

MARGARET A. JOHNSON, Ph.D.

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www.mackenziemedwrite.com

Education

Simon Fraser University, Canada	Biochemistry	B.Sc., 1997
Simon Fraser University, Canada	Biochemistry	Ph.D., 2003
The Scripps Research Institute	Structural Biology	Postdoctoral Fellow, 2003-2009

Professional Experience

2019 - present	Freelance Medical Writer, Owner at Mackenzie MedWrite <ul style="list-style-type: none">Specialties: Medical education, publications, product and market researchTherapeutic areas: Cardiovascular, infectious disease, medical devices, oncology, endocrinology
2013 - 2019	Assistant Professor, Department of Chemistry, University of Alabama at Birmingham <ul style="list-style-type: none">Research interests: biochemistry of infectious disease; viral and bacterial proteins; instructional design in STEMCourses taught: CH 460/760 Fundamentals of Biochemistry; CH 461/761 Advanced Biochemistry; CH 464/764 Physical Biochemistry Laboratory, CH 769 Biomolecular NMR; CH 115 General Chemistry, CH 297/497 Directed StudiesMentored 4 postdocs/scientists, 6 Ph.D. students, 25 undergraduates and 3 high school students as research trainees
2013 - 2019	Scientist, Comprehensive Cancer Center, UAB
2013 - 2019	Scientist, Center for Structural Biology, UAB
2009 - 2012	Research Associate, University of Alberta, Canada <ul style="list-style-type: none">Carbohydrates in vaccine design, developing computational/experimental biomolecular structures
2003 - 2009	Postdoctoral research, The Scripps Research Institute, San Diego, CA Department of Molecular Biology, Advisor Dr. Kurt Wuthrich <ul style="list-style-type: none">Structural biology and structural genomics by NMR, focus on SARS virus, inteins
1997 - 2003	Ph.D. research, Simon Fraser University, Burnaby, Canada Department of Molecular Biology and Biochemistry, Advisor Dr. B. Mario Pinto <ul style="list-style-type: none">Protein-ligand interactions in vaccine design, rational inhibitor design

Honors and Awards

Faculty Fellow in Undergraduate Research, UAB, 2017-2018
Boehringer Ingelheim Award of the Canadian Society for Chemistry, 2007
Canadian Institutes of Health Research (CIHR) Postdoctoral Fellowship, 2003-2006
Natural Sciences and Engineering Research Council (NSERC) Postdoctoral Fellowship (declined), 2003–2005
Governor General's Gold Medal for academic excellence in a graduate thesis, 2003
NSERC Postgraduate Scholarship, 1997–2001

