

## **Curriculum Vitae**

### **Dr. Wenshe Liu**

**Assistant Professor of Chemistry**

**Member of Professional Program in Biotechnology**

**Member of Interdisciplinary Faculty of Toxicology**

**Tel:** 001-979-845-1746  
**E-mail:** [wliu@chem.tamu.edu](mailto:wliu@chem.tamu.edu)

**Department of Chemistry  
Texas A&M University  
MS 3255  
College Station, TX 77843**

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<b><u>Education:</u></b>	Scripps Research Institute, La Jolla, CA	2005-2007	Postdoc in Chemical Biology
	University of California, Davis, CA	2000-2005	Ph.D. in Biological Chemistry
	Beijing University, Beijing, China	1996-2000	B.S. in Chemistry

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<b><u>Awards and Honors:</u></b>	2012-2017	NSF CAREER Award
	2004	UCDavis Summer Research Award
	2003	UCDavis Travel Award
	2000-2004	UC Systemwide Biotechnology Research Training Fellow
	1999-2000	Outstanding Student Leader Award
	1998-1999	Canon Undergraduate Award
	1997-1998	Huikai Undergraduate Award
	1996-2000	Geru Zen Fellow

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<b><u>Professional Affiliations:</u></b>	2003-current	American Chemical Society
	2007-current	Chinese-American Chemistry Professor Association

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## **Research**

<b><u>Research Experience:</u></b>	<b><u>Texas A&amp;M University</u></b>	<b>08/2007 – current</b>
	<b>Position:</b>	Assistant Professor of Chemistry
	<b>Research focus:</b>	
		1) Develop chemical and biological tools for the synthesis of proteins with posttranslational modifications and apply these tools to studying epigenetic roles of posttranslational modifications in cell differentiation and cancer development;
		2) Use bacteria and bacteria phage to construct peptide-small molecule conjugate libraries for anti-cancer drug identifications;
		3) Devise simple strategies for fluorescent protein labeling and apply them to understanding protein folding diseases and developing biosensors.
	<b><u>Scripps Research Institute</u></b>	<b>07/2005 – 07/2007</b>
	<b>Position:</b>	Postdoctoral Researcher
	<b>Advisor:</b>	Dr. Peter G. Schultz
	<b>Research focus:</b>	
		1) Genetic code expansion of mammalian cells for site-specific installation of unnatural amino acids in their proteins;

2) Structurally characterize evolved tyrosyl-tRNA synthetases that were used for genetic incorporation of unnatural amino acids in bacteria and yeast.

**University of California-Davis**

**09/2000 - 06/2005**

**Position:** Graduate Researcher

**Advisor:** Dr. Michael D. Toney

**Research focus:**

Structurally and mechanistically characterize pyridoxyl-5'-phosphate dependent enzymes.

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**Peer Reviewed Publications:**

