University \$10,000, Mapping Gene Regulatory Networks in Yeast using DNA Microarrays, Mathematical Modeling, and GenMAPP Merck-AAAS Undergraduate Science Research Program 2006-2008 \$120,000 (\$60,000 plus \$60,000 matching funds from Loyola Marymount University) Chemical and Biological Aspects of Pollution in the Ballona Wetlands Principal Investigator: M. Catherine McElwain; Director and Co-Principal Investigator: Kam D. **Dahlquist**; Co-Principal Investigators: Rachel Adams, Lambert Doezema, John Dorsey, Philippa M. Drennan, Gary A. Kuleck, Jim Landry, Jeremy McCallum, David Moffet, Martin G. Ramirez, James Roe, and Carl R. Urbinati, Interdisciplinary Research Project with David Moffet and Carl R. Urbinati entitled Identifying Soil Bacteria and Biochemical Pathways in the Ballona Wetlands for the Bioremediation of Organic Pollutants 2007 **Academic Technology Grant**, Loyola Marymount University \$4,000, Introducing DNA Microarray Technology in the New Laboratory Course, Biology 478: Molecular Biology of the Genome **Dartmouth Faculty Summer Institute Travel Award and Stipend** August 2006 ELSI Reunion and Conference, Dartmouth University, Hanover, New Hampshire Summer Research Grant for New Faculty, Loyola Marymount University 2006 \$4,000, The Transcriptional and Proteomic Response to Cold Shock and Recovery in Saccharomyces cerevisiae Merck-AAAS Undergraduate Science Research Program 2005 Principal Investigator: Richard B. Hemmes, Department of Biology, Vassar College Interdisciplinary Research Project with Eric S. Eberhardt, Department of Chemistry, Vassar College entitled Examining the Molecular Details of Oxidative Stress from the Genome to the Proteome [I declined my share of the funding upon my move to Loyola Marymount University] Mellon Faculty Conversations Award, Vassar College 2004-2005 \$2,000, Effective Grading: A Tool for Learning and Assessment **Dartmouth Faculty Summer Institute Travel Award and Stipend** July 2004 Ethical, Legal, and Social Implications of the Human Genome Project Dartmouth University, Hanover, New Hampshire Sigma Xi, Full Membership 2004 Associate Membership 1992 Carolyn Grant Endowment for Embodied Learning, Vassar College 2004 \$2,000, Sponsored a visit by Jean Couch to lead workshops on *Balanced Posture* for Introduction to Biological Thought: The Human Genome and the campus community **GAANN Fellowship**, U.C. Santa Cruz 1995-1997 1993 Phi Beta Kappa Vaile Prize in Biology, Pomona College 1993 Senior Service Award, Pomona College 1993 Eda May Haskell Library Prize, Pomona College 1993

Summer 1993

Best Seminar in Plant or Microbial Biology

1992

West Coast Undergraduate Research Conference in the Biological Sciences

RESEARCH EXPERIENCE

Professor 2017—present

Department of Biology, Loyola Marymount University, Los Angeles, California *Current Research Projects:*

- Determining the gene regulatory network controlling the global transcriptional response of budding yeast, *Saccharomyces cerevisiae*, to cold shock and recovery (2003–present);
- Modeling the dynamics of this gene regulatory network through the development of the GRNmap software (2006–present);
- Visualizing the results of the dynamical network model through the development of the GRNsight software (2014–present);

Research advisor for 13 undergraduates from the 2017–2018 academic year to the present.

Associate Professor 2009–2017

Department of Biology, Loyola Marymount University, Los Angeles, California

• In addition to the projects above, creation of GenMAPP-compatible Gene Databases using the XMLPipeDB software suite for the analysis of published microarray data (2006–2016). Research advisor for 42 undergraduates from 2009–2017.

Assistant Professor 2005–2009

Department of Biology, Loyola Marymount University, Los Angeles, California

• In addition to the projects noted above, identifying soil bacteria and biochemical pathways in the Ballona Wetlands for the bioremediation of organic pollutants (2006–2008)

Research advisor for 8 undergraduates and 1 Master's level student from 2005–2008.

Assistant Professor 2003–2005

Department of Biology, Vassar College, Poughkeepsie, New York

- Transcriptional and Proteomic Response of Saccharomyces cerevisiae to Cold Shock and Recovery
- Creation of MAPPs, Gene Databases, and Documentation for GenMAPP software *Research advisor for a total of 6 undergraduate students from 2003–2005.*

Postdoctoral Fellow 2000–2003

Gladstone Institute of Cardiovascular Disease, University of California, San Francisco

Advisor: Bruce R. Conklin, M.D.; *Topic:* Pathway-based analysis of microarray data; project management, design, testing, and documentation of the GenMAPP software

Visiting Researcher 1997–2000

Department of Structural Biology, Stanford University, Stanford, California *Dissertation Advisor:* Joseph D. Puglisi, Ph.D.

Research Assistant 1994–1997

Department of Biology, University of California, Santa Cruz *Dissertation Advisor:* Joseph D. Puglisi, Ph.D.

Rotation Student 1993–1994

Department of Biology, University of California, Santa Cruz

Advisor: Jack K. Okamuro, Ph.D.

Topic: Identification of additional members of the Apetala2 family in Arabidopsis thaliana

Advisor: Jerry F. Feldman, Ph.D.

Topic: Mapping of the Period2 locus in Neurospora crassa

Undergraduate Researcher
Howard Hughes Summer Institute, University of California, Santa Cruz

Advisor: Jane Silverthorne, Ph.D.

Topic: Characterization of phytochrome genes in Ginkgo biloba

Undergraduate Researcher

1991-1992

Department of Biology, Pomona College, Claremont, California

Advisor: David W. Becker, Ph.D.

Topic: Effect of heat stress on photosynthesis in a high-temperature strain of the green alga, *Chlorella pyrenoidosa*

TEACHING EXPERIENCE

College Level

Department of Biology, Lovola Marymount University

2005-present

Biology 201: Cell Function (2005–2011, 2013–2015, 2017)

- Sophomore-level requirement in four-semester lower division curriculum for biology, biochemistry, and health and human sciences majors
- Course coordinator 2009–2011, 2013–2015, 2017

Biology 275: Human Genetics (2006)

• Fulfills University core requirement for non-science majors

Biology 367/Computer Science 367: Biological Databases (2008-2010, 2013, 2015, 2017)

- Cross-listed and team taught with John David N. Dionisio, Ph.D., Department of Electrical Engineering and Computer Science
- Interdisciplinary student teams create GenMAPP Gene Databases for unicellular pathogens by modifying XMLPipeDB open source software for the analysis of published microarray data
- Course website: https://xmlpipedb.cs.lmu.edu/biodb/fall2015/index.php/Main_Page *Biology 368: Bioinformatics Laboratory* (2008, 2010–2011, 2014, 2016)
 - Projects include sequence and structural analysis of the gp120 protein of HIV and analysis of DNA microarray experiments
 - Course website: http://www.openwetware.org/wiki/BIOL368/F14

Biology 388/Mathematics 388: Biomathematical Modeling (2011, 2013, 2015, 2017)

- Cross-listed and team taught with Ben G. Fitzpatrick, Ph.D., Department of Mathematics
- Students create mathematical models of nitrogen metabolism and use the GRNmap and GRNsight software for modeling gene regulatory networks in budding yeast
- Course website: http://www.openwetware.org/wiki/BIOL398-04/S15

Biology 439: Molecular Biology Applications (2006–2007)

- Intensive laboratory course in molecular biology
- Students performed semi-independent cloning project based on my dissertation research

Biology 478: Molecular Biology of the Genome (2007–2010, 2013–2018)

- Subject of 2007 LMU Academic Technology Grant
- Intensive laboratory course in molecular biology; student-performed DNA microarray experiments contribute to dataset deposited in NCBI Gene Expression Omnibus database

Biology 498/Computer Science 698: Special Studies in Bioinformatics (2006)

- Master's-level course cross-listed with Computer Science, team taught with John David N. Dionisio, Ph.D., Department of Electrical Engineering and Computer Science
- Project-based course initiated development of the XMLPipeDB software suite using open source tools and the SourceForge development environment

Biology 585: Issues in Biotechnology (2007, 2014, 2016, 2018)

- Seminar and capstone experience for biology majors
- Read, present, and discuss articles from the primary biotechnology literature, followed by discussion of the ethical, legal, and social implications

Honors 240: On the Nature of Things (2009)

- University core requirement for students in the Honors Program
- An examination of the history, philosophy, and nature of scientific discovery, theory, and practice, focusing on recent advances in biotechnology and genomics, epistemology, and genetic determinism

Delivered Guest Lecture in the following courses

- BIOE630: Genetic Medicine (October 2009)
- BIOL 114: Biology for Engineers (March 2009)
- PHIL 666: Philosophy of Science (October 2008)
- CMSI 686: Database Systems (April 2007)
- MATH 298: Biomathematics (April 2007)
- CMSI 598/698: Open Source Software Development Workshop (Summer 2006)
- MGMT 498: Technology Ventures (March 2006)
- CMSI 486: Introduction to Database Systems (October 2005)

Department of Biology, Vassar College (Assistant Professor)

2003-2005

Introduction to Biological Thought: The Human Genome

- Students used MAPPFinder to analysis a publicly available cancer microarray dataset
- Students learned scientific writing step-by-step, culminating in a final draft of a review of a primary research article about a gene involved in cancer

Principles of Genetics

- Students used GenMAPP to draw a biochemical pathway and analyze microarray data related to their "wet" lab work
- Emphasized the "practical" aspects of successful scientific research through special exercise in teamwork
- Genetics and Society presentations, papers, and discussions taught students about the ethical implications of genetics research

Bioinformatics

- Project-based computer laboratory using GenMAPP, MAPPFinder, and other bioinformatics software
- Students designed web sites to showcase their work
- Emphasized presentation skills and reading primary scientific literature

Department of Biology, Santa Clara University (Adjunct Lecturer)

Spring 2000

Molecular Biology

- Taught lecture and lab to 20 upper-division, biology majors; was solely responsible for course content
- Developed lab exercise based on thesis research where students cloned different mutations in 16S rRNA into an *E. coli* expression vector and analyzed the phenotype of the mutant cells
- Developed bioinformatics lab exercise based on tools publicly available on the web

Department of Biology, Stanford University (Course Assistant)

Winter 1998

Cell Biology

• Led discussion of research articles

Department of Biology, U.C. Santa Cruz (Teaching Assistant)

Fall 1994

Concepts in Biology

• Lectured when professor was out of town

Howard Hughes Summer Institute, U.C. Santa Cruz (Teaching Assistant)

Summer 1994

Molecular and Cell Biology Laboratory

• Supervised semi-independent research projects on the cloning of *frequency* homologues in different species of fungi

K-12

Herbert Hoover Middle School and U.C. San Francisco (Scientist Volunteer)

2001-2002

Science and Health Education Partnership Triad Science Club

• Developed and led hands-on activities, including gel electrophoresis

Mission Hill Junior High School, U.C. Santa Cruz (Elective Teacher)

Fall 1994

Project SAME: Science and Math Equity

• Taught a girl-only elective class on building simple machines with the Lego-Logo system

PUBLICATIONS

<u>Peer-reviewed Research</u> (*indicates undergraduate co-author)

