

---

## ERIN BASSFORD TAYLOR

---

Department of Physiology and Biophysics  
 University of Mississippi Medical Center  
 2500 North State Street Jackson, MS 39216  
 601-984-1818  
 ertaylor@umc.edu

---

### Education

**Doctor of Philosophy**, May 2015, University of Mississippi Medical Center (UMMC)  
 Major: Microbiology and Immunology  
 Dissertation Title: "Molecular and functional characterization of antiviral cytotoxic T lymphocytes in channel catfish, *Ictalurus punctatus*"

**Master of Science**, December 2006, Mississippi State University (MSU)  
 Major: Biochemistry and Molecular Biology  
 Thesis title: "Enzymatic characterization of a unique maize defense cysteine protease an analysis of trichomes from resistant and susceptible maize inbreds"

**Bachelor of Science**, summa cum laude, May 2004, MSU  
 Major: Biochemistry and Molecular Biology, Minor: Chemistry

### Academic Positions

|                |   |
|----------------|---|
| 2022 – present | <b>Assistant Professor</b> - Department of Physiology and Biophysics, UMMC                                      |
| 2017 – 2021    | <b>Instructor</b> - Department of Physiology and Biophysics, UMMC   |
| 2015 – 2016    | <b>Postdoctoral Research Fellow</b> - Department of Physiology and Biophysics, UMMC                             |
| 2010 – 2015    | <b>Graduate Assistant</b> - Department of Microbiology and Immunology, UMMC                                     |
| 2006 – 2008    | <b>Research Associate</b> - Department of Plant and Soil Sciences, MSU  |
| 2004 – 2006    | <b>Graduate Research Assistant</b> - Biochemistry, MSU  |
| 2003           | <b>Pediatric Oncology Intern</b> - Department of Hematology and Oncology, St. Jude Children's Research Hospital |
| 2002 – 2004    | <b>Undergraduate Student Researcher</b> - Department of Biochemistry and Molecular Biology, MSU                 |

### Honors and Scholarships

2021 **Silver Award**, UMMC Excellence in Research Awards  
 2021 **Abstract award**, ET-17 17th International Conference on Endothelin  
 2021 Article named to August 2021 **APS Select**  
 2020 **Bronze Award**, UMMC Excellence in Research Awards  
 2019 **Emerging Star Award**- UMMC Group on Women in Medicine and Science  
 2018 **Outstanding Presenter Award**- UMMC School of Graduate Studies Research Day  
 2017 **Trustmark Postdoctoral Publication Award**- UMMC School of Graduate Studies in the Health Sciences Honors Day  
 2017 **APS Caroline tum Suden/Frances Hellebrandt Professional Opportunity Award**- Experimental Biology

- 2016 **Outstanding Presenter Award**- UMMC School of Graduate Studies Research Day  
 2016 **Travel Award**- APS Conference on Inflammation, Immunity, and Cardiovascular Disease  
 2016 **Juan Carlos Romero and APS Water & Electrolyte Homeostasis Section Postdoctoral Research Recognition Award**- Experimental Biology  
 2015 **Randall Trustmark Graduate Student Research Award**- UMMC School of Graduate Studies in the Health Sciences Honors Day  
 2015 **American Association of Immunologists Trainee Abstract Award**- AAI Annual Meeting  
 2014 **1<sup>st</sup> place: Rural Interdisciplinary Case Experience (RICE) Bowl**- UMMC  
 2014 **Travel Award**- North American Comparative Immunology Workshop  
 2013 **Outstanding Presenter Award**- UMMC Graduate Student Research Day,  
 2013 **Associated Student Body Student of the Year**- UMMC  
 2013 **Dean's Service Award**, UMMC School of Graduate Studies in the Health Sciences Honors Day  
 2013 **Outstanding Student Oral Presentation**- Eastern Fish Health Workshop  
 2012 **Best Poster Presentation**- 3<sup>rd</sup> North American Comparative Immunology Workshop  
 2011 **Outstanding Presenter Award**- UMMC School of Graduate Studies Research Day  
 2010 **Outstanding Presenter Award**- UMMC School of Graduate Studies Research Day  
 2010 **Phi Kappa Phi inductee**, UMMC  
 2009 **Ing "IKE" Ho PhD student scholarship**, UMMC  
 2004 **Gamma Sigma Delta** – Honor Society of Agriculture, Mississippi State University  
 2003 **Barry M. Goldwater Scholarship**, Barry Goldwater Scholarship and Excellence in Education Program for Scientists and Engineers  
 2002 **Charlie Rabb Ashford Endowment Scholarship**, Mississippi State University College of Agriculture and Life Sciences