*As an independent principal investigator*

1. Wang Y.-S., Fang X., Chen H.-Y., Wu B., Wang Z.U., Hilty C.B., & Liu W.R.\*, "Genetically Encoding Twelve *meta*-Substituted Phenylalanine Derivatives with Diverse Bioorthogonal Functionalities Using a Single Pyrrolysyl-tRNA Synthetase Mutant", *ACS Chem. Biol.*, submitted.
2. Odoi K.A., Huang Y., Rezenom Y.H. & Liu W.R.\*, "Orthogonality of the Pyrrolysyl-tRNA Synthetase-tRNA<sup>Pyl</sup> pairs in *Escherichia coli*", *PLOS One*, submitted
3. O'Donoghue P, Prat L., Heinemann I., Ling J., Odoi K.A., Liu W.R.\* & Soll D.\*, "Near-cognate Suppression of Amber, Opal, and Quadruplet Codons Compete with Aminoacyl-tRNA<sup>Pyl</sup> for Genetic Code Expansion", *FEBS Lett.*, **2012**, in press (\*co-corresponding authors).
4. Wan W, Wang Y.-S., & Liu W.R.\*, "Genetically Encoding Bioorthogonal Functional Groups for Site-selective Protein Labeling", *Organic Chem. Curr. Res.*, **2012**, 1:e111, DOI: 10.4172/2161-0401.1000e111
5. Wang Z.U., Wang Y.-S., Pai P.-J., Russell W.K., Russell D.H. & Liu W.R.\*, "A Facile Method to Synthesize Histones with Posttranslational Modification Mimics", *Biochemistry*, **2012**, 51:5232-5234.
6. Wu B., Wang Z., Huang Y. & Liu W.R.\*, "Catalyst-Free and Site-Specific One-Pot Dual Labeling of a Protein Directed by Two Genetically Incorporated Noncanonical Amino Acids", *ChemBioChem*, **2012**, 13: 1405-1408.
7. Wang Y.-S., Fang X., Wallace A.L., Wu B. & Liu W.R.\*, "A Rationally Designed Pyrrolysyl-tRNA Synthetase Mutant Has a Broad Substrate Specificity", *J. Am. Chem. Soc.*, **2012**, 134: 2950-2953.
8. Weinert B.T., Wagner S.A., Horn H., Henriksen P., Liu W.R., Olsen J.V., Jensen L.J. & Choudhary C.\*, "Proteome-wide Mapping of the Drosophila Acetylome Demonstrates a High Degree of Conservation of Lysine Acetylation", *Sci. Signal*, **2011**, 4: ra48.
9. Wang Y.-S., Russell W.K., Wang Z., Wan W., Dodd L.E., Pai P.-J., Russell D.H., & Liu W.R.\*, "The *De Novo* Engineering of Pyrrolysyl-tRNA Synthetase for Genetic Incorporation of L-phenylalanine and Its Derivatives", *Mol. BioSyst.*, **2011**, 7: 714-717.
10. Liu W.R.\*, Wang Y.-S. & Wan W., "Synthesis of Proteins with Defined Posttranslational Modifications Using the Genetic Noncanonical Amino Acid Incorporation Approach", *Mol. BioSyst.*, **2011**, 7: 38-47.
11. Wang Y.-H., Wu B., Wang Z., Huang Y., Wan W., Russell W.K., Pai P.-J., Russell D.H. & Liu W.R.\*, "Genetic Incorporation of A Photocaged *N*<sup>ε</sup>-methyl-L-lysine into Proteins" *Mol. Biosyst.*, **2010**, 6: 1557-1560. This was an invited submission and featured on *Molecular BioSystems 2010 Emerging Investigators Issue*.

12. Wan W., Huang Y., Wang Z., Russell W.K., Pai P.-J., Russell D.H. & Liu W.R.\* , "A Facile System for Genetic Incorporation of Two Different Noncanonical Amino Acids into One Protein in *Escherichia coli*", *Angew. Chem. Int. Ed.*, **2010**, 49: 3211-3214. Chosen as a "**Hot Paper**" by the Editors for its importance in a rapidly evolving field of high current interest and announced in the journal's press release.
13. Huang Y., Russell W.K., Wan W., Pai P.-J., Russell D.H. & Liu W.\* , "A convenient Method for Genetic Incorporation of Multiple Noncanonical Amino Acids into One Protein in *Escherichia coli*". *Mol. BioSyst.* **2010**, 6: 683-686.
14. Huang Y., Wan W., Russell W.K., Pai P.-J., Wang Z., Russell D.H. & Liu W.\* , "Genetic Incorporation of An Aliphatic Keto-containing Amino Acid into Proteins for Their Site-specific Modificaiton". *Bioorg. Med. Chem. Lett.* **2010**, 3: 878-880

