

## **CURRICULUM VITAE**

### **Michael J. Chumley**

Texas Christian University  
Biology Department  
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## **EDUCATIONAL BACKGROUND**

PhD Immunology, University of Colorado Health Sciences Center, 2000  
MS Exercise Physiology, University of Wyoming, 1994  
BS Education, University of Wyoming, 1987

## **YEAR OF APOINTMENT TO THE UNIVERSITY AND RANK**

Chair, Department of Biology, Texas Christian University, 2016-present  
Associate Professor of Biology, Texas Christian University, Promoted 2014  
Assistant Professor of Biology, Texas Christian University, Appointed 2008

## **PREVIOUS RESEARCH POSITIONS**

Instructor, University of Texas Southwestern Medical Center, Center for Developmental Biology, Dallas, TX. 2005–2008.

Postdoctoral Fellow, University of Texas Southwestern Medical Center, Center for Developmental Biology, Dallas, TX. 2001–2004.

Postdoctoral Fellow, University of Kansas, Department of Pharmacology and Toxicology, Lawrence, KS. 2000–2001.

Postdoctoral Fellow National Jewish Medical Research Center, Denver, CO. 2000.

Graduate Student, Immunology, National Jewish Medical Research Center and the University of Colorado Health Sciences Center, Denver, CO. Thesis Title: *Antigen Receptor Specificity Directs B-Cell Differentiation to the B1 and B2 Subsets*. 1995–2000.

Graduate Student, Exercise Physiology, University of Wyoming Department of Kinesiology and Health Sciences, Laramie, WY. Thesis Title: *The Immunoregulatory Effects of High-Intensity Interval Exercise*. 1992–1994.  
Graduate research project conducted at the United States Olympic Training Center, Colorado Springs, CO.

## **PREVIOUS TEACHING EXPERIENCE**

Graduate Instructor, The Ohio State University, Columbus, OH. Physiology of Exercise I, Physiology of Exercise II, Diet and Exercise, Conditioning for Performance (Lab), Racquetball. 1994–1995.

Graduate Instructor, The University of Wyoming, Laramie, WY. Physiology of Exercise (Lab), Golf, Rock Climbing, Racquetball. 1992–1994.

Teacher, Lander Valley High School, Lander, WY. General Chemistry, General Physics, Advanced Placement Chemistry, Head Wrestling Coach, Assistant Volleyball Coach, Assistant Soccer Coach. 1989–1992.

Teacher, Kenneth Henderson Middle School, Garden City, KS. Life Sciences, Football, Wrestling, and Track Coach. 1988-1989.

### **TCU TEACHING RESPONSIBILITIES**

Introduction to Biology II (BIOL 10503)

Cell, Molecular, and Developmental Biology (BIOL 30603)

Mammalian Physiology (BIOL 40403)

Immunology (BIOL 40254/70950)

Seminar in Stem Cell Biology (BIOL 40001/60910)

Neurobiology of Aging (BIOL 50401)

Assigned Problems in Biology – Advanced Microscopy (BIOL 70950)

Assigned Problems Biology – Advanced Cellular and Molecular Immunology (BIOL 70950)

### **FUNDED EXTERNAL RESEARCH SUPPORT**

Texas Higher Education Coordinating Board Norman Hackerman Advanced Research Program (NHARP 003636–0003–2011), *Systemic Inflammation as a Treatable Risk Factor in the Onset of Alzheimer's Disease*, 07/2012 – 08/2014, \$80,000

Christopher Reeve Paralysis Foundation (HBI–0302), *Eph-Ephrin Signaling in the Growth Cone*, 12/03–12/05, \$150,000

National Institutes of Health NRSA (F32–NS42526–02), *The Molecular Mechanisms of B-Class Eph Receptor and Ephrin Signal Transduction in Neuronal Development*, 12/01–12/03 \$42,000 year 1 and \$45,000 year 2.