Publications

39. Bumbak F, Thomas T, Noonan-Williams BJ, Vaid TM, Yan F, Whitehead AR, Bruell S, Kocan M, Tan X, Johnson MA, Bathgate RAD, Chalmers DK, Gooley PR, Scott DJ. Conformational changes in tyrosine 11 of neurotensin are required to activate the neurotensin receptor 1. *ACS Pharmacology and Translational Science*, April 29, 2020.
38. Staup A, De Silva I, Catt J, Tan X, Hammond R, Johnson MA. Structure of the SARS-Unique Domain C from the Bat Coronavirus HKU4. *Natural Products Communications*, 2019, 14, 1-11.
37. Brady PN, Goel A, Johnson MA. Poly(ADP-ribose) Polymerases in Host-Pathogen Interactions and Inflammation. *Microbiology and Molecular Biology Reviews*, 2019, 83: e00038-18. Correction in *Microbiol Mol Biol Rev*. 2019 Mar 13;83(2).
36. Hammond RG, Tan X, Johnson MA. SARS-Unique Fold in the *Rousettus* Bat Coronavirus HKU9. *Protein Science*, 2017, 26, 1726-1737.
35. Hammond RG, Tan X, Chan M, Goel A, Johnson MA. Computational and Experimental Studies of ADP-ribosylation. Poly(ADP-Ribose) Polymerase: Methods and Protocols, 2nd Ed. (Tulin AV, Ed.), *Methods Mol Biol* 2017, 1608, 475-513.
34. Mills KV, Johnson MA, Perler FB. Protein splicing: how inteins escape from precursor proteins. *J. Biol. Chem.* 2014, 289, 14498-14505 (JBC Thematic Minireview Series).
33. Johnson MA, Bundle DR. Designing a new antifungal glycoconjugate vaccine. *Chem. Soc. Rev.* 2013, 42, 4327-4344.
32. Dang AT, Johnson MA, Bundle DR. Synthesis of a *Candida albicans* tetrasaccharide spanning the β 1,2-mannan phosphodiester α -mannan junction. *Org. Biomol. Chem.* 2012, 10, 8348-8360.
31. Lin H, Kitova EN, Johnson MA, Eugenio L, Ng KKS, Klassen JS. Electrospray ionization-induced protein unfolding. *J. Am. Soc. Mass Spectrom.* 2012, 23, 2122-2131.
30. Johnson MA, Cartmell J, Weisser NE, Woods RJ, Bundle DR. Molecular recognition of *Candida albicans* (1 \rightarrow 2)- β -mannan oligosaccharides by a protective monoclonal antibody reveals the immunodominance of internal saccharide residues. *J. Biol. Chem.* 2012, 287, 18078-18090.
29. Johnson MA, Jaudzems K, Wüthrich K. NMR structure of the SARS coronavirus nonstructural protein 7 in solution at pH 6.5. *J. Mol. Biol.* 2010, 402, 619-628.
28. Johnson MA, Chatterjee A, Neuman BW, Wüthrich K. SARS Coronavirus-unique domain (SUD): Three-domain molecular architecture in solution and RNA binding. *J. Mol. Biol.* 2010, 400, 724-742.
27. Tori K, Dassa B, Johnson MA, Southworth MW, Brace LE, Ishino Y, Pietrokovski S, Perler FB. Splicing of the mycobacteriophage Bethlehem DnaB intein: identification of a new mechanistic class of inteins that contain an obligate block F nucleophile. *J. Biol. Chem.* 2010, 285, 2515-2526.[†]
- [†]*J. Biol. Chem.* 'Paper of the Week', January 22, 2010.
26. Serrano P, Johnson MA, Chatterjee A, Neuman BW, Joseph JS, Buchmeier MJ, Kuhn P, Wüthrich K. Nuclear magnetic resonance structure of the nucleic acid-binding domain of severe acute respiratory syndrome coronavirus nonstructural protein 3. *J. Virol.* 2009, 83, 12998-13008.
25. Chatterjee A, Johnson MA, Serrano P, Pedrini B, Joseph J, Neuman B, Saikatendu K, Buchmeier M, Kuhn P, Wüthrich K. Nuclear magnetic resonance structure shows that the severe acute respiratory syndrome coronavirus-unique domain contains a macrodomain fold. *J. Virol.* 2009, 83, 1823-1836.[†]
- [†]Featured article on the PSI-Nature Structural Genomics Knowledgebase Web site, April 2009 (<http://kb.psi-structuralgenomics.org/update/2009/04/research.html>).
24. Hossany BR, Johnston BD, Wen X, Borrelli S, Yuan Y, Johnson MA, Pinto BM. Design, synthesis and immunochemical characterization of a chimeric glycopeptide corresponding to the