- **Dahlquist, K.D.**, Dionisio, J.D.N., Fitzpatrick, B.G., Anguiano, N.A.*, Varshneya, A.*, Southwick, B.J.*, Samdarshi, M.* (2016) GRNsight: a web application and service for visualizing models of small- to medium-scale gene regulatory networks. *PeerJ Computer Science* **2**:e85. DOI: 10.7717/peerj-cs.85.
- **Dahlquist, K.D.**, Fitzpatrick, B.G., Camacho, E.T., Entzminger, S.D.*, and Wanner, N.C.* (2015) Parameter Estimation for Gene Regulatory Networks from Microarray Data: Cold Shock Response in *Saccharomyces cerevisiae*. *Bulletin of Mathematical Biology*, **77**: 1457-1492, published online September 29, 2015. DOI: 10.1007/s11538-015-0092-6.
- Demir, E., Cary, M.P., Paley, S., Fukuda, K., Lemer, C., Vastrik, I., Wu, G., D'Eustachio, P., Schaefer, C., Luciano, J., Schacherer, F., Martinez-Flores, I., Hu, Z., Jimenez-Jacinto, V., Joshi-Tope, G., Kandasamy, K., Lopez-Fuentes, A.C., Mi, H., Pichler, E., Rodchenkov, I., Splendiani, A., Tkachev, S., Zucker, J., Gopinath, G., Rajasimha, H., Ramakrishnan, R., Shah, I., Syed, M., Anwar, N., Babur, O., Blinov, M., Brauner, E., Corwin, D., Donaldson, S., Gibbons, F., Goldberg, R., Hornbeck, P., Luna, A., Murray-Rust, P., Neumann, E., Reubenacker, O., Samwald, M., van Iersel, M., Wimalaratne, S., Allen, K., Braun, B., Whirl-Carrillo, M., Cheung, K.H., Dahlquist, K., Finney, A., Gillespie, M., Glass, E., Gong, L., Haw, R., Honig, M., Hubaut, O., Kane, D., Krupa, S., Kutmon, M., Leonard, J., Marks, D., Merberg, D., Petri, V., Pico, A., Ravenscroft, D., Ren, L., Shah, N., Sunshine, M., Tang, R., Whaley, R., Letovksy, S., Buetow, K.H., Rzhetsky, A., Schachter, V., Sobral, B.S., Dogrusoz, U., McWeeney, S., Aladjem, M., Birney, E., Collado-Vides, J., Goto, S., Hucka, M., Le Novère, N., Maltsev, N., Pandey, A., Thomas, P., Wingender, E., Karp, P.D., Sander, C., and Bader, G.D. (2010) The BioPAX Community Standard for Pathway Data Sharing. Nature Biotechnology 28: 935-942.
- Ogando, D.G., **Dahlquist, K.D.**, Alizadeh, M., Kunchithapautham, K., Li, J., Yu, N., LaVail, M.M., Rohrer, B., Vollrath, D., and Danciger, M. (2010) Candidate Genes for Chromosomes 6 and 10 Quantitative Trait Loci for Age-related Retinal Degeneration in Mice. *Molecular Vision* **16**: 1004-1018.
- Dionisio, J.D.N. and **Dahlquist, K.D.** (2008) Improving the Computer Science in Bioinformatics Through Open Source Pedagogy *ACM SIGCSE Bulletin* **40**: 115-119.
- Salomonis, N., Hanspers, K., Zambon, A.C., Vranizan, K., Lawlor, S.C., **Dahlquist, K.D.**, Doniger, S.W., Stuart, J., Conklin, B.R., & Pico, A.R. (2007) GenMAPP 2: New Features and Resources for Pathway Analysis. *BMC Bioinformatics* **8**: 217.
- Segal, M.R., **Dahlquist, K.D.**, & Conklin, B.R. (2003) Regression Approaches for Microarray Data Analysis. *Journal of Computational Biology* **10**: 961-980.
- Doniger, S.W., Salomonis, N., **Dahlquist, K.D.**, Vranizan, K., Lawlor, S.C., & Conklin, B.R. (2003) MAPPFinder: Using Gene Ontology and GenMAPP to Create a Global Gene-Expression Profile from Microarray Data. *Genome Biology* **4**: R7.
- **Dahlquist, K.D.**, Salomonis, N., Vranizan, K., Lawlor, S.C., & Conklin, B.R. (2002) GenMAPP, A New Tool for Viewing and Analyzing Microarray Data on Biological Pathways. *Nature Genetics* **31**: 19-20.

- **Dahlquist, K.D.** & Puglisi, J.D. (2000) Interaction of Translation Initiation Factor IF1 with the *E. coli* Ribosomal A site. *Journal of Molecular Biology* **299**: 1-15.
- Recht, M.I., Douthewaite, S., **Dahlquist, K.D.**, & Puglisi, J.D. (1999) Effect of Mutations in the A site of 16S rRNA on Aminoglycoside Antibiotic-Ribosome Interaction. *Journal of Molecular Biology* **286**: 33-43.
- Recht, M.I., Fourmy, D., Blanchard, S.C., **Dahlquist, K.D.**, & Puglisi, J.D. (1996) RNA Sequence Determinants for Aminoglycoside Binding to an A-site rRNA Model Oligonucleotide. *Journal of Molecular Biology* **262**: 421-436.

Reviews, Book Chapters, Conference Proceedings

- **Dahlquist, K.D.**, editor (2010) Proceedings of the 11th Annual Bioinformatics Open Source Conference (BOSC) 2010. *BMC Bioinformatics* **11**(Suppl 12): S1-S13.
- **Dahlquist, K.D.** (2004) Using GenMAPP and MAPPFinder to View Microarray Data on Biological Pathways and Identify Global Trends in the Data. In *Current Protocols in Bioinformatics* (Baxevanis, A.D., Davison, D.B., Page, R., Stein, L., Stormo, G., eds.), John Wiley & Sons, Inc., New York, N.Y., pp. 7.5.1-7.5.26.
- Puglisi, J.D., Blanchard, S.C., Dahlquist, K.D., Eason, R.G., Fourmy, D., Lynch, S.R., Recht, M.I., & Yoshizawa, S. (1999) Aminoglycoside Antibiotics and Decoding. In *The Ribosome: Structure, Function, Antibiotics, and Cellular Interactions* (Garrett, R.A., Douthewaite, S.R., Liljas, A., Matheson, A.T., Moore, P.B., & Noller, H.F., eds.), pp. 419-429. ASM Press, Washington, D.C.
- **Dahlquist, K.** & Puglisi, J.D. (1995) Investigating the Structure and Function of Translation Initiation Factor 1. *Nucleic Acids Symposium Series* **33**: 170-171.

Preprints and Under Review

- Bargagliotti, A.E., **Dahlquist, K.D.**, Dionisio, J.D.N., Libeskand-Hadas, R. (2017) STEMBB2018: Breaking Boundaries in Computing in Undergraduate Courses, submitted to the *Journal of Research in STEM Education* on November 12, 2017, under revision.
- Dahlquist, K.D., Aikens, M.L., Dauer, J.T., Donovan, S.S., Eaton, C.D., Highlander, H.C., Jenkins, K.P., Jungck, J.R., LaMar, M.D., Ledder, G., Mayes, R.L., Schugart, R.C. (2017) An Invitation to Modeling: Building a Community with Shared Explicit Practices, submitted to *CBE—Life Sciences* Education on 25 August, 2017, under revision. Available at *PeerJ Preprints* 5:e3215v1 https://doi.org/10.7287/peerj.preprints.3215v1.
- Eaton, C.D., Callendar, H.L., **Dahlquist, K.D.**, LaMar, M.D., Ledder, G., Schugart, R.C. (2017) A "Rule of Five" Framework for Models and Modeling to Unify Mathematicians and Biologists and Improve Student Learning, revised version submitted on 28 April 2017 to the journal *PRIMUS: Problems, Resources, and Issues in Mathematics Undergraduate Studies* for a special issue on interdisciplinary conversations, under review. Available on the arXive preprint server at https://arxiv.org/abs/1607.02165v2.

Software, Databases, and Datasets (*indicates undergraduate co-author)

NCBI Gene Expression Omnibus Series GSE83656

Dahlquist K.D., Abdulla, H.*, Arnell, A.J.*, Arsan, C.*, Baker, J.M.*, Carson, R.M.*, Citti, W.T.*, De Las Casas, S.E.*, Ellis, L.G.*, Entzminger, K.C.*, Entzminger, S.D.*, Fitzpatrick, B.G., Flores, S.P.*, Harmon, N.S.*, Hennessy, K.P.*, Herman, A.F.*, Hong, M.V.*, King, H.L.*, Kubeck, L.N.*, La-Anyane, O.M.*, Land, D.L.*, Leon Guerrero, M.J.*, Liu, E.M.*, Luu, M.D.*, McGee, K.P.*, Mejia, M.R.*, Melone, S.N.*, Pepe, N.T.*, Rodriguez, K.R.*, Rohacz, N.A.*, Rovetti, R.J., Sakhon, O.S.*, Sampana, J.T.*, Sherbina, K.*, Terada, L.H.*, Vega, A.J.*, Wavrin, A.J.*, Wyllie, K.W.*, Zapata, B.B.* (2016) Global transcriptional response of wild type and transcription factor deletion strains of *Saccharomyces cerevisiae* to the environmental stress of cold shock and subsequent

recovery. Dataset of 137 DNA microarray hybridizations performed by undergraduate students as part of independent research and the course Biology 478: Molecular Biology of the Genome from 2006 to 2016. A manuscript describing this dataset is in preparation.

GRNmap (Gene Regulatory Network Modeling and Parameter Estimation)

Co-Principal Investigator with Ben G. Fitzpatrick and in collaboration with John David N. Dionisio and undergraduate research students, 2014—present

Availability (Open Source BSD license): http://kdahlquist.github.io/GRNmap/index.html, https://github.com/kdahlquist/GRNmap/

GRNsight (Web Application and Service for Visualizing Models of Gene Regulatory Networks)

Co-Principal Investigator with John David N. Dionisio and Ben G. Fitzpatrick and in collaboration with undergraduate research students, 2014—present

 $A vailability (Open Source BSD \ license): \ http://dondi.github.io/GRN sight/index.html, https://github.com/dondi/GRN sight$

XMLPipeDB (A Reusable, Open Source Tool Chain for Building Relational Databases from XML Sources) and Gene Databases for 19 species:

Arabidopsis thaliana, 2007, 2009; Bordetella pertussis, 2015; Burkholderia cenocepacia, 2015; Chlamydia trachomatis, 2013; Escherichia coli K12, 2006, 2009; Helicobacter pylori, 2011; Leishmania infantum, 2014; Leishmania major, 2014; Mycobacterium smegmatis, 2011; Mycobacterium tuberculosis H37Rv, 2010; Plasmodium falciparum, 2009; Pseudomonas aeruginosa PAO1, 2010; Salmonella typhimurium, 2011; Shewanella oneidensis, 2015; Shigella flexneri, 2015; Sinorhizobium meliloti, 2013; Staphylococcus aureus MRSA 252, 2010, Streptococcus pneumoniae, 2013; and Vibrio cholerae, 2009, 2010, 2016. Co-Principal Investigator with John David N. Dionisio, and in collaboration with 16 undergraduate research students, 1 Master's student, and students in the Biology/Computer Science 367: Biological Databases courses, 2006–present; Availability (Open Source LGPL license): http://xmlpipedb.cs.lmu.edu, https://github.com/lmu-bioinformatics/xmlpipedb

GenMAPP (Gene Map Annotator and Pathway Profiler) 1.0 and 2.0

Project Manager, 2000–2003

Metabolic Pathway MAPP Archive for *Saccharomyces cerevisiae*, 2005; for *E. coli* K12, 2008 Availability: http://www.GenMAPP.org, https://github.com/GenMAPPCS/genmapp

PRESENTATIONS

Invited Talks

BioQUEST / HHMI / CaseNet Summer Workshop 2017, Making Meaning Through Modeling: Problem Solving in Biology

Michigan State University, East Lansing, Michigan, July 2017, (with Carrie Diaz Eaton, M. Drew LaMar, and Glenn Ledder)

An Invitation to Modeling: Exploring the process of science through the process of modeling

Breaking the Boundaries in STEM Education Research Conference

Loyola Marymount University, Los Angeles, California, April 2017

A Framework for Models and Modeling to Unify Mathematicians and Biologists and Improve Student Learning

National Center for Ecological Analysis and Synthesis

Santa Barbara, California, March 2017

GRNmap and GRNsight: Open Source Software for Dynamical Systems Modeling and Visualization of Medium-Scale Gene Regulatory Networks

BioQUEST / HHMI / CaseNet Summer Workshop 2015, Count the Ways: Engaging Students in Quantitative Biology Applications

Harvey Mudd College, Claremont, California, June 2015

Open Science, Open Data, Open Source Projects for Undergraduate Research Experiences

SCELC (Statewide California Electronic Library Consortium) Colloquium

Loyola Marymount University, February 2015

Panelist: In the Open: the Future of Open Access Publishing and Libraries

Talk: Open Access Publishing: A PUI Faculty Perspective

Chapman University

Orange, California, May 2012

Brrrr--How Do Yeast Cope When It's Cold Outside? Using DNA Microarrays and Mathematical Modeling to Understand Gene Regulatory Networks in Saccharomyces cerevisiae

Harvey Mudd College

Claremont, California, April 2012

Brrrr--How Do Yeast Cope When It's Cold Outside? Using DNA Microarrays and Mathematical Modeling to Understand Gene Regulatory Networks in Saccharomyces cerevisiae

Mount Saint Mary's College

Los Angeles, California, March 2012

Teaching and Learning Bioinformatics

Career Day in Fields of Science, Institute for Integrative Genome Biology, University of California, Riverside

Riverside, California, May 2011

Career Envy: The Road to a Successful PUI Position

Graduate Student Career Workshop, University of California, Los Angeles

Los Angeles, California, February 2011

Career Envy: The Road to a Successful PUI Position

Postdoctoral Scholars Association Career Workshop, University of California, Irvine

Irvine, California, November 2010

Career Envy: The Road to a Successful PUI Position

Beyond Bio2010 Symposium: Celebration and Opportunities, National Academy of Sciences

Washington, D.C., May 2010 (with John David N. Dionisio)

An Open Source, Open Science Pedagogy for Computational Biology

Young Women in Computing and CREST, New Mexico State University

Las Cruces, New Mexico, February 2010

It's a Good Time to Be a Computational Biologist!

