

CARTHENE R. BAZEMORE-WALKER
Winston-Salem State University
201 Blair Hall, 601 S. Martin Luther King Jr. Dr.
Winston-Salem, NC 27110
bazemorewalkercr@wssu.edu

EDUCATION

- 1997-1999 Postdoctoral Fellow, Massachusetts Institute of Technology, Cambridge, MA
Advisor: Professor Lawrence J. Stern
Topic: Design of MHC Class II Peptidomimetics
- 1993-1998 Ph.D. in Chemistry, University of Virginia, Charlottesville, VA
Advisor: Professor Donald F. Hunt
Dissertation Title: *Characterization of Adenylate Cyclase Toxin Plus Macrophage and Thymic Peptides by Mass Spectrometry*
- 1989-1993 B.S. *summa cum laude* in Chemistry, Norfolk State University, Norfolk, VA
Advisor: Professor George C. Grant
Senior Thesis Title: *Electrochemical Reactions of 3,4-Dihydroxybenzohydroxamic Acid and Its Methylated Derivatives Near Physiological pH*

CURRENT ACADEMIC APPOINTMENT

- 2013-present Director of Science Initiatives, Winston-Salem State University
2013-present Associate Professor of Chemistry, Winston-Salem State University
2013-present Adjunct Associate Professor of Chemistry, Brown University

PREVIOUS PROFESSIONAL APPOINTMENTS

- 2007-2013 Graduate Program Trainer in Molecular Biology, Cell Biology, and Biochemistry (MCB), Brown University
- 2006-2013 Assistant Professor of Chemistry; Graduate Program Trainer in Molecular Pharmacology and Physiology (MPP), Brown University
- 2005-2006 Assistant Professor of Chemistry, University of Virginia
- 2001-2005 Research Assistant Professor of Chemistry, University of Virginia (nontenure-track; not eligible for start-up funding, laboratory space, or graduate research assistance)
- 1999-2001 Assistant Professor of Chemistry, Norfolk State University, Norfolk VA (teaching position; responsible for 4 courses per semester)
- 1997-1999 Postdoctoral Fellow and Supervisor of Mass Spectrometry, Praecis

Pharmaceuticals Inc., Cambridge MA

ACADEMIC HONORS AND AWARDS

- 2010 Richard B. Salomon Faculty Research Award
2009-2011 NIH NIDA Early Career Award in Chemistry of Drug Abuse and Addiction
2007-2009 ADVANCE at Brown University Career Development Award
2000, 2001 American Society for Cell Biology Minority Affairs Committee Visiting Professorship Award (used at Virginia Commonwealth University, Richmond, VA)
1998 elected into Sigma Xi Scientific Research Society, MIT chapter
1993-1997 David and Lucile Packard Graduate Fellowship for Chemistry, Physics, and Math
1993-1996 University of Virginia Graduate Presidential Fellowship
1992 elected into Beta Kappa Chi National Scientific Honor Society, NSU chapter
1991 General Mills Research and Development Scholarship
1990 elected into Alpha Kappa Mu National Honor Society, NSU chapter
1989-1993 Norfolk State University Dozoretz National Institute for Mathematics and Applied Sciences Scholarship (full tuition, room, board, and supplies)

OTHER EXPERIENCE AND PROFESSIONAL MEMBERSHIPS

- 2013 Organizer and Chair of the “Glycoproteins and Glycans: New MS Approaches Session” at the 2013 American Society for Mass Spectrometry (ASMS) Conference
2013-present Member, *Analytical Chemistry* Features Advisory panel
2012 Co-chair and co-organizer of the contributed symposium “Biological Fluid/Tissue Proteomics: Advances and Challenges Oral Session” at the 2012 Pittcon Conference
2011-2016 Member, *Molecular & Cellular Proteomics* Editorial board
2011-2013 Member, ASMS Publications committee
2009 Reviewer, NIH CKD Biomarker Panel
2008 Reviewer, NSF Division of Chemistry REU Panel
2002 Organizer and Chair of the Immunology Session at the 2002 ASMS Conference
present Member of the American Chemical Society (ACS), the American Society for Mass Spectrometry (ASMS), the American Society for Biochemistry and Molecular Biology (ASBMB), and the US Human Proteome Organization (HUPO)