### **EXTERNAL RESEARCH SUPPORT REQUESTED (Unfunded)**

National Institutes of Health R15 (PA–13-313), *Pyridol derived small molecules targeting oxidative stress*, Submitted 02/25/2015, \$376,045 (with Dr. Kayla Green and Dr. Gary Boehm)

Alzheimer's Association New Research Grant, *Assessing the in vivo effects of pyridol derived small molecules*, Submitted 05/04/2015, \$99,7924 (with Dr. Kayla Green)

National Institutes of Health R15 (PA–13-313), *Pyridol derived small molecules targeting oxidative stress in neurodegeneration*, Submitted 06/25/14, \$390,161 (with Dr. Kayla Green and Dr. Gary Boehm)

BrightFocus Foundation Alzheimer's Disease Research proposal, *Assessing cyclic amines' chemical activity in remediation of AD pathology*, Submitted 10/14/14, \$249,666 (with Dr. Kayla Green and Dr. Gary Boehm)

Alzheimer's Association New Investigator Research Grant, *Assessing the in vivo effects of pyridol derived small molecules*, Submitted 02/25/14, \$99,914 (with Dr. Kayla Green)

National Institutes of Health R15 (PA–12–006), *Hybrid Therapeutics of AD: N-Heterocyclic Amines with Lipoic Acid*, Submitted 06/25/13, \$381,660 (with Dr. Kayla Green)

National Institutes of Health R15 (PA–12–006), *Pyclen Derivatives as Antioxidant Bimodal Therapeutics for Alzheimer's Disease*, Submitted 06/25/12, \$385,559. (with Dr. Kayla Green)

National Institutes of Health R01. *Plaque Formation in the Brains of Aged EphB Mutant Mice: A New Alzheimer's Model*. Submitted as a consortium by Dr. Mark Henkemeyer, UT Southwestern Medical Center on 10/03/2012. \$2,937,974.00 (\$411,398.00 to Dr. Chumley and TCU)

National Science Foundation Research Experience for Undergraduates (REU) Site: *Exposing Undergraduates to Science through Research in Ecology and Conservation Biology or Cellular and Molecular Biology*, \$203,200, Co-PI with Dr. Matthew Chumchal, 8/15/2010

### **INTERNAL RESEARCH SUPPORT**

B Cells in Alzheimer's Disease Prevention. TCU Invests in Scholarship to M. Chumley. \$25,000. 2016-2017

Isolation of Primary Microglial Cells from the Mouse Brain. Science and Engineering Research Center Award for Undergraduate Students to Meg Cooksey (M.Chumley, advisor), \$1,500, 2016-2017

Can Octyl Gallate Ameliorate LPS-Induced A $\beta$  Accumulation and Memory Deficits. Science and Engineering Research Center Award for Undergraduate Students to Alexa Calcagno (M. Chumley, advisor), \$1,500, 2016-2017

Immunization Against Alzheimer's Disease. Science and Engineering Research Center Award for Undergraduate Students to Michaela O'Connor (M.Chumley, advisor), \$1,500, 2016-2017

Can Rolipram Slow the Progression of Alzheimer's Disease?. Science and Engineering Research Center Award for Undergraduate Students to Taylor Hayes (M. Chumley, advisor), \$1,500, 2016-2017

Resveratrol as a Therapeutic Agent Against Amyloid Beta-Induced Oxidative Stress. Science and Engineering Research Center Award for Undergraduate Students to Taylor Hayes (M. Chumley, advisor), \$1,351, 2015-2016.

Do Omega-3 Fatty Acids Reduce Inflammation Produced by Microglial Cells. Science and Engineering Research Center Award for Undergraduate Students to Alex Sanders (M. Chumley, advisor), \$1,210, 2015-2016.

Peritoneal B-1 Cells Offer Resistance to LPS-Induced Amyloid Beta Production and May Have Therapeutic Value. Science and Engineering Research Center Award for Undergraduate Students to Elie Rominger (M. Chumley, advisor), \$1,407, 2015-2016.

The Expression of NR4A Family Orphan Receptors in Response to Repeated Bouts of Poly:IC Injections. Science and Engineering Research Center Award for Undergraduate Students to Sruthi Reddy (M. Chumley, advisor), \$1,305, 2015-2016.

