

PATRICE LINETTE CAPERS, Ph.D., M.S.C.R.

Curriculum Vitae

Professional mailing address The Citadel
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Citizenship USA

Education

July 2013 – June 2016 **University of Alabama at Birmingham, Birmingham, AL**
Mentored Experiences in Research, Instruction, and Teaching
(MERIT) Postdoctoral Scholar
Office of Energetics
Mentor: Dr. David B. Allison

May 2013 **Morehouse School of Medicine (MSM), Atlanta, GA**
Doctorate of Philosophy (Ph.D.) in Biomedical Sciences
May 2013 Master of Science in Clinical Research (M.S.C.R.)
Dissertation: Nutritional Complications of Sickle Cell Disease
PI: Dr. Jacqueline M. Hibbert

May 2008 **Spelman College, Atlanta, GA**
Bachelor of Science (B.S.), Biology

Appointments

November 2020 – Assistant Professor, The Citadel, Charleston, SC
August 2018 – Adjunct Instructor. Trident Technical College, Charleston, SC
October 2017 – Consultant/Instructor. University of Alabama at Birmingham (UAB)
Aug 2017 – Nov 2020 Visiting Assistant Professor (Visiting Teaching Scholar),
The Citadel, Charleston, SC
(Teaching Mentor: Dr. Kristy Johnson)
2016 – 2017 Postdoctoral Scholar, Center for Community OutReach
Development (CORD), UAB, Birmingham, AL
(Mentor: Dr. J. Michael Wyss)

Other Positions and Employment

2011-2012 Tutor for Graduate Education in Biomedical Sciences (GEBS) Tutoring Services,
MSM, Atlanta, GA
2008 Undergraduate Research Student, MSM, Atlanta, GA
2005 Clerical Assistant, Charleston Air Force Base, Charleston, SC
2004 Summer Sales Representative, Salem Staffing, Charleston, SC

Awards

- 2018 New Faculty Seminar Series Certificate of Completion. Charleston, SC
- 2017 Center for the Integration of Research, Teaching, and Learning (CIRTL) at UAB Scholar Program Completion. Birmingham, AL
- 2016 UAB Libraries Public Health Information Certificate for Course Completion. Birmingham, AL
- 2016 2nd Place Winner for Post Doctoral/ Fellow category. 8th Annual Public Health Research and Practice Day. Birmingham, AL
- 2016 3rd Place Winner. UAB 13th Annual Postdoctoral Research Day. Birmingham, AL
- 2015 Center for the Integration of Research, Teaching, and Learning (CIRTL) at UAB Associate Program Completion. Birmingham, AL
- 2015 1st Place Winner for Post Doctoral/ Fellow category. 7th Annual Public Health Research and Practice Day. Birmingham, AL
- 2013 The Federation of American Societies for Experimental Biology (FASEB)/ Maximizing Access to Research Careers (MARC) Program “2013 Institute on Teaching and Mentoring” Travel Award
- 2012 Curtis L. Parker Award, 2012 Curtis L. Parker Student Research Symposium Atlanta, GA
- 2011 Minority Graduate Student Abstract Achievement Award, 53rd Annual Meeting of the American Society of Hematology, San Diego, CA
- 2010 – 2011 MBRS-RISE RISEing Star, Spelman College, Atlanta, GA
- 2006 ABRCMS Poster Award, Annual Biomedical Research Conference for Minority Students, Anaheim, CA
- 2004 – 2005 Honor Roll, Spelman College, Atlanta, GA
- 2004 Girl Scout Gold Award

Teaching Overview

A. Courses Taught

The Citadel

- Spring 2024 Instructor. Environmental Physiology (BIOL 414).
- Fall 2023 Instructor. Foundations of Biology (BIOL 115).
- Spring 2023 - Instructor. Biology Capstone (BIOL 430).
- Fall 2021 - Instructor. Sr Leadership Integration Sem (LDRS 411).
- Fall 2021 Instructor (lab). Mammalian Physiology (BIOL 403).
- Fall 2021 Instructor. Graduate Course – Human Diseases (BIOL 610).
- Spring 2021 - Instructor. Human Diseases (NTSS 304).
- Fall 2017 - Instructor (lecture). Mammalian Physiology (BIOL 403).
- Fall 2018 - Instructor. Human Anatomy and Physiology I (BIOL 217 – 2 sections).
- 2017 - Instructor. Human Anatomy and Physiology I Lab (BIOL 227 – 3 sections).

- Spring 2020 Instructor. Introduction to Biology I Laboratory (BIOL 131).
- 2018 - 2019 Instructor. General Biology I (BIOL 101 – 2 sections).
- Fall 2019 - Instructor. Human Anatomy and Physiology II (BIOL 218).
- Fall 2019 Instructor. Introduction to Biology II Laboratory (BIOL 141).
- 2019 - 2020 Instructor. Freshman Seminar “Ethics of Human Experimentation” (FSEM 101 – 2 sections).
- Summer 2019 Instructor. General Biology I Laboratory (BIOL 111).
- Spring 2019 Instructor. Undergraduate Research in Biology I (BIOL 321-04).
- Fall 2018 Guest Lecturer. Cardiovascular Physiology. Mammalian Physiology (BIOL 403).
- Fall 2018 Instructor. Graduate Research (BIOL 611-81).
- Summer 2018 Instructor. General Biology II Laboratory (BIOL 112).
- Summer 2018 Instructor. General Biology II (BIOL 102).
- Spring 2018 Instructor. Graduate Course – Environmental Physiology (BIOL 631).
- Spring 2018 Instructor. Intern Research (BIOL 320-02).
- Fall 2017 Instructor. Senior Seminar (BIOL 411).
- Fall 2017 Co-Guest Lecturer. Fetal Pig Heart Dissection. Developmental Biology (BIOL 401).

