

Gerwald Jogl: Completed Publications

Refereed journal articles

1. Fernandezgalan R, Jalon FA, Manzano BR, Rodriguezdelafuente J, Vrahami M, Jedlicka B, Weissensteiner W, **Jogl G**; New chiral Palladium(0) and Palladium(II) complexes of (aminoferrocenyl)phosphine ligands Ppfa and Ptfpa - X-ray crystal structure analysis and fluxional behavior involving alkene rotation, Pd-N bond rupture, and selective eta(3)-eta(1)-eta(3) allyl isomerization. **Organometallics** 16, 17, 3758-3768 (1997).
2. Reitzer R, Krasser M, **Jogl G**, Buckel W, Bothe H, Kratky C; Crystallization and preliminary X-ray analysis of recombinant glutamate mutase and of the isolated component S from *Clostridium cochlearium*. **Acta Cryst. D** 54, 1039-1042 (1998).
3. Langan P, Lehmann M, Wilkinson C, **Jogl G**, Kratky C; Neutron Laue diffraction studies of coenzyme cob(II)alamin. **Acta Cryst. D** 55, 51-59 (1998).
4. Reitzer R, Gruber K, **Jogl G**, Wagner UG, Bothe H, Buckel W, Kratky C; Glutamate mutase from *Clostridium cochlearium*: the structure of a coenzyme B₁₂-dependent enzyme provides new mechanistic insights. **Structure** 7, 891-902 (1999).
5. Champloy F, **Jogl G**, Reitzer R, Buckel W, Bothe H, Michalowicz A, Meyer-Klaucke W, Kratky C; EXAFS data support a short axial cobalt-nitrogen bond of the B₁₂ cofactor in the two coenzyme B₁₂-dependent enzymes glutamate mutase and 2-methyleneglutarate mutase. **J. Amer. Chem. Soc.** 121, 11780-11789 (1999).
6. Champloy F, Gruber K, **Jogl G**, Kratky C; XAS spectroscopy reveals X-ray-induced photoreduction of free and protein-bound B₁₂ cofactors. **J. Synch. Rad.** 7, 267-273 (2000).
7. Rozovsky S, **Jogl G**, Tong L, McDermott AE; Solution-state NMR investigations of triosephosphate isomerase active site loop motion: ligand release in relation to active site loop dynamics. **J. Mol. Biol.** 310, 271-280 (2001).
8. **Jogl G**, Tao X, Xu YW, Tong L; COMO: a program for combined molecular replacement. **Acta Cryst. D** 57, 1127-1134 (2001).
9. **Jogl G**, Shen Y, Gebauer D, Li J, Wiegmann K, Kashkar H, Kronke M, Tong L; Crystal structure of the BEACH domain reveals an unusual fold and extensive association with a novel PH domain. **EMBO J.** 21, 18, 4785-4795 (2002).
10. **Jogl G**, Rozovsky S, McDermott AE, Tong L; Optimal alignment for enzymatic proton transfer: Structure of the Michaelis complex of triosephosphate isomerase at 1.2 Å resolution. **Proc. Natl. Acad. Sci. USA** 100, 1, 50-55 (2003).
11. **Jogl G**, Tong L; Crystal structure of carnitine acetyltransferase and implications for the catalytic mechanism and fatty acid transport. **Cell** 112, 113-122 (2003).
12. Gobin S, Thuillier L, **Jogl G**, Faye A, Tong L, Chi M, Bonnefont JP, Girard J, Prip-Buus C; Functional and structural basis of carnitine palmitoyltransferase 1A deficiency. **J. Biol. Chem.** 278, 50428-50434 (2003).
13. **Jogl G**, Tong L; Crystal structure of yeast acetyl-coenzyme A synthetase in complex with AMP. **Biochemistry** 43, 1425-1431 (2004).
14. Hsiao Y, **Jogl G**, Tong L; Structural and biochemical studies of the substrate selectivity of carnitine acetyltransferase. **J. Biol. Chem.** 279, 31584-31589 (2004).