The Role of Exercise in the Anti-Inflammatory Response of Microglial Cells from the Hippocampus. Science and Engineering Research Center Award for Undergraduate Students to Hannah Wilkerson (M. Chumley, advisor), \$1,500, 2015-2016.

- Minimum LPS Dose to Induce Amyloid Beta Production in Aged Mouse Model. Science and Engineering Research Center Award for Undergraduate Students to Sydney DeSpain (M. Chumley, advisor), \$1,305, 2015-2016.
- The Interaction Between Exercise and Increased Cerebrospinal Fluid Flow on Amyloid Beta Clearance From the Brain Following Inflammation. Science and Engineering Research Center Award for Undergraduate Students to Terrul Ratcliff (M. Chumley, advisor), \$1,500, 2015-2016.
- Does Forced Exercise Provide a Benefit to Alzheimer's Disease Similar to Voluntary Exercise?. Science and Engineering Research Center Award for Undergraduate Students to Jake Powell (M. Chumley, advisor), \$1,447, 2015-2016.
- Exercise-induced microglial phenotypic changes that reduce Alzheimer's pathology. TCU Research and Creative Activities Fund Grant, \$4,000, 2015-2016.
- The effect of  $\beta$ -amyloid on neuron growth and communication. Science and Engineering Research Center Award for Undergraduate Students to Jenny Hagemeier (M. Chumley, advisor), \$1,500, 2015-2016.
- The Use of Omega-3 Fatty Acids to Reduce Peripheral LPS-Induced Inflammation in Alzheimer's Disease. Science and Engineering Research Center Award for Undergraduate Students to Alex Sanders (M. Chumley, advisor), \$600, 2014-2015.
- Evaluation of the influence of chronic stress on the development of cognitive dysfunction and hallmark Alzheimer's pathologies. Science and Engineering Research Center Award for Undergraduate Students to Jacob Ortega (M. Chumley, advisor), \$900, 2014-2015.
- Effect of high fat and sugar diet on accumulation of brain amyloid beta and associated cognitive deficits. Science and Engineering Research Center Award for Undergraduate Students to Laila Abdeljalil (M. Chumley, advisor), \$1,200, 2014-2015.
- Steroidal Anti-Inflammatories and Their Role in the Progression of Alzheimer's Disease. Science and Engineering Research Center Award for Undergraduate Students to Janelle Salisbury (M. Chumley, advisor), \$1,000, 2014-2015.
- Triazine dendrimers as potential disruptors of LPS:TLR4 interactions. Science and Engineering Research Center Award for Undergraduate Students to Kelsey Paulhus (M. Chumley, advisor), \$1,000, 2014-2015.
- How Early Life Inflammation Affects Brain Amyloid-Beta Accumulation and Cognitive Deficits Following Subsequent Inflammation in Aged Mice. Science and Engineering Research Center Award for Undergraduate Students to Hailey Hayes (M. Chumley, advisor), \$1,000, 2014-2015.
- The Effectiveness of the Antioxidant Pyclen-OH in the Disaggregation of A $\beta$  plaques, Reduction of Oxidative Stress, and Restoration of Cognitive Function in Alzheimer's Disease. Science and Engineering Research Center Award for Undergraduate Students to Troy Gurney (M. Chumley, advisor), \$1,000, 2014-2015.
- The role of imatinib methanesulfonate salt reduction of hippocampal amyloid-beta in the hyperphosphorylation of Tau, Science and Engineering Research Center Award for Undergraduate Students to Laurel Gardner (M. Chumley, advisor), \$1,200, 2014-2015.