Trident Technical College

- Spring 2019 - Adjunct Instructor. Anatomy and Physiology I (BIO 210).
- Fall 2018 - Adjunct Instructor. Anatomy and Physiology I Lab (BIO 210L).

University of Alabama at Birmingham

- 2016 – 2017 Director and Instructor, BioTeach (CB 500).
Develop and implement curriculum for BioTeach, a teacher professional development course that prepares high school teachers to teach advanced level biology.
- Fall 2016 Guest lecturer. Rigor in Obesity-Related Studies. Art of Reproducible Science (GBS 746).
- August 2016 Camp Instructor, Camp Jamaica for Students in Lucea, Jamaica
Developed and implemented the curriculum for a 2-week long science camp for students to teach biology using hands-on experiments.
- August 2016 Lead Teacher Trainer, Camp Jamaica for Teachers in Lucea, Jamaica
Developed and implemented the curriculum for a two-day workshop that prepared teachers to teach biology using experiments in their classrooms.
- 2016 - 2017 Director and Instructor, Big Data
Develop and implement in-person and virtual training modules for Big Data, a yearlong professional development series for teachers that demonstrates how biomedical science research can be incorporated into the classroom.
- July 2016 Camp Facilitator
Assisted with 5th grade science camps: “Science Explorations” and “Human Body Basics”.

Stillman College

- Fall 2015 Instructor. Human Nutrition (BIO 230).
Fall 2015 Guest lecturer. Scientific Method. General Biology (BIO 141 – 2 sections).
Spring 2015 Guest lecturer. Molecular biology of the gene. General Biology I (BIO 141).
Spring 2015 Guest lecturer. Angiosperms: Structure, Organization and Reproduction. General Biology II (BIO 142).
Fall 2014 Guest lecturer. Cell Structure and Function. General Biology I (BIO 141).
Fall 2014 Teaching Assistant. Genetics (BIO 334).

Morehouse School of Medicine

- Spring 2013 Guest lecturer. Networking. 1st year graduate student learning community.
Spring 2013 Guest lecturer. Matriculation in Graduate School (Selection of Lab Rotations and Mentors). 1st year graduate student learning community.
Fall 2012 Teaching Assistant. Biochemistry Lab (Graduate Level).
Spring 2010 Teaching Assistant. Cells and Tissue Lab (Graduate Level).

B. Teaching activities not included in courses listed above

Mentorees

Graduate

- 2020 Victoria Wolf. Postdoc, MUSC (MUSC Externship Program), Charleston, SC
2019 Joelle Zambrano. PhD student, MUSC (MUSC Externship Program), Charleston, SC.
2018 Marlaina Wilkerson, Master student, The Citadel, Charleston, SC.
2013 Ashley Ward, PhD student, Morehouse School of Medicine, Atlanta, GA.
2012 Zachary Kiser, PhD student, Morehouse School of Medicine, Atlanta, GA.
2011 Markaisa Black, Master student, Morehouse School of Medicine, Atlanta, GA. Currently graduate student researcher at Cincinnati Children's Hospital Medical Center.

Undergraduate

- 2022 - Phillip D. Newman, Major: Biology, The Citadel, Charleston, SC.
2022 - John A. Shirley, Major: Biology / Business Administration, The Citadel, Charleston, SC.
2022 Ethan Taddy, Major: Biology, The Citadel, Charleston, SC.
2018 William Shugart, Major: Biology, The Citadel, Charleston, SC.
2018 Cynthia Martinez. Major: Biology, The Citadel, Charleston, SC.
2015 – 2016 Joseph Thornton, Major: Public Health, University of Alabama at Birmingham, Birmingham, AL.

2015	Eric Kim, Major: Finance, University of Alabama at Birmingham, Birmingham, AL.
2014	Austin Clark, Major: Biology/ Pre-professional, University of West Florida, Pensacola, FL.
2014	Kristina Tymes-Wilbekin, Major: Biology, Spelman College, Atlanta, GA.
2012 – 2013	Bria K Carrithers, B.S. Biology, Spelman College, Atlanta, GA.
2011 – 2012	Ashley Ward, B.S. Mathematics, Spelman College, Atlanta, GA.
2011	India A. Abdul-Salaam, B.S., Georgia State University, Atlanta, GA.
2010	Alexandria Hill, B.S. Biology, Clayton State University, Morrow, GA.
2010	Brittani Summers, B.S. Chemistry, Spelman College, Atlanta, GA, MBRS/RISE research program.