Bioinformatics Workshop

Pepperdine University

Malibu, California, February 2008

Guest lecture in Molecular Biology course: MAPPFinder Analysis of Prostate Cancer Microarray Data

MCD Biology Department, University of California, Los Angeles

Los Angeles, California, May 2007

Mapping the Gene Regulatory Networks in Yeast that Control the Environmental Stress Response to Cold Temperatures

Gladstone Institute of Cardiovascular Disease

San Francisco, California, October 2006, joint seminar with John David N. Dionisio

XMLPipeDB: A Reusable, Open Source Tool Chain for Building Relational Databases from XML Sources

Bioinformatics Special Interest Group, California Institute of Technology

Pasadena, California, July 2006

Mapping Gene Regulatory Networks in Yeast using DNA Microarrays, Proteomics, and GenMAPP

Careers in Science Panel Discussion and Dinner, Claremont Colleges

Claremont, California, July 2006

Panelist

Natural Science Division, Pepperdine University

Malibu, California, October 2005

Mapping Gene Regulatory Networks in Yeast using DNA Microarrays, Proteomics, and GenMAPP

Department of Biological Sciences, Central Connecticut State University

New Britain, Connecticut, November 2004

Mapping Gene Regulatory Networks in Yeast using DNA Microarrays, Proteomics, and GenMAPP

BioQUEST Curriculum Consortium Summer Workshop 2004: Systems Biology Education

Beloit College, Beloit, Wisconsin, June 2004

GenMAPP and MAPPFinder for Systems Biology Education

Association for Laboratory Automation, smallTalk2003

San Jose, California, July 2003

GenMAPP and MAPPFinder: Tools for Viewing and Analyzing Microarray Data on Biological Pathways

W. Henry Feinstone Symposium, University of Memphis

Memphis, Tennessee, June 2003

Tutorial: GenMAPP and MAPPFinder, Tools for Viewing and Analyzing Microarray Data on using Biological Pathways and Gene Ontology

Seminar: Analysis of Microarray Data from a Mouse Model of Dilated Cardiomyopathy, New Insights from GenMAPP

Department of Plant Biology, The Carnegie Institution of Washington

Stanford, California, May 2003

GenMAPP and MAPPFinder: Tools for Viewing and Analyzing Microarray Data using Biological Pathways and Gene Ontology

Possibilities and Pitfalls of Mining DNA Microarray Data: from Mice to Men, University of Wyoming

Laramie, Wyoming, February 2003

Tutorial: GenMAPP and MAPPFinder, Tools for Viewing and Analyzing Microarray Data on Biological Pathways

Seminar: Analysis of Microarray Data from a Mouse Model of Dilated Cardiomyopathy, New Insights from GenMAPP

Advanced Topics in Microarray Analysis, National Institutes of Health

Bethesda, Maryland, January 2003

GenMAPP and MAPPFinder, Tools for Viewing and Analyzing Microarray Data on Biological Pathways

Lillehei Heart Institute, University of Minnesota

Minneapolis, Minnesota, October 2002

Tutorial: GenMAPP and MAPPFinder, Tools for Viewing and Analyzing Microarray Data on Biological Pathways

Seminar: Analysis of Microarray Data from a Mouse Model of Dilated Cardiomyopathy, New Insights from GenMAPP

NIH-NHLBI Programs for Genomic Applications, External Scientific Panel Review

Bethesda, Maryland, June 2001

GenMAPP Enriches the BayGenomics Gene Trap Resource

Iconix Pharmaceuticals

Mountain View, California, June 2001

GenMAPP: A New Tool for the Functional Mapping of Microarray Data

Department of Neurosciences, University of New Mexico Health Sciences Center

Albuquerque, New Mexico, October 2000

Defining the Genomic Responses to G Protein Signals by Engineering Receptors and G Proteins in Transgenic Mice

National Center for Genome Resources

Santa Fe, New Mexico, October 2000

Defining the Genomic Responses to G Protein Signals by Engineering Receptors and G Proteins in Transgenic Mice

University of California, Berkeley, History of Science Graduate Student Workshop

Berkeley, California, January 1997

Panelist: The Relevance of History of Science to Practicing Scientists

Contributed Talks

Bioinformatics Open Source Conference (BOSC)

Orlando, Florida, July 2016; Slides in F1000 Research DOI: 10.7490/f1000research.1112534.1 GRNmap and GRNsight: open source software for dynamical systems modeling and visualization of medium-scale gene regulatory networks

American Society for Biochemistry and Molecular Biology Annual Meeting

San Diego, California, April 2016; published abstract in *The Faseb Journal* 30(1) Supplement *GRNmap and GRNsight: open source software for dynamical systems modeling and visualization of medium-scale gene regulatory networks*

Fifth Annual Southern California Systems Biology Conference

University of California, Irvine, January 2015

GRNmap and GRNsight: Open Source Software for Dynamical Systems Modeling and Visualization of Medium-Scale Gene Regulatory Networks

American Society for Biochemistry and Molecular Biology Annual Meeting

San Diego, California, April 2012; published abstract in *The Faseb Journal* 26(1) Supplement Regulatory Dynamics of the Transcriptional Network Controlling the Cold Shock Response in Saccharomyces cerevisiae

Bioinformatics Open Source Conference (BOSC)

Stockholm, Sweden, June 2009

XMLPipeDB: A Reusable, Open Source Tool Chain for Building Relational Databases from XML Sources

Yeast Genetics and Molecular Biology Meeting

Toronto, Ontario, Canada, July 2008

Mathematical Modeling of the Transcriptional Regulatory Network Controlling the Cold Shock Response in Saccharomyces cerevisiae

8th BioPathways Meeting

Vienna, Austria, July 2007

Mathematical Modeling of the Transcriptional Network Controlling the Environmental Stress Response in Saccharomyces cerevisiae

Bioinformatics Open Source Conference (BOSC)

Vienna, Austria, July 2007

XMLPipeDB: A Reusable, Open Source Tool Chain for Building Relational Databases from XML Sources

An Open Source Framework for Teaching Bioinformatics

ELSI Reunion and Conference, Dartmouth University

Hanover, New Hampshire, August 2006

Discussion of Ethical, Legal, and Social Implications of Biological Research Incorporated into Courses in Genetics, Molecular Biology Applications, and a Seminar on Issues in Biotechnology

Bioinformatics Open Source Conference (BOSC)

Fortaleza, Brazil, August 2006

XMLPipeDB: A Reusable, Open Source Tool Chain for Building Relational Databases from XML Sources

The Fifth BioPathways Consortium Meeting, Intelligent Systems for Molecular Biology

Brisbane, Queensland, Australia, June 2003

GenMAPP and MAPPFinder 2.0: Tools for the Organization, Display, and Exchange of Pathway Information

The Fourth BioPathways Consortium Meeting, Intelligent Systems for Molecular Biology

Edmonton, Alberta, Canada, August 2002

GenMAPP and Gene Ontology: Tools for the Organization, Display and Exchange of Pathway Information

Physiological Genomics of Cardiovascular Disease: from Technology to Physiology

San Francisco, California, February 2002

GenMAPP: A New Tool for Viewing and Analyzing Microarray Data on Biological Pathways

Bay Area Bioinformatics Discussion Group

Stanford, California, January 2002

GenMAPP: A New Tool for Viewing and Analyzing Microarray Data on Biological Pathways

Bay Area RNA Club

San Francisco, California, June 1996

Rites of Initiation: Decoding the role of IF1

Internal Talks

Department of Biology Seminar, Loyola Marymount University

Los Angeles, California, September 2016

GRNmap and GRNsight: Using the power of genomics, mathematics, and open source visualization software to understand gene regulatory networks in yeast

Department of Biology Seminar, Loyola Marymount University

Los Angeles, California, March 2013, with Dr. John David N. Dionisio

XMLPipeDB: Teaming up to Analyze Data from Pathogenic Microorganisms

Department of Biology Seminar, Loyola Marymount University

Los Angeles, California, October 2012

Brrrr--How Do Yeast Cope When It's Cold Outside? Using DNA Microarrays and Mathematical Modeling to Understand Gene Regulatory Networks in Saccharomyces cerevisiae

Friday Faculty Colloquium Series, Loyola Marymount University

Los Angeles, California, February 2010

The Genome is the New Soul

Biology/Bioethics Movie Night, Loyola Marymount University

Los Angeles, California, October 2009

The Biology of Cancer, followed by a screening of the film Wit

Junior Faculty Seminar, Loyola Marymount University

Los Angeles, California, February 2009

The Genome is the New Soul

Center for Teaching Excellence, Loyola Marymount University

Los Angeles, California, October 2008 (with John David N. Dionisio)

Create. Share. Learn. Using Google Sites and MediaWiki

President's Day Forum, Loyola Marymount University

Los Angeles, California, March 2008

The \$1000 Genome

Department of Biology, Loyola Marymount University, Kadner-Pitts Research Grant Talk

Los Angeles, California, March 2008

Brrrr—How Do Yeast Cope When It's Cold Outside? Using DNA Microarrays and Mathematical Modeling to Understand Gene Regulatory Networks in Yeast

Center for Teaching Excellence, Loyola Marymount University

Los Angeles, California, March 2008

How Do You Teach "Research"? Incorporating DNA Microarray Technology into an Upperdivision Biology Laboratory Course

Parent's Weekend, Loyola Marymount University

Los Angeles, California, February 2008

How Close are We to GATTACA?

Center for Teaching Excellence, Loyola Marymount University

Los Angeles, California, November 2007

Panelist, Explorations of Faith and the Intellectual Life

President's Day Forum, Loyola Marymount University

Los Angeles, California, March 2007

How Close are We to GATTACA?

Science Seminar and Film Series, Loyola Marymount University

Los Angeles, California, organized by LMU undergraduate Morgan Henry '07, November 2006 Our Post-genomic Future, accompanied by screening of GATTACA

Junior Faculty Seminar Series, Loyola Marymount University

Los Angeles, California, joint seminar with John David N. Dionisio, November 2006,

Collaborating Early and Often: Bringing Biology and Computer Science Together Through an Open Source Culture

President's Day Forum, Loyola Marymount University

Los Angeles, California, March 2006

The Human Genome and Beyond

Women's Studies Brown Bag Lunch, Loyola Marymount University

Los Angeles, California, November 2006

Jesuit and Feminist Education: Transformative Discourses for Teaching & Learning Conference Report

Department of Mathematics, Loyola Marymount University

Los Angeles, California, October 2005

What is Bioinformatics?