## Research Support

### Ongoing Research Support

NIH/NHLBI- R00 HL146888 Taylor (PI) 01/05/22-12/31/2024  
*The impact of immune system dysfunction and gut dysbiosis on the pathogenesis of vascular dysfunction in autoimmunity*  
 Role: PI

NIH/NIGMS- P20 GM104357 Hall (PI) 07/01/19-03/31/22  
*The role of leptin in the development of autoimmune-associated hypertension*  
 Role: Investigator

### Completed Research Support

NIH/NHLBI- K99 HL146888 Taylor (PI) 01/01/20-12/31/2021  
*The impact of immune system dysfunction and gut dysbiosis on the pathogenesis of vascular dysfunction in autoimmunity*  
 Role: PI

NIH/NHLBI – 1F32 HL137393-01 Taylor (PI) 07/19/17-07/18/19  
*Autoantibodies and the pathogenesis of hypertension in systemic lupus erythematosus*  
 Role: PI

|  |              |                   |
|--|--------------|-------------------|
| AHA – 17POST33410862   | Taylor (PI)  | 01/01/17-07/18/17 |
| <i>Autoantibodies and the pathogenesis of hypertension in systemic lupus erythematosus</i> |              |                   |
| Role: PI   |              |                   |
| NIH/NHLBI – T32 HL105324   | Granger (PI) | 04/12/15-12/31/16 |
| <i>Hypertension and Cardiorenal Diseases Research Training Program</i>                     |              |                   |
| Role: Trainee  |              |                   |
| USDA-NIFA – GRANT11352334  | Taylor (PI)  | 08/01/13-04/11/15 |
| <i>Cytotoxic T lymphocyte markers in channel catfish, <i>Ictalurus punctatus</i></i>       |              |                   |
| Role: PI   |              |                   |

## Teaching Experience

|                |  |
|----------------|--|
| 2019 – present | Lecturer, Responsible Conduct of Research (ID 709)   |
| 2019 – present | Lecturer, Professional Skills (ID714)  |
| 2019           | Discussion leader, Renal Problem Based Learning, Medical Physiology                        |
| 2018 – present | Lecturer, Physiological Applications of Molecular Biology (PHYSIO 727)                     |
| 2017           | Lecturer, Current Issues in Biomedical Research (ID 727)                                   |
| 2017           | Guest Lecture, Medical Student Research Program, Summer 2017                               |
| 2016 – present | Lecturer, Experimental Immunochemistry and Immunobiology (MICRO 733)                       |
| 2013 – 2014    | Adjunct Microbiology Instructor, General Microbiology (4.0 credit hours), Millsaps College |
| 2012 – 2014    | Medical Microbiology Anaphylaxis Simulation Instructor (MICRO 701)                         |
| 2012 – 2013    | Dental Hygiene Oral Pathology Guest Instructor (DH 406)                                    |
| 2010           | Medical Microbiology Lab Assistant (MICRO 701)   |
| 2007 – 2008    | Soil Microbiology Lab Teaching Assistant, MSU  |

## Mentoring and Committee Activities

### Graduate Student Dissertation Committees

|             |  |
|-------------|--|
| 2018 – 2020 | Redin Spann, UMMC Department of Neurobiology and Anatomy |
|-------------|--|

### Medical Student Mentorship

|                |   |
|----------------|---|
| 2021 – present | William Kalusche, UMMC Medical Student Research Program |
| 2019 – present | Katie Jones, UMMC Medical Student Research Program      |
| 2017 – 2020    | Daniel McClung, UMMC Medical Student Research Program   |
| 2016 – 2018    | Taylor Coleman, UMMC Medical Student Research Program   |

### Undergraduate/Master's Student Mentorship

|                |   |
|----------------|---|
| 2021           | Camille Grady, Mississippi State University, UMMC Summer Undergraduate Research Experience (SURE) Program |
| 2020           | Jayla-danielle Reese, UMMC Biomedical Sciences Master's Program   |
| 2018 – present | Breanna McNair, Hinds Community College   |
| 2016 – 2017    | Julius Chembo, Lemoyne-Owen College, SURE Program   |

|             |   |
|-------------|---|
| 2015        | Akil Strawder, Southern University, SURE Program                  |
| 2014        | Jeremiah Reese, Belhaven University, SURE Program                 |
| 2014        | Maurice Whalen, Tougaloo College                                  |
| 2013 – 2014 | Jeremiah Reese, Belhaven University, SURE Program                 |
| 2012 – 2013 | Thomas Rouselle, University of Southern Mississippi, SURE Program |
| 2012        | Jemarcus Welch, Tougaloo College                                  |
| 2012        | Andrew Sinclair, Belhaven University, SURE Program                |
| 2011        | Bailey Burkhalter, Tulane University, SURE Program                |

