

SHERYL TERESA CARR

EDUCATION

M.S., Physiology and Developmental Biology June 2017
Brigham Young University, Provo, UT 84602

Thesis: Insulin and Ketones: Their Roles in Brain Mitochondrial Function
Advisor: Dr. Benjamin T. Bikman

B.S., Physiology and Developmental Biology December 2015
Department of Physiology and Developmental Biology
Brigham Young University, Provo, UT 84602

AWARDS

Brigham Young University - Graduate Research Fellowship Award (2016-2017)
Physiology and Developmental Biology Dept. – Graduate Scholarship (2016 – 2017)
Graduate Retreat 2016 – 2nd Place for Excellence in Research Poster Presentation

PROFESSIONAL EXPERIENCE

Biology Adjunct Faculty January 2018 - Present
Mountain View College, Dallas TX 75211

Responsibilities:

- Effectively taught both lecture and lab of the Biology for Science Majors course
- Met with students outside of class during office hours to answer any questions and ensure student learning
- Used innovative strategies to constantly improve student outcomes
- Utilized technology to facilitate learning and to access data, maintain records, generate reports, and communicate with other faculty.
- Graded all student assignments and allocated final grades

Graduate Research Assistant
Mentor: Dr. Benjamin T. Bikman
Brigham Young University, Provo, UT 84602

September 2016 – June 2017

Undergraduate Mentored Research
Mentor: Dr. Benjamin T. Bikman
Brigham Young University, Provo, UT 84602

September 2014 – April 2016

Responsibilities:

- Managed the vivarium colony, which included allotting mice to research projects, checking breeding status, weaning, health checks, and coordinating the schedule for daily mice checks.
- Managed a research team for my hypothesis-based research and planned and executed experiments, often via collaboration with other faculty and researchers
- Read related research papers daily to stay informed and ensure proper experimental techniques

Pathophysiology Teacher's Assistant
Brigham Young University, Provo, UT 84602

January 2015 - April 2017

Responsibilities:

- Graded all assignments and projects
- Held office hours to meet with students and ensure both successful learning and clinical understanding of diseases
- Prepared and presented reviews for each exam
- Provided assistance to the professor, Dr. Bikman.

Certified Nursing Assistant
The Crossings, League City, TX 77573

May 2016 – August 2016

Responsibilities:

- Cared for memory care residents which included assisting with dressing, eating, toileting, and other daily activities.
- Reported changes in behavior or mental state to the nurse on staff.
- Planned and executed activities throughout the day for the residents

Tissue Biology Teacher's Assistant
Brigham Young University, Provo, UT 84602

August 2014 - December 2015

Responsibilities:

- Collaborated on exam development with Dr. Reynolds
- Graded research papers and weekly quizzes
- Held office hours to meet with students and ensure successful learning
- Prepared and presented reviews for each exam
- Provided assistance to the professor, Dr. Reynolds

Certified Nursing Assistant
Bel Aire Senior Living, American Fork, UT 84003

March 2013 – April 2016

Responsibilities:

- Cared for memory care residents and other elderly individuals by assisting with dressing, eating, toileting, and other daily activities.
- Managed both scheduled and PRN medication administration
- Reported changes in behavior or mental state to facility nurse

SERVICE

Scribe
Agape Clinic, Dallas, TX 75246

September 2017 - Present

Responsibilities:

- Followed the providers into each patient room to document provider's SOAP notes into the EMR
- Assisted with provider organization through the EMR, prescription refills, and basic patient education

President of Marketing and Organization
BYU Diabetes Club, Provo, UT 84602

January 2017 – June 2017

Responsibilities:

- Planned and executed monthly activities with the help of other club leadership
- Helped create a better presence both on campus and on social media
- Assured that the club stayed organized according to BYU Club Rules

Coordinator
Anatomy Academy, Utah County, UT

September 2016 – April 2017

Responsibilities:

- Communicated with local 5th/6th grade teachers to schedule weekly lessons
- Managed 8 Anatomy Academy mentors to make sure goals were met as well individual mentor responsibilities.
- Planned and set up large group activities weekly and filled in as a mentor when needed in order to demonstrate basic anatomy and healthy lifestyle principles.

PUBLICATIONS

“High-mobility Group Box 1 disrupts metabolic function with cigarette smoke exposure in a ceramide-dependent manner.” Taylor, O. J., Thatcher, M. O., **Carr, S.T.**, ... Holland, W. L., Reynolds, P. R., Bikman, B. T. (2017). *International Journal of Molecular Sciences*

“Lipopolysaccharide Disrupts Mitochondrial Physiology in Skeletal Muscle via Disparate Effects on Sphingolipid Metabolism.” Hansen, M. E., Simmons, K. J., Tippetts, T. S., Thatcher, M. O., Saito, R. R., **Hubbard, S. T.**, ... Bikman, B. T. (2015). *Shock*. December 2015.

MEETING ABSTRACTS

“Insulin and Its Role in Alzheimer’s Disease Pathology.” **Carr, S.T.**, Trumbell, A., Hutchinson, B. ... Holland, W.L., Wisco, J.J., Bikman, B.T. *Experimental Biology – April 2017*.

"SGI-1252, a TGF- β Inhibitor, Protects Against Diet-induced Obesity and Insulin Resistance in Mice." Dallon, B.W., **Carr, S.T.**... Bikman, B.T. *Experimental Biology – April 2017*.

“ β -hydroxybutyrate favorably alters muscle cell survival and mitochondrial bioenergetics.” Parker, B.A., Dallon, B.W., **Carr, S.T.**, ... Tessem, J.S., Bikman, B.T. *Experimental Biology – April 2017*.

“Effects of Ketogenic Diet in Young Adult and Old Rats.” Duplisea, M.J., Wilson, E.K., Cheung, E.C.K., Parker, B.A., **Carr, S.T.**, Ashby, C.K., Bikman, B.T., Thomson, D.M. *Experimental Biology – April 2017*.

“Insulin Alters Brain Lipid Profile and Mitochondrial Function in ApoE4 Mice.” **Carr, S.T.**, Trumbell, A., Hutchinson, B. ... Holland, W.L., Wisco, J.J., Bikman, B.T. *Brigham Young University Graduate Retreat – December 2016*.

CERTIFICATIONS

BLS Provider
American Heart Association

November 2017 – November 2019

Certified Nursing Assistant
Texas Department of Aging and Disability Services

March 2016 – December 2018

Certified Dementia Practitioner
National Council of Certified Dementia Practitioners

August 2016 – August 2018