TEACHING

CHEM 0330: Equilibrium, Rate, and Structure

In this one-semester general chemistry course for undergraduates, students explore key concepts in chemistry (thermodynamics, equilibrium, chemical kinetics, quantum mechanics, molecular structure) through traditional lecture and interactive discussions. They also learn to utilize these chemical concepts to problem solve. The course is

designed to prepare them to recognize core chemical principles across disciplines and to empower their education by improving their learning skill set through academic enrichment workshops crafted by Professor Bazemore-Walker.

Enrollments: Spring 2013 - 175 students; Spring 2012 - 162 students; Spring 2011- 123 students; Fall 2009 - 115 students; Fall 2008 - 145 students; Fall 2007 - 85 students

CHEM 1560E: Biological Mass Spectrometry

This course surveys proteomic instrumentation, methods, and applications. A highlight of the course is the inclusion of departmental colloquia given by prominent mass spectrometrists. We explore the fundamentals of mass spectrometry through traditional lectures and interactive discussions. We then proceed to cover a series of topics relevant to protein and peptide analysis. The seminar concludes with student-led presentations that explore recent developments in instrumentation or biologically relevant applications of particular interest to the participants. Open to both undergraduate and graduate students.

Enrollments: Fall 2012 - 5 students; Fall 2011 - 5 students; Spring 2009 - 5 students; Spring 2008 - 9 students; Spring 2007 - 7 students

PHYS 2620E: Selected Topics in Biophysics (invited guest lecturer on mass spectrometry); Enrollments: Spring 2012 (~5 students); Spring 2008 (~15 students); Spring 2007 (~10 students)

RESEARCH ADVISING AND MENTORING

Current – Brown University

Graduate students

1. Yiying Zhu (2013 US HUPO Student Travel Award)

Alumni – Brown University

Graduate students

1. Dr. Yuan Cao (2010 ASMS Student Travel Award, 2008 Warren Workshop on Glycoconjugate Analysis Student Fellowship)
current position: Scientist, Adimab
2. Mr. Zhou Chen
current position: Research Assistant with MCB faculty at Brown University
3. Dr. Michael Ellisor (5-year NIST Graduate Fellowship, 2008 W.T. King Prize for Outstanding Performance as a Teaching Assistant)
current position: Research Chemist, NIST
4. Dr. Chao Gong (2010 ASMS Student Travel Award, 2010 W.T. King Prize for Outstanding Performance as a Teaching Assistant)
current position: Postdoctoral Fellow, Bristol-Myers Squibb
5. Dr. Hongbo Gu (ASMS 2008 Fall Workshop Student Travel Award)
current position: Scientist, Cell Signaling Technology
6. Dr. Chloe Poston (2011 NSF GK-12 STEM Fellowship, 2011 FASEB MARC/ASBMB Travel Award)
current position: Postdoctoral Fellow, Eli Lilly

7. Teresa Ramirez (2009 Ford Foundation Diversity Fellowship)
current position: Research Assistant in MPP graduate program

Undergraduate students

1. Anthony Bui '13 (2011 Undergraduate & Teaching Research Award or UTRA)
current position: Database coordinator at Massachusetts General Hospital
2. Ellen Duong '11 (Clapp Prize for Outstanding Thesis in Chemistry; 2010 UTRA)
current position: Research technician at the Ragon Institute of MGH, MIT and Harvard
3. Michael Hogan '11 (Clapp Prize for Outstanding Thesis in Biochemistry; 2009 & 2010 UTRA)
current position: Graduate student at UPenn Medical School
4. Damilola Idowu '14 (2012 UTRA)
current position: Brown University undergraduate
5. Helen Johnson '11 (2008 PLME Summer Research Assistantship)
current position: Medical student at Brown Medical School
6. Seth Levin '10 (2008 UTRA)
current position: Medical student at UMass Medical School
7. Kei Yamawaki '10 (2008 UTRA)
current position: Sr. Associate, Bain & Co.

