

ABIGAIL TICE

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Department of Nutrition, Food & Exercise Sciences
FSU College of Human Sciences
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EDUCATION

PhD	Florida State University, Exercise Physiology	Present
MS	West Virginia University, Exercise Physiology	August 2019
BS	West Virginia University, Exercise Physiology Honors College Graduated Cum Laude	May 2017

HONORS AND AWARDS

Student Travel Grant December 2016, December 2018
A travel grant to cover attending Coaching & Sport Science College Conference at East Tennessee University.

2019 Van Liere Research Conference Poster Award March 22, 2019
First place award for poster presentation in the 54th Van Liere Research Conference at WVU Health Sciences Center.

LAB / RESEARCH EXPERIENCE

The Effects of Obesity, Chronic Stress, and Exercise on Pancreatic Health,
West Virginia University, Morgantown, WV August 2017 to August 2019
Advisor: Dr. Randall Bryner
Chronic stress exacerbates the negative effects of obesity on pancreatic β -cell health through the upregulation of the expression of thioredoxin-interacting protein and other pro-apoptotic factors

Laboratory Experience

- Cachexia in breast cancer internship
 - Under the direction of Dr. Emidio Pistilli
- Unconditioned chronic mild stress (UCMS) protocol help
 - Under the direction of Dr. Paul Chantler
- Electronic-cigarette pups from exposed mothers dissection help
 - Under the direction of Dr. Mark Olfert:
- Obesity, UCMS, and the effects of febuxostat dissection help
 - Under the direction of Dr. Paul Chantler
- Obesity, UCMS, exercise and the effects on the pancreas
 - Under the direction of Dr. Randy Bryner

Laboratory Techniques

- Cryostating
- Immunohistochemistry
- Rodent dissections/surgeries
- Western blotting
- Simple Protein Western
- Mitochondrial isolation (pancreas tissue)
- DC Assay/BCA Assay
- ELISAs
- Amplex Red
- TUNEL Staining

CONFERENCE PRESENTATIONS

A Descriptive Analysis of Changes in Maximal Strength and Home Runs across Several Seasons and during the Introduction of BBCOR Bats in NCAA Division I Baseball

Abigail L. Tice, W. Guy Hornsby, Jason Stone, John .P. Wagle, Michael H. Stone
(Presented at Coaches College, December 2018)

Effects of Obesity and Exercise on Pancreatic Oxidative Stress, Morphology, and Health

Abigail L. Tice, Kayla W. Branyan, Evan R. DeVallance, Kent L. Marshall, Eric E. Kelley, I. Mark Olfert, Paul D. Chantler, Randy W. Bryner
(Presented at Van Liere, WVU, March 2018 and Experimental Biology, Orlando, FL, April 2019)

Vaping during pregnancy impairs cerebrovascular function in offspring

E Burrage, E Aboaziza, K Marshall, J Moore, A Johnson, J O'Reilly, L Hare, S Dangott, **A Tice**, PD Chantler, and IM Olfert
(Presented by E. Burrage at SOT, Baltimore, MD, March 2019)

***In utero* exposure to electronic cigarettes results in aortic dysfunction**

E Aboaziza, E Burrage, J Moore, K Marshall, A Johnson, J O'Reilly, L Hare, S Dangott, **A Tice**, PD Chantler, and IM Olfert
(Presented by E. Aboaziza at SOT, Baltimore, MD, March 2019)

The Immunological Response to Chronic Stress in Obese Mice

M Parsley, E Burrage, K Marshall, G Clemons, **A. Tice**, RW Bryner, K Brundage, EE Kelley, PD Chantler
(Presented by M. Parsley at Experimental Biology, Orlando, FL, April 2019)

In Utero Exposure to Electronic Cigarettes Causes Cerebrovascular Impairment with Aging

E. Burrage, E. Aboaziza, K. Marshall, M. Parsley, J. Moore 1 , A. Johnson, J. O'Reilly, L. Hare, S. Dangott, **A. Tice**, PD. Chantler, and IM. Olfert
(Presented by E. Burrage at Experimental Biology, Orlando, FL, April 2019)

Xanthine Oxidase Mediates Cerebrovascular Function Impairment in Chronically Stressed Mice