*Before becoming an independent investigator*

15. Brustad E., Bushey M.L., Lee J.W., Groff D., Liu W. & Schultz P.G.\* "A Genetically Encoded Boronate Containing Amino Acid" *Angew. Chem. Int. Ed. Engl.*, **2008**, 47: 8220-8223
16. Graziano, J.J., Liu, W., Perera R., Geierstanger, B.H., Lesley, S.A., & Schultz, P.G. "Selecting Folded Proteins from a Library of Secondary Structural Elements", *J. Am. Chem. Soc.*, **2008**, 130: 176-185
17. Tippmann, E.M.<sup>+</sup>, Liu, W.<sup>+</sup>, Summerer, D., Geierstanger, B., Mack, A.V., & Schultz, P.G.\* , "A Genetic Encoded Diazirine Photocrosslinker in *Escherichia coli*", *ChemBioChem*, **2007**, 8: 2210-2214 (\*equally contributing authors)
18. Liu C.C., Braustad E., Liu W.\* & Schultz P.G.\* , "Crystal Structure of a Biosynthetic Sulfo-hirudin Complexed with Thrombin", *J. Am. Chem. Soc.*, **2007**, 129: 10648-10649 (\*corresponding authors in this paper)
19. Liu, W., Brock, A., Chen, S., Chen, S. & Schultz P.G.\* , "The Genetic Incorporation of Unnatural Amino Acids into Proteins in Mammalian Cells", *Nat. Methods.* **2007**, 4: 239-44
20. Xie, J., Liu, W., & Schultz, P.G.\* "A Genetic Encoded Bidentate, Metal Ion Binding Amino Acid", *Angew. Chem. Int. Ed.*, **2007**, 46: 9239-9242,
21. Liu, W., Alfonta, L., Mack, A.V. & Schultz, P.G.\* "Structural Basis for the Recognition of p-Benzoyl-L-phenylalanyl by Evolved Aminoacyl-tRNA Synthetases", *Angew. Chem. Int. Ed.*, **2007**, 46: 6073-6075,
22. Liu, W., Peterson, P.E., Langston, J.A., Jin, X., Zhou, X., Fisher, A.J. & Toney, M.D.\* "Kinetic and Crystallographic Analysis of Active Site Mutants of *Escherichia coli*  $\gamma$ -Aminobutyrate Aminotransferase", *Biochemistry* **2005**, 44: 2982-92,
23. Fogle, E.J., Liu, W., Keller, J. & Toney, M.D.\* "Role of Q52 in the Decarboxylation and Transamination of Dialkylglycine Decarboxylase", *Biochemistry* **2005**, 44: 16392-404,
24. Liu W., Peterson P.E., Carter R.J., Zhou X., Langston J.A., Fisher A.J. & Toney M.D. Crystal Structures of Unbound and Aminooxyacetate-bound *Escherichia coli*  $\gamma$ -Aminobutyrate Aminotransferase. *Biochemistry* **2004**, 43: 10896-905
25. Liu W. & Toney M.D. "Kinetic and thermodynamic analysis of the interaction of cations with dialkylglycine decarboxylase", *Biochemistry* **2004**, 43: 4998-5010
26. Liu W., Rogers C.J., Fisher A.J. & Toney M.D. "Aminophosphonate inhibitors of dialkylglycine decarboxylase: Structural basis for slow binding inhibition", *Biochemistry* **2002**, 41: 12320-28

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**Patent Applications:**

1. Liu W., "Incorporation of Two Different Noncanonical Amino Acids into A Single Protein", U.S. Application No. 61/467,728
  2. Liu W. & Huang Y., "Methods, Cells, and Systems for Incorporating Noncanonical Amino Acids into Proteins", U.S. Application No. 2011-438743P
  3. Liu W. & Schultz P.G., "Genetic Incorporation of Unnatural Amino Acids into Proteins in Mammalian Cells", U.S. Application No. 12/311,545
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**Invited Seminars:**