15. Gebauer D, Li J, **Jogl G**, Tong L; Crystal structure of the PH-BEACH domain of human LRBA/BGL. **Biochemistry** 43, 14873-14880 (2004).
16. **Jogl G**, Hsiao Y, Tong L; Crystal structure of mouse carnitine octanoyltransferase and molecular determinants of substrate selectivity. **J. Biol. Chem.** 280, 738-744 (2005).
17. Hsiao YS, **Jogl G**, Esser V, Tong L; Crystal structure of rat carnitine palmitoyltransferase II (CPT-II). **Biochem. Biophys. Res. Comm.** 346, 974-980 (2006).
18. Hsiao YS, **Jogl G**, Tong L; Crystal structures of murine carnitine acetyltransferase in ternary complexes with its substrates. **J. Biol. Chem.** 281, 28480-28487 (2006).
19. Holmes W and **Jogl G***; Crystal structure of inositol phosphate multikinase 2 and implications for substrate specificity. **J. Biol. Chem.** 281, 38109-38116 (2006).
20. Demirci H, Gregory S, Dahlberg A, **Jogl G***; Recognition of ribosomal protein L11 by the protein trimethyltransferase PrmA. **EMBO J.** 26, 567-577 (2007).
21. Li H and **Jogl G***; Crystal structure of the zinc-binding transport protein ZnuA from *Escherichia coli* reveals an unexpected variation in metal coordination. **J. Mol. Biol.** 368, 1358-1366 (2007).
22. You Z, Omura S, Ikeda H, Cane DE, **Jogl G***; Crystal structure of the non-heme iron dioxygenase PtlH in pentalenolactone biosynthesis. **J. Biol. Chem.** 282, 36552-36560 (2007).
23. Demirci H, Gregory S, Dahlberg AE, **Jogl G***; Multiple site trimethylation of ribosomal protein L11 by the PrmA methyltransferase. **Structure** 16, 1059-1066 (2008)^B.
24. Demirci H, Gregory S, Dahlberg AE, **Jogl G***; Crystal structure of the *Thermus thermophilus* 16S rRNA methyltransferase RsmC in complex with cofactor and substrate guanosine. **J. Biol. Chem.** 283, 26548-26556 (2008).
25. Li H & **Jogl G***; Structural and biochemical studies of TIGAR (*TP53*-Induced Glycolysis and Apoptosis Regulator). **J. Biol. Chem.** 284, 1748-1754 (2009).
26. Demirci H, Belardinelli R, Seri E, Gregory ST, Gualerzi C, Dahlberg AE, **Jogl G***; Structural rearrangements in the active site of the *Thermus thermophilus* 16S rRNA methyltransferase KsgA in a binary complex with 5'-methylthioadenosine. **J. Mol. Biol.** 388, 271-282 (2009).
27. Gregory ST, Demirci H, Belardinelli R, Monshupanee T, Gualerzi C, Dahlberg AE, **Jogl G***; Structural and functional studies of the *Thermus thermophilus* 16S rRNA methyltransferase RsmG. **RNA** 15, 1693-1704 (2009).
28. Demirci H, Larsen HGL, Hansen T, Rasmussen A, Cadambi A, Gregory S, Kirpekar F*, **Jogl G***; Multi-site specific 16S rRNA methyltransferase RsmF from *Thermus thermophilus*. **RNA** 16, 1584-1596 (2010).
29. Demirci H, Murphy IV FV, Belardinelli R, Kelley AC, Ramakrishnan V, Gregory ST, Dahlberg AE, **Jogl G***; Modification of 16S ribosomal RNA by the KsgA methyltransferase restructures the 30S subunit to optimize ribosome function. **RNA** 16, 2319-2324 (2010).
30. **Jogl G**, Wang X, Mason SA, Kovalevsky A, Mustyakimov M, Fisher Z, Hoffman C, Kratky C, Langan P; High-resolution neutron crystallographic studies of the hydration of the coenzyme cob(II)alamin. **Acta Cryst. D** 67, 584-591 (2011).