- Development of Molecular tools for studying the amyloid protein in Alzheimer's disease. TCU Invests In Scholarship. \$23,387. (CoInvestigator with Dr. Green, TCU Department of Chemistry) 2014-2015.
- The effect of 7 days of LPS injections on the amount of pTau in the mouse brain. Science and Engineering Research Center Award for Undergraduate Students to Laurel Gardner (M. Chumley, advisor), \$1,000, 2013-2014.
- The Effectiveness of the Antioxidant PycLen-OH in the Disaggregation of A $\beta$  plaques, Reduction of Oxidative Stress, and Restoration of Cognitive Function in Alzheimer's Disease. Science and Engineering Research Center Award for Undergraduate Students to Troy Gurney (M. Chumley, advisor), \$1,000, 2013-2014.
- The Expression of NR4A Family mRNA in the Hippocampus following Peripheral Inflammation. Science and Engineering Research Center Award for Undergraduate Students to Hailey Hayes (M. Chumley, advisor), \$1,000, 2013-2014.
- Analysis of amyloid beta clearance in exercised mice following inflammation. Science and Engineering Research Center Award for Undergraduate Students to Jessica Mussatto (M. Chumley, advisor), \$1,000, 2013-2014.
- Exercise-induced clearance of amyloid- $\beta$  mediated by NG2 expressing oligodendroglial precursor cells. Science and Engineering Research Center Award for Undergraduate Students to Stephanie Turner (M. Chumley, advisor), \$1,000, 2013-2014.
- The Effects of EphB1 and EphB3 Proteins on Amyloid-Beta Plaque Formation and the Progression of Alzheimer's Disease. Science and Engineering Research Center Award for Undergraduate Students to Christine Riddle (M. Chumley, advisor), \$1,200, 2013-2014.
- The Role of NR4A Family Proteins in the Memory Enhancement seen in Alzheimer's Disease Mouse Models Treated with Rolipram. Science and Engineering Research Center Award for Undergraduate Students to Tanner Robertson (M. Chumley, advisor), \$1,100, 2013-2014.
- Changes in Expression of Alzheimer's Disease-Related Heat Shock Proteins Following Inflammation. Science and Engineering Research Center Award for Undergraduate Students to Thomas Parnell (M. Chumley, advisor), \$1,200, 2013-2014.
- Steroidal Anti-Inflammatories and Their Role in the Progression of Alzheimer's Disease. Science and Engineering Research Center Award for Undergraduate Students to Jenelle Salisbury (M. Chumley, advisor), \$900, 2013-2014.
- The Effects of Ibuprofen Administration After Lipopolysaccharide Injections in Prevention of Cognitive Dysfunction and Alleviation of Central Accumulation of Amyloid-Beta. Science and Engineering Research Center Award for Undergraduate Students to Ceci Canelos (M. Chumley, advisor), \$700, 2013-2014.
- The Role and Implications of Eph Receptors EphB1 and EphB3 in Alzheimer's Disease. Science and Engineering Research Center Award for Undergraduate Students to Brock Boren (M. Chumley, advisor), \$1,500, 2013-2014.
- The Effects of Viral Inflammation on Neuronal Health and the Onset of Alzheimer Disease Pathology. TCU Research and Creative Activities Fund Grant, \$4,000, 2012-2013.

- Pyclen Derivatives as Therapeutics for Alzheimer's Disease. TCU Invests In Scholarship. \$4,000. 2012-2013.
- The Effect of Amyloid Beta on Neuron Cellular Function. Student Government Association Undergraduate Research Grant Program to Jigna Patel (M. Chumley, advisor), \$500, 2012.
- The Effects of Forced Exercise on Neurogenesis and Inflammation in the Hippocampus. Student Government Association Undergraduate Research Grant Program to Ashley Bolin (M. Chumley, advisor), \$500, 2012.
- Age-Related Differences in Heat Shock Protein Induction in the Hippocampus. Student Government Association Undergraduate Research Grant Program to Adam Furman (M. Chumley, advisor), \$500, 2012.
- Viral Induction of Alzheimer's Disease Pathology. Student Government Association Undergraduate Research Grant Program to Clay Fox (M. Chumley, advisor), \$500, 2012.
- A Potential Role for the Cancer Drug Gleevec in the Prevention of Alzheimer's Disease. Student Government Association Undergraduate Research Grant Program to Jessica Nouri (M. Chumley, advisor), \$500, 2012.
- Age-Related Changes in Heat Shock Protein Expression in the Hippocampus. TCU Research and Creative Activities Fund Grant, \$3,795, 2011-2012.
- Inflammation & Alzheimer's Disease. TCU Research and Creative Activities Fund Grant, \$2,900, 2010-2011.
- The Role of Adult-Derived Neurons in Learning and Memory. TCU Research and Creative Activities Fund Grant and Junior Summer Research Program, \$10,000, 2009-2010.
- Mouse Model of Alzheimer's Disease Brain. Science and Engineering Research Center Award for Undergraduate Students to Chris Alonzo (M. Chumley, advisor), \$2,500, 2010.
- Role of Viral Inflammation in the Progression of Alzheimer's Disease. Science and Engineering Research Center Award for Undergraduate Students to Mary Martin (M. Chumley, advisor), \$2,500, 2010.
- Mouse Model of Alzheimer's Disease Brain. Science and Engineering Research Center Award for Undergraduate Students to Chris Alonzo (M. Chumley, advisor), \$2,000, 2009.
- The Effects of Maternal Age on Neonatal Stem Cell Number in the Mouse Hippocampus. Science and Engineering Research Center Award for Undergraduate Students to Jay Blasingame (M. Chumley, advisor), \$2,000, 2009.
- The Relationship Between the Behavioral Effects of Antidepressants and Hippocampal Neurogenesis. Science and Engineering Research Center Award for Undergraduate Students to Mary Martin (M. Chumley, advisor), \$2,000, 2009.
- Binding of BODIPY to Amyloid Peptides in Animal Tissues. Science and Engineering Research Center Award for Undergraduate Students to Jeff Mitchel (M. Chumley, advisor), \$2,000, 2009.