Undergraduate lab volunteers (one semester)

1. Holly Careskey '08
2. Emily Ebert '09
3. Folashade Modupe '11
4. Yifan Zhang '15

Alumni – University of Virginia

Technical associates

1. Sylvia Cechova, Ph.D. (Research Associate), 2005 – 2006
2. Charles Lin (Research Technician), 2005 – 2006
3. Agnes Sabat (Research Technician), 2003 – 2005

Undergraduate students

1. Haitham Ahmed (Harrison Undergraduate Research Award), 2003 – 2005
2. Travis Hartberger (Harrison Undergraduate Research Award), 2005 – 2006
3. Yian Lee, 2005 – 2006
4. Charles Lin, 2003 – 2005
5. Mitra Mortazavi, 2006
6. Vicky Nguyen, 2002 – 2003
7. Vidhi Shah, 2005
8. Eric Voll, 2005 – 2006
9. Julie Young (Gannon University), summer 2005 UVa REU

PEER-REVIEWED PUBLICATIONS AND PATENTS (* indicates undergraduate author)

Refereed journal articles (* indicates undergraduate author)

1. Cao, Y. and **Bazemore-Walker, C. R.** "Proteomic Profiling of the Surface-exposed Cell Envelope Proteins of *Caulobacter crescentus*," J Proteomics, **2013**, accepted.
2. Leymarie, N., *et al.* including Zhu, Y., **Bazemore-Walker, C. R.** "Interlaboratory Study on Differential Analysis of Protein Glycosylation by Mass Spectrometry: the ABRF Glycoprotein Research Multi-Institutional Study 2012," Mol Cell Proteomics, **2013** Jun 18. [Epub ahead of print] PMID: 23764502
3. Poston, C. N. and **Bazemore-Walker, C. R.** "In-depth analysis of the mammalian mitochondria-associated membrane (MAM) proteome," J Proteomics, **2013**, 79:219-30. Epub 2013 Jan 8. PMID: 23313214
4. Chen, S., Lu, C., Gu, H., Mehta, A., Li, J., Romano, P., Horn, D., Hooper, D.C., **Bazemore-Walker, C. R.**, and Block, T. "Aleuria Aurantia Lectin (AAL)-reactive immunoglobulin G rapidly appears in sera of animals following antigen exposure," PLoS ONE **2012**, 7(9): e44422. doi:10.1371/journal.pone.0044422. PMID: 23024749
5. Cao, Y., *Johnson, H. M. and **Bazemore-Walker, C. R.** "Improved enrichment and proteomic identification of outer membrane proteins from a Gram-negative bacterium: Focus on *Caulobacter crescentus*," Proteomics, **2012**, 12(2):251-62. Epub 2011 Dec 19. PMID: 22106052
6. Poston, C. N., *Duong, E., Cao, Y. and **Bazemore-Walker, C. R.** "Proteomic Mapping of Lipid-raft Enriched Membranes Isolated from Internal Organelles," Biochem. Biophys. Res. Commun., **2011**, 415(2):355-60. Epub 2011 Oct 20. PMID: 22037461
7. Turner, T. T., Lysiak, J. L., Nguyen, Q. A. T. and **Bazemore-Walker, C. R.** "Testicular Torsion Alters the Presence of Specific Proteins in the Mouse Testis as Well as the Activation State of Others," J. Androl., **2006**, 27, 285-293. PMID: 16474026
8. Tubbs, C. E., Hall, J. C., Scott, R. O., *Clark, V. P., *Hermon, T. L., and **Bazemore-Walker, C. R.** "Binding of Protein D/E to the Surface of Rat Epididymal Sperm Before Ejaculation and After Deposition in the Female Reproductive Tract," J. Androl., **2002**, 23, 512-521. PMID: 12065458
9. Lim, K. B., **Bazemore-Walker, C. R.**, Guo, L., Pellett, S., Shabanowitz, J., Hunt, D. F., Hewlett, E. L., Ludwig, A., Goebel, W., Welch, R. A., and Hackett, M. "*Escherichia coli* alpha-Hemolysin (HlyA) is Heterogeneously Acylated *in vivo* with 14, 15 and 17 Carbon Fatty Acids," J. Biol. Chem., **2000**, 275, 36698-36702. PMID: 10978310
10. Hu, Q., **Bazemore-Walker, C. R.**, Girao, C., Sun, J., Shabanowitz, J., Hunt, D. F., and Ashton-Rickardt, P.G. "Specific Recognition of Thymic Self-Peptides Induces the Positive Selection of Cytotoxic T Lymphocytes," Immunity, **1997**, 7, 221-231. PMID: 9285407
11. Hackett, M., **Walker, C. B.**, Lin, G., Gray, M. C., Van Cuyk, S., Ullmann, A., Shabanowitz, J., Hunt, D. F., Hewlett, E. L., and Sebo, P. "Hemolytic, but Not Cell-Invasive Activity of Adenylate Cyclase Toxin is Selectively Affected by Differential Fatty-Acylation in *Escherichia coli*," J. Biol. Chem., **1995**, 270, 1-4. PMID: 7657593