- Shigella flexneri* Y O-polysaccharide and its peptide mimic MDWNMHAA. *Carbohydr. Res.* 2009, 344, 1412-1427.
23. Johnson MA, Pinto BM. Structural and functional studies of peptide-carbohydrate mimicry. *Top. Curr. Chem.* 2008, 273 (*Bioactive Conformations II*), 55–116.
22. Borrelli S, Johnson MA, Hossany RB, Pinto BM. Peptide mimics of bacterial polysaccharides: potential for discriminating vaccines. *ACS Symp. Ser.* 2008, 989 (*Carbohydrate-based Vaccines*), 335–355.
21. Neuman BW, Joseph JS, Saikatendu KS, Serrano P, Chatterjee A, Johnson MA, Liao L, Klaus JP, Yates JR, Wüthrich K, Stevens RC, Buchmeier MJ, Kuhn P. Proteomics analysis unravels the functional repertoire of coronavirus nonstructural protein 3. *J. Virol.* 2008, 82, 5279–5294.
20. Johnson MA, Southworth MW, Herrmann T, Brace L, Perler FB, Wüthrich K. NMR structure of a KlbA intein precursor from *Methanococcus jannaschii*. *Protein Sci.* 2007, 16, 1316–1328.
19. Serrano P, Johnson MA, Almeida MS, Horst R, Herrmann T, Joseph JS, Neuman BW, Subramanian V, Saikatendu KS, Buchmeier MJ, Stevens RC, Kuhn P, Wüthrich K. NMR structure of the N-terminal domain of the nonstructural protein 3 from the SARS coronavirus. *J. Virol.* 2007, 81, 12049–12060.
18. Almeida MS, Johnson MA, Herrmann T, Geralt M, Wüthrich K. Novel β -barrel fold in the NMR structure of the replicase nonstructural protein 1 from the SARS coronavirus. *J. Virol.* 2007, 81, 3151–3161.
17. Johnson MA, Peti W, Herrmann T, Wilson IA, Wüthrich K. Solution structure of Asl1650, an acyl carrier protein from *Anabaena* sp. PCC 7120 with a variant phosphopantetheinylation-site sequence. *Protein Sci.* 2006, 15, 1030–1041.
16. Peti W, Johnson MA, Herrmann T, Neuman BW, Buchmeier MJ, Nelson M, Joseph J, Page R, Stevens RC, Kuhn P, Wüthrich K. Structural genomics of the severe acute respiratory syndrome coronavirus: nuclear magnetic resonance structure of the protein nsP7. *J. Virol.* 2005, 79, 12905–12913.
15. Michon F, Moore SL, Kim J, Blake MS, Auzanneau FI, Johnston BD, Johnson MA, Pinto BM. Doubly branched hexasaccharide epitope on the cell wall polysaccharide of group A streptococci recognized by human and rabbit antisera. *Infect. Immun.* 2005, 73, 6383–6389.
14. Johnson MA, Pinto BM. Saturation-transfer difference NMR studies for the epitope mapping of a carbohydrate-mimetic peptide recognized by an anti-carbohydrate antibody. *Bioorg. Med. Chem.* 2004, 12, 295–300.
13. Johnson MA, Pinto BM. NMR spectroscopic and molecular modeling studies of protein-carbohydrate and protein-peptide interactions. *Carbohydr. Res.* 2004, 339, 907–928.
12. Hossany RB, Johnson MA, Eniade AA, Pinto BM. Synthesis and immunochemical characterization of protein conjugates of carbohydrate and carbohydrate-mimetic peptides as experimental vaccines. *Bioorg. Med. Chem.* 2004, 12, 3743–3754.
11. Honson N, Johnson MA, Oliver JE, Prestwich GD, Plettner E. Structure activity studies with pheromone-binding proteins of the gypsy moth, *Lymantria dispar*. *Chem. Senses* 2003, 28, 479–489.
10. Johnson MA, Jaseja M, Zou W, Jennings HJ, Copié V, Pinto BM, Pincus SH. NMR studies of carbohydrates and carbohydrate-mimetic peptides recognized by an anti-group B *Streptococcus* antibody. *J. Biol. Chem.* 2003, 278, 24740–24752.
9. Johnson MA, Jensen MT, Svensson B, Pinto BM. Selection of a high-energy bioactive conformation of a sulfonium-ion glycosidase inhibitor by the enzyme glucoamylase G2. *J. Am. Chem. Soc.* 2003, 125, 5663–5670.
8. Johnson MA, Höög C, Pinto BM. A novel modeling protocol for protein receptors guided by bound-ligand conformation. *Biochemistry* 2003, 42, 1842–1853.