Role of EphB1 in Learning and Memory. Science and Engineering Research Center Award for Undergraduate Students to Kelsey Shideler (M. Chumley, advisor), \$2,000, 2009.

Role of EphB1 on the Organization of Adult Hippocampus Stem Cell Niche. Science and Engineering Research Center Award for Undergraduate Students to Chris Trinh (M. Chumley, advisor), \$2,000, 2009

### **GRADUATE THESIS DIRECTED**

Hailey Hayes, (Current MS Student, Biology). *Regulation of Nuclear Orphan Receptors Following Inflammation*

Morgan Thompson (Current MS Student, Biology). *A Potential Role for B-1 Lymphocytes in the Fight Against Alzheimer's Disease*

Kelsey Paulhus (Current MS Student, Biology). *Pyridol Derivatives as Potential Treatments for Alzheimer's Disease*

Julia Peterman (Current MS Student, Psychology)

Jordon White, MS, Psychology (2015) and Current PhD student. *Exercise Induced Microglial-Dependent Clearance of A $\beta$  Following Inflammation in Mice*

Amy Hardy, MS, Biology (2015). *Do Repeated Bouts of Inflammation Lead to Sustained Elevation of Amyloid Beta in the Brain?*

Marielle Kahn, PhD, Psychology (2014). *A Potential Role for Peripheral Inflammation in the Onset of Alzheimer's Disease-Related Pathology and Cognitive Deficits.*

Scott Pearson, MS, Biology (2014). *Inflammation- and Age-Related Alterations in Tau Expression and Phosphorylation.*

Ben Vinson, MS, Biology (2013). *A Role for Exercise in the Alleviation of Central Accumulation of Amyloid-Beta and Prevention of Cognitive Dysfunction Following Peripheral Inflammation*

Jeffrey Mitchel, MS, Biology (2012). *Age-Related Changes in Heat Shock Protein Expression in the Hippocampus*

Shannon Gettel, MS, Biology (2010). *The Role of Adult Neurogenesis on Antidepressant-Induced Behavioral Changes.*

Stephanie Wallace, MS, Biology (2009). *The Role of Adult-Derived Neurons in Learning and Memory.*

### **GRADUATE COMMITTEES**

Micah Eimerbrink, PhD (current), Psychology

Peter Bruns, MS (current), Biology

Stephanie Turner, MS, Kinesiology, TCU (2016)

Catherine Urbano, PhD, Psychology (2015)

Yuyang Huang, MS, Biology (2015)

Leah Thornton, MS, Biology (2015)

"Lily" Wu Wen Jing, MS, Biology, (2013)

Catherine Urbano, MS, Psychology (2013)

Chris Evans, MS, Biology (2013)

Elizabeth Franks, MS, Biology (2013)