Chapters in books

1. **Bazemore-Walker, C. R.**, Sherman, N., Shabanowitz, J., and Hunt, D. F. "Mass

Spectrometry in Immunology: Identification of a Minor Histocompatibility Antigen,” in Mass Spectrometry of Biological Materials: Second Edition, Revised and Expanded. B. Larsen and C. McEwen, Eds. New York, NY: Marcel Dekker, 1998.

2. Gulden, P. H., Hackett, M., Addona, T., Lin, G., **Walker, C. B.**, Sherman, N. E., Shabanowitz, J., Hewlett, E. L., and Hunt, D. F. “Mass Spectrometric Methods for Peptide Sequencing: Applications to Immunology and Protein Acylation,” in Mass Spectrometry in the Biological Sciences. A. L. Burlingame and S. A. Carr, Eds. Clifton, NJ: Humana, 1995:281-306.

Provisional patents

1. **Bazemore-Walker, C. R.** and Ellisor, M. B. “Capillary column with fritted tip.” U.S. provisional patent application no. 61/671, 393. Filed July 13, 2012.

Work in progress

1. Zhu, Y. and Bazemore-Walker, C. R. “Mass Spectrometry Characterization of Acrolein Protein Targets in the Liver: Focus on Site-Specific Analysis, *manuscript in preparation*”
2. Ellisor, M. B., *Hogan, M. J., Gong, C. and Bazemore-Walker, C. R. “A Statistically Validated Proteomic Platform for Reliable Label-free Quantification Using Spectral Counting,” *manuscript in preparation*”
3. Gong, C. and Bazemore-Walker, C. R. “A Comprehensive Map of the Human Microtubule Interactome,” *manuscript in preparation*”
4. Gong, C. and Bazemore-Walker, C. R. “Quantitative Proteomics Using Reductive Isotopic Diethylation and 2D RP-RP LC-MS/MS: Application to the Microtubule-associated Proteome,” *work (statistical analysis) in progress*”
5. Cao, Y. and Bazemore-Walker, C. R. “Deletion of the HfsA Exopolysaccharide Export Protein Changes the Composition of the Outer Membrane Proteome of *Caulobacter crescentus*” *work in progress*”

INVITED LECTURES & ORAL CONFERENCE PRESENTATIONS

Department of Chemistry, University of Massachusetts Amherst, Amherst, MA, October 2012

National Organization of Black Chemists and Chemical Engineers (NOBCCChE) 39th Annual Conference (Analytical Technical Oral Session – Invited Talk), Washington, DC, Sept 2012