31. Larsen LH, Rasmussen A, Giessing AM, **Jogl G***, Kirpekar F*; Identification and characterization of the *Thermus thermophilus* m5C methyltransferase modifying 23S rRNA base C1942. **J. Biol. Chem.** 287, 27593-27600 (2012).
32. Li H and **Jogl G***; Crystal structure of decaprenylphosphoryl- β -D-ribose 2'-epimerase from *Mycobacterium smegmatis*. **Proteins**, 81(3), 538-543 (2013).
33. Demirci H, Murphy IV FM, Murphy E, Gregory S, Dahlberg AE, **Jogl G***; A structural basis for streptomycin-induced misreading of the genetic code. **Nature Comms.** 4, 1355 (2013).
34. Demirci H*, Sierra R, Laksmono H, Shoeman RL, Botha S, Barends TRM, Nass K, Schlichting I, Doak RB, Gati C, Williams GJ, Boutet S, Messerschmidt M, **Jogl G**, Dahlberg AE, Gregory ST, Bogan MJ; Serial femtosecond X-ray diffraction of 30S ribosomal subunit microcrystals in liquid suspension at ambient temperature using an X-ray free electron laser. **Acta Cryst. F** 69, 1066-9 (2013).
35. Demirci H, Wang L, Murphy IV FV, Murphy EL, Carr JF, Blanchard SC, **Jogl G**, Dahlberg AE, Gregory ST*; The central role of protein S12 in organizing the structure of the decoding site of the ribosome. **RNA** 19(12), 1791-801 (2013).
36. Demirci, H, Murphy IV FV, Murphy EL, Connetti JL, Dahlberg AE, **Jogl G**, Gregory ST*; A structural analysis of base substitutions in *Thermus thermophilus* 16S ribosomal RNA conferring streptomycin resistance. **Antimicrob. Agents Chemotherapy** 58(8), 4308-17 (2014).
37. Gregory ST*, Connetti JL, Carr JF, **Jogl G**, Dahlberg AE; Phenotypic interactions among mutations in a *Thermus thermophilus* 16S rRNA gene detected with genetic selections and experimental evolution. **J. Bact.** 196(21), 3776-83 (2014).

* indicates corresponding author(s)

Non-refereed journal articles

1. **Jogl G**, Hsiao Y, Tong L; Structure and function of carnitine acyltransferases. **Ann. N.Y. Acad. Sci.** 1033, 17-29 (2004).

Chapters in books

1. Gruber G, **Jogl G**, Klintschar G, Kratky C; High-resolution crystal structures of cobalamins. In: Vitamin B₁₂ and B₁₂-Proteins (Kräutler B, Arigoni D, Golding BT eds.) Wiley-Vch: Weinheim, 335-347 (1998).
2. Gregory TS, Demirci H, Carr JF, Belardinelli R, Thompson JR, Cameron D, Rodriguez-Correa D, Murphy F, Ramakrishnan V, **Jogl G**, Dahlberg AE. Genetic and crystallographic approaches to investigating ribosome structure and function. In: Ribosomes: Structure, Function and Dynamics (Green R, Wintermeyer W, Rodnina M eds.) Springer Wien-New York, p 57-69. ISBN: 978-3-7091-0214-5 (2011).

Abstracts

Presented by GJ:

- Jogl G and Holmes W; Crystal structure of inositol polyphosphate multikinase 2 with substrate kinetic analysis. American Crystallographic Association National Meeting 2007, Salt Lake City.
- Jogl G, Demirci H, Belardinelli R, Seri E, Gregory ST and Dahlberg AE; Structure of the *Thermus thermophilus* rRNA methyltransferase KsgA. Experimental Biology 2009 (ASBMB annual meeting) New Orleans, April 2009.
- Jogl G, Demirci H, Belardinelli R, Seri E, Gregory ST, Gualerzi C, Dahlberg AE; Structure and function of rRNA methyltransferases. Nucleic Acids Gordon Research Conference, Biddeford, ME, 2009.
- Jogl G, Demirci H, Belardinelli R, Seri E, Gregory ST, Gualerzi C, Dahlberg AE; Structure and function of rRNA methyltransferases. VIII European Symposium of the Protein Society, Zürich, Switzerland, 2009.
- Jogl G, Demirci H, Gregory ST, Murphy F, Kelley AC, Ramakrishnan V, Dahlberg AE; Structural Dynamics of the *Thermus thermophilus* 30S ribosomal subunit induced by a streptomycin-dependence mutation in 16S rRNA. 23rd Symposium of the Protein Society, Boston, MA, 2009.
- Jogl G, Demirci H, Murphy F, Belardinelli R, Kelley AC, Ramakrishnan V, Gregory ST, Dahlberg AE; The impact of 16S rRNA methylation by KsgA on the structure of the 30S ribosomal subunit. 2010 Ribosome Meeting, Orvieto, Italy.
- Jogl G, Demirci H, Murphy F, Belardinelli R, Kelley AC, Ramakrishnan V, Gregory ST, Dahlberg AE; Impact of conserved 16S rRNA methylation by KsgA on the structure of the 30S ribosomal subunit. American Crystallographic Association National Meeting 2010, Chicago.
- Connetti JL, Murphy L, Dahlberg AE, Gregory ST, Jogl G; X-ray crystal structure of a 30S ribosomal subunit lacking ribosomal protein S17. 2013 Ribosome Meeting, Napa Valley, CA.