1. Department of Biochemistry, Michigan State University, 02/21/2013 (scheduled)
2. Department of Chemistry, North Carolina State University, 01/16/2013 (scheduled)
3. Department of Chemistry, Duke University, 01/15/2013 (scheduled)
4. Department of Chemistry, Princeton University, 11/05/2012 (scheduled)
5. Department of Chemistry, University of Illinois at Urbana Champaign, 10/15/2012
6. Department of Chemistry, University of California-Irvine, 09/28/2012
7. Department of Chemistry, University of Utah, 09/06/2012
8. Department of Chemistry, University of California-Berkeley, 09/04/2012
9. Department of Chemistry, Baylor University, 08/24/2012
10. Department of Chemistry, Wuhan University, 07/25/2012
11. Department of Physics, Huazong University of Science and Technology, 07/24/2012
12. Department of Chemistry, Peking University, China, 06/16/2012
13. Department of Chemistry, University of Delaware, 05/02/2012
14. Department of Chemistry, University of South Carolina, 04/19/2012
15. Skaggs Institute of Chemical Biology, Scripps Research Institute, 04/17/2012
16. Department of Chemistry, University of New Mexico, 04/13/2012
17. Department of Chemistry, Cornell University, 04/09/2012
18. Department of Chemistry, Columbia University, 04/10/2012
19. Department of Chemistry, University of Chicago, 04/06/2012
20. School of Medicine, University of Miami, 03/20/2012
21. Department of Chemistry, Arizona State University, 03/09/2012
22. Department of Chemistry, Boston College, 02/14/2012
23. Department of Chemistry, Massachusetts Institute of Technology, 02/13/2012
24. Department of Chemistry, University of Nebraska-Lincoln, 02/03/2012
25. Department of Pharmacology, Johns Hopkins Medical School, 02/01/2012
26. Interdisciplinary Faculty of Toxicology, Texas A&M University, 01/23/2012
27. Department of Chemistry and Biochemistry, University of Texas-Austin, 01/20/2012
28. Department of Chemistry, Stanford University, 12/13/2011
29. Sutro Biopharma Inc., 12/12/2011

30. Department of Molecular and Cellular Oncology, University of Texas Anderson Cancer Center, 10/12/2011
  31. Department of Biochemistry, University of Texas Health Science Center at San Antonio, 09/30/2011
  32. Department of Molecular Biophysics and Biochemistry, Yale University, 09/07/2011
  33. School of Pharmacy, Wuhan University, 07/28/2011
  34. Department of Chemistry, Shandong University, 07/8/2011
  35. Department of Chemistry, University of California-Davis, 1/11/2011
  36. Institute of Organic Chemistry, Chinese Academy of Science, 06/01/2010
  37. Department of Biochemical Engineering, East China University of Science and Technology, 05/28/2010
  38. Department of Natural Sciences, Albany State University-Georgia, 10/21/2008
  39. Department of Chemistry, Beijing University, 01/11/2008
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### **Talks and Posters at Conferences and Meetings:**

*As an independent principle investigator*

(¶ from students)

1. Liu W.R., A Rationally Designed Pyrrolysyl-tRNA Synthetase Has a Broad Substrate Spectrum, Gordon Research Conference, Proctor Academy, NH, June 10-15, 2012
2. Tharp J.M., Wang Y.-S. & Liu W.R., Increasing Insulin Yield by Fusion with Superfolder Green Fluorescent Protein, Abstracts of Papers, 243<sup>rd</sup> ACS National Meeting & Exposition, San Diego, CA, United States, March 25-29, 2012, CHED-433¶
3. Odoi K.A. & Liu W.R., Alternative Codon Study for Genetic Code Expansion in *Escherichia coli*, Abstracts of Papers, 243<sup>rd</sup> ACS National Meeting & Exposition, San Diego, CA, United States, March 25-29, 2012, BIOL-135¶
4. Wang Y.-S. & Liu W.R., Tools to Study Posttranslational Lysine Modifications of Histone, Chemistry and Biology of Peptides, Gordon Research Conference, Ventura, CA, 02/19-24/2012
5. Wang Y.-S. & Liu W.R., Tools to Study Posttranslational Lysine Modifications of Histone, Chromatin: Structure and Function, Aruba, 12/05-08/2011
6. 67<sup>th</sup> Southwest Regional Meeting of the American Chemical Society, Austin, TX, 11/09-11/2011
7. Wang Y.-S. & Liu W.R., Genetic Encoding of Methyl- and Acetyl-lysine Analogs into Proteins, Abstracts of Papers, 242<sup>nd</sup> ACS National Meeting & Exposition, Denver, CO, United States, August 28-September 1, 2011 (2011), BIOL-116¶
8. Jacobs K.J., Wang Y.-S. & Liu W. "Probing the active site of alanine racemase by incorporation of non-canonical amino acids". Abstracts of Papers, 241<sup>st</sup> ACS National Meeting & Exposition, Anaheim, CA, United States, March 27-31, 2011 (2011), CHED-352¶
9. Huang Y., Wan W. & Liu W. "Facile system for genetic incorporation of two different noncanonical amino acids into one protein in *Escherichia coli*". Abstracts of Papers, 241<sup>st</sup> ACS National Meeting & Exposition, Anaheim, CA, United States, March 27-31, 2011 (2011), BIOL-51.¶
10. Huang Y. & Liu W.R., Site-specific Installation of Two Lysine Derivatives in Histone H3, Enzyme Mechanism Conference, St. Petersburg, FL, 01/02-06/2011