Women's Studies Program First Friday, Vassar College

Poughkeepsie, New York, October 2004

The Ethical, Legal, and Social Implications of the Human Genome Project: Feminist Reflections (with Mary Shanley, Department of Political Science, Vassar College)

Vassar College Orientation Week Faculty Research Talks

Poughkeepsie, New York, September 2004

Matthew Vassar Enters the Genomics Era: DNA Microarrays, Proteomics, and Bioinformatics in Yeast

Gladstone Institute of Cardiovascular Disease Scientists Meeting

San Francisco, California, May 2003

GenMAPP 2.0 and Beyond...Connecting Scientists and Science Education in the Genomics Era

Gladstone Institute of Cardiovascular Disease Scientists Meeting

San Francisco, California, May 2002

Analysis of Microarray Data from a Mouse Model of Dilated Cardiomyopathy: New Insights from GenMAPP

U.C. San Francisco, Pharmaceutical Sciences and Pharmacogenomics Program Retreat

Marshall, California, November 2001

GenMAPP: A New Tool for Viewing and Analyzing Microarray Data on Biological Pathways

The J. David Gladstone Institutes Joint Scientific Retreat

Pacific Grove, California, May 2001

GenMAPP: A New Tool for the Functional Mapping of Microarray Data

Gladstone Institute of Neurological Disease Weekly Seminar

San Francisco, California, November 2000

GenMAPP: A New Tool for the Functional Mapping of Microarray Data

Stanford University, Structural Biology Department Retreat

Pacific Grove, California, November 1998

Interactions between Initiation Factor 1 and the E. coli ribosome

Stanford University, Molecular Biophysics Club

Stanford, California, February 1998

Interactions of Translation Initiation Factor 1 with the Ribosomal A site

U.C. Santa Cruz, MCD Biology Seminar

Santa Cruz, California, May 1996

Investigating the Structure and Function of Translation Initiation Factor 1 in E. coli

U.C. Santa Cruz, RNA Club

Santa Cruz, California, December 1994

Investigating the Structure and Function of Translation Initiation Factor 1 in E. coli

External Posters (*indicates undergraduate co-author, **indicates Master's student co-author)

Bioinformatics Open Source Conference (BOSC) and Intelligent Systems for Molecular Biology (ISMB), poster in *F1000 Research* DOI: 10.7490/f1000research.1112518.1

Orlando, Florida, July 8-12, 2016 (with (with Ben G. Fitzpatrick, John David N. Dionisio, Nicole A. Anguiano*, Juan S. Carrillo*, Tessa A. Morris*, Anindita Varshneya*, Natalie E. Williams*, K.

Grace Johnson*, Trixie Anne M. Roque*, Kristen M. Horstmann*, Mihir Samdarshi*, Chukwuemeka E. Azinge*, Brandon J. Klein*, Margaret J. O'Neil*)

GRNmap and GRNsight: open source software for dynamical systems modeling and visualization of medium-scale gene regulatory networks

American Society for Biochemistry and Molecular Biology Annual Meeting

San Diego, California, April 2-5, 2016 (with Ben G. Fitzpatrick, John David N. Dionisio, Nicole A.

Anguiano*, Juan S. Carrillo*, Kristen M. Horstmann*, Kayla C. Jackson*, K. Grace Johnson*, Tessa A. Morris*, Trixie Anne M. Roque*, Mihir Samdarshi*, and Anindita Varshneya*, Natalie E.

Williams*), published abstract in *The Faseb Journal* 30(1) Supplement

GRNmap and GRNsight: open source software for dynamical systems modeling and visualization of medium-scale gene regulatory networks

Yeast Genetics and Molecular Biology Meeting

University of Washington, Seattle, Washington, July 29-August 3, 2014 (with Ben G. Fitzpatrick,

Cybele Arsan*, Wesley T. Citti*, Kevin C. Entzminger*, Andrew F. Herman*, Lauren N. Kubeck*,

Stephanie D. Kuelbs*, Heather King*, Elizabeth M. Liu*, Matthew Mejia*, Kenny R. Rodriguez*, Nicholas A. Rohacz*, Olivia S. Sakhon*, Katrina Sherbina*, Alondra J. Vega*)

Cin5, Gln3, Hmo1, and Zap1 Contribute to the Gene Regulatory Network Controlling the Cold Shock Response in Saccharomyces cerevisiae

American Society for Biochemistry and Molecular Biology Annual Meeting

San Diego, California, April 26-30, 2014 (with Nicolette Harmon*, Chidinma Amakiri*, Katrina Sherbina*, Nicholas A. Rohacz*, and Ben G. Fitzpatrick), published abstract in *The Faseb Journal* 28(1) Supplement

Comparative genomics of the response to cold shock in Saccharomyces paradoxus and Saccharomyces cerevisiae

American Society for Biochemistry and Molecular Biology Annual Meeting

San Diego, California, April 20-24, 2012 (with Ben G. Fitzpatrick, Nicholas A. Rohacz*, Katrina Sherbina*), published abstract in *The Faseb Journal* 26(1) Supplement

Regulatory Dynamics of the Transcriptional Network Controlling the Cold Shock Response in Saccharomyces cerevisiae

I received the ASBMB Thematic Best Poster Award in Systems Biology for this poster.

Systems Biology: Global Regulation of Gene Expression

Cold Spring Harbor Laboratory, Cold Spring Harbor, New York, March 20-24, 2012 (with Ben G. Fitzpatrick, Nicholas A. Rohacz*, Katrina Sherbina*)

Regulatory Dynamics of the Transcriptional Network Controlling the Cold Shock Response in Saccharomyces cerevisiae

Southern California Systems Biology Conference

University of California, Irvine, January 29-30, 2011 (with Alondra J. Vega*, Ben G. Fitzpatrick)

Mathematical Modeling of the Gene Regulatory Network Controlling the Cold Shock Response in Saccharomyces cerevisiae

Yeast Genetics and Molecular Biology Meeting

Vancouver, British Columbia, Canada, July-August 2010 (with Alondra J. Vega*, Ben G. Fitzpatrick)

Mathematical Modeling of the Gene Regulatory Network Controlling the Cold Shock Response in

Saccharomyces cerevisiae

Intelligent Systems for Molecular Biology

Boston, Massachusetts, July 2010 (with, Alondra J. Vega*, Stephanie D. Kuelbs, Ben G. Fitzpatrick)

Mathematical Modeling of the Gene Regulatory Network Controlling the Cold Shock Response in

Saccharomyces cerevisiae

American Society for Cell Biology Annual Meeting

San Diego, California, December 2009 (with John David N. Dionisio)

Fostering Interdisciplinary Teamwork in an Undergraduate Biological Databases Course

Intelligent Systems for Molecular Biology

Stockholm, Sweden, June 2009 (with, Alexandrea Alphonso*, Derek Smith*, Chad Villaflores*, John David N. Dionisio)

XMLPipeDB: A Reusable, Open Source Tool Chain for Building Relational Databases from XML Sources

First RECOMB Satellite Conference on Bioinformatics Education

San Diego, California, March 2009 (with John David N. Dionisio)

Fostering Interdisciplinary Teamwork in an Undergraduate Biological Databases Course

Yeast Genetics and Molecular Biology Meeting

Toronto, Ontario, Canada, July 2008 (with Stephanie D. Kuelbs*, Kevin C. Entzminger*, Kenny R. Rodriguez*, Ben G. Fitzpatrick)

Mathematical Modeling of the Transcriptional Regulatory Network Controlling the Cold Shock Response in Saccharomyces cerevisiae

Intelligent Systems for Molecular Biology

Toronto, Ontario, Canada, July 2008 (with Stephanie D. Kuelbs*, Kevin C. Entzminger*, Kenny R. Rodriguez*, Ben G. Fitzpatrick)

Mathematical Modeling of the Transcriptional Regulatory Network Controlling the Cold Shock Response in Saccharomyces cerevisiae

International Conference on Systems Biology

Long Beach, California, October 2007 (with Stephanie Kuelbs*, Nathan C. Wanner*, Ben G. Fitzpatrick, and Erika Camacho)

Mathematical Modeling of the Transcriptional Network Controlling the Environmental Stress Response in Saccharomyces cerevisiae

Intelligent Systems for Molecular Biology

Vienna, Austria, July 2007 (with Nathan C. Wanner* and Erika Camacho)

Mathematical Modeling of the Transcriptional Network Controlling the Environmental Stress Response in Saccharomyces cerevisiae

San Diego Systems Biology Symposium: Systems to Synthesis

Salk Institute, La Jolla, California, January 2007 (with Jeffrey Nicholas** and John David N. Dionisio)

XMLPipeDB: A Reusable, Open Source Tool Chain for Building Relational Databases from XML Sources

American Society for Cell Biology Annual Meeting

San Diego, California, December 2006 (with Wesley T. Citti*, Matthew Mejia*, Eric S. Eberhardt)

The Transcriptional and Proteomic Response to Cold Shock and Recovery in Saccharomyces

cerevisiae

Intelligent Systems for Molecular Biology

Fortaleza, Brazil, August 2006 (with, Joey Barrett**, Joe Boyle**, Adam Carasso**, David Hoffman**, Babak Naffas**, Jeffrey Nicholas**, Roberto Ruiz**, Scott Spicer**, John David N. Dionisio)

XMLPipeDB: A Reusable, Open Source Tool Chain for Building Relational Databases from XML Sources

Intelligent Systems for Molecular Biology

Glasgow, Scotland, United Kingdom, August 2004

GenMAPP and MAPPFinder 2.0: Tools for Viewing and Analyzing Genomic Data Using Gene Ontology and Biological Pathways

Intelligent Systems for Molecular Biology

Brisbane, Queensland, Australia, June 2003

GenMAPP and MAPPFinder 2.0: Tools for Viewing and Analyzing Genomic and Proteomic Data Using Gene Ontology and Biological Pathways

Intelligent Systems for Molecular Biology

Edmonton, Alberta, Canada, August 2002

GenMAPP: A Tool for Viewing and Analyzing Microarray Data on Biological Pathways

Physiological Genomics of Cardiovascular Disease: from Technology to Physiology

San Francisco, California, February 2002

GenMAPP: A New Tool for Viewing and Analyzing Microarray Data on Biological Pathways

The Third International Meeting on Microarray Data Standards, Annotations, Ontologies and Databases

Stanford, California, March 2001

GenMAPP: A New Approach for the Functional Mapping of Microarray Data

The Ribosome: Structure, Function, Antibiotics, and Cellular Interactions

Helsingør, Denmark, June 1999

Interactions of Translation Initiation Factor 1 with the Ribosomal A site

RNA Society Meeting

Madison, Wisconsin, May 1998

Interactions of Translation Initiation Factor 1 with the Ribosomal A site

RNA Structure Meeting

Santa Cruz, California, June 1997

Interactions of Translation Initiation Factor 1 (IF1) with the Ribosomal A site

RNA Society Meeting

Banff, Alberta, Canada, May 1997

Interactions of Translation Initiation Factor 1 with the Ribosomal A site

Keystone Symposium: RNA-Protein Interactions

Taos, New Mexico, February 1997

Interactions of Translation Initiation Factor 1 (IF1) with the Ribosomal A site

RNA Society Meeting

Madison, Wisconsin, May 1996

Translation Initiation Factor 1 (IF1) is an A-site Ribosomal RNA Binding Protein

Symposium on RNA Biology I: RNA-Protein Interactions

Research Triangle Park, North Carolina, October 1995

Investigating the Structure and Function of Translation Initiation Factor 1 in Escherichia coli

Frontiers in Translation

Victoria, British Columbia, Canada, May 1995

Investigating the Structure and Function of Translation Initiation Factor 1 in E. coli

Sigma Xi Forum: Scientists, Educators, and National Standards: Action at the Local Level

Atlanta, Georgia, April 1994

Science Mentor Program at Mission Hill Junior High School

Internal Posters

Center for Teaching Excellence Scholarship of Teaching and Learning Showcase Week