Pittcon Conference and Expo (Biological Fluid/Tissue Proteomics: Advances and Challenges Oral Session – Co-organizer and Invited Talk), Orlando, FL, March 2012

Vascular Research Laboratory, Providence VA Medical Center, Providence, RI, Dec 2011

US HUPO Annual Conference (Protein Interactions Oral Session), Raleigh, NC, March 2011

Department of Chemistry, Wheaton College, Norton, MA, October 2010

Department of Chemistry, University of Connecticut, Storrs, CT, September 2010

Department of Biochemistry, Boston University School of Medicine, Boston, MA, January 2010

Eastern Analytical Symposium and Exposition (Bioanalysis of Proteins and Peptides Oral

Session), Somerset NJ, November 2009

Department of Chemistry, Williams College, Williamstown MA, September 2009

Department of Chemistry, Brown University, Providence RI, September 2009

3rd Caulobacter Meeting (Oral Session), MIT, Cambridge, MA, June 2009

NIH NIGMS Workshop: Enabling Technologies for Structural Biology (Protein-Protein Interactions and Complexes Oral Session), Bethesda MD, March 2009

Brown-MBL Fall Retreat, Marine Biological Laboratory, Woods Hole, MA, September 2008

American Chemical Society National Meeting & Exposition (New Techniques in Chemical Biology Oral Session), New Orleans LA, Spring 2008

Physical Sciences Department, Rhode Island College, Providence RI, November 2007

MCB Annual Retreat, Brown University, Providence, RI, August 2007

MCB Department, Brown University, Providence RI, April 2006

Department of Chemistry, Brown University, Providence RI, April 2006

Department of Chemistry HHMI Undergraduate Research Symposium Keynote Speaker, University of Richmond, Richmond VA, September 2005

Department of Chemistry, Duke University, Durham NC, January 2005

Department of Chemistry, University of Virginia, Charlottesville VA, December 2004

CONFERENCE ABSTRACTS & POSTER PRESENTATIONS

(* indicates undergraduate author)

- Zhu, Y. and Bazemore-Walker, C. R. “Mass Spectrometry Characterization of Acrolein Protein Targets in the Liver: Focus on Site-Specific Analysis.” Experimental Biology 2013 Proceedings; April 20-24, 2013.
- Zhu, Y. and Bazemore-Walker, C. R. “Mass Spectrometry Characterization of Acrolein Protein Targets in the Liver: Focus on Site-Specific Analysis,” Proceedings of the 9th Annual US HUPO Conference, Baltimore, MD; March 10-13, 2013.
- Bazemore-Walker, C. R. and Gong C. “Stable-isotope Diethyl Labeling Facilitates Quantitative Proteomics of Complex Mixtures Using RP/RP-MS/MS,” Proceedings of the World HUPO 11th Annual Congress, Boston, MA, Sept 9-13, 2012.
- Gu, H. and Bazemore-Walker, C. R. “Characterization of the Human Sigma-1 Receptor and Its Interactome Using Chemical Proteomics,” Proceedings of the Protein Society 25th Anniversary Symposium, Boston, MA, July 22-27, 2011
- Poston, C. N., *Duong, E., Cao, Y., and Bazemore-Walker, C. R. “Proteomic Analysis of Detergent-resistant Microdomains Obtained from Mitochondria and Mitochondria-associated ER Membranes.” FASEB J. March 17, 2011, 25:743.4
- Lu, C., Gu, H., Romano, P., Mehta, A., Block, T., Bazemore-Walker, C. R., and Chen, S. “Identification of AAL-reactive Species of Immunoglobulin G (IgG) by Quantitative Analysis of N-linked Glyco-isoforms of IgG Using LC-MS/MS,” Proceedings of the 59th