## Leadership and Service Activities

### Local/University Leadership and Service

|                |   |
|----------------|---|
| 2020           | UMMC Immunology Journal Club Organizer                                |
| 2019 – present | Cardiovascular-Renal Research Center Work in Progress Seminar Leader  |
| 2019 – 2021    | UMMC Postdoctoral Advisory Committee                                  |
| 2017 – 2018    | Physiologists in Training Journal Club Leader                         |
| 2016 – 2017    | UMMC Postdoctoral Advisory Committee                                  |
| 2015 – present | Summer Undergraduate Research Experience Lab Olympics Instructor      |
| 2015 – 2018    | School of Graduate Studies in the Health Sciences Alumni Board Member |
| 2014 – present | Group Leader, PhUN week, Mississippi Children's Museum                |
| 2014 – 2015    | UMMC Interprofessionalism Committee                                   |
| 2014 – 2015    | Team Leader, Department of Microbiology Discovery U                   |
| 2014           | Madison Central High School Discovery U Mentor                        |
| 2013 – 2015    | Davis Magnet Elementary Project REACH Teaching Program Volunteer      |
| 2013 – 2014    | Philanthropy Coordinator- UMMC Associated Student Body                |
| 2012 – 2013    | English Conversation Group for International Graduate Students Leader |
| 2012 – 2013    | President- UMMC Graduate Student Body                                 |
| 2012 – 2013    | Graduate Student Representative to UMMC Service Committee             |
| 2011 – 2012    | Philanthropy Coordinator- UMMC Graduate Student Body                  |
| 2010 – present | High School Science Fair Judge  |
| 2010 – 2012    | Medical Biochemistry Tutor, UMMC                                      |
| 2005 – 2008    | Undergraduate Biochemistry Tutor, MSU                                 |
| 2004 – 2009    | Girl Scout Troop Leader, Girl Scouts of Northeast Mississippi         |

### Professional Society Membership

American Physiological Society, April 2015-present  
 American Heart Association, August 2015-present  
 International Society of Developmental and Comparative Immunology, April 2012-April 2015  
 American Association of Immunologists, February 2013-present

### Professional Society Service

|              |  |
|--------------|--|
| 2021         | Featured Topic Co-Chair, APS New Trends in Sex and Gender Medicine                                     |
| 2021         | Early Career Researcher Task Force, Portland Press   |
| 2019         | Reviewer, APS Outstanding Undergraduate Abstract Awards  |
| 2018-present | Reviewer, APS Summer Undergraduate Research Fellowships  |
| 2017         | Co-Chair, APS Water and Electrolyte Homeostasis Featured Topic Oral Session, Experimental Biology 2017 |

2016-present Judge, David Bruce Outstanding Undergraduate Poster Awards  
Experimental Biology

### Ad hoc reviewer:

*Hypertension*  
*Clinical Science*  
*British Journal of Pharmacology*  
*American Journal of Physiology: Renal Physiology*  
*American Journal of Physiology: Regulatory, Integrative, and Comparative*  
*PLOS One*  
*Biology of Sex Differences*  
*Frontiers in Physiology*  
*Frontiers in Medicine*  
*Frontiers in Immunology*  
*Frontiers in Pharmacology*  
*International Immunopharmacology*  
*Kidney360*  
*Metabolism*  
*Nutrients*  
*Biomedicine and Pharmacotherapy*