7. Johnson MA, Eniade AA, Pinto BM. Rational design and synthesis of peptide ligands for an anti-carbohydrate antibody and their immunochemical characterization. *Bioorg. Med. Chem.* 2003, 11, 781–788.
6. Johnson MA, Pinto BM. Saturation transfer difference 1D-TOCSY experiments to map the topography of oligosaccharides recognized by a monoclonal antibody directed against the cell-wall polysaccharide of group A *Streptococcus*. *J. Am. Chem. Soc.* 2002, 124, 15368–15374.
5. Johnson MA, Pinto BM. Molecular mimicry of carbohydrates by peptides. *Aust. J. Chem.* 2002, 55, 13–25. (Special Issue for the 21st ICS).
4. Vyas NK, Vyas MN, Chervenak MC, Johnson MA, Pinto BM, Bundle DR, Quioco FA. Molecular recognition of oligosaccharide epitopes by a monoclonal Fab specific for *Shigella flexneri* Y lipopolysaccharide: X-ray structures and thermodynamics. *Biochemistry* 2002, 41, 13575–13586.
3. Johnson MA, Rotondo A, Pinto BM. NMR studies of the antibody-bound conformation of a carbohydrate-mimetic peptide. *Biochemistry* 2002, 41, 2149–2157.
2. Randell KD, Frandsen TP, Stoffer B, Johnson MA, Svensson B, Pinto BM. Synthesis and glycosidase inhibitory activity of 5-thioglucopyranosylamines. Molecular modeling of complexes with glucoamylase. *Carbohydr. Res.* 1999, 321, 143–156.
1. Cornell RB, Kalmar GB, Kay RJ, Johnson MA, Sanghera JS, Pelech SL. Functions of the C-terminal domain of CTP:phosphocholine cytidyltransferase. *Biochem. J.* 1995, 310, 699–708.

Technical Notes (NMR assignment)

5. Serrano P, Johnson MA, Chatterjee A, Pedrini B, Wüthrich K. NMR assignment of the nonstructural protein nsp3(1066–1181) from SARS-CoV. *Biomol. NMR Assign.* 2008, 2, 135–138.
4. Chatterjee A, Johnson MA, Serrano P, Pedrini B, Wüthrich K. NMR assignment of the domain 513–651 from the SARS-CoV nonstructural protein nsp3. *Biomol. NMR Assign.* 2007, 1, 191–194.
3. Johnson MA, Southworth MW, Perler FB, Wüthrich K. NMR assignment of a KlbA intein precursor from *Methanococcus jannaschii*. *Biomol. NMR Assign.* 2007, 1, 19–21.
2. Almeida MS, Johnson MA, Wüthrich K. NMR assignment of the SARS-CoV protein nsp1. *J. Biomol. NMR* 2006, 36 (Suppl. 1), 46.
1. Serrano P, Almeida MS, Johnson MA, Wüthrich K. NMR assignment of the protein nsp3a from SARS-CoV. *J. Biomol. NMR* 2006, 36 (Suppl. 1), 45.

Abstracts

1. Flückiger JP, Masson P, Johnson MA, Jones TR, Rodger IW. Mucin secretion and mucociliary clearance are regulated by integrated processes in the tracheo-bronchial tree of conscious guinea pigs. (Abstract) *Am. J. Respiratory Critical Care Med.* 1995, 151, 4, A815.