Presented by members of the laboratory:

- Demirci H, Gregory ST, Thompson J, Jogl G and Dahlberg AE; Structural Studies on *Thermus thermophilus* L11 methyltransferase (PrmA) methylation of ribosomal protein L11. Annual East Coast Ribosome Meeting, University of Massachusetts Amherst, MA, June 2005.
- Demirci H, Gregory ST, Jogl G and Dahlberg AE; Structural and Biochemical Studies on *Thermus thermophilus* L11 methyltransferase (PrmA) methylation of ribosomal protein L11. "Ribosomes: form and function" North Falmouth, MA, June 2007.
- Demirci H, Gregory S, Dahlberg AE, Jogl G; Structure based protein engineering of ribosomal protein trimethyltransferase PrmA. American Crystallographic Association National Meeting 2007, Salt Lake City. (This poster received the best student poster award from the Protein Data Base)
- Li H and Jogl G; Crystal structure of the zinc-binding transport protein ZnuA from *Escherichia coli* reveals an unexpected variation in metal coordination. American Crystallographic Association National Meeting 2007, Salt Lake City.
- Li H and Jogl G; Crystal structure of ZnuA from *E. coli* reveals an unexpected variation in metal coordination. The 4th Annual North Eastern Structure Symposium. Storrs, CT, October 2007.
- Li H and Jogl G; Crystal structure of TIGAR and implications in tumor cell metabolism regulation. Rhode Island Research Alliance Symposium, Providence, RI, June 2008.

- Li H and Jogl G; Crystal structure of a TIGAR homolog from *Danio rerio* and implications for cancer metabolism. The 22nd Symposium of the Protein Society. San Diego, CA, July 2008.
- Demirci H, Gregory ST, Dahlberg AE and Jogl G; Recognition and catalysis of ribosomal protein L11 by the protein trimethyltransferase PrmA. XXI Congress and General Assembly of the International Union of Crystallography, Osaka, Japan, August 2008.
- Li H and Jogl G; The crystal structure of Atg8 from *S. cerevisiae*. 23rd Symposium of the Protein Society, Boston, MA, 2009.
- Demirci H, Gregory ST, Murphy F, Kelley AC, Jogl G, Ramakrishnan V, Dahlberg AE; Structural dynamics of the *Thermus thermophilus* 30S ribosomal subunit: a new crystal form induced by a streptomycin-dependence mutation in 16S rRNA. Ribosomes Conference 2010, Orvieto, Italy.
- Li H and Jogl G; Crystal structure of decaprenylphosphoryl- β -D-ribose 2'-epimerase from *Mycobacterium smegmatis*. American Crystallographic Association National Meeting 2013, Hawaii.
- Demirci H, Sierra RG, Laksmono H, Shoeman R, Botha S, Barends T, Deponte DD, Boutet S, Messerschmidt M, Jogl G, Dahlberg AE, Gregory ST, Bogan MJ; Serial femto-second X-ray diffraction of 30S ribosomal subunit microcrystals in liquid suspension at ambient temperature using an X-ray free electron laser. Ribosomes Conference 2013, Napa Valley, CA.

Invited Lectures

- 2003 Lerner Research Institute, Cleveland Clinic
Department of Molecular Cardiology/Molecular Biology
- 2004 Brown University
Department of Molecular Biology, Cell Biology and Biochemistry
Boston Biomedical Research Institute, Boston, MA
Virginia Polytechnic Institute, Blacksburg, VA
- 2005 Brown University
Department of Molecular Biology, Cell Biology and Biochemistry
- 2007 Pfizer Global Research and Development, Groton, CT.
- 2009 Columbia University, New York.
Department of Biochemistry and Molecular Biophysics
Innsbruck Medical University, Austria.
Division of Genomics and RNomics
University of Southern Denmark, Denmark.
Department of Biochemistry and Molecular Biology
University of Camerino, Italy.
Department of Biology
Polytechnic University of Ancona, Italy.
Facolta di Scienze
Graz University of Technology, Graz, Austria
Plenary lecture, DocDay – NAWI Graz Doctoral School Molecular Biosciences and Biotechnology.
University of Illinois, Chicago.
Center for Pharmaceutical Biotechnology
- 2010 University of Massachusetts, Dartmouth
Department of Biology
- 2011 IGBMC/University of Strasbourg, France