Adam Jajtner, MS, Kinesiology (2012)  
Kenneth Christensen, MS, Kinesiology (2012)  
Mathew Unthank, MS, Kinesiology (2012)  
Jonathan Woodson, MS, Kinesiology (2012)  
James Gleaton, MS, Biology, TCU (2011)  
Kristina McLinden, PhD, Psychology, TCU (2011)  
Dinko Kranjac, MS, Psychology, TCU (2011)  
Marielle Kahn, MS, Psychology, TCU (2011)  
Kelyn Rola, MS, Kinesiology, MS, Kinesiology (2010)  
Andrew Tarr, PhD, Experimental Psychology (2009)

### **UNDERGRADUATE HONORS RESEARCH MENTORED**

Jake Powel, Summer 2015 – present, *Does Forced Exercise Provide a Benefit to Alzheimer's Disease Similar to Voluntary Exercise?*

Terrul Ratcliff, Summer 2015 – present, *The Interaction Between Exercise and Increased Cerebrospinal Fluid Flow on Amyloid Beta Clearance From the Brain Following Inflammation*

Hannah Wilkerson, Summer 2015 – present, *The Role of Exercise in the Anti-Inflammatory Response of Microglial Cells from the Hippocampus*

Sruthi Reddy, Summer 2015 – present, *The Expression of NR4A Family Orphan Receptors in Response to Repeated Bouts of Poly:IC Injections*

Eleanore Rominger, Summer 2015 – Present, *Peritoneal B-1 Cells Offer Resistance to LPS-Induced Amyloid Beta Production and May Have Therapeutic Value*

Taylor Hayes, Summer 2015 – present, *Resveratrol as a Therapeutic Agent Against Amyloid Beta-Induced Oxidative Stress*

Hailey Hayes, BS, Biology (2015), *The Regulation of Nur77 in Response to Inflammation, Amyloid-Beta, and Exercise in an LPS-Induced Alzheimer's Disease Model.*

Laurel Gardner, BS, Biology (2015), *The Role of Imatinib Methanesulfonate Salt-Mediated Reduction of Hippocampal Amyloid Beta in the Hyperphosphorylation of Tau.*

Troy Gurney, BS, (2015), *The Effectiveness of Hydroxypyridinone in the Dysaggregation of Amyloid Beta Plaques and Restoration of Cognitive Function in Alzheimer's Disease.*

Stephanie Turner, BS, (2014), *Bioactive Dimeric Drugs as Potential Therapeutic Treatments for Inflammation.*

Thomas Parnell, BS, Biology (2014), *How Early Life Inflammation Affects Brain Amyloid Beta Accumulation Following Subsequent Inflammation in Aged Mice.*

Christine Riddle, BS, Biology (2014), *The Effects Of EphB Receptor Tyrosine Kinases On Levels Of Amyloid-Beta Protein In The Hippocampus And The Progression Of Alzheimer's Disease.*

Jessica Mussatto, BS, Biology (2014). *Analysis of amyloid beta clearance in exercised mice following inflammation.*



Jigna Patel, BS, Biology (2013), *Could Your Cold be Giving You Alzheimer's? A Role for Amyloid Beta in Cognitive Dysfunction.*

Courtney Bisson, BS, Biology (2013), *Could an Anti-Cancer Drug Be a Cure for Alzheimer's Disease? Effects of Imatinib Methanesulfonate on Inflammation-induced Amyloid Beta and Cognition.*

Whitney Summers, BS, Biology (2012), *A Potential Role for Virus-Induced Inflammation in the Onset and Progression of Various Alzheimer's Disease Pathologies*

Rachel Lowry, BS, Biology (2011), *Effects of the Green Tea Catechin EGCG on Body Weight, Amyloid beta, and Cognitive Deficits*

Jennifer Haase, BS, Biology (2011), *Effects of EphB1 Knockout on Hippocampus-Based Learning Tasks in Mice*

Jay Blasingame, BS, Biology (2010), *Maternal Age and Its Effects on Neurogenesis in the Offspring of Mice*

## **UNDERGRADUATE STUDENTS MENTORED IN RESEARCH**

Audrey Nolan, (Current)