Extramural Funding:

Completed

Novel Nucleic Acid-Binding Proteins in Emerging Viruses, NIH NIGMS R35 GM119456, 07/01/2016 - 05/14/2019, \$221,987 annual direct costs, Role: PI

UAB PREP Scholars Program (2R25GM086256-09A1), 04/18 – 03/23, \$397,671 total costs, \$42,000 available per student (PI: Daniel Bullard)
Role: Faculty Mentor

Y. Vohra (PI), NSF DMR #1754078. *REU-Site: Regional Initiative to Promote Undergraduate Participation in Experimental and Computational Materials Research*. 04/15/18-03/31/21, \$324,975 total costs, \$5,000 available per student.

Role: Faculty Mentor

National Health and Medical Research Council of Australia, #1081844

(PIs: R. Bathgate, P. Gooley, Daniel Scott, Spencer Williams; Associate Investigators M. A. Johnson, M. Scanlon, M. Griffin), 01/01/15-12/1/17

Novel approaches to understanding peptide G-protein-coupled receptor activation.

Understanding the mechanism of GPCR activation using STD-NMR experiments and theoretical calculations.

Role: Associate Investigator

American Chemical Society

Local Section Innovative Project Grant

06/01/2015-05/31/2016

"HotScience" – 21st Century STEM Research Skills for High School Students.

A 1-week summer workshop to teach talented high school students scientific skills for the 21st century. 11th- and 12th-grade students learn biochemical principles through hands-on activities and develop mentoring relationships.

Role: PI

Invited Lectures:

8. Interdisciplinary CURES (Course-based Undergraduate Research Experiences) in Science. Faculty Fellows in Undergraduate Research 'Boot Camp', UAB Office of Service Learning, January 10, 2019.

7. PARTners in Crime – PAR and Protein Structure-Function. Mitchell Cancer Institute, Mobile, AL, October 31, 2017.

6. Macrodomein proteins of bat coronaviruses. University of South Alabama, Department of Chemistry, February 17, 2017.

5. Johnson MA. PART of it All – Proteins that bind unusual nucleic acids. UAB Sigma Xi Luncheon Meeting.

4. PART of it all: Studies of poly(ADP-ribose) and PAR-binding proteins. University of Georgia, Department of Pharmacology, December 2, 2015.

3. PART of it all: Studies of poly(ADP-ribose) and PAR-binding proteins. Symposium in honor of Professor David R. Bundle, Edmonton, AB, July 16-17, 2015.

2. Structural biology of microbial and eukaryotic proteins: combined experimental and computational approaches. Berry College, Rome, GA, Oct. 11, 2013.

1. Structural biology of microbial and eukaryotic proteins: combined experimental and computational approaches. UAB Student Affiliates of the American Chemical Society, Birmingham, AL, Oct. 17, 2013.

Conference Proceedings:

a) Contributed Oral Presentations

6. Cingoranelli S, Yadav D, Brady P, Catazaro J, Andrews T, Staup A, Morton M, Powers R, Johnson MA. Structural and functional annotation of macrodomain proteins. Southeastern Regional Meeting of the ACS, Augusta, GA, Oct 31-Nov 3, 2018.

5. Johnson MA, Tan X, Schormann N, Hammond RG, Brady PN, Deivanayagam C. Conserved and divergent macrodomain proteins of bat coronaviruses. NAD⁺ Metabolism & Signaling 2017, New Orleans, LA, July 2017.
4. Johnson MA. Computational and experimental studies of ADP-ribose binding proteins. MRBC IX, Mississippi State Department of Chemistry, May 23-25, 2016.
3. Johnson MA. Computational and experimental studies of mono- and poly-ADP-ribosylation of peptides. 2015 Joint Southeastern/Southwest Regional Meeting of the ACS, Memphis, TN, November 4-6, 2015.
2. (Poster) **Chan MC**, Hammond RG, Tian C, **Pasala M**, Goel A, **Nguyen H**, Johnson MA. Presence of nucleic acid-binding macrodomains in coronaviruses. 2015 Gordon Research Conference on Nucleic Acids. Biddeford, ME, May 31-June 5.
1. Johnson MA. Development of methods for NMR structural and binding studies of poly(ADP-ribose) binding proteins. Southeastern Regional Meeting of the ACS, Nashville, TN, Oct 16-19, 2014.