Columbia University, New York
 Department of Chemistry
 Rhode Island College, Providence
 BioNES Meeting, Roger Williams University, RI
 2013 University of Wisconsin - Madison

Papers Read

- 2003 Jogl G and Tong L. Crystal structure of carnitine acetyltransferase and implications for fatty acid transport. American Crystallographic Association, National Meeting 2003.
- 2007 Jogl G, Gregory ST, Dahlberg AE, Demirci H. Recognition and Catalysis of Ribosomal Protein L11 by the Protein Methyltransferase PrmA. American Crystallographic Association, National Meeting 2007.
- 2009 Demirci H, Gregory ST, Belardinelli R, Gualerzi C, Dahlberg AE, Jogl G. Structure and function of ribosomal RNA methyltransferases. Annual Meeting of the RNA Society, Madison, Wisconsin, 2009.

Research Grants

Current Grants

1R01GM094157-03 (MPI: Jogl G and Gregory ST) 09/01/10 – 08/31/15
 NIH \$ 181,517 direct costs FY13
 Structural robustness of ribosome functional centers.
 Role: Co-PI [contact author of this multi-PI proposal with Steven Gregory, Assistant Professor (Research), Brown University].

Completed grants

P20 RR15578 (PI: Atwood, W.J.) 07/01/05 – 02/28/10
 NIH/NCRR \$ 1,569,519 total costs
 Center for Cancer Signaling Networks
 Role: Lead Investigator of a subproject: Structural studies of phosphoinositol kinase related protein kinases.

Brown University 01/2008 – 12/2008
 Richard B. Salomon Faculty Research Award \$ 15,000
 Structural biology of the human Sir2 homolog, Sirt6, in complex with the Gcip tumor suppressor.
 Role: PI

Brown University Seed Funds Award 02/01/2006 – 01/31/2007
 Structural biology and function of macromolecular complexes \$ 53,074
 Role: Co-PI (with Rebecca Page)

Rhode Island Foundation Medical Research Grant 01/01/2006 – 12/31/2006
 X-ray structure determination of inositol phosphate multikinase Ipk2 \$10,000
 Role: PI

Service

Service to the University

MCB Curriculum Committee 2014 - present
Laboratories of Molecular Medicine Operations Committee, 2005 - present
Biochemistry Concentration Advisor, 2009 – present
First-Year Advisor, 2009 – present
Sophomore Advisor, 2009 - present

MCB Graduate Program Admissions Committee, 2005/2006
MCB Faculty Executive Committee, 2006/2007
MCB Curriculum Committee, 2007/2008
MCB Faculty Executive Committee, 2008/2009
MCB Curriculum Committee, 2009-2011
MCB Structural Biology Faculty Search Committee 2012/2013
MCB Graduate Program Admissions Committee 2012/2013
Member TEAM (Team Enhanced Advising and Mentoring), 2012/2013
MCB Space Committee 2013/2014

Service to the Profession

Member, American Crystallographic Association
Member, American Society for Biochemistry and Molecular Biology
Member, American Association for the Advancement of Sciences
Member, RNA Society

Academic Honors

1994 M. Sc. Thesis Award of the Austrian Chemical Society.

Teaching

Courses

Fall 2008

BIOL0221 Current Topics in Biochemistry and Molecular Biology: Molecular Mechanisms in Signal Transduction (with A. Salomon)

Spring 2009

BIOL0280 Introductory Biochemistry (with A. Salomon)

Spring 2010

BIOL0280: Introductory Biochemistry (with A. Salomon)

Spring 2011

BIOL0280: Introductory Biochemistry (with A. Salomon)

BIOL2200A: Molecular Biology and Chemistry (with R. Page)

Fall 2011

BIOL2200D: Current Topics in Biochemistry: Epigenetics, Chromatin, and Transcription (with E. Larschan)

Fall 2012

BIOL1270/2270: Advanced Biochemistry (with Alex Brodsky and Al Dahlberg)

BIOL1270 S02: Advanced Biochemistry (Pfizer-Brown graduate program)

Spring 2013

BIOL0280: Introductory Biochemistry

Fall 2013

BIOL2030: Foundations for Advanced Study in Experimental Biology

Spring 2014

BIOL2000D: Current Topics in MCDB, Antibiotics, antibiotic resistance and ribosome function (with Susan Gerbi).