### Publications

1. Clemmer JS, Hillegass WB, **Taylor EB**. Antihypertensive effects of immunosuppressant therapies in the autoimmune disease systemic lupus erythematosus. Submitted to *Journal of Human Hypertension*.
2. **Taylor EB**, George EM, Ryan MJ, Garrett MR, Sasser JM. Immunological Comparison of Pregnant Dahl Salt-Sensitive and Sprague Dawley Rats Commonly Used to Model Characteristics of Preeclampsia. *Am J Physiol Regul Integr Comp Physiol*. 2021 Aug 1;321(2): R125-R138.
3. Rivera-Gonzalez O, Wilson NA, Coats LE, **Taylor EB**, Speed JS. Endothelin receptor antagonism improves glucose handling, dyslipidemia, and adipose tissue inflammation in obese mice. *Clin Sci (Lond)* (2021) 135 (14): 1773–1789.
4. Han Y, **Taylor EB**, Luthe D. Maize Endochitinase Expression in Response to Fall Armyworm Herbivory. *J Chem Ecol*. 2021 Jul;47(7):689-706.
5. **Taylor EB**. The complex role of adipokines in obesity, inflammation, and autoimmunity. *Clin Sci (Lond)* 2021 135 (6): 731–752.
6. McClung DM, Kalusche WJ, Jones KE, Ryan MJ, **Taylor EB**. Hypertension and endothelial dysfunction in the pristane model of systemic lupus erythematosus. *Physiol Rep*. 2021 Feb; 9(3): e14734.
7. Engel JE, Williams ML, Williams E, Azar C, **Taylor EB**, Bidwell GL, Chade AR. Recovery of Renal Function Following Kidney Specific VEGF Therapy in Experimental Renovascular Disease. *Am J Nephrol* 2020; 51:891–902.

8. Dent EL, **Taylor EB**, Turbeville HR, Ryan MJ. Curcumin Attenuates Autoimmunity and Renal Injury in an Experimental Model of Systemic Lupus Erythematosus. *Physiol Rep* 2020 Jul; 8(13): e14501.
9. Dent EL, **Taylor EB**, Sasser JM, Ryan MJ. Hemodynamic Changes in a Female Mouse Model of Systemic Lupus Erythematosus. *Am J Physiol Renal Physiol* 2020 May 1;318(5):F1074-F1085.
10. Person JM, Welch BA, Spann RA, Harris KK, Pride Y, Tucci MA, **Taylor EB**, Grayson BE. Immuno-hematologic parameters following rodent spinal cord contusion are negatively influenced by high fat diet consumption. *J Neuroimmunol* 2020 Jun 15;343:577226.
11. Johnson AC, WU W, Attipoe E, Sasser JM, **Taylor EB**, Showmaker KC, Kyle PB, Lindsey ML, Garret MR. Loss of Arhgef11 in the Dahl salt-sensitive rat protects against hypertension-induced renal injury. *Hypertension* 2020; 75:1012–1024.
12. **Taylor EB**, Chinchar VG, Quiniou SMA, Wilson M, Bengten E. Cloning and characterization of antiviral cytotoxic T lymphocytes in channel catfish, *Ictalurus punctatus*. *Virology* 2020 15 Jan; 184-194.
13. Eddy AC, Howell JA, Chapman H, **Taylor EB**, Mahdi F, George EM, Bidwell GL III. Biopolymer-delivered, maternally sequestered NF- $\kappa$ B inhibitory peptide for treatment of preeclampsia. *Hypertension*. 2020 Jan;75(1):193-201.
14. Spann RA, **Taylor EB**, Welch BA, Grayson BE. Altered immune system in offspring of rat maternal vertical sleeve gastrectomy. *Am J Physiol Regul Integr Comp Physiol*. 2019 Dec 1;317(6): R852-R863.
15. Himel AR, **Taylor EB**, Phillips CL, Welch B, Spann RA, Bandyopadhyay S, Grayson, BE. Splenectomy fails to attenuate immuno-hematologic changes after rodent vertical sleeve gastrectomy. *Exp Biol Med* (Maywood). 2019 Oct;244(13):1125-1135.
16. Wolf VL, Phillips TL, **Taylor EB**, Sasser JM, Ryan MJ. Human recombinant relaxin-2 does not attenuate hypertension or renal injury but exacerbates vascular dysfunction in a female mouse model of SLE. *Am J Physiol Heart Circ Physiol*. 2019 Aug 1;317(2):H234-H242.
17. **Taylor EB**, Ryan MJ. Freedom isn't always free: Immunoglobulin free light chains promote renal fibrosis. *J Clin Invest*. 2019 Jun 17; 130: 2660-2662.
18. **Taylor EB**, Maeda KJ, Sasser JM, Ryan MJ. Expansion of regulatory T cells using low dose IL-2 attenuates hypertension in an experimental model of systemic lupus erythematosus. *Am J Physiol Renal Physiol*. 2019 Mar 20. doi: 10.1152/ajprenal.00616.2018. [Epub ahead of print].
19. Wolf VL, **Taylor EB**, Ryan MJ. Cyclophosphamide treatment for hypertension and renal injury in an experimental model of systemic lupus erythematosus. *Physiol Rep*. 2019 May;7(10): e14059.
20. **Taylor EB**, Wolf VL, Dent E, Ryan MJ. Mechanisms of Hypertension in Autoimmune Rheumatic Diseases. *Br J Pharmacol*. 2019 Jun; 176(12): 1897-1913.