b) Johnson Research Group Presentations

(Presenter is underlined; undergraduate and high school student presenters are indicated in bold)

22. Brady PN, Johnson MA. Structural Elucidation and Functional Profiling of Bat Coronavirus Macrodomain HKU9M. 45th NOBCCChE Annual Meeting, Orlando, FL, September 17-20, 2018.
21. Brady PN, Johnson MA. Development of Modifiable Laboratory Experiments for Ligand Screening of Proteins Using Differential Scanning Fluorimetry. 256th ACS National Meeting, Boston, MA, Aug. 23, 2018.
20. Brady PN, Johnson MA. Binding Studies for Functional Profiling of Bat Coronavirus Macrodomain HKU9M. IRACDA 2018, Atlanta, GA, July 15-17.
19. Brady PN, Hammond RG, Johnson MA. Structural and Functional Characterization of a Novel G-quadruplex Binding Domain from Bat Coronavirus HKU9 Non-Structural Protein 3. 44th NOBCCChE Annual Meeting, Minneapolis, MN, October 30-November 3, 2017.
18. Parker C, **Catt J**, Li J, Johnson MA. Structural Studies of Eukaryotic Poly(ADP-Ribose) Polymerases. 19th Comprehensive Cancer Center Research Retreat, Oct. 30, 2017, Birmingham, AL.
17. Brady PN, **Hayes K**, Hammond RG, Johnson MA. Implementation of a differential scanning fluorescence assay in a classroom environment. NIH IRACDA Conference, Birmingham, AL, June 4-6, 2017.
16. Hammond RG, Tan X, Schulman N, **Chan M**, Brady PN, Deivanayagam C, Johnson MA. Macrodomain proteins of bat coronaviruses. Keystone Symposium on Frontiers of NMR in Life Sciences, Keystone, CO, March 12-16, 2017.
15. Tan X, Bumbak F, Vaid T, Thomas T, Noonan B, Chalmers DK, Bathgate RA, Scott DJ, Gooley PR, Johnson MA. Computing binding modes of neurotensin to its receptor by CORCEMA-ST (Complete Relaxation and Conformational Exchange Matrix Analysis of Saturation Transfer). Keystone Symposium on Frontiers of NMR in Life Sciences, Keystone, CO, March 12-16, 2017.
14. Hammond RG, Tan X, Johnson MA. SARS-Unique fold in the bat coronavirus HKU9. Keystone Symposium on Frontiers of NMR in Life Sciences, Keystone, CO, March 12-16, 2017.
13. Brady PN. Structural and Functional Characterization of a Novel G-quadruplex Binding Domain from Bat Coronavirus HKU9 Non-Structural Protein 3. 43rd NOBCCChE Annual Meeting, Raleigh, NC, November 2016.
12. **Hayes KO**, Chan MC, Hammond RG, Brady PN, Johnson MA. Assay Development for the Investigation of Viral Protein Function. UAB Summer EXPO 2016: An Exposition of Undergraduate Research. The University of Alabama at Birmingham, Birmingham AL, July 21, 2016.