11. Wang Y.-S., Wu B. & Liu W. "Genetically encoded photocaged *N*-methyl-L-lysine". Abstracts of Papers, 240th ACS National Meeting, Boston, MA, United States, August 22-26, 2010 (2010), BIOL-156.¶
12. Dodd L.E., Wang Y.-S. & Liu W. "Site specific post-translational modifications of protein by expanding the genetic code: Protein methylation and structure enrichment". Abstracts of Papers, 239th ACS National Meeting, San Francisco, CA, United States, March 21-25, 2010 (2010), CHED-458.¶
13. Wan W., Huang Y. & Liu W.R., Genetic Incorporation of Two Different Noncanonical Amino Acids into One Protein, Challenges in Organic Chemistry and Chemical Biology (ISACS1), San Francisco, 07/06-09/2010
14. Wan W., Huang Y. & Liu W.R., Genetic Incorporation of Two Different Noncanonical Amino Acids into One Protein, Bioorganic Chemistry, Gordon Research Conference, Proctor Academy, 06/13-18/2010
15. Liu W.R., Engineering Pyrrolysyl-tRNA Synthetase for Genetic Code Expansion, The 3<sup>rd</sup> Texas Enzyme Conference, Austin, TX, 01/80-09/2010
16. Liu W.R., The Genetic Code Expansion, The 4<sup>th</sup> Sino-US Symposium on Organic Chemistry, Beijing, China, 06/12-13/2008 (oral)

*Before becoming an independent investigator*

17. Liu W., Peterson P.E., Langston J.A., Jin X., Zhou X., Fisher A.J. & Toney M.D. "Attempted Conversion from Aminotransferase to a Decarboxylase: structural, kinetic, and mutagenic studies of Escherichia coli  $\alpha$ -Aminobutyrate Aminotransferase". Abstracts, 39th Western Regional Meeting of the American Chemical Society, Sacramento, CA, United States, October 27-30 (2004), GEN-034.
18. Liu W. & Toney M. "Metal ion roles in control of dialkylglycine decarboxylase catalysis". Abstracts, 35th Central Regional Meeting of the American Chemical Society, Pittsburgh, PA, United States, October 19-22 (2003), 113.
19. Liu W. & Toney M. "Kinetic, thermodynamic, and crystallographic analysis of the interaction of cations with dialkylglycine decarboxylase". Abstracts of Papers, 227th ACS National Meeting, Anaheim, CA, United States, March 28-April 1, 2004 (2004), INOR-961.