Jack Figg, John V. Roach Honors College (Current)

Lauren Nakhleh, John V. Roach Honors College (Current)

Michaela O'Conner, John V. Roach Honors College (Current)

Meg Cooksey, John V. Roach Honors College (Current)

Taylor Hayes, John V. Roach Honors College (Current)

Eleanore Rominger, John V. Roach Honors College (Current)

Sruthi Reddy, John V. Roach Honors College (Current)

Jake Powell, John V. Roach Honors College (Current)

Terrul Ratcliff, John V. Roach Honors College (Current)

Hannah Wilkerson, John V. Roach Honors College, BS, Biology (2016)

Laila Abdeljalil, John V. Roach Honors College, BS, Biology (2016)

Alex Sanders, John V. Roach Honors College, BS, Bioogy (2016)

Mia Eriksson, BS, Psychology (2016)

Jenny Hagemeyer BS, Biology (2016)

Sydney DeSpain BS, Biology (2015)

Stephanie Turner, John V. Roach Honors College (Current)

Hailey Hayes, John V. Roach Honors College (Current)

Laurel Gardner, John V. Roach Honors College (Current)

Troy Gurney, John V. Roach Honors College (Current)

Thomas Parnell, John V. Roach Honors College (Current)

Kelsey Palhus (Current)

Jenelle Salisbury (Current)

Christine Riddle, John V. Roach Honors College. BS, Biology (2014)

Brock Boren,BS, Biology (2014)

Ceci Canelos, BS, Biology (2014)

Tanner Robertson, BS, Biology (2014)

Courtney Bisson, John V. Roach Honors College. BS, Biology (2013)

Jigna Patel, John V. Roach Honors College. BS, Biology (2013)

Whitney Summers, John V. Roach Honors College. BS, Biology (2012)

Adam Furman, BS, Biology (2012)

Hayden Fuller, BS, Biology (2012)

Kaitlyn Vann, BS, Biochemistry (2012)  
Ashley Bolin, BS, Biology (2012)  
Chris Trinh, BS, Biology (2012)  
Jessica Nouri, BS, Biology (2012)  
Rachel Lowry, John V. Roach Honors College. BS, Biology (2011)  
Jennifer Haase, John V. Roach Honors College. BS, Biology (2011)  
Rudy Cedillos, Ronald E. McNair Scholar. BS, Biology (2011)  
Mary Martin, BS, Biology (2011)  
Jay Blasingame, John V. Roach Honors College. BS, Biology (2010)  
Jeff Mitchell, BS, Biology (2010)  
Chris Alonzo, BS, Biology (2010)  
Marina Guerra, BS, Biology (2010)  
Kelsey Shideler, BS, Biology (2010)  
Emily Hamm, BS, Biology (2009)  
Addison Whetstone, BS, Biology (2009)

### HIGH SCHOOL STUDENTS MENTORED IN RESEARCH

Lakshmi Menon, Senior, Flower Mound High School, Flower Mound, TX, ( Summer 2013)

Parker Berg, Senior, RL Paschal High School, Fort Worth, TX (Spring/Summer 2010)

### PRESENTATION OF SCHOLARLY AND CREATIVE ACTIVITIES (\*denotes graduate student, \*\* denotes undergraduate student)

#### a. Refereed Publications

White JD\*, Eimerbrink MJ\*, Hayes HB\*\*, Hardy A\*, Van Enkevort EA\*, Peterman JL\*, **Chumley MJ**, Boehm GW, 2016, Hippocampal A $\beta$  expression, but not phosphorylated tau, predicts cognitive deficits following repeated peripheral poly I:C administration. *Behav Brain Res*, 313: p. 219-225.

Gardner LE\*\*, White JD\*, Eimerbrink MJ\*, Boehm GW, **Chumley MJ**, 2016, Imatinib methanesulfonate reduces hyperphosphorylation of tau following repeated peripheral exposure to lipopolysaccharide, *Neuroscience*, 331: p. 72-7.

Eimerbrink MJ\*, Kranjac D\*, St Laurent C\*\*, White JD\*, Weintraub MK\*, Pendry RJ\*\*, Madigan R\*\