11. **Chan MC**, Johnson MA. Coronavirus Macrodomains: Bridging the gap between structure and function. Southeastern Magnetic Resonance Conference, Atlanta, GA, October 14-16, 2016. How to Give the Perfect Poster Presentation. **Brady PN**, **Walker V**. Undergraduate Research Seminar Series, The University of Alabama at Birmingham, Birmingham, AL, March 2016.
10. **Chan MC**, Hammond RG, Tian C, Tan X, Goel A, Johnson MA. Characterization and biochemical analysis of noncanonical coronavirus macrodomains. Joint Southeastern/Southwest Regional Meeting of the American Chemical Society, Memphis, TN, November 4-7, 2015.
9. **Hammond R**, **Chan MC**, Goel A, Tian C, Johnson MA. Computational and experimental studies of mono-ADP-ribosylation and ADP-ribose binding proteins. 2015 FASEB Conference on NAD Metabolism and Signaling. Timmendorfer Strand, Germany, August 9-14, 2015. (FASEB Presentation Award)
8. **Chan MC**, **Hayes KO**, Hammond RG, Tian C, Tan X, Goel A, Johnson MA. Characterization and biochemical analysis of noncanonical coronavirus macrodomains. UAB Expo, July 2015.
7. **Chan MC**, Hammond RG, Tian C, **Pasala M**, Goel A, Nguyen H, Johnson MA. Presence of nucleic acid-binding macrodomains in coronaviruses. 2015 Gordon Research Conference on Nucleic Acids. Biddeford, ME, May 31-June 5.
6. **Johnson A**, Hammond RG, **Chan MC**, Tian C, Johnson MA. Polyacrylamide gel electrophoresis: Expression and characterization of HKU4 coronavirus protein domain. ALSAMP Alabama State Poster Competition, Auburn University, April 13, 2015.
5. **Pasala M**, **Chan MC**, Johnson MA. Cloning, Expression, and Characterization of Recombinant Coronavirus Macrodomains. Regional Alabama Junior Academy of Science Research Symposium, January 2015.
4. **Tian C**, Hammond RG, **Chan M**, Nguyen H, Johnson MA. "Purification and characterization of predicted guanine quadruplex-binding macrodomains from coronaviruses", Southeastern Regional Meeting of the ACS, Nashville, TN, Oct 16-19, 2014.
3. **Hammond RG**, **Chan MC**, Tian C, Johnson MA. Structural and biochemical studies of *Neurospora crassa* poly(ADP-ribose) polymerase. Southeastern Regional Meeting of the ACS, Nashville, TN, Oct 16-19, 2014.
2. **McCulley CM**, **Chan MC**, Hammond RG, Johnson MA. Biochemical Studies on the N-terminal Regions of Human PARPs. Southeastern Regional Meeting of the ACS, Nashville, TN, Oct 16-19, 2014.
1. **Tian C**, Hammond RG, **Chan M**, Nguyen H, Johnson MA. "Purification and characterization of predicted guanine quadruplex-binding macrodomains from coronaviruses". 43rd Southeastern Magnetic Resonance Conference, Tuscaloosa, Alabama, Oct. 24-26, 2014.

Academic and professional service:

Scientific community

Reviewer for *Chemistry and Biology*, *PLoS One*, *Carbohydrate Research*, *Bioinformatics*, *BMC Bioinformatics*, *Protein Expression and Purification*, *Protein Science*, Bentham Science, 2009-present

Session Chair at 43rd Southeastern Magnetic Resonance Conference, Tuscaloosa, AL, October 2014

Member and volunteer for the American Medical Writers Association, Medical Writing Organization, Editors Canada, American Heart Association

University

Purchasing Committee, UAB, 2017-2018

Center for Structural Biology Curriculum and Seminar Series, 2017-2018

Community outreach, 2015-2018

- Summer workshop for high school students, “HotScience”, introduces concepts and skills of biochemistry, recruits students to UAB and develops mentoring relationships with UAB students

Departmental

Graduate Education Committee, UAB Department of Chemistry, 2013-2019

Research Advisory Committee, UAB Department of Chemistry, 2013-2019

Biochemistry Curriculum Committee, 2017 – 2019

General Chemistry Textbook Selection, 2014-2015

Graduate committee for Nate Scull, Clarissa Weaver, Farnoush Zeidabadi, Anne Mushimiyimana, Candace Parker, Steve Zaharias, Timothy Towton

Undergraduate Honors Thesis Committee for Jerome Arceneaux, Michael Longmire, Marina Triplett, Kyle Landers