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**Current Grants:**

Welch Research Grant A-1715 "Sensors for small molecules and enzymes" Principal investigator: Wenshe Liu, Ph.D.	\$150,000	06/01/2012-05/31/2014
NIH-1R01CA161158 "Phage display with two genetically incorporated noncanonical amino acids" Principle investigator: Wenshe Liu, Ph.D.	\$1,483,085	07/01/2011-04/30/2016
NSF CAREER Award CHE-1148684 "CAREER: Site-specific dual-labeling of a protein through two genetically incorporated noncanonical amino acids" Principle investigator: Wenshe Liu, Ph.D.	\$575,000	04/01/2012-03/31/2017
Research Grant from Suzhou Origen Biotech Inc. "Selective modification of insulin" Principle Investigator: Wenshe Liu, Ph.D.	\$40,000	03/01/2012-02/28/2013

National Institute of Health \$154,032 01/01/2013-12/31/2014  
 "Chemical/biochemical tools for studying novel protein acyl lysine modifications"  
 Principal investigator: Hening Lin, Ph.D. at Cornell University  
 Co PI: Wenshe Liu, Ph.D.

### Finished Grants:

Welch Research Grant A-1715                      \$150,000                      06/01/2009-05/30/2012  
 "Synthesis and evaluation of methyltransferase-mediated alkylating agents"  
 Principle investigator: Wenshe Liu, Ph.D.

## Teaching

### Teaching Experience:

**Texas A&M University**

08/2007 – current

Fall 2011

CHEM 228.503 – Organic Chemistry II (enrolment: 68)

CHEM 491.527 – Research (enrolment: 1)

CHEM 690.609 – Theory of Chemistry Research (enrolment: 5)

BIOT 685.604 – Directed Studies (enrolment: 1)

Summer 2011

CHEM 691 – Research (enrolment: 5)

Spring 2011

CHEM 630 – Bioorganic Chemistry (enrolment: 4)

CHEM 491.527 – Research (enrolment: 1)

CHEM 681.605 – Seminar (enrolment: 12)

CHEM 691.627 – Research (enrolment: 5)

Fall 2010

CHEM 627 – Principles of Biological Chemistry (enrolment: 19)

CHEM 691.627 – Research (enrolment: 5)

Summer 2010

CHEM 691.327 – Research (enrolment: 5)

Spring 2010

CHEM 689.603 – S. T. in Chemical Biology (enrolment: 6)

CHEM 691.627 – Research (enrolment: 5)

Fall 2009

CHEM 627 – Principles of Biological Chemistry (enrolment: 22)

CHEM 691.627 – Research (enrolment: 5)

Summer 2009

CHEM 691.327 – Research (enrolment: 4)

Spring 2009

CHEM 228 – Organic Chemistry II (enrolment: 39)

CHEM 691.627 – Research (enrolment: 4)

Fall 2008

CHEM 689.603 – S. T. in Chemical Biology (enrolment: 6)

CHEM 691.627 – Research (enrolment: 4)

CHEM 491.527 – Research (enrolment: 1)

Summer 2008

CHEM 691.327 – Research (enrolment: 2)

CHEM 491.327 – Research (enrolment: 2)

Spring 2008

CHEM 691.627 – Research (enrolment: 2)

CHEM 491.527 – Research (enrolment: 2)

Fall 2007

CHEM 689.603 – S. T. in Chemical Biology (enrolment: 6)

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#### **Postdoctoral Researchers Mentored as a Primary Advisor**

NAME	PROGRAM	DATE	Comments
Dr. Yang Wang	Chemistry	09/2007-08/2008	Left for Novartis
Dr. Zhiyong Wang	Chemistry	09/2008-02/2011	In a different group
Dr. Xuejuan Xin	Chemistry	07/2010-06/2011	Left for China
Dr. Yan An	Chemistry	09/2010-03/2011	Left for China
Dr. Yadagiri Kurra	Chemistry	07/2011-current	
Dr. Xinqiang Fang	Chemistry	09/2011-06/2012	Left for Cornell
Dr. Yu Zeng	Chemistry	10/2011-current	
Dr. Catrina Reed	Chemistry	09/2012-current	
Dr. Yanyan Yang	Chemistry	10/2012-current	

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#### **PhD Students Mentored as a Primary Advisor**