Loyola Marymount University, Los Angeles, California, September 2009

Fostering Interdisciplinary Teamwork in an Undergraduate Biological Databases Course

Center for Teaching Excellence Scholarship of Teaching and Learning Showcase Week

Loyola Marymount University, Los Angeles, California, September 2008

How Do You Teach "Research"? Incorporating DNA Microarray Technology into an Upperdivision Biology Laboratory Course

Teaching with Technology Forum

Vassar College, Poughkeepsie, New York, April 2004

GenMAPP: Connecting Students to Cutting-edge Genomics and Bioinformatics Research

The J. David Gladstone Institutes Joint Scientific Retreat

Pacific Grove, California, May 2003

GenMAPP and MAPPFinder 2.0

U.C. San Francisco, Pharmaceutical Sciences and Pharmacogenomics Program Retreat

Marshall, California, November 2002

GenMAPP: A Tool for Viewing and Analyzing Microarray Data on Biological Pathways

The J. David Gladstone Institutes Joint Scientific Retreat

Pacific Grove, California, May 2002

Analysis of Microarray Data from Mouse Models of Dilated and Hypertrophic Cardiomyopathy: New Insights from GenMAPP

U.C. San Francisco, Cardiovascular Research Institute Retreat

Tahoe City, California, November 2001

GenMAPP: A New Tool for Viewing and Analyzing Microarray Data on Biological Pathways

U.C. San Francisco, Biomedical Sciences Program Retreat

Tahoe City, California, November 2000

GenMAPP: A New Approach for the Functional Mapping of Microarray Data

U.C. San Francisco, Tetrad Retreat

Tahoe City, California, September 2000

GenMAPP: A New Approach for the Functional Mapping of Microarray Data

Student Presentations and Posters (*indicates undergraduate student, **bold** indicates presenting author)

Southern California Conference for Undergraduate Research

California State Polytechnic University, Pomona, November 2017

Chukwuemeka E Azinge*, **Justin Kyle T. Torres***, John David N. Dionisio, Ben G. Fitzpatrick, Kam D Dahlquist, *Restructuring the Data Architecture of GRNmap, a Gene Regulatory Network Modeling Application* (poster)

Eileen J. Choe*, Yeon-Soo Shin*, Edward B. Bachoura*, John David N. Dionisio, Kam D Dahlquist, *GRNsight v2: a Web Application for Visualizing Models of Gene Regulatory Networks*, (talk)

Yeon-Soo Shin*, Eileen J. Choe*, Edward B. Bachoura*, Ben G. Fitzpatrick, John David N. Dionisio, Kam D Dahlquist, *Improved Visual Performance and Enhanced Test Files for Different File Formats for GRNsight: a Web Application for Visualizing Models of Gene Regulatory Networks*, (poster)

WE17: Society for Women Engineers (SWE) Collegiate Competition

Austin, Texas, October 2017

Eileen J. Choe*, Nicole A. Anguiano*, Anindita Varshneya*, Mihir Samdarshi*, Yeon-Soo Shin*, Edward B. Bachoura*, John David N. Dionisio, and Kam D. Dahlquist, *GRNsight v2: a web application for visualizing models of small gene regulatory networks* (talk)

Ninth Annual Undergraduate Research Symposium

Loyola Marymount University, March 2017

Nicole A. Anguiano*, **Anindita Varshneya***, John David N. Dionisio, Kam D. Dahlquist, Design and Layout Improvement to GRNsight v2.0: a Web Application and Service for Visualizing Small- to Medium-Scale Gene Regulatory Networks (talk)

Monica V. Hong*, Kam D. Dahlquist, *The transcription factors Hap4 and Swi4 contribute to the regulation of the transcriptional response to cold shock in Saccharomyces cerevisiae* (talk)

Kristen M. Horstmann*, Ben G. Fitzpatrick, and Kam D. Dahlquist, *Systems modeling and statistical analysis allows comparison in the response to cold shock* (talk)

in Saccharomyces cerevisiae between Hap4 and randomly generated networks

Brandon J. Klein*, Natalie E. Williams*, Ben G. Fitzpatrick, and Kam D. Dahlquist, *Dynamical systems modeling of six related small gene regulatory networks suggest that the transcription factors Cin5*, Gln3, Hmo1, and Yhp1 play a role in controlling the cold shock response in Saccharomyces cerevisiae (poster)

Margaret J. O'Neil*, Ben G. Fitzpatrick, Kam D. Dahlquist, Using Graph Statistics to Investigate the Properties of Six Candidate Gene Regulatory Networks for Controlling the Cold Shock Response in Saccharomyces cerevisiae (poster)

Trixie Anne M. Roque*, **Chukwuemeka E. Azinge***, **Justin Kyle T. Torres***, John David N. Dionisio, Ben G. Fitzpatrick, Kam D. Dahlquist, *Restructuring the Data Architecture of GRNmap, a Gene Regulatory Network Modeling Application* (poster)

Mihir Samdarshi*, Yeon-Soo Shin*, Edward B. Bachoura*, Eileen J. Choe*, Nicole A. Anguiano*, Anindita Varshneya*, John David N. Dionisio, Kam D. Dahlquist, *Improved data interoperability for GRNsight: a web application for visualizing models of gene regulatory networks* (poster)

Nika Vafadari*, Katherine D. Scheker*, Kam D. Dahlquist, *Targeted reverse genetic screen in Saccharomyces cerevisiae identifies transcription factor deletion strains that are impaired for growth at cold temperatures* (poster)

Natalie E. Williams*, Ben G. Fitzpatrick, Kam D. Dahlquist, Comparison of the regulatory dynamics of related small gene regulatory networks that control the cold shock response in Saccharomyces cerevisiae (talk)

7th Annual Southern California Systems Biology Conference

University of California, Irvine, January 2017

Monica V. Hong*, Kevin W. Wyllie*, Kevin P. McGee*, Kam D. Dahlquist, *The transcription factors Hap4 and Swi4 contribute to the regulation of the transcriptional response to cold shock in Saccharomyces cerevisiae* (poster)

Kristen M. Horstmann*, **Margaret J. O'Neil***, Ben G. Fitzpatrick, Kam D. Dahlquist, *Dynamical systems modeling and gene regulatory network structure analysis reveals Hap4's role in regulating the response to cold shock in Saccharomyces cerevisiae* (poster)

Anindita Varshneya*, Mihir Samdarshi*, Nicole A. Anguiano*, Yeon-Soo Shin*, John David N. Dionisio, and Kam D. Dahlquist, *New features improve GRNsight: a web application and service for visualizing models of small- to medium-scale gene regulatory networks* (poster)

Natalie E. Williams*, Brandon J. Klein*, Ben G. Fitzpatrick, and Kam D. Dahlquist, Dynamical systems modeling of six related small gene regulatory networks suggest that the transcription factors Cin5, Hmo1, Msn2, and Yhp1 play a role in controlling the cold shock response in Saccharomyces cerevisiae, (poster)

American Society for Biochemistry and Molecular Biology Annual Meeting

San Diego, California, April 2016; published abstracts in *The Faseb Journal* 30(1) Supplement **K. Grace Johnson***, Natalie E. Williams*, Ben G. Fitzpatrick, and Kam D. Dahlquist, *Modeling the Dynamics of a 21-gene, 50-edge Gene Regulatory Network Controlling the Transcriptional Response to Cold Shock in Saccharomyces cerevisiae using GRNmap (poster)*

Tessa A. Morris*, **Kristen M. Horstmann***, **Kayla C. Jackson***, Ben G. Fitzpatrick, and Kam D. Dahlquist, *Mathematical Modeling Shows that Gln3 and Zap1 Affects the Dynamics of the Gene Regulatory Network Controlling the Cold Shock Response in Saccharomyces cerevisiae* (poster)

Anindita Varshneya*, **Mihir Samdarshi***, Kam D. Dahlquist, John David N. Dionisio, and Ben G. Fitzpatrick, *Test-driven development improves GRNsight: a web application for visualizing models of gene regulatory networks* (poster)

Kevin W. Wyllie*, **Kevin P. McGee***, **Monica V. Hong***, Kam D. Dahlquist, *The Transcription Factors Swi4 and Hap4 Contribute to the Regulation of the Transcriptional Response to Cold Shock in Saccharomyces cerevisiae* (poster)

Eighth Annual Undergraduate Research Symposium

Loyola Marymount University, March 2016

Juan S. Carrillo Quinche*, Trixie Anne M. Roque*, Kam D. Dahlquist, and John David N. Dionisio, *Usability Improvements to GRNmap: Software for Gene Regulatory Network Modeling and Parameter Estimation* (talk)

Kristen M. Horstmann*, Tessa A Morris*, Brandon J. Klein*, Kam D. Dahlquist, and Ben G. Fitzpatrick, *Mathematical Modeling Reveals Zap1's Role in the Gene Regulatory Network that Controls the Response to Cold Shock in Saccharomyces cerevisiae* (poster)

K. Grace Johnson*, Margaret J. O'Neil*, Kam D. Dahlquist, and Ben G. Fitzpatrick, Evaluating Hap4's Role in the Gene Regulatory Network that Controls the Response to Cold Shock in Saccharomyces cerevisiae using GRNmap (poster)

Tessa A. Morris*, Kam D. Dahlquist, Ben G. Fitzpatrick, *Mathematical Modeling Shows that Gln3 Affects the Dynamics of the Gene Regulatory Network Controlling the Cold Shock Response in Saccharomyces cerevisiae* (talk)

Anindita Varshneya*, **Mihir Samdarshi***, Kam D. Dahlquist, John David N. Dionisio, and Ben G. Fitzpatrick, *Test-driven development improves GRNsight: a web application for visualizing models of gene regulatory networks* (poster)

Kevin W. Wyllie*, **Monica V. Hong***, Kam D. Dahlquist, *The Transcription Factors Swi4 and Hap4 Contribute to the Regulation of the Transcriptional Response to Cold Shock in Saccharomyces cerevisiae* (poster)

Society for the Advancement of Chicanos and Native Americans in Science National Conference Washington, D.C., October 2015

Trixie Anne M. Roque*, Tessa A. Morris*, Kam D. Dahlquist, John David N. Dionisio, and Ben G. Fitzpatrick, *Test-Driven Development and Functionality Improvements to GRNmap, a Gene Regulatory Network Modeling Application* (poster)

West Coast Biological Sciences Undergraduate Research Conference

Point Loma Nazarene University, San Diego, California, April 2015

Nicole Anguiano*, **Anindita Varshneya***, Kam D. Dahlquist, John David N. Dionisio, Ben G. Fitzpatrick, *Improvements to GRNsight: a Web Application for Visualizing Models of Gene Regulatory Networks* (poster)

Monica Hong*, **Kevin Wyllie***, Kam D. Dahlquist, *The Transcription Factor Swi4 Contributes to the Regulation of the Transcriptional Response to Cold Shock in Saccharomyces cerevisiae* (poster)

Natalie Williams*, **K. Grace Johnson***, Kam D. Dahlquist, Ben G. Fitzpatrick, *Comparing the Dynamics of the Cold Shock Gene Regulatory Network in Yeast with a Random Network* (poster)

Seventh Annual Undergraduate Research Symposium

Loyola Marymount University, March 2015

Nicole Anguiano*, **Anindita Varshneya***, Kam D. Dahlquist, John David N. Dionisio, Ben G. Fitzpatrick, *Improvements to GRNsight: a Web Application for Visualizing Models of Gene Regulatory Networks* (poster)

Juan Carrillo*, **Trixie Anne Roque***, Kam D. Dahlquist, Ben G. Fitzpatrick, *Software refactoring and Usability Enhancement for GRNmap, a Gene Regulatory Network Modeling Application* (poster)

Monica Hong*, **Kevin Wyllie***, Kam D. Dahlquist, *The Transcription Factor Swi4 Contributes to the Regulation of the Transcriptional Response to Cold Shock in Saccharomyces cerevisiae* (poster)

Natalie Williams*, **K. Grace Johnson***, Kam D. Dahlquist, Ben G. Fitzpatrick, *Comparing the Dynamics of the Cold Shock Gene Regulatory Network in Yeast with a Random Network* (poster)