- ASMS Conference on Mass Spectrometry and Allied Topics, Denver, CO, June 5-9, 2011.
- Gu, H., and Bazemore-Walker, C. R. "Characterization of the Human Sigma-1 Receptor Interactome Using Label-free Quantitative Chemical Proteomics," Proceedings of the 59th ASMS Conference on Mass Spectrometry and Allied Topics, Denver, CO, June 5-9, 2011.
- Ellisor, M. B., Gong, C., *Hogan, M. J., and Bazemore-Walker, C. R. "A Statistically Validated Proteomic Platform for Reliable Label-free Quantification Using Spectral Counting," Proceedings of the 59th ASMS Conference on Mass Spectrometry and Allied Topics, Denver, CO, June 5-9, 2011.
- Gu, H. and Bazemore-Walker, C. R. "Novel Post-translational Modifications of the Human Sigma-1 Receptor Identified by Mass Spectrometry," Proceedings of the 58th ASMS Conference on Mass Spectrometry and Allied Topics, Salt Lake City, UT, May 22-27, 2010.
- Gong, C. and Bazemore-Walker, C. R. "Large-scale Identification of Human Microtubule-associated Proteins using Multidimensional Chromatography and Tandem Mass Spectrometry," Proceedings of the 58th ASMS Conference on Mass Spectrometry and Allied Topics, Salt Lake City, UT, May 22-27, 2010.
- Cao, Y. and Bazemore-Walker, C. R. Comparative Proteomic Analysis of Holdfast-Positive and Holdfast-Negative Strains Of *Caulobacter crescentus*," Proceedings of the 58th ASMS Conference on Mass Spectrometry and Allied Topics, Salt Lake City, UT, May 22-27, 2010.
- Poston, C. N., Ellisor, M., Gu, H. and Bazemore-Walker, C. R. "Identification of Authentic Lipid Raft Proteins in Rat Liver Using Quantitative Proteomics," Division of Analytical Chemistry General Posters, American Chemical Society National Meeting & Exposition, Washington, DC, August 16-20, 2009.
- Gu, H. and Bazemore-Walker, C. R. "Analysis of the Human Sigma-1 Receptor and Its Interacting Proteins Using Chemical Proteomics," Proceedings of the 57th ASMS Conference on Mass Spectrometry and Allied Topics, Philadelphia, PA, May 30-June 4, 2009.
- Gong, C. and Bazemore-Walker, C. R. "Toward Tubulin Proteomics: Analysis of Human Microtubule-Associated Proteins Using Offline High-pH RP-HPLC Coupled with Low-pH LC-MS/MS," Proceedings of the 57th ASMS Conference on Mass Spectrometry and Allied Topics, Philadelphia, PA, May 30-June 4, 2009.
- *Lee, Y. Y., Cechova, S., and Bazemore-Walker, C. R. "Development and Optimization of a Sensitive ELISA to Measure Monocyte Chemoattractant Protein-1 (MCP-1) in Mouse Urine," The Virginia Section of the American Chemical Society, University of Virginia, Charlottesville, VA, April 14, 2006.
- *Lin, C. K. and Bazemore-Walker, C. R. "2-Methoxyestradiol-induced Apoptosis of Human Leukemia Cells," The 2004 Fall Undergraduate Research Network Symposium, University of Virginia, Charlottesville, VA, November 12, 2004.

*Lin, C. K., and Bazemore-Walker, C. R. “2-Methoxyestradiol-induced Apoptosis of Human Leukemia Cells,” 7th Annual Undergraduate Research Symposium in the Chemical and Biological Sciences, University of Maryland, Baltimore County, Baltimore, MD, October 16, 2004. **Second place award for Biological Science.**

Bazemore-Walker, C. R., Crenshaw, S., Jeffery, E. D., and Hinton, B. T. “Proteomic Analysis of Rete Testis Fluid from Sprague-Dawley Rats,” Proceedings of the 52nd ASMS Conference on Mass Spectrometry and Allied Topics, Nashville, TN, May 23-27, 2004.