NAME	PROGRAM	DATE	COMMENTS
Ying Huang	Chemistry	10/2007-12/2011	Graduated
Yane-Shih Wang	Chemistry	10/2007-06/2012	Graduated
Sharmilee Kannan	Biochemistry	04/2008-09/2008	Left program
Bo Wu	Chemistry	10/2008-current	
Yan-Jiun Lee	Chemistry	10/2008-current	
Alfred Tuley	Chemistry	11/2011-current	
Xiaoyan Wang	Chemistry	10/2011-current	
Willie Hsu	Chemistry	01/2012-current	
Keturah Odoi	Chemistry	11/2009-current	

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#### **Master Students Mentored as a Primary Advisor**

NAME	PROGRAM	DATE	COMMENTS
Meghna Muralidhar	BIOT-non-thesis	06/2011-06/2012	Graduated

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#### **Membership in Other PhD Student Committees**

NAME	PROGRAM	Primary Advisor	COMMENTS
Bennie J. Bench	Chemistry	Coran Watanabe	Graduated
J. Dafhne Aquirre	Chemistry	Kim Dunbar	Graduated
Hillary Agbo	Chemistry	Coran Watanabe	Graduated
Nicholas G. Fox	Chemistry	David Barondeau	
Argentina Ornelas	Chemistry	Frank Raushel	Graduated
Alfredo Erazo-Oliveras	Biochemistry	Jean-Philippe Pellois	
Amanda David	Chemistry	Kim Dunbar	

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Halil Okur  
Rung-Yi Lai  
Anyanee Kamkaew  
Mavreen R. Tuvilla

Chemistry  
Chemistry  
Chemistry  
Chemistry

Paul Cremer  
Tadhg Begley  
Kevin Burgess  
David Russell

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### **Membership in Other Master Student Committees**

NAME	PROGRAM	Primary Advisor	COMMENTS
Sean C. Collin	Chemistry	Daniel Singleton	Graduated
Gunjot S. Rana	BIOT-non-thesis		Graduated
Meghna V. Krishna	BIOT-non-thesis		Graduated
Lan Jiang	BIOR-non-thesis		Graduated
Dilsher Dillon	BIOR-non-thesis		Graduated
Sarah Lane	Chemistry	Kim Dunbar	Graduated

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### **Undergraduate Students Mentored as a Primary Advisor**

NAME	PROGRAM	Dates
Clayton Mercer	Chemistry	09/2007-06/2008
Hiren Bhakta	Chemistry	09/2007-06/2008
John Oliver	Chemistry	09/2008-06/2010
Lindsey Dodd	REU Student	06/2009-08/2009
Yin-Moe	REU Student	06/2009-08/2009
Kimberly Jacobs	REU Student	06/2010-08/2010
Jeff Tharp	REU Student	06/2011-08/2011
Willie Hsu	Chemistry	01/2011-12/2011
Ashley Wallace	Chemistry	05/2011-09/2011
Josh Chen	Chemistry	05/2011-09/2011

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## **Professional Service**

### **Committee Membership:**

2007-current	Member, Undergraduate Student Award Committee
2007-2011	<i>Ad hoc</i> member, Graduate Student Recruiting Committee
2011-current	Member, Graduate Student Recruiting Committee
2009-current	Member, Professional Program in Biotechnology Recruiting Committee
2011-current	Member, Professional Program in Biotechnology Executive Committee
2012	Member, Department of Chemistry Self Study Committee

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### **Graduate Student Recruiting Visits:**

10/2008	Albany State University, Georgia
10/2011	SERMACS 2011, Richmond, VA

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### **Journal Article Review:**

*Angewandte Chemie, Journal of the American Chemical Society, FEBS Letters, Chemistry & Biology, Bioorganic & Medicinal Chemistry Letters, Applied Biochemistry & Biotechnology, ChemBioChem, Nutrition & Metabolism, Molecular Biosystems, Acta Biochimica et Biophysica Sinica, Biochemistry,*

*Genome Research, etc*

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**Grant Proposal Review:**

03/2011

Panelist, National Science Foundation

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**Verification Statement**

This CV is the most current and is correct as of today's date.

Signed \_\_\_\_\_ on Oct 19th, 2012

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