Fifth Annual Southern California Systems Biology Conference

University of California, Irvine, January 2015

Nicole Anguiano*, Anindita Varshneya*, Kam D. Dahlquist, John David N. Dionisio, Ben G. Fitzpatrick, *Improvements to GRNsight: a Web Application for Visualizing Models of Gene Regulatory Networks* (poster)

Southern California Conference for Undergraduate Research

California State University, Fullerton, November 2014

Nicole Anguiano*, Anindita Varshneya*, Kam D. Dahlquist, John David N. Dionisio, Ben G. Fitzpatrick, *Improvements to GRNsight: a Web Application for Visualizing Models of Gene Regulatory Networks* (poster)

Sarah Patno*, Kam D. Dahlquist, John David N. Dionisio, *Constructing a Combined Gene Database for Staphylococcus aureus strains MRSA252 and COL for the Analysis of Microarray Data* (poster)

Mitchell Petredis*, Kam D. Dahlquist, John David N. Dionisio, Gene Database Construction and GenMAPP Analysis of Sinorhizobium meliloti Microarray Data Comparing Salt and Sucrose Stress (talk)

Society for the Advancement of Chicanos and Native Americans in Science National Conference Los Angeles, California, October 2014

Juan S. Carrillo*, Katrina Sherbina*, Kam D. Dahlquist, Ben G. Fitzpatrick, *Software Refactoring and Usability Enhancement for GRNmap, a Gene Regulatory Network Modeling Application* (poster)

Beta Beta Pacific District Convention

Chapman University, Orange, California, April 2014

Kevin McGee*, Kam D. Dahlquist, John David N. Dionisio, *Generating a New Gene Database* for Leishmania major and Leishmania infantum for Analyzing Microarray Data (poster) **Mitchell Petredis***, Kam D. Dahlquist, John David N. Dionisio, Gene Database Construction and GenMAPP Analysis of Sinorhizobium meliloti Microarray Data Comparing Salt and Sucrose Stress (poster)

Andrew Pita*, Kam D. Dahlquist, John David N. Dionisio, *Constructing a GenMAPP-compatible Gene Database for Streptococcus pneumoniae to perform pathway analysis on microarray data comparing biofilm versus planktonic forms* (talk)

Sixth Annual Undergraduate Research Symposium

Loyola Marymount University, March 2014

Kevin McGee*, Kam D. Dahlquist, John David N. Dionisio, *Pathway Analysis of Leishmania major Promastigote and Amastigote Stages with GenMAPP and MAPPFinder* (poster)

Mitchell Petredis*, Kam D. Dahlquist, John David N. Dionisio, Gene Database Construction and GenMAPP Analysis of Sinorhizobium meliloti Microarray Data Comparing Salt and Sucrose Stress (poster)

Andrew Pita*, Kam D. Dahlquist, John David N. Dionisio, *Constructing a GenMAPP-compatible Gene Database for Streptococcus pneumoniae to perform pathway analysis on microarray data comparing biofilm versus planktonic forms* (talk)

Britain Southwick*, Nicole Anguiano*, Kam D. Dahlquist, John David N. Dionisio, Ben G. Fitzpatrick, *GRNsight: a Web Application for Visualizing Models of Gene Regulatory Networks* (talk)

Joint Mathematics Meetings

Baltimore, Maryland, January 2014

Katrina Sherbina*, Kam D. Dahlquist, Ben G. Fitzpatrick, *Dynamical Systems Modeling of the Cold Shock Response in Saccharomyces cerevisiae* (poster)

Katrina was given an "Outstanding Presentation" Award by the Mathematical Association of America for this poster.

Beta Beta Pacific District Convention

Azusa Pacific University, Azusa, California, April 2013

Katrina Sherbina*, Kam D. Dahlquist, Ben G. Fitzpatrick, *Dynamical Systems Modeling of the Cold Shock Response in Saccharomyces cerevisiae* (talk).

Katrina was awarded first place for the Frank G. Brooks Award for Excellence in Student Research for this talk.

Nicholas A. Rohacz*, Kam D. Dahlquist, Ben G. Fitzpatrick. *Continuous Time Markov Chain Models of Gene Regulation Regulatory Networks under the Environmental Stress of Cold Shock in Saccharomyces cerevisiae* (talk).

Nicholas was awarded second place for the Frank G. Brooks Award for Excellence in Student Research for this talk.

Fifth Annual Undergraduate Research Symposium

Loyola Marymount University, March 2013

Nicolette Harmon*, Chidinma Amakiri*, Nicholas A. Rohacz*, Katrina Sherbina*, Kam D. Dahlquist, Ben G. Fitzpatrick, *A wild species of budding yeast, Saccharomyces paradoxus, is more resistant to cold temperature stress than the domesticated species, Saccharomyces cerevisiae* (talk)

Nicholas A. Rohacz*, Katrina Sherbina*, Kam D. Dahlquist, Ben G. Fitzpatrick, *Continuous Time Markov Chain Models of Gene Regulation Regulatory Networks under the Environmental Stress of Cold Shock in Saccharomyces cerevisiae* (talk)

Katrina Sherbina*, Nicholas A. Rohacz*, Kam D. Dahlquist, Ben G. Fitzpatrick, *Dynamical Systems Modeling of the Cold Shock Response in Saccharomyces cerevisiae* (talk)

Southern California Conference for Undergraduate Research

California State University, Channel Islands, Camarillo, California, November 2012

Nicolette Harmon*, Chidinma Amakiri*, Nicholas A. Rohacz*, Katrina Sherbina*, Kam D. Dahlquist, Ben G. Fitzpatrick, *A wild species of budding yeast, Saccharomyces paradoxus, is more resistant to cold temperature stress than the domesticated species, Saccharomyces cerevisiae* (poster)

Katrina Sherbina*, Nicholas A. Rohacz*, Kam D. Dahlquist, Ben G. Fitzpatrick, *Dynamical Systems Modeling of the Cold Shock Response in Saccharomyces cerevisiae* (poster)

Society for Mathematical Biology Annual Meeting

Knoxville, Tennessee, July 2012

Katrina Sherbina*, Nicholas A. Rohacz*, Kam D. Dahlquist, Ben G. Fitzpatrick, *Dynamical Systems Modeling of the Cold Shock Response in Saccharomyces cerevisiae* (poster)

Nicholas A. Rohacz*, Katrina Sherbina*, Kam D. Dahlquist, Ben G. Fitzpatrick, *Continuous Time Markov Chain Models of Gene Regulation Regulatory Networks under the Environmental Stress of Cold Shock in Saccharomyces cerevisiae* (poster)

West Coast Biological Sciences Undergraduate Research Conference

Loyola Marymount University, April 2012

Nicholas Rohacz*, **Katrina Sherbina***, Kam D. Dahlquist, Ben G. Fitzpatrick, *Mathematical Analysis of Gene Regulation in Saccharomyces cerevisiae in Response to Cold Shock* (poster)

Andrew Herman*, Kam D. Dahlquist

Saccharomyces cerevisiae Responds to Cold Shock by Changing the Expression of Genes Involved in Nitrogen Metabolism (poster)

Fourth Annual Undergraduate Research Symposium

Loyola Marymount University, March 2012

Nicholas Rohacz*, Katrina Sherbina*, Kam D. Dahlquist, Ben G. Fitzpatrick, *Mathematical Analysis of Gene Regulation in Saccharomyces cerevisiae in Response to Cold Shock* (poster) Andrew Herman*, Kam D. Dahlquist

Saccharomyces cerevisiae Responds to Cold Shock by Changing the Expression of Genes Involved in Nitrogen Metabolism (poster)

Second Annual Southern California Systems Biology Conference

University of California, Irvine, January 2012

Nicholas Rohacz*, **Katrina Sherbina***, Kam D. Dahlquist, Ben G. Fitzpatrick, *Mathematical Analysis of Gene Regulation in Saccharomyces cerevisiae in Response to Cold Shock* (poster)

Southern California Conference for Undergraduate Research

Mt. San Antonio College, Walnut, California, November 2011

Cybele Arsan*, Kam D. Dahlquist, *The Hmol Transcription Factor Regulates the Expression of Ribosome Biogenesis Genes during Cold Shock and Recovery in Saccharomyces cerevisiae* (talk) **Richard Brous***, Kam D. Dahlquist, John David N. Dionisio

Implementing Multiple Species Export in XMLPipeDB's GenMAPP Builder (talk)

Andrew Herman*, Kam D. Dahlquist, Saccharomyces cerevisiae Responds to Cold Shock by Changing the Expression of Genes Involved in Nitrogen Metabolism (poster)

Nicholas Rohacz*, **Katrina Sherbina***, Kam D. Dahlquist, Ben G. Fitzpatrick, *Mathematical Analysis of Gene Regulation in Saccharomyces cerevisiae in Response to Cold Shock* (poster)

Beta Beta Pacific District Convention

Azusa Pacific University, Azusa Pacific, California, April 2011

Cybele Arsan*, Andrew F. Herman*, Alondra J. Vega*, Lauren N. Kubeck*, Kam D. Dahlquist. The Hmo1 transcription factor regulates the expression of ribosome biogenesis genes during cold shock and recovery in Saccharomyces cerevisiae. (poster). Cybele was given the second place John C. Johnson Award for Excellence in Student Research for posters in Microbiology.

Andrew F. Herman*, Alondra J. Vega*, Lauren N. Kubeck*, Kenny R. Rodriguez*, Kam D. Dahlquist, *Saccharomyces cerevisiae Responds to Cold Shock by Changing the Expression of Genes Involved in Nitrogen Metabolism* (poster).

Andrew was given the second place John C. Johnson Award for Excellence in Student Research for posters in Physiology or Molecular Biology.

Kelly C. Parks*, Kam D. Dahlquist, John David N. Dionisio.

Using XMLPipeDB to Create a GenMAPP-compatible Gene Database for the Analysis of DNA Microarray Data for Staphylococcus aureus MRSA252 (talk)

The Third Annual Undergraduate Research Symposium

Loyola Marymount University, March 2011

Cybele Arsan*, Andrew F. Herman*, Alondra J. Vega*, Lauren N. Kubeck*, Kam D. Dahlquist, *The Hmo1 transcription factor regulates the expression of ribosome biogenesis genes during cold shock and recovery in Saccharomyces cerevisiae.* (poster).

Andrew F. Herman*, Alondra J. Vega*, Lauren N. Kubeck*, Kenny R. Rodriguez*, Kam D. Dahlquist, *Saccharomyces cerevisiae Responds to Cold Shock by Changing the Expression of Genes Involved in Nitrogen Metabolism* (poster).

Kelly C. Parks*, Kam D. Dahlquist, John David N. Dionisio, *Using XMLPipeDB to Create a GenMAPP-compatible Gene Database for the Analysis of DNA Microarray Data for Staphylococcus aureus MRSA252* (talk)

Don B. Murphy*, Kam D. Dahlquist, John David N. Dionisio, *Implementing Support for Multiple Species in XMLPipeDB's GenMAPP Builder* (poster)

Southern California Conference for Undergraduate Research

Pepperdine University, Malibu, California, November 2010

Andrew Herman*, Alondra J. Vega*, Lauren N. Kubeck*, Kenny R. Rodriguez*, Kam D. Dahlquist, Saccharomyces cerevisiae Responds to Cold Shock by Changing the Expression of Genes Involved in Nitrogen Metabolism (talk)

Kelly C. Parks*, Kam D. Dahlquist, John David N. Dionisio, *Using XMLPipeDB to Create a GenMAPP-compatible Gene Database for the Analysis of DNA Microarray Data for Staphylococcus aureus MRSA252* (talk)

Don B. Murphy*, Kam D. Dahlquist, John David N. Dionisio, *Implementing Support for Multiple Species in XMLPipeDB's GenMAPP Builder* (poster)

Society for the Advancement of Chicanos and Native Americans in Science National Conference Anaheim, California, October 2010

Alondra J. Vega*, Andrew F. Herman*, Lauren N. Kubeck*, Kam D. Dahlquist, and Ben G. Fitzpatrick, *Mathematical Modeling of the Gene Regulatory Network Controlling the Cold Shock Response in Saccharomyces cerevisiae* (poster)

Kevin Paiz-Ramirez*, Kam D. Dahlquist, John David N. Dionisio, *Using XMLPipeDB to Create a GenMAPP-compatible Gene Database for the Analysis of DNA Microarray Data for Mycobacterium tuberculosis* (poster)

Experimental Biology 2010

Anaheim, California, April 2010, published abstracts in *The Faseb Journal* 24(1) Supplement **Kristen Buckmelter***, Bianca Infanzon*, Elizabeth M. Liu*, Olivia S. Sakhon*, Kenny R.