Scholarly and Professional Activities

Publications

I. Scholarly Journal Publications – peer reviewed

1. Yu X, **Capers PL**, Zoh RS, Allison DB (2023). Correcting calculation and data errors reveals that the original conclusions were incorrect in “The best drug supplement for obesity treatment: A systematic review and network meta-analysis” *Diabetol Metab Syndr* 15, 163. <https://doi.org/10.1186/s13098-023-01134-6>.
2. **Capers, PL**. Depicting Plasma Membrane Composition and Membrane Transport Using a Worksheet or In-Class Demonstration. *HAPS Teaching Tips*. 2021.
3. Borah R, Brown AW, **Capers PL**, Kaiser KA (2017). The future of evidence-based medicine is not yet bright: A meta-analysis of the time and workers needed to conduct systematic reviews of medical interventions. *BMJ Open*. 7(2): e012545. doi: 10.1136/bmjopen-2016-012545. PMID: 28242767.
4. **Capers PL**, Kinsey AW, Miskell EL, Affuso O (2016). Visual Representation of Body Shape in Women: Clinical Considerations. *Clin Med Insights Womens Health*. 9(Suppl 1): 63 – 70. doi: 10.4137/CMWH.S37587. PMID: 27478392.
5. Kristina Tymes-Wilbekin, Austin Clark, **Patrice L. Capers**, Kathryn A. Kaiser (2015). The effect of behavioral interventions on body weight in children: a systematic review and meta-analysis. *Inquiro*. 9.
6. **Capers PL**, Fobian AD, Kaiser KA, Borah R, Allison DB (2015). A systematic review and meta-analysis of randomized controlled trials of the impact of sleep duration on adiposity and components of energy balance. *Obes Rev*. doi: 10.1111/obr.12296. PMID 26098388.
7. **Capers PL**, Brown AW, Dawson J and Allison DB (2015). Double sampling with multiple imputation to answer large sample meta-research questions: Introduction and illustration by evaluating adherence to two simple CONSORT guidelines. *Front. Nutr*. 2: 6. doi: 10.3389/fnut.2015.00006. PMID: 25988135.
8. **Patrice L. Capers**, Hyacinth I. Hyacinth, Shayla Cue, Prasanthi Chappa, Tatyana Vikulina, Susanne Roser-Page, M. Neale Weitzmann, David R. Archer, Gale W. Newman, Alexander Quarshie, Jonathan K. Stiles and Jacqueline M. Hibbert (2015). Body composition and grip strength are improved in transgenic sickle mice fed a high-protein diet. *J Nutr Sci*. 4, e6. doi:10.1017/jns.2014.63. PMID: 26090102.

9. Gareth Dutton, Kevin Fontaine, Amy Thomas, John Dawson, **Patrice Capers**, David Allison (2015). Randomized Controlled Trial Examining Expectancy Effects on the Accuracy of Weight Measurement. *Clin Obes.* 1: 38-41. PMID: 25530148.
10. Mancini EA, Hyacinth HI, **Capers PL**, Archer DR, Pitts S, Ghosh S, Patrickson J, Titford ME, Ofori-Acquah SF, Hibbert JM (2014). High protein diet attenuates histopathologic organ damage and vascular leakage in transgenic murine model of sickle cell anemia. *Exp Biol Med (Maywood)*. 8: 966-974. PMID: 24842894.
11. Hyacinth HI, **Capers PL**, Archer DR, Hibbert JM (2014). TNF- α , IFN- γ , IL-10 and IL-4 levels are elevated in a murine model of human sickle cell anemia maintained on a high protein/calorie diet. *Exp Biol Med (Maywood)*. 1:65-70. PMID: 24281564.
12. Hurd EA, **Capers PL**, Blauwkamp MN, Adams ME, Raphael Y, Poucher HK, Martin DM (2007). Loss of *Chd7* function in gene-trapped reporter mice is embryonic lethal and associated with severe defects in multiple developing tissues. *Mamm Genome*. 2: 94-104. PMID: 17334657.