21. Turbeville HR, **Taylor EB**, Garrett MR, Ryan MJ, Sasser JM (2019). Superimposed preeclampsia exacerbates postpartum renal injury despite lack of long-term blood pressure difference in the Dahl salt sensitive (S) rat. *Hypertension*. 2019 Mar;73(3):650-658.
22. **Taylor EB**, Barati MT, Powell DW, Turbeville HR, Ryan MJ. (2018). Plasma Cell Depletion Attenuates Hypertension in an Experimental Model of Autoimmune Disease. *Hypertension*. 2018 Apr;71(4):719-728.
23. **Taylor EB**, Sasser JM. (2017). Role of natural killer cells and T lymphocytes in pregnancy and preeclampsia. *Clinical Science*. 2017 131 (24): 2911-2917.
24. Spann RA, Lawson WJ, Bidwell GL, Zamarripa CA, Maranon RO, Bandyopadhyay S, **Taylor EB**, Reckelhoff JF, Garrett MR, Grayson BE. (2017). Rodent Vertical Sleeve Gastrectomy Alters Maternal Immune Health and Feto-placental Development. *Clinical Science*. 2018 Jan 25;132(2):295-312.
25. Mathis KW, **Taylor EB**, Ryan MJ. (2017). Anti-CD3 antibody therapy attenuates the progression of hypertension in female mice with systemic lupus erythematosus. *Pharmacological Research*. 120: 252-257.
26. **Taylor EB**, Ryan MJ. (2017). Mycophenolate mofetil attenuates hypertension in an experimental model of autoimmune disease. *J Am Heart Assoc*. 2017 Feb 27;6(3).
27. El Jamal SM, **Taylor EB**, Abd Elmageed ZY, Alamodi AA, Selimovic D, Alkhateeb A, Hannig M, Hassan SY, Santourlidis S, Friedlander PL, Haikel Y, Vijaykumar S, Kandil E, Hassan M. Interferon gamma-induced apoptosis of head and neck squamous cell carcinoma is connected to indoleamine-2,3-dioxygenase via mitochondrial and ER stress-associated pathways. *Cell Div*. 2016 Aug 2; 11:11.
28. **Taylor EB**, Ryan MJ. (2016). Understanding mechanisms of hypertension in systemic lupus erythematosus using animal models. *Ther Adv Cardiovasc Dis*. 2016 Mar 15.
29. **Taylor EB**, Moulana M, Stuge T, Quiniou SMA, Bengten E, Wilson M. (2016). A Leukocyte immune-type receptor subset is a marker of antiviral cytotoxic cells in channel catfish, *Ictalurus punctatus*. *J Immunol*. 2016 Mar 15;196(6):2677-89.
30. El-Khattouti A, Selimovic D, Hannig M, **Taylor EB**, AbdElmageed ZY, Hassan SY, Haikel Y, Kandil E, Leverkus M, Brodell RT, Megahed M, Hassan M. (2015). Imiquimod-induced apoptosis of melanoma cells is mediated by ER stress-dependent Noxa induction and enhanced by NFκ-B inhibition. *Journal of Cellular and Molecular Medicine*. 2016 Feb;20(2):266-86.
31. **Taylor EB**, Wilson M, Bengten E. (2015). The Src protein kinase Lck binds to CD2, CD4-1, and CD4-2 in channel catfish, *Ictalurus punctatus*. *Molecular Immunology* 66(2): 126-138.
32. **Taylor EB**, Quiniou SMA, Nayak DK, Bengten E, Wilson M. (2015). Identification of SHIP-1 and SHIP-2 homologs in channel catfish, *Ictalurus punctatus*. *Developmental and Comparative Immunology* 51(1): 79-87.

33. Moulana M, **Taylor EB**, Edholm ES, Quiniou SM, Wilson M, & Bengtén E. (2014) Identification and characterization of TCR $\gamma$  and TCR $\delta$  chains in channel catfish, *Ictalurus punctatus*. *Immunogenetics* **66**: 545-61.
34. Luthe DS & **Taylor EB**. (2013). Maize Insect Resistance 1 – Cysteine Protease. In *Handbook of Proteolytic Enzymes*, 3rd Edition
35. Edholm E-S, Bengtén, E, Stafford JL, Sahoo, M., **Taylor, EB**, Miller, NW, & Wilson, M. (2010). Identification of two IgD+ B cell populations in channel catfish, *Ictalurus punctatus*. *J. Immunol*, 185:4082-9.
36. **Taylor EB**, & Williams, MA (2010). Microbial protein in soil: influence of extraction method and C amendment on extraction and recovery. *Microb Ecol*. 59: 390-399.
37. Williams MA, **Taylor EB**, and Mula HP (2010). Metaproteomic characterization of a soil microbial community following carbon amendment. *Soil Biol and Biochem*. 42: 1148-1156.
38. Mohan S, Ma PW, Pechan T, **Bassford ER**, Williams WP, Luthe DS. (2006). Degradation of the *S. frugiperda* peritrophic matrix by an inducible maize cysteine protease. *J. Insect Physiol*. 52: 21-28.

## Oral Presentations at Regional and National Meetings

1. Antagonism of leptin attenuates hypertension in an experimental model of SLE. Experimental Biology 2020 (virtual).
2. Leptin accelerates autoimmune disease progression and the development of hypertension in an experimental model of systemic lupus erythematosus. AHA Council on Hypertension Scientific Sessions 2019. September 2019, New Orleans, LA.
3. Leptin accelerates disease progression and the development of hypertension in an experimental model of autoimmune disease. APS Conference: Cardiovascular, Renal and Metabolic Diseases: Sex-Specific Implications for Physiology. October 2018, Knoxville, TN.
4. Leptin accelerates disease progression in an experimental model of systemic lupus erythematosus. Experimental Biology 2018, San Diego, CA.
5. Expansion of Regulatory T cells using Low-dose Interleukin-2 Attenuates Hypertension in an Experimental Model of Autoimmune Disease. Experimental Biology 2017, Chicago, IL.
6. Depletion of antibody-secreting plasma cells attenuates hypertension in an experimental model of autoimmune disease. 2016 Council on Hypertension Scientific Sessions, Orlando, FL.
7. Mycophenolate Mofetil Attenuates Hypertension in an Experimental Model of Systemic Lupus Erythematosus. Experimental Biology 2016, San Diego, CA.
8. Leukocyte immune-type receptors (LITRs) are markers of antiviral cytotoxic T lymphocytes in channel catfish, *Ictalurus punctatus*. AAI Meeting 2015, New Orleans, LA.



9. Leukocyte immune-type receptors (LITRs) are markers of channel catfish antiviral cytotoxic cells. 5<sup>th</sup> North American Comparative Immunology Workshop, Albuquerque, NM. June 2014.
10. Leukocyte Immune-Type Receptors (LITRs): Markers of antiviral cytotoxic cells in channel catfish, *Ictalurus punctatus*. 39<sup>th</sup> Eastern Fish Health Workshop, Shepherdstown, WV, May 2014.
11. T cell co-receptor function in channel catfish, *Ictalurus punctatus*. Mississippi Academy of Sciences Annual Meeting, Hattiesburg, MS, February 2014.
12. Identification of antiviral cytotoxic T lymphocytes in channel catfish, *Ictalurus punctatus*. 38<sup>th</sup> Eastern Fish Health Workshop, Gettysburg, PA. May 2013.
13. Antiviral cytotoxic cells in channel catfish, *Ictalurus punctatus*. South Central Branch American Society of Microbiology Annual Meeting, Starkville, MS. October 2012.
14. Characterization of antiviral cytotoxic cells in channel catfish, *Ictalurus punctatus*. UMMC Graduate Student Research Day. Jackson, MS.
15. Antiviral cytotoxic cells in channel catfish, *Ictalurus punctatus*. 3<sup>rd</sup> North American Comparative Immunology Workshop. Rochester, NY. June 2012.

## Abstracts

1. Case, CT, Reese, J-D, Kalusche, WJ, Jones, KE, **Taylor EB**. Long-term gut microbiota depletion exacerbates hypertension and renal injury in an experimental model of autoimmune disease. *Experimental Biology* 2022.
2. Gonzalez OR, Case TC, Speed JS, **Taylor EB**. Endothelin Receptor Antagonism Improves Adipose Tissue Inflammation and Glucose Tolerance in an Experimental Model of Autoimmune Disease. ET-17 17<sup>th</sup> International Conference on Endothelin October 2021.
3. Rivera-Gonzalez O, **Taylor EB**, Speed JS. Endothelin-1 Receptor A Blockade Attenuates Metabolic and Proinflammatory Profile in Mice Fed a High Fat Diet. *Journal of the endocrine society, ENDOCRINE* 2021
4. Davis FE, Clemmer JS, Hester RL, **Taylor EB**. Antihypertensive effects of immunosuppressive treatments in systemic lupus erythematosus. Mississippi Academy of Sciences Annual Meeting 2020.
5. **Taylor EB**, Kalusche WJ, Jones KE, Ryan MJ. Antagonism of leptin attenuates hypertension in an experimental model of SLE. *Experimental Biology* 2020.
6. Dent E, **Taylor EB**, Ryan MJ. Curcumin Improves Autoimmunity in Female Mice with SLE. *Experimental Biology* 2020.

7. **Taylor EB**, Ryan MJ. Leptin accelerates autoimmune disease progression and the development of hypertension in an experimental model of systemic lupus erythematosus. Council on Hypertension Scientific Sessions 2019, New Orleans, LA.
8. **Taylor EB**, Ryan MJ. Preventing Autoantibody Production Improves Endothelial Function in an Experimental Model of Autoimmune Disease. Experimental Biology 2019, Orlando, FL.
9. Spann R, **Taylor EB**, Grayson B. Immune System Changes in a Rat Model of Maternal Vertical Sleeve Gastrectomy. Experimental Biology 2019, Orlando FL.
10. Maeda KJ, **Taylor EB**, Ross CA, Ryan MJ, Garrett MR, Sasser JM. Bortezomib Effects in Dahl S and Angiotensin II Rat models of Hypertension. 2018 Council on Hypertension Scientific Sessions, Chicago, IL.
11. **Taylor EB**, Ryan MJ. Leptin accelerates disease progression and the development of hypertension in an experimental model of autoimmune disease. APS Conference: Cardiovascular, Renal and Metabolic Diseases: Sex-Specific Implications for Physiology. October 2018, Knoxville, TN.
12. **Taylor EB**, Bruno CM, Ryan MJ. Leptin accelerates disease progression in an experimental model of systemic lupus erythematosus. Experimental Biology 2018, San Diego, CA
13. Coleman TT, McClung D, Ryan MJ, **Taylor EB**. An atherogenic diet exacerbates vascular injury in an experimental model of systemic lupus erythematosus. Experimental Biology 2018, San Diego, CA
14. Himel AR, **Taylor EB**, Bandyopadhyay S, Ryan MJ, Grayson BE. Rodent model of rodent vertical sleeve gastrectomy results in immune changes that are not ameliorated with splenectomy. Endocrinology Society Annual Meeting 2018, Chicago, IL
15. **Taylor EB**, Barati M, Powell D, Ryan MJ. The role of plasma cells in autoimmune associated hypertension. ASN Kidney Week 2017 Annual Meeting, New Orleans, LA.
16. Wolf VL, **Taylor EB**, Ryan MJ. Immunosuppression with cyclophosphamide attenuates renal injury but not hypertension in an experimental model of autoimmune disease. 2017 Council on Hypertension Scientific Sessions, San Francisco, CA.
17. **Taylor EB**, George, EM, Garrett MR, Ryan MJ Sasser JM. Immunological Characterization of the Dahl SS Model of Superimposed Preeclampsia. 2017 Council on Hypertension Scientific Sessions, San Francisco, CA.
18. **Taylor EB**, Ryan MJ. Expansion of Regulatory T cells using Low-dose Interleukin-2 Attenuates Hypertension in an Experimental Model of Autoimmune Disease. Experimental Biology 2017, Chicago, IL.
19. **Taylor EB**, Ryan MJ. Depletion of antibody-secreting plasma cells attenuates hypertension in an experimental model of autoimmune disease. 2016 Council on Hypertension Scientific Sessions, Orlando, FL.
20. **Taylor EB**, Garrett MR, Ryan MJ, Sasser JM. Prior preeclampsia results in persistent immune activation following pregnancy in the Dahl salt sensitive rat. APS Immunity,

Inflammation, and Cardiovascular Disease 2016, Westminster, Colorado.

21. **Taylor EB**, Strawder AJ, Ryan MJ. Mycophenolate Mofetil Attenuates Hypertension in an Experimental Model of Systemic Lupus Erythematosus. Experimental Biology 2016, San Diego, CA.
22. Blackmon LE, **Taylor EB**, Bengten E, Wilson M. Monoclonal antibodies CC34 and CC41 are markers for cytotoxic cells and bind catfish leukocyte immune-type receptors. South Central Branch American Society of Microbiology Annual Meeting 2015, Hattiesburg, MS.
23. Spencer D, **Taylor EB**, Wilson M, Bengtén E. Identification and characterization of interleukin-6 in channel catfish, *Ictalurus punctatus*. South Central Branch American Society of Microbiology Annual Meeting 2015, Hattiesburg, MS.
24. **Taylor EB**, Wilson M, Bengten E. Leukocyte immune-type receptors (LITRs) are markers of antiviral cytotoxic T lymphocytes in channel catfish, *Ictalurus punctatus*. AAI Meeting 2015, New Orleans, LA.
25. Reese J, Spencer DA, **Taylor EB**, Wilson M, Bengten E. Mississippi Academy of Sciences Annual Meeting, Hattiesburg, MS, February 2015.
26. Blackmon LE, **Taylor EB**, Wilson M, Bengten E. Monoclonal antibodies CC34 and CC41 are markers of cytotoxic cells and bind to leukocyte immune-type receptors. UMMC Graduate Student Research Day. Jackson, MS.
27. Spencer DA, **Taylor EB**, Bengten E, Wilson M. October 2014. Identification of IL-6 and IL-10 homologs in channel catfish, *Ictalurus punctatus*. UMMC Graduate Student Research Day. Jackson, MS.
28. **Taylor EB**, Wilson M, Bengten E. Leukocyte immune-type receptors (LITRs) are markers of channel catfish antiviral cytotoxic cells. 5<sup>th</sup> North American Comparative Immunology Workshop, Albuquerque, NM.
29. **Taylor EB**, Wilson M, Bengten E. Leukocyte Immune-Type Receptors (LITRs): Markers of antiviral cytotoxic cells in channel catfish, *Ictalurus punctatus*. 39<sup>th</sup> Eastern Fish Health Workshop, Shepherdstown, WV, May 2014.
30. **Taylor EB**, Wilson M, Bengten, E. T cell co-receptor function in channel catfish, *Ictalurus punctatus*. Mississippi Academy of Sciences Annual Meeting, Hattiesburg, MS, February 2014.
31. **Taylor EB**, Wilson M, Bengten, E. October 2013. T cell co-receptor function in channel catfish, *Ictalurus punctatus*. UMMC Graduate Student Research Day. Jackson, MS.
32. **Taylor EB**, Chinchar VG, Wilson M, Bengten, E. May 2013. Identification of antiviral cytotoxic T lymphocytes in channel catfish, *Ictalurus punctatus*. 38<sup>th</sup> Eastern Fish Health Workshop, Gettysburg, PA.
33. **Taylor EB**, Chinchar VG, Wilson M, Bengten E. October 2012. Antiviral cytotoxic cells in channel catfish, *Ictalurus punctatus*. South Central Branch American Society of Microbiology Annual Meeting, Starkville, MS.

34. **Taylor EB**, Chinchar VG, Wilson M, Bengten, E. October 2012. Characterization of antiviral cytotoxic cells in channel catfish, *Ictalurus punctatus*. UMMC Graduate Student Research Day. Jackson, MS.
35. Wilson M, **Taylor EB**, Bengten E. June 2012. What we know and what we don't know about catfish, *Ictalurus punctatus*, B and T cells. 3<sup>rd</sup> North American Comparative Immunology Workshop. Rochester, NY.
36. **Taylor EB**, Chinchar VG, Wilson M, Bengten E. June 2012. Antiviral cytotoxic cells in channel catfish, *Ictalurus punctatus*. 3<sup>rd</sup> North American Comparative Immunology Workshop. Rochester, NY.
37. Majji S, **Taylor EB**, Hanson L, Arnizaut A, Wilson M, Bengten E, Chinchar VG. April 2012. Innate and Acquired Anti-viral Immunity in Catfish. 38<sup>th</sup> Eastern Fish Health Workshop. Lake Placid, NY.
38. **Taylor EB**, Chinchar VG, Wilson M, Bengten E. October 2011. Identification of antiviral cytotoxic cells in channel catfish, *Ictalurus punctatus*. UMMC Graduate Student Research Day. Jackson, MS.
39. **Taylor EB**, Nayak DK, Wilson M, Bengten E. October 2010. Identification of SHIP-1 and SHIP-2 homologs in channel catfish, *Ictalurus punctatus*. UMMC Graduate Student Research Day. Jackson, MS.
40. Wilson M, Edholm ES, **Taylor EB**, Sahoo M, Bengtén E. IgD-bearing cell populations in the channel catfish, *Ictalurus punctatus* 5<sup>th</sup> Aquatic Animal Models for Human Disease, Corvallis, OR, 2010.
41. **Bassford ER**, Luthe DS. April 2006. Kinetic Analysis of a Unique Maize Cysteine Protease. MSU GSA Annual Research Symposium. Mississippi State, MS.