Rodriguez*, Wesley T. Citti*, Saccharomyces cerevisiae responds to cold shock by inducing the transcription of genes required for zinc ion homeostasis (poster)

Bianca Infanzon*, Kristen Buckmelter*, Elizabeth M. Liu*, Olivia S. Sakhon*, Kenny R. Rodriguez*, Wesley T. Citti*, Kam D. Dahlquist, *Saccharomyces cerevisiae responds to cold shock by inducing the transcription of ribosome biogenesis genes* (poster)

Lauren N. Kubeck*, **Andrew F. Herman***, Kenny R. Rodriguez*, Kevin C. Entzminger*, Stephanie D. Kuelbs*, Kristine B. Hubbard*, Kam D. Dahlquist, *Phenotypic and Functional Genomic Analysis of Heat and Cold Stress in Transcription Factor Deletion Strains of Saccharomyces cerevisiae* (poster)

Bernadette Pak*, Don Murphy*, Kam D. Dahlquist, John David N. Dionisio, *Extending XMLPipeDB with GO Slim to Update the GenMAPP-compatible Gene Database for Budding Yeast, Saccharomyces cerevisiae, for the Analysis of DNA Microarray Data* (poster)

Kelly C. Parks*, Andrew J. Hirning*, **Kelia McDonald***, John David N. Dionisio, Kam D. Dahlquist, *Extending XMLPipeDB to Create a GenMAPP-compatible Gene Databases for the Analysis of DNA Microarray Data from human pathogens* (poster)

Stephen Speicher*, Kam D. Dahlquist, Gene Ontology Term Enrichment Analysis of Gene Expression Changes Observed in the TRAMP Mouse Model of Prostate Cancer upon Treatment with Green Tea Catechins (poster)

Alondra J. Vega*, Stephanie D. Kuelbs*, Ben G. Fitzpatrick, Kam D. Dahlquist, *Mathematical Modeling of the Gene Regulatory Network Controlling the Cold Shock Response in Saccharomyces cerevisiae* (talk)

Alondra J. Vega was awarded an NSF/ASBMB Travel Fellowship so that she could make this platform presentation

The Second Annual Undergraduate Research Symposium

Loyola Marymount University, March 2010

Kristen Buckmelter*, **Bianca Infanzon***, Saccharomyces cerevisiae responds to cold shock by inducing the transcription of genes required for ribosome biogenesis and zinc ion homeostasis (talk)

Lauren N. Kubeck*, **Andrew F. Herman***, Kam D. Dahlquist, *Phenotypic and Functional Genomic Analysis of Heat and Cold Stresses in Transcription Factor Deletion Strains of Saccharomyces cerevisiae*" (poster)

Kelia McDonald*, Kam D. Dahlquist, John David N. Dionisio, *Using XMLPipeDB to Create a GenMAPP-compatible Gene Database for Pseudomonas aeruginosa for the Analysis of DNA Microarray Data* (poster)

Bernadette Pak*, **Don Murphy***, Kam D. Dahlquist, John David N. Dionisio, *Extending XMLPipeDB with GO Slim to Update the GenMAPP-compatible Gene Database for Budding Yeast, Saccharomyces cerevisiae, for the Analysis of DNA Microarray Data (poster)*

Kelly Parks*, Kam D. Dahlquist, John David N. Dionisio, *Using XMLPipeDB to Create a GenMAPP-compatible Gene Database for the Analysis of DNA Microarray Data for Staphylococcus aureus MRSA252* (poster)

Alondra J. Vega*, Mathematical Modeling of the Gene Regulatory Network Controlling the Cold Shock Response in Saccharomyces cerevisiae (talk)

Stephen Speicher*, Gene Ontology Term Enrichment Analysis of Gene Expression Changes Observed in the TRAMP Mouse Model of Prostate Cancer upon Treatment with Green Tea Catechins (talk)

Stephen Speicher won a Sigma Xi award for this presentation

Society for the Advancement of Chicanos and Native Americans in Science National Conference Dallas, TX, October 2009

Kenny R. Rodriguez*, Kevin C. Entzminger*, Stephanie D. Kuelbs*, Kam D. Dahlquist, *Does Cin5p Regulate the Early Transcriptional Response to Cold Shock in Saccharomyces cerevisiae?* (poster)

Society for Mathematical Biology Annual Meeting

Vancouver, British Columbia, Canada, July 2009

Kenny R. Rodriguez*, Kevin C. Entzminger*, Stephanie D. Kuelbs*, Kam D. Dahlquist, *Does Cin5p Regulate the Early Transcriptional Response to Cold Shock in Saccharomyces cerevisiae?* (poster)

West Coast Biological Sciences Undergraduate Research Conference

Point Loma Nazarene University, San Diego, California, April 2009

Kara Taylor*, Wesley T. Citti*, Jeffrey D. McGowan*, Kam D. Dahlquist, Carl R. Urbinati, *Characterizing Soil Microbial Diversity in the Ballona Wetlands* (talk)

Kevin C. Entzminger*, **Kenny R. Rodriguez***, Stephanie D. Kuelbs*, Kam D. Dahlquist, *Does Cin5p Regulate the Early Transcriptional Response to Cold Shock in Saccharomyces cerevisiae?* (talk)

Alexandrea Alphonso*, **Chad Villaflores***, Derek Smith*, Kam D. Dahlquist, John David N. Dionisio, *Extending XMLPipeDB to Create GenMAPP-compatible Gene Databases for Plants and Microorganisms for the Analysis of DNA Microarray Data* (talk)

Kristine B. Hubbard*, Kenny R. Rodriguez, Stephanie D. Kuelbs, Kam D. Dahlquist, *Phenotypic and Functional Genomic Analysis of Heat and Cold Stresses in Transcription Factor Deletion Strains of Saccharomyces cerevisiae* (poster)

The First Annual Undergraduate Research Symposium: Foundations for the Future Loyola Marymount University, March 2009

Kara Taylor*, Wesley T. Citti*, Jeffrey D. McGowan*, Kam D. Dahlquist, Carl R. Urbinati, *Characterizing Soil Microbial Diversity in the Ballona Wetlands* (talk)

Kevin C. Entzminger*, Does Cin5p Regulate the Early Transcriptional Response to Cold Shock in Saccharomyces cerevisiae? (talk)

Kevin C. Entzminger won a Sigma Xi award for this presentation

Alexandrea Alphonso*, **Chad Villaflores***, Derek Smith*, Kam D. Dahlquist, John David N. Dionisio, *Extending XMLPipeDB to Create GenMAPP-compatible Gene Databases for Plants and Microorganisms for the Analysis of DNA Microarray Data* (poster)

Kenny R. Rodriguez*, Stephanie D. Kuelbs*, Kam D. Dahlquist, *Phenotypic and Functional Genomic Analysis of Heat and Cold Stresses in Transcription Factor Deletion Strains of Saccharomyces cerevisiae*" (poster)

Stephanie D. Kuelbs*, *Mathematical Modeling of the Transcriptional Network Controlling the Cold Shock Response in Saccharomyces cerevisiae* (talk)

First RECOMB Satellite Conference on Bioinformatics Education

San Diego, California, March 2009

Alexandrea Alphonso*, **Chad Villaflores***, Derek Smith*, Kam D. Dahlquist, John David N. Dionisio, *Extending XMLPipeDB to Create GenMAPP-compatible Gene Databases for Plants and Microorganisms for the Analysis of DNA Microarray Data* (poster)

Sigma Xi Annual Meeting

Washington, D.C., November 2008

Kara Taylor*, Wesley T. Citti*, Jeffrey D. McGowan*, Kam D. Dahlquist, Carl R. Urbinati, *Identifying Soil Bacterial and Biochemical Pathways in the Ballona Wetlands* (poster)

Society for the Advancement of Chicanos and Native Americans in Science National Conference Salt Lake City, Utah, October 2008

Kenny R. Rodriguez*, Kevin C. Entzminger*, Stephanie D. Kuelbs*, Kam D. Dahlquist, *Phenotypic and Functional Genomic Analysis of Heat and Cold Stress in Transcription Factor Deletion Strains of Saccharomyces cerevisiae* (poster)

Society for Mathematical Biology Annual Meeting

Toronto, Ontario, Canada, August 2008

Stephanie D. Kuelbs*, Kevin C. Entzminger*, Kenny R. Rodriguez*, Ben G. Fitzpatrick, Kam D. Dahlquist, *Mathematical Modeling of the Transcriptional Network Controlling the Cold Shock Response in Saccharomyces cerevisiae* (poster)

Yeast Genetics and Molecular Biology

Toronto, Ontario, Canada, July 2008

Kevin C. Entzminger*, Kenny R. Rodriguez*, Stephanie D. Kuelbs*, Kam D. Dahlquist, *Does Cin5p Regulate the Early Transcriptional Response to Cold Shock in Saccharomyces cerevisiae?* (poster)

West Coast Biological Sciences Undergraduate Research Conference

Point Loma Nazarene University, San Diego, California, April 2008

Wesley T. Citti*, **Jeffrey D. McGowan***, Kam D. Dahlquist, Carl R. Urbinati, *Identification and Diversity Analysis of Soil Bacteria in the Ballona Wetlands* (talk)

Elizabeth M. Liu*, Olivia S. Sakhon*, Robert Hybki*, Kam D. Dahlquist, *The Global Transcriptional Response of Saccharomyces cerevisiae to Cold Shock and Recovery* (talk)

Kenny R. Rodriguez*, **Kevin C. Entzminger***, **Stephanie D. Kuelbs***, Kam D. Dahlquist, Does the Transcription Factor CIN5 Regulate the Transcriptional Response to Cold Shock in Saccharomyces cerevisiae? (poster)

Pacific Coast Undergraduate Math Conference

Loyola Marymount University, Los Angeles, California, April 2008

Stephanie D. Kuelbs*, *Mathematical Modeling of the Transcriptional Network Controlling the Cold Shock Response in Saccharomyces cerevisiae* (talk)

Southern California Conference for Undergraduate Research

California State University, Los Angeles, November 2007

Wesley T. Citti*, **Jeffrey D. McGowan***, Kam D. Dahlquist, Carl R. Urbinati, *Identifying Soil Bacteria and Biochemical Pathways for Bioremediation in Ballona Wetlands* (poster)

Elizabeth M. Liu*, Olivia S. Sakhon*, Robert Hybki*, Kam D. Dahlquist, *The Global Transcriptional Response of Saccharomyces cerevisiae to Cold Shock and Recovery* (poster)

Kevin C. Entzminger*, **Stephanie D. Kuelbs***, **Kenny R. Rodriguez***, Kam D. Dahlquist, *Mathematical Modeling and Biological Analysis of the Transcriptional Response to Cold Shock in Saccharomyces cerevisiae* (poster)

Interdisciplinary Student Research Symposium

Loyola Marymount University, Los Angeles, California, October 2007

Wesley T. Citti*, Jeffrey D. McGowan*, Kam D. Dahlquist, Carl R. Urbinati, *Identifying Soil Bacteria and Biochemical Pathways for Bioremediation in Ballona Wetlands* (poster)

Kevin C. Entzminger*, **Stephanie D. Kuelbs***, **Kenny R. Rodriguez***, Kam D. Dahlquist, *Mathematical Modeling and Biological Analysis of the Transcriptional Response to Cold Shock in Saccharomyces cerevisiae* (poster)

Annual Meeting of the Society for Mathematical Biology

San Jose, California, August 2007

Nathan C. Wanner*, Erika Camacho, Kam D. Dahlquist, *Mathematical Modeling of the Transcriptional Network Controlling the Environmental Stress Response in Saccharomyces cerevisiae* (poster)

West Coast Biological Sciences Undergraduate Research Conference

Loyola Marymount University, Los Angeles, California, April 2007

Wesley T. Citti*, Kam D. Dahlquist, Carl R. Urbinati, *Identifying Bacteria and Biochemical Pathways for Bioremediation in Ballona Wetlands* (poster)

Elizabeth M. Liu*, **Olivia S. Sakhon***, Kam D. Dahlquist, *The Global Transcriptional Response of Saccharomyces cerevisiae to Cold Shock and Recovery* (poster)

Sigma Xi Induction Ceremony and Poster Session

Loyola Marymount University, Los Angeles, California, April 2007

Wesley T. Citti*, Kam D. Dahlquist, Carl R. Urbinati, *Identifying Bacteria and Biochemical Pathways for Bioremediation in Ballona Wetlands* (poster)

Elizabeth M. Liu*, **Olivia S. Sakhon***, Kam D. Dahlquist, *The Global Transcriptional Response of Saccharomyces cerevisiae to Cold Shock and Recovery* (poster)

San Diego Systems Biology Symposium: Systems to Synthesis

Salk Institute, La Jolla, California, January 2007

Nathan C. Wanner*, Erika Camacho, Kam D. Dahlquist, *Mathematical Modeling of the Transcriptional Network Controlling the Environmental Stress Response in Saccharomyces cerevisiae* (poster)

Nathan C. Wanner won the third place poster prize at this symposium.