II. Other Published Evidence of Scholarship (Patents, Recommendations & Published Abstracts):

1. Zanin MK, DeStefano JW, **Capers PL**, Zuraw LA. Catabolism of Glucose via Extracellular Enteric Glycolysis and Lactic Acid Fermentation for the treatment of Cancer, Type 2 Diabetes Mellitus, and Obesity. – Patent Filed August 11, 2021, in the United States Patent and Trademark Office having Application Serial No. 63/231,968.
2. Allison D, **Capers P** and Li P: F1000Prime Recommendation of [Evans CR et al., J Epidemiol Community Health2015]. In F1000Prime, 05 Oct 2015; doi: 10.3410/f.725689621.793510034. F1000Prime.com/725689621#eval793510034
3. **Capers PL**, Brown AW, Dawson J and Allison DB (2015). Double sampling with multiple imputation to answer large sample meta-research questions: Introduction and illustration by evaluating adherence to two simple CONSORT guidelines. April 2015 *The FASEB Journal* 29 (1) Supplement 735.1.
4. Hyacinth HI, **Capers PL**, Chappa P, Quarshie A, Newman G, Weitzman N, Archer DR, Hibbert JM. Th1 and Th2 cytokine levels are increased in murine models of human sickle cell anemia maintained on a high protein calories feed. *Br J Haematol*. 2012 157 (Suppl 1): Abstr. 13 April.
5. **Capers PL**, Gee BE, Hyacinth HI, Newman GW, Stiles JK, Quarshie A, Osunkwo I, Hibbert JM. What's Your Tanner? An Analysis of the Impact of Sickle Cell Disease Phenotype on Pubertal Development and Body Mass. *Blood (ASH Annual Meeting Abstracts)*, Nov 2011; 118: 2123.
6. Archer DR, Mulupuri P, Chappa P, Vikulina T, Roser-Page S, Yamaguchi M, **Capers PL**, Hyacinth HI, Hibbert JM, Weitzmann N. Inflammatory Bone Loss Drives Skeletal Deterioration in a Murine Model of Sickle Cell Disease. *Blood (ASH Annual Meeting Abstracts)*, Nov 2011; 118: 4855.
7. **Capers PL**, Hyacinth HI, Cue S, Chappa P, Archer DR, Hibbert JM. "Effect of High Protein Diet on Transgenic Sickle Mice." *FASEB J*. April 2010. 24 (Meeting abstract supplement) lb394.

Presentations at Conferences and Professional Meetings

I. Peer Reviewed (presenting author underlined)

a. Posters/Oral Presentations/Symposia

i. National/international organizations

- 2017 **Patrice L. Capers**, Michelle M. Bohan Brown, Andrew W. Brown, Cynthia M. Kroeger, Madeline J. Gibson, Kathryn A. Kaiser. A Comparison of Systematic Review Search Efficiency Between Obesity, Nutrition, Diabetes, and CVD Topics. Washington, DC. October 31, 2017. Obesity Week 2017.
- 2016 **Patrice L. Capers**, Andrew W. Brown, Joseph S. Thornton, Kathryn A. Kaiser, TaShauna U. Goldsby, David B. Allison. Evaluation of Rapid Crowdsourcing Methods to Identify Obesity-Related Studies. New Orleans, LA. November 3, 2016. Obesity Week 2016.
- 2015 Kathryn A. Kaiser, Rohit Borah, Andrew W. Brown, **Patrice L. Capers**. The future of evidence-based medicine is not so bright: A meta-analysis of the PROSPERO systematic review registry. Edinburgh. September 28-30. 2015 REWARD | EQUATOR Conference.
- 2015 **Capers PL**, Fobian AD, Kaiser KA, Bohar R, Allison DB. A systematic review and meta-analysis of randomized controlled trials of the impact of sleep duration on adiposity and components of energy balance. San Diego, CA. June 14-16. 2015 National IRACDA Conference.
- 2015 **Capers PL**, Brown AW, Dawson J, Allison DB. Double sampling with multiple imputation to answer large sample meta-research questions: Introduction and illustration by evaluating adherence to two simple CONSORT guidelines. Boston, MA. March 28 – April 1. Poster Presentation. Experimental Biology 2015.
- 2014 Gareth R. Dutton, Kevin R. Fontaine, Amy S. Alcorn, John Dawson, **Patrice L. Capers**, David B. Allison. A Randomized Controlled Trial Examining Expectancy Effects on the Accuracy of Weight Measurement. Boston, MA. November 3-6. Poster presentation. Obesity Week 2014.
- 2012 **Capers PL**, Gee BE, Hyacinth HI, Newman GW, Stiles JK, Quarshie A, Osunkwo I, Hibbert JM. *Normal Pubertal Development is Achievable in Sickle Cell Disease*. San Juan, Puerto Rico. Dec. 10-13. Poster Presentation. 13th RCMI International Symposium on Health Disparities.
- 2012 Hyacinth HI, **Capers PL**, Chappa P, Quarshie A, Newman G, Weitzman N, Archer DR, Hibbert JM. *Th1 and Th2 cytokine levels are increased in murine models of human sickle cell anemia maintained on a high protein calories feed*. SECC, Glasgow. April 16-18. Oral Presentation. 52nd Annual Scientific Meeting of the British Society for Haematology.
- 2011 **Capers PL**, Gee BE, Hyacinth HI, Newman GW, Stiles JK, Quarshie A, Osunkwo I, Hibbert JM. *What's Your Tanner? An Analysis of the Impact of Sickle Cell Disease Phenotype on Pubertal Development and Body Mass*. San Diego, CA. Dec. 10-13. Poster Presentation. 53rd Annual Meeting of the American Society of Hematology.
- 2010 **Capers PL**, Hyacinth HI, Cue S, Chappa P, Nash R, Weitzmann N, Archer DR, Newman GW, Hibbert JM. *The Effect of High Protein Diet on Body Composition*

of *Sickle Mice*. Nashville, TN. Dec. 6-9. Poster Presentation. 12th RCMI International Symposium on Health Disparities.

- 2010 **Capers PL**, Hyacinth HI, Chappa P, Cue S, Archer DR, Newman GW, Hibbert JM. *Effect of High Protein Diet on Transgenic Sickle Mice*. Anaheim, CA April 24-28. Poster Presentation. 2010 Experimental Biology Conference.
- 2010 **Capers PL**, Hyacinth HI, Chappa P, Cue S, Archer DR, Newman GW, Hibbert JM. *A high protein diet for reducing inflammation and improving muscle strength in transgenic sickle mice*. Washington, DC April 5-7. Poster Presentation. 2010 Clinical and Translation Research and Education Meeting ACRT/ SCTS Joint Annual Meeting.
- 2006 Hurd EA, **Capers PL**, Blauwkamp MN, Adams ME, Raphael Y, Poucher HK, Martin DM. *Chd7 deficiency disrupts embryonic development*. Anaheim, CA Nov. Poster presentation. 2006 Annual Biomedical Research Conference for Minority Students (ABRCMS).

ii. State/Regional organizations

- 2022 John Alexander Shirley, Philip Andrew Newman, Kristy Johnson, **Patrice Linette Capers**. Optimization of Cortisol Extraction (Homogenization v. No Homogenization and Most Effective Bead Types). Spartanburg, SC. October 14 – 15, 2022. SoCon Undergraduate Research Forum (SURF).
- 2006 Hurd EA, **Capers PL**, Blauwkamp MN, Adams ME, Raphael Y, Poucher HK, Martin DM. *Chd7 deficiency disrupts embryonic development*. Chicago, IL July Poster presentation. 2006 Big Ten Summer Research Opportunity Program (SROP) Conference.

iii. Local organizations

- 2023 John Alexander Shirley, Philip Andrew Newman, Kristy Johnson, **Patrice Linette Capers**. Optimization of Cortisol Extraction (Homogenization v. No Homogenization and Most Effective Bead Types). North Charleston, SC. March 23, 2023. The Citadel Academy of Science and Mathematics (CASM) Annual Banquet and Awards Ceremony.
- 2022 John Alexander Shirley, Philip Andrew Newman, **Patrice Linette Capers**. Optimization of Cortisol Extraction (Homogenization v. No Homogenization and Most Effective Bead Types). Charleston, SC. August 22, 2022. Summer Undergraduate Research Experience (SURE) program.
- 2018 Cynthia M. Martinez, **Patrice L. Capers**. A Comparison of the Quality of Food Environment Research in the United States. March 22, 2018. The Citadel Academy of Science & Mathematics Awards Banquet.
- 2016 **Patrice L. Capers**, Amber W. Kinsey, Edrika L. Miskell, Olivia Affuso. Visual Representation of Body Shape in Women: Clinical Considerations. Birmingham, AL. April 21, 2016. UAB Health Disparities Research Symposium 2016.
- 2016 **Patrice L. Capers**, Andrew W. Brown, Joseph S. Thornton, Kathryn A. Kaiser, TaShauna U. Goldsby, David B. Allison. Disparities in the Quality of Obesity-

- Related Research. Birmingham, AL. April 6, 2016. 8th Annual Public Health Practice and Research Day.
- 2016 **Patrice L. Capers**, Rohit Borah, Andrew W. Brown, Kathryn A. Kaiser. The future of evidence-based medicine is not so bright: A meta-analysis of the PROSPERO systematic review registry. Birmingham, AL. February 15, 2016. UAB Postdoctoral Research Day.
- 2015 Bohar R, Brown AW, **Capers PL**, Kaiser KA. So you want to do a systematic review? Lessons learned from the PROSPERO registry. Birmingham, AL. April 9. Public Health Research and Practice Day.
- 2015 **Capers PL**, Fobian AD, Kaiser KA, Bohar R, Allison DB. A systematic review and meta-analysis of randomized controlled trials of the impact of sleep duration on adiposity and components of energy balance. Birmingham, AL. April 9. Public Health Research and Practice Day.
- 2015 **Capers PL**, Brown AW, Dawson J, Allison DB. Double sampling with multiple imputation to answer large sample meta-research questions: Introduction and illustration by evaluating adherence to two simple CONSORT guidelines. Birmingham, AL. Feb. 16. Oral Presentation. Postdoctoral Research Day.
- 2014 Austin Clark, Kristina Tymes-Wilbekin, **Patrice L. Capers**, Kathryn A. Kaiser, David B. Allison. Diet, Exercise, or Both for Improving Obesity Measures in Children: A Meta-Analysis. Birmingham, AL. July 24. Poster Presentation. UAB Summer Research Expo.
- 2013 Carrithers BK, **Capers PL**, Hibbert JM. Dietary Supplements Lower Resting Energy Expenditure and Increase Bone Mineral Density and Bone Mineral Composition in Sickle Cell Anemia Children. Atlanta, GA. April. Poster Presentation. Spelman College Research Day.
- 2013 Carrithers BK, **Capers PL**, Hibbert JM. Dietary Supplements Lower Resting Energy Expenditure and Increase Bone Mineral Density and Bone Mineral Composition in Sickle Cell Anemia Children. Atlanta, GA. Feb. 13-14. Poster Presentation. 2013 Curtis L. Parker Student Research Symposium.
- 2013 **Capers PL**, Mancini EA, Hyacinth HI, Archer DR, Patrickson J, Cue S, Ghosh S, Pitts S, Chappa P, Ofori-Acquah SF, Newman GW, Quarshie A, Hibbert JM. *High Protein Diet Reduces Organ Damage in Sickle Mice*. Atlanta, GA. Feb. 13-14. Oral Presentation. 2013 Curtis L. Parker Student Research Symposium.
- 2012 Ward AB, Hyacinth HI, **Capers PL**, Hibbert JM. *Does body mass index of sickle cell anemia patients vary with the socioeconomics of their home country?* Atlanta, GA. Feb. 7-8. Oral Presentation. 2012 Curtis L. Parker Research Symposium.
- 2012 **Capers PL**, Gee BE, Hyacinth HI, Newman GW, Stiles JK, Quarshie A, Osunkwo I, Hibbert JM. *Normal Pubertal Development is Achievable for All Phenotypes of Sickle Cell Disease*. Atlanta, GA. Feb. 7-8. Oral Presentation. 2012 Curtis L. Parker Student Research Symposium.
- 2011 **Capers PL**, Hyacinth HI, Cue S, Chappa P, Nash R, Weitzmann MN, Archer DR, Newman GW, Quarshie A, Hibbert JM. *High Protein Diet Improves Muscle Strength and Body Composition of Sickle Mice*. Atlanta, GA. Feb. 8-9. Oral Presentation. 2011 Curtis L. Parker Student Research Symposium.

- 2010 Summers B, **Capers PL**, Cue S, Hyacinth HI, Gee BE, Osunkwo I, Hibbert JM. *Sickle Cell Disease Associated Nutritional Deficiencies*. Atlanta, GA April. Poster Presentation. Spelman College Research Day.
- 2010 **Capers PL**, Hyacinth HI, Chappa P, Cue S, Archer DR, Hibbert JM. *A high protein diet for improving rate of weight gain and muscle strength in transgenic sickle cell mice*. Atlanta, GA Feb. 9-10. Oral Presentation. 2010 Curtis L Parker Student Research Symposium.
- 2008 **Capers PL**, Akinbami M, Babayeva O, and Gee BE. *The Effect of Allopurinol on Carotid Artery Remodeling in Mice*. Spelman College MBRS-RISE Journal.
- 2008 **Capers PL**, Akinbami M, Babayeva O, and Gee BE. *The Effect of Allopurinol on Carotid Artery Remodeling in Mice*. Atlanta, GA April. Oral presentation. Spelman College Research Day.
- 2008 **Capers PL**, Akinbami M, Babayeva O, and Gee BE. *The Effect of Allopurinol on Carotid Artery Remodeling in Mice*. Atlanta, GA Feb. Poster presentation. 2008 Curtis L Parker Student Research Symposium.
- 2007 **Capers PL**, Akinbami M, Babayeva O, Gee BE. *Effect of Artery Injury on Intimal-medial thickening in mice with normal and high blood pressure*. Atlanta, GA July. Poster presentation. Spelman College Summer MBRS-RISE Symposium.
- 2007 **Capers PL**, Manlove-Simmons J, Gee BE. *Effect of Xanthine Oxidase on adhesion of normal and sickle red blood cells to brain endothelial cells*. Spelman College MBRS-RISE Journal.
- 2007 **Capers PL**, Manlove-Simmons J, Gee BE. *Xanthine Oxidase on adhesion of normal and sickle red blood cells to brain endothelial cells*. Atlanta, GA April. Poster presentation. Spelman College Research Day.
- 2006 Hurd EA, **Capers PL**, Blauwkamp MN, Adams ME, Raphael Y, Poucher HK, Martin DM. *Chd7 deficiency disrupts embryonic development*. Ann Arbor, MI July Oral presentation. 2006 University of Michigan SROP.

b. Workshops (National/International Organizations)

- 2023 **Capers PL**. Picturing skeletal muscle contraction. Human Anatomy and Physiology Society 37th Annual Conference. May 28, 2023. Albuquerque, NM
- 2019 **Capers PL**, Tabitha Hardy. Co-Presenters of “Cultivating your Scientific Swag” Session. Annual Biomedical Research Conference for Minority Students (ABRCMS) 2019. November 15, 2019. Anaheim, CA
- 2018 **Capers PL**, Tabitha Hardy. Co-Presenters of “Developing your Scientific Swag” Session. Annual Biomedical Research Conference for Minority Students (ABRCMS) 2018. November 17, 2018. Indianapolis, IN
- 2016 **Capers PL**. Co-Presenter of “Think it Through: Guiding Students to Authentically Solve Problems” Session. NSTA 2016 Portland Area Conference. November 11, 2016. Portland, OR

II. By Invitation or Volunteer

a. National/International Organizations

- 2016 **Capers PL.** Co-Director of Symposium “Techniques and Challenges in Systematically Synthesizing Obesity and Nutrition Intervention Studies to Estimate Effects”. Obesity Week 2016 Conference. November 3, 2016. New Orleans, LA
- b. Local Organization**
- 2023 **Capers PL.** Presenter “The Power of Egos/Politics and people skill sin grad school How to build skills to manage egos/politics.” Oakwood University STEM Seminar Series. January 30, 2023, Zoom.
- 2019 **Capers PL.** Presenter “Mysterious Ingredients/ Life as a Scientist who teaches”. Buist Academy Career Day. March 21, 2019. Charleston, SC
- 2017 **Capers PL.** Presenter of “Neuronal Communication” Workshop. Teacher professional development workshop. December 16, 2017. Birmingham, AL
- 2017 **Capers PL.** Presenter of “Medicine and Me” Workshop. Teacher professional development workshop. October 14, 2017. Birmingham, AL
- 2016 **Capers PL.** Co-Presenter on “Understanding Alabama Course of Study Standards (K -5) through experiments”. Booker T. Washington K-8 School. September 23, 2016. Birmingham. AL
- 2016 **Capers PL.** Panelist for “A Map for Success”. University of Alabama at Birmingham. September 7, 2016. Birmingham, AL
- 2016 **Capers PL.** Panelists for RISE Program Alumnae Panel. Spelman College. April 21, 2016. Atlanta, GA
- 2016 **Capers PL.** Panelists for STEM Panel Discussion. Oakwood University. April 8, 2016. Huntsville, AL
- 2016 **Capers PL.** “Disparities in the Research Quality of Obesity-Related Research”. Spelman College RISE Program Seminar Series. March 31, 2016. Atlanta, GA
- 2016 **Capers PL.** Panelist for Undergraduate Research 101. University of Alabama at Birmingham. February 3, 2016. Birmingham, AL
- Fall/ Spr 2014 **Capers PL.** “Professionalism”. Stillman College. April 22 & September 23. Tuscaloosa, AL
- 2013 **Capers PL.** “Being Your BEST You”. St. John’s Reformed Episcopal Church. June 9, 2013. Charleston, SC
- 2013 **Capers PL.** Panelist for Spelman College Junior Interview Preparation Workshop. Spelman College. March 2013. Atlanta, GA
- 2011 **Capers PL.** “Nutritional Complications of Sickle Cell Disease”. 2011 Spelman College MBRS-RISE Summer Research Keynote Address Speaker. July 15, 2011. Atlanta, GA
- 2011 **Capers PL.** “Preparing Tomorrow’s Leaders Today”. Mary B. Thomas Girl Youth Circle. June 2011. Charleston, SC

Grants

Research Funding

A. Externally Funded Research Grants

- a. NIH NIGMS K12 GM088010, UAB, MERIT program, Scholar 2013 – 2016
- b. NIH R25 GM058268, MSM's MBRS-RISE Program, Scholar 2010 – 2013
- c. NIH NHLBI R21 HL092358, JM Hibbert, Scholar 2009 – 2013
- d. NIH NCRR P20 RR0111044, JM Hibbert, Scholar 2009 – 2013
- e. NIH R25 RR017694, Clinical Research & Education Development, Scholar 2009 – 2010
- f. NIH TL1 RR025010, ACTSI, TL1 program, Scholar 2009 – 2010
- g. NIH K01 HLO73171, Spelman College's MBRS- RISE Program, Scholar 2006 – 2008

B. Externally Funded Non-Research Grants

- a. NAAHP Travel Grant for Denver 2022 National Conference

C. Citadel Foundation (CF) Research Grants

- a. TCF Grant, Faculty Research Grant, FY24
- b. SFSSM Special Funds, FY22
- c. TCF Grant, Faculty Research Grant, FY20

D. Citadel Foundation (CF) Presentation or Development Funds

- a. TCF Grant, Professional Development Grant, FY23
- b. TCF Grant, Professional Development Grant, FY22
- c. TCF Grant, Professional Development Grant, FY21

Workshop and Professional Development Activities

A. Workshops attended for professional development

2017 Medicine and Me / Big Data Training Workshop. Buffalo, NY

B. Advanced courses or other off-campus professional development activities

Fall 2016 Teaching with Technology Course (GRD 757)

Fall 2016 Creating Assessments & Evaluation Plans (GRD 753)

July 2015 Short Course on Strengthening Causal Inference in Behavioral Obesity

June 2015 Short Course on Mathematical Sciences in Obesity Research

Spring 2015 Developing a Teaching Portfolio (GRD 716)

Spring 2014 Energetics: Scientific Foundations of Obesity and Other Health Aspect
(PUH 690)

Spring 2014 Teaching at the College Level and Beyond (GRD 705)

Fall 2013 Presenting Effectively (GRD 707)

C. Participation in on-campus professional development activities

The Citadel

2021 De-escalation tactics for the workplace Workshop

2021 Assessment Workshop
2018 Freshman Seminar Workshop
2017 – 18 New Faculty Seminar 101

The University of Alabama at Birmingham

Spring 2016 Principles of Scientific Integrity
2015 Responsible Communication of Science
2015 Student “Customer” Service Training
Spring 2014 Grant Writing Course
2014 Team Based Learning Workshop
Fall 2013 Lab Management Course

Service

Service to the College

A. Standing college-wide committees

Academic Assessment Committee
Provost Advisory Committee

B. College-wide ad hoc committees or task forces

2023 - Mentor for New Faculty (Dr. Adriana Boersner Herrera) – The Citadel
CEITL&DE Program
2022 - Mentor for New Faculty (Dr. Eva Singleton) – The Citadel CEITL&DE
Program
2021 - Mentor for New Faculty (Dr. Chao Gu) – The Citadel CEITL&DE Program

C. Other service to the College

The Citadel

2021 SACSCOC Annual Meeting
2021 Association of American Colleges & Universities (AAC&U) Virtual Conference on
Diversity, Equity, & Student Success – Upholding These Truths: Equity, Diversity, and
Democracy

2020 Created Freshman Seminar Course “Ethics of Human Experimentation”
2021 Created Wellness Strand Course “Human Diseases”
2018 Participated in the Commencement Exercises for the Graduate College
2017 Reflection Leader (with Sophomores), The Citadel

University of Alabama at Birmingham

2014 Summer in Biomedical Sciences Mentor (UAB)
2014 Member of search committee for statistician (UAB)
2014 – 2016 Mentor for Lab Shadowing 2-day experience (UAB)

2013 – 2016 Co-Compiler, Obesity and Energetic Offerings, UAB

Morehouse School of Medicine

2012 – 2013 Student Representative, MSM MBRS-RISE Program Institutional Advisory Committee, MSM

2011 – 2012 Student Representative, GEBS Curriculum Committee, MSM

2010 – 2012 PhD/ MSCR Representative, GEBS Committee, MSM

2010 Lab Skills Workshop Assistant, MSM

2010 Graduate Student Association, President, MSM

2009 – 2010 PhD representative, Community Service Advisory Board, MSM

2009 Graduate Student Association, Vice President, MSM

Service to the School and/or Department

a. Departmental/School standing committee/Programs

2017 - Proctor for the Biology Major Field Test

2017 - Member of the Assessment Committee, Department of Biology

b. Departmental ad hoc committees or task forces

2022 Faculty Representative for the Biology Department at the State Board of Nursing Meeting

2022 “Foundations in Biology” course development meetings

2021 - Anatomage Tour / Field Trip Organizer

2018 - Led “Tower of Cups Challenge” teambuilding activity at Faculty-Freshman Gathering for the Biology Department

2017 - Coordinator Anatomy and Physiology Labs.

c. Other School or Departmental service

Guest Lecturer for Mammalian Physiology & Cell and Molecular Biology Lab

Service to Students

A. Summary of student advising responsibilities

Serve as an advisor to 14 undergraduate students.

B. Faculty advisor roles for clubs, companies, or other student groups

2021 - Pre-Health Society Advisor, The Citadel

C. Other service to students

2021 - Pre-Health Professions Committee (PHPC) Member

2021 - Pre-Health Advisor

2021 Led Personal Statement Workshop. Pre-Health Society Meeting.

- 2022 Led Student Toolkit for Success Workshop. Pre-Health Society Meeting
- 2021 - Attend NAAHP/SAHP seminars/workshops

Service to the Community or Public

A. Service in editorial reviewing for conferences or publications

- 2022 - HAPS Educator Reviewer
- 2017 - Ad Hoc Review for Pediatrics
- 2014 - Ad Hoc Reviewer for American Journal of Lifestyle Medicine
- 2015 - Ad Hoc Reviewer for PLOS ONE
- 2013 - Ad Hoc Reviewer for American Journal of Clinical Nutrition
- 2013 - Ad Hoc Reviewer for Clinical Obesity
- 2013 - Ad Hoc Reviewer for Obesity
- 2013 - Ad Hoc Review for Journal of Health Care for the Poor and Underserved

B. Other service to the community

- 2019 Buist Academy Career Day Presenter
- 2019 ABRCMS 2019 Judge
- 2021 Invitation to serve as Alumni Interviewer for Morehouse School of Medicine
Provost-Dean Finalist
- 2022 Moderated a Panel Discussion on “Black Communities and Health Disparities”
- 2018 - Led three ALERT Richland County Field Trip Sessions.
- 2015 - 2016 UAB School of Public Health, The Synergeo Movement: VERVE
- 2015 Judge for “Emerging Leaders in Nutrition Science Poster Competition” for the
American Society of Nutrition at Experimental Biology 2015
- 2011 – 2015 Howard Hughes Medical Institute Network Mentor, Spelman College
- 2012, 2013 Spelman College Research Day Judge
- 2009, 2010 Vivien Thomas Summer Program Mentor, MSM (Mentored 3 high school students)
- 2009 Mini-Medical School Mentor, MSM
- 2008, 2009, 2012 Ben Carson Academy Student Volunteer, MSM

C. Non-science related service to the community

- 2022 Ashley Hall Room Parent.
- 2018 - District 1 Mother Advisor of Mary B. Thomas Girls Youth Circle.
- 2017 - Associate Mother Advisor for Progressive Unit # 310 Mary B. Thomas
Youth Girls Circle
- 2017 - Girl Scout Troop Leader (Troop #128), St. John’s Reformed Episcopal
Church
- 2011 - 2017 Girl Scout Troop Leader, Hillside International Chapel and Truth Center