Guest Lectures

Spring 2008

PH2620: Special Topics Physics

Fall 2008

BIOL0201A: Introduction to MCB Graduate Program Faculty Research

Spring 2013

BIOL1200: Protein Biophysics and Structure

Spring 2014

BIOL1200: Protein Biophysics and Structure

Fall 2014

BIOL1300: Biomolecular Interactions: Health, Disease and Drug Design

External Guest Lectures

Spring 2012, 2013 & 2014

RapiData Collection & Structure Solving, a practical course in macromolecular X-ray diffraction measurement. Brookhaven National Laboratory, Upton, NY. Guest lecture and intensive day-long tutorials in crystallographic data processing with the XDS software package.

Brown University First Readings Seminars

Fall 2007 Alain de Botton, How Proust can Change your Life

Fall 2008 Rory Stewart, The Places in Between

Fall 2009 Jonathan Weiner, The Beak of the Finch

Fall 2010 Edwidge Danticat, *The Dew Breaker*
Fall 2011 Leslie T. Chang, *Factory Girls*
Fall 2012 Charles Rappleye, *Sons of Providence*
Fall 2013 Eyal Press, *Beautiful Souls*
Fall 2014 Oil and Water

Undergraduate Independent Study

Fall 2005
Jonathan Herman (BIOL0195), Devina Swarup (BIOL0195)

Spring 2006
Jonathan Herman (BIOL0196), Devina Swarup (BIOL0196)

Fall 2006
Megha Katti

Spring 2007
Megha Katti, Siqing He,

Fall 2007
Megha Katti (BIOL0195), Siqing He (BIOL0195), Holly Careskey (BIOL0195)

Spring 2008
Megha Katti (BIOL0196), Siqing He (BIOL0196), Holly Careskey (BIOL0196), Ashwin Cadambi

Fall 2008
Ashwin Cadambi (BIOL0195), SeanMcGeary (BIOL0195), Rohan Keshwara (BIOL0195), Kevin Huang

Spring 2009
Ashwin Cadambi (BIOL0196), SeanMcGeary (BIOL0196), Rohan Keshwara (BIOL0196), Kevin Huang

Fall 2009
Kevin Huang, Ayoosh Pareek

Spring 2010
Kevin Huang

Fall 2010
Kevin Huang (BIOL0195), Timothy Eisen (BIOL0195), Faiz Jiwani

Spring 2011
Kevin Huang (BIOL0196), Timothy Eisen (BIOL0196)

Fall 2012
Tae Ho Rho (BIOL0195), Sha Sha

Spring 2013

Tae Ho Rho (BIOL0196), Sha Sha, Mamadou Diallo

Fall 2013

Darish Hyunh (BIOL0195), Matthew Gasteiger, Mamadou Diallo

Spring 2014

Darish Hyunh (BIOL0196), Matthew Gasteiger (BIOL0196), Mamadou Diallo, David Perry

Fall 2014

Matthew Gasteiger (BIOL0195), Mamadou Diallo (BIOL0195), Michael Ayele (BIOL0195), Cecilia Berriz (BIOL0195), Jessica Yu

Brown Undergraduate Teaching and Research Assistant Awards

Devina Swarup (2005)

Research project: Furin-like prohormone convertase from *Giardia lamblia*

Siqing He (2007)

Research project: Purification and crystallization of the metal-free ZnuA zinc-transport protein.

Kevin Huang (2010)

Research project: The interaction between nucleolar RNA methyltransferase NSun2 and microtubule-stabilizing protein NuSAP during mitotic spindle assembly.

Matthew Gasteiger (2014)

Research project: Crystallization of yeast ribosomes.

David Perry (2014)

Research project: Crystallization of 50S ribosomal subunits from *M. smegmatis*.

Undergraduate Honors Theses

2008

Holly Careskey Sc.B. Biochemistry

Megha Katti Sc.B. Biology

Siqing He Sc.B. Biology, Siqing was awarded a Class of 2008 Senior Prize in Biology for her thesis.

2009

Ashwin Cadambi Sc.B. Computational Biology

Sean McGeary Sc.B. Biophysics

2011

Kevin Huang Sc.B. Biology

Timothy Eisen Sc.B. Chemistry

Ph.D. Theses

Hasan Demirci (MCB)

2003 – 2007, “Structure determination of the *Thermus thermophilus* protein methyltransferase A in complex with its substrate ribosomal protein L11”

Hua Li (MCB)

Prior degree: M.Sc. Northeastern University

2004 – 2009, “Structural and biochemical studies of TIGAR and ZnuA”

Academic Advising

Trainer for the MCB and MPPB graduate programs.