Southern California Conference for Undergraduate Research

Occidental College, Los Angeles, California, November 2006

Wesley T. Citti*, Kam D. Dahlquist, Carl R. Urbinati, *Identifying Bacteria and Biochemical Pathways for Bioremediation in Ballona Wetlands* (poster)

Bellarmine Forum on Environmental Responsibility

Loyola Marymount University, Los Angeles, California, November 2006

Wesley T. Citti*, Kam D. Dahlquist, Carl R. Urbinati, *Identifying Bacteria and Biochemical Pathways for Bioremediation in Ballona Wetlands* (poster)

West Coast Biological Sciences Undergraduate Research Conference

Point Loma Nazarene University, San Diego, California, April 2006

Wesley T. Citti*, Heather King*, and Kam D. Dahlquist, *The Transcriptional Response of Saccharomyces cerevisiae to Cold Shock and Recovery* (poster)

Wesley T. Citti won a poster award at this conference.

2004 Undergraduate Research Summer Institute Symposium

Vassar College, Poughkeepsie, New York, September 2004

Meredith Braymer*, Eric S. Eberhardt, Kam D. Dahlquist, *Global Changes in Gene Expression during Cold Shock and Recovery in Saccharomyces cerevisiae* (poster)

Jessica Heckman* and Kam D. Dahlquist, New Resources for GenMAPP 2.0: A New Gene Database and Pathway MAPPs for the Comparison of Changes in Gene Expression due to Environmental Stresses in Saccharomyces cerevisiae and Escherichia coli (poster)

Nikoleta Tsvetanova*, Meredith Braymer*, Eric S. Eberhardt, *Cold-Shock Response in Saccharomyces cerevisiae* (poster)

SERVICE & PROFESSIONAL INVOLVEMENT

Internal	
Loyola Marymount University	
University-wide	2017 2016
Mission Day Planning Committee	2015–2016
Search Committee for Dean of the Seaver College of Science and Engineering	
Honors Program Faculty Fellow	2014–present
Library Committee	2013–2015
LMU Undergraduate Research Symposium Session Chair	2013, 2014
Performed Assessment of LMU's Oral Communication Learning Outcome	2013
Advisory Committee on Undergraduate Research	2013
Digital Scholarship Repository Project Team	2010–2011
High Performance Computing Task Force	2010–2011
Research Council	2009–2015
Valedictorian Committee	2009, 2011
Scholarship of Teaching and Learning Brown Bag Group	2005–2011
Interviewer of candidates for Director of Sponsored Projects Office	Summer 2008
Frank R. Seaver College of Science and Engineering	
College Curriculum Committee	2017–present
Breaking the Boundaries in STEM Education Research Conference	April 2017
Computational Thinking Thread Co-Chair	
4-Unit Task Force	2015–2016
Prioritization Committee	2013–2014
Pre-tenure Faculty Guidance Committee	2010–2011
Information Technology Committee	2005, 2009–2010
Search Committee for Presidential Professorship	
in Computational Biology	2008-2010
Search Committee for Presidential Professorship	
in Mathematical Biology	2006-2008
Department of Biology	
Curriculum Committee, Chair	2017-present
Search Committee for Animal Physiologist, Chair	2017–2018
TriBeta Biology Honor Society Advisor	2016-present
Laboratory Safety Committee, Chair	2010, 2016–present
Reviewer, Kadner-Pitts Research Grants	2013, 2016, 2018
4-unit Curriculum Model Task Force	2014–2015
Search Committee for Biochemist/Cell Physiologist	2010-2011
Faculty mentor	2009-present
Search Committee for Vertebrate Physiologist	2009–2010
APRC Review Committee	2006-2011
Chair	2011
Webmaster for Department web site	2006-2012
Review of Faculty Research Funds subcommittee	2006-2008
Sensitive Equipment subcommittee	Spring 2006
Vassar College	1 6
Women in Science and Mathematics Faculty Adviser	2003-2005
Career Development Office Advisory Committee	2003-2005
Carolyn Grant Endowment Committee for Embodied Learning	2004–2005
Biology Department Curriculum Committee	2004–2005
Biology Department Community Committee	2004–2005
Women's Studies Steering Committee	2004–2005
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External	
Southern California Conference for Undergraduate Research	
Abstract Reviewer and Session Chair	2014
Intel International Science and Engineering Fair	
Sigma Xi Special Awards Judge, Los Angeles, California	2011
West Coast Biological Sciences Undergraduate Research Conference	
Presentation or Poster Judge	2006, 2008, 2015
Member, Organizing Committee	2007
Open Bioinformatics Foundation	
Abstract Reviewer, Bioinformatics Open Source Conference (Boston)	2011-2014
Codefest Host, Loyola Marymount University	2012
At-large Member, Board of Directors	2008-2010
Chair, Bioinformatics Open Source Conference (Boston)	July 9–10, 2010
Chair, Bioinformatics Open Source Conference (Stockholm)	June 27–28, 2009
Chair, Bioinformatics Open Source Conference (Toronto)	July 18–19, 2008
International Society for Computational Biology	•
Member, Education Committee	2006-2015
Genome Consortium for Active Teaching (GCAT)	
Alternate scanning center for DNA microarrays	2010-2015
Grants and Publishing	
Review Panel, National Science Foundation June 2009, Decembe	r 2011, September
2014, December 2015	•
Peer-reviewer	
Journal of Research in STEM Education	2018
PLoS ONE	2017
PLoS Computational Biology	2016
Reinvention: an International Journal of Undergraduate Research	ch 2015–2016
Nucleic Acids Research	2015
Journal of Computational Science Education	2011
CBE – Life Sciences Education	2003, 2006, 2008, 2009
Bioinformatics	2003, 2009
EURASIP Journal on Advances in Signal Processing	2009
PLoS ONE	2009
Briefings in Functional Genomics and Proteomics	2008
Molecular and Cellular Proteomics	2004
Chapter Reviewer, Watson et al., <i>Recombinant DNA</i> , 3 rd edition Association for Women in Science (AWIS)	2006
Chair, Programs Committee, Palo Alto Chapter	2001–2003
 Organized and led monthly chapter meetings attended by 50-75 p 	
 Invited speakers (women scientists, career development) 	- opio
Postdoctoral Women Peer-mentoring Group, U.C. San Francisco	2001–2003
Alumni Volunteer Admissions Interviewer, Pomona College	1995–1998, 2001
Phoenix II Seminars, San Jose, California	1,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Graduate, Leadership Program	1994
Staff volunteer for courses and exit interviews	1994–1995
Memberships	1,,, 1,,,0
American Society for Biochemistry and Molecular Biology	2009-present
Open Bioinformatics Foundation	2006–present
American Society for Cell Biology	2003–2015
International Society for Computational Biology	2002–2016
Association for Women in Science (AWIS)	1998–2015
American Association for the Advancement of Science	1995–2017

PROFESSIONAL DEVELOPMENT WORKSHOPS ATTENDED

BioQUEST / HHMI / CaseNet Summer Workshop 2017	July 2017
Making Meaning Through Modeling: Problem Solving in Biology	
Michigan State University, East Lansing, Michigan	
Breaking the Boundaries in STEM Education Research Conference	April 2017
Loyola Marymount University, Los Angeles, California	
GCAT-SEEK Workshop	June-July 2016
California State University at Los Angeles, Los Angeles, California	
BioQUEST / HHMI / CaseNet Summer Workshop 2015	June 2015
Count the Ways: Engaging Students in Quantitative Biology Applications	S
Harvey Mudd College, Claremont, California,	
Loyola Marymount University President's Institute	Iay 2009, May 2013
BioQUEST Curriculum Consortium Summer Workshop 2011	June 2011
Undergraduate Biology in the 21st Century, Beloit College, Beloit, Wiscons	sin
Peer Evaluation of Teaching Workshop	May 2011
Center for Teaching Excellence, Loyola Marymount University, Los Angeles,	
BioQUEST Curriculum Consortium Summer Workshop 2009	June 2009
Green Architecture – Green Curriculum, Beloit College, Beloit, Wisconsin	
BioQUEST Curriculum Consortium Summer Workshop 2007:	June 2007
Exploratory Evolution Education, Beloit College, Beloit, Wisconsin	
Women in bioScience Conference	May 2007
Association for Women in Science, San Diego, California	-: ,
Pedagogy Workshop for Second-year Faculty	2006-2007
Loyola Marymount University, Los Angeles, California	
Jesuit and Feminist Education:	October 2006
Transformative Discourses for Teaching & Learning Conference	
Fairfield University, Fairfield, Connecticut	
Collegium: A Colloquy on Faith and Intellectual Life	June 2006
St. John's University, Collegeville, Minnesota	2000
BioQUEST Curriculum Consortium Summer Workshop 2005:	June 2005
Investigating Interdisciplinary Interactions, Beloit College, Beloit, Wiscon	
(attended with Erika Camacho who was then in the Department of Mathemati	
The Embodied Voice Faculty Workshop	Spring 2005
Vassar College, Poughkeepsie, New York	×F8
Dartmouth Faculty Summer Institute	July 2004
Ethical, Legal, and Social Implications of the Human Genome Project	<i>vary</i> 2001
Dartmouth University, Hanover, New Hampshire	
BEDROCK Workshop–Bioinformatics in Biology Education:	October 2003
Working with Sequence, Structure, and Function	000001 2000
Cornell Theory Center, Ithaca, New York	
Analysis of Regulatory Sequences Controlling Expression of Biological Networks	June 2003
Extracting Biological Information from System-scale Protein Interactome Data	, , , , , , , , , , , , , , , , , , , ,
Intelligent Systems for Molecular Biology Tutorials, Brisbane, Queensland, A	ustralia
Strategies in Gender Equitable Teaching	2001–2002
U.C. Berkeley Extension, Berkeley, California	2001 2002
Beginning Dreamweaver 4	April 2002
Ciber Training Center, San Francisco, California	71pm 2002
Advanced Microsoft Access 97	August 2001
New Horizons Computer Learning Centers, Inc., San Francisco, California	1145451 2001
Biostatistics 183: Introduction to Statistical Analysis	Fall 2001
U.C. San Francisco, San Francisco, California	1 un 2001

Art of Lecturing
Gladstone Institutes, San Francisco, California
Scientific Writing
Gladstone Institutes, San Francisco, California
Gladstone Genomics Core Microarray Academy

Summer 2001
Spring 2001
Fall 2000