FUNDING

Completed

Sequencing by Nanopore Mass Spectrometry

NIH R21 HG005100-01

09/01/2009 – 06/30/2013

PI: Stein; Co-PIs: Weber and **Bazemore-Walker**

Phosphoproteomic Analysis of Cell Death Induced by 2-Methoxyestradiol

NIST 70NANB8H8182

09/01/2008 – 08/31/2012

PI: **Bazemore-Walker**

Identification and Characterization of the Adhesive Proteins of Caulobacter crescentus Holdfast

Brown University Richard B. Salomon Faculty Research Award

01/19/2010 – 06/30/2011

PI: **Bazemore-Walker**

Proteomic Characterization of the Sigma-1 Receptor and Its Signaling Complex

R03 DA027182-01

06/01/2009 – 05/31/2011

PI: **Bazemore-Walker**

Identifying Ligands for the Receptor GPR161 that is Implicated in Congenital Cataracts

Brown University Center for Vision Research Pilot Grant Award

10/01/2009 – 05/28/2010

Co-PIs: Barnea and **Bazemore-Walker**

A Quantitative Proteomics Approach to Understanding the Sigma-1 Receptor Signaling Pathway

RI-INBRE Pilot Project Grant from NIH NCRR #P20RR016457

05/01/2008 – 04/30/2009

PI: **Bazemore-Walker**

2-Methoxyestradiol-induced Protein Phosphorylation in Human Jurkat Leukemia Cells

Leukemia Research Foundation

07/01/02 – 06/30/04

PI: **Bazemore-Walker**

SERVICE

Departmental (all service at Brown University unless otherwise indicated)

PhD Thesis Committees

1. Ayse Bozkurt, Advisor: Sarah Delaney
2. Daniel Carney, Advisor: Jason Sello
3. Gokhan Demirkan (Ph.D. 2011), Advisor: Philip Gruppuso
4. Dorothy Fibiger, Advisor: Meredith Hastings
5. Xun Guo (Ph.D. 2011), Advisor: David Cane
6. Qinqin Ji, Advisor: Arthur Salomon
7. Philip Lukulay, Advisor: Amit Basu
8. Zhongying Wang, Advisor: Robert Hurt
9. Michael Zompa, Advisor: Christopher Seto

Undergraduate Senior Thesis Committees (reader)

1. Antoinette Oot '13, Advisor: Wolfgang Peti
2. Zoe Stephenson '12, Advisor: Yongsong Huang

Other Committees

1. Undergraduate Focus Group, 2009-2010
2. Graduate Student Recruiting/Admissions Committee, 2008-present
3. Instrument Committee, 2006-present
4. Chemistry Department Library Representative, 2006-2009
5. Graduate Student Recruitment Committee (at Univ. of Va), Member, 2005-2006

University

Brown University

Women's Basketball Team Faculty Liaison, 2008-present
WiSE Faculty Liaison for Chemistry, 2007-2008
Judge for Brown University Graduate Students of Color Conference, 2008

University of Virginia

Faculty Search Committee Member for Mellon Medical Biomarker Discovery Laboratory, 2005
HBCU Advisory Committee Member, 2005-2006
Faculty Advisor for student chapter of NOBCCChE, 2005-2006

Professional

Chair and Organizer, Glycoproteins/Glycans Session, ASMS Conference, 2013
Member, *Analytical Chemistry* Features Advisory panel, 2013-present
Co-chair and co-organizer of a contributed symposium at the Pittcon Conference, 2012
Member, Editorial board, Molecular and Cellular Proteomics, 2011-2016
Member, ASMS Publications Committee, 2011-2013
Reviewer, NIH CKD Biomarker Panel, 2009
Reviewer, NSF Division of Chemistry REU Panel, 2008
Chair and Organizer, Immunology Session, ASMS Conference, 2002

Ad hoc reviewer, International Journal of Mass Spectrometry, Journal of the American Society for Mass Spectrometry, and Journal of Proteome Research

Community

Urban League Corporate Luncheon Planning Committee, 2012

Martin Luther King Jr. Elementary School Science Conference, 2010

Brown/Foxpoint Early Childhood Education Center chemistry demonstration, 2009

Yale University Mellon Mays Undergraduate & Edward Bouchet Fellowship Program
Mini-Conference Faculty Speaker, 2007