E. Burrage, K. Marshall, M. Parsley, **A. Tice**, E. Aboaziza, A. Clay, JC Frisbee, E. Kelley, PD. Chantler

(Presented by E. Burrage at Experimental Biology, Orlando, FL, April 2019)

TEACHING EXPERIENCE

West Virginia University, Morgantown, WV August 2018 to December 2018
Graduate Teaching Assistant, Exercise Physiology

- Taught Exercise Physiology 1, an undergraduate course averaging 80 students per semester, covering the following topics: body composition, obesity, weight control, nutrition with exercise and athletes
- Developed quizzes, exams, and homework

PROFESSIONAL SERVICE

Peer-Reviewed Textbook for:

- Advanced Exercise Physiology Textbook

COMMUNITY SERVICE

Exercise Physiology Club August 2015 to May 2017
Took part in various community service projects including, but not limited to: holiday cards for nursing homes and veterans, blanket-making for Children's Hospital, Band-Aid and stuffed animal collection for Children's Hospital, fundraisers for Relay for Life, Operation Christmas Child, Thanksgiving basket/food drive collections; served on Presidential Committee 2016-2017 school year

WVU Club Sports May 2016 to Present
Took part in activities to promote physical exercise in the school and surrounding community through various programs; participated in Rise Against Hunger project and stuffed bags full of non-perishables for those in need

INTERNSHIP

Human Performance Lab August 2016 to May 2017
Worked one-on-one aerobically and anaerobically training clients with a variety of health complications; learned and assisted with different tests including BodPods, EKGs, Exercise Tests, Blood Glucose Tests, etc.; gathered resting and exercise blood pressures and heart rates

Lacrosse Strength and Conditioning Coach Fall 2016 to May 2017
Worked with the WVU Club Men's Lacrosse team conditioning before and after practice, attending games, and creating periodized resistance training programs for Fall-Ball, winter off-season, and in-season game play; structured plans were created with the goals of injury prevention, speed and agility improvements, and strength gains

WORK EXPERIENCE

Graduate Research Assistant FSU

August 2019 to Present

Completing laboratory tasks in Dr. Jennifer Steiner's lab; working with rodent models for the study of skeletal muscle in various conditions, including acute and chronic alcohol exposure and cancer cachexia

Exercise Physiology Graduate Assistant WVU

August 2017 to August 2019

Aided in advising students transferring into the Exercise Physiology program; Assisted students in the process of transferring out of the program; Proctored exams and aided in grade input; taught lectures in undergraduate Exercise Physiology classes; completed a variety of laboratory tasks for various professors in the Exercise Physiology department

Hockey Strength and Conditioning Coach

August 2017 to March 2019

Worked with the WVU Club Men's Hockey team conditioning before and after practice, attending games for pre-game warmups and non-starting workouts, and creating periodized resistance training programs for summer off-season, and in-season game play; structured plans were created with the goals of injury prevention, speed and agility improvements, balance, and strength gains

OTHER

WVU Club Weightlifting Team (Member, Coach, and President)

2016 to Present

Participating member of the WVU Club Weightlifting/WV Weightlifting team, competing in various meets and learning proper technique of lifts (snatch and clean and jerk) while also serving as Vice President (2016) and President (current), with responsibilities to attend officer meetings, budget forums, community service events, and organize clinics; USAW High School Combine; USAW Try Weightlifting for Free Day; Wild, Wonderful Weights Virginia Open Meet; team meetings, and fundraisers; coaching a ten-year-old weightlifter with focuses on basic introduction to the sport while also teaching proper athletic movements and progression

REFERENCES

Dr. Randall Bryner Ed.D., Chairperson, Director of Undergraduate Education, and
Assistant Professor of Exercise Physiology
School of Medicine
West Virginia University
Phone: 304-293-0441
Email: rbryner@hsc.wvu.edu

Dr. Mark Olfert Ph.D., RRT, FAHA Assistant Professor of Exercise Physiology
School of Medicine
West Virginia University
Phone: 304-293-7597
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Dr. Paul Chantler Ph.D., Assistant Professor of Exercise Physiology
School of Medicine
West Virginia University
Phone: 304-293-0646
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Dr. Guy Hornsby Ph.D., Teaching Assistant Professor of Athletic Coaching Education
College of Physical Activity and Sport Science
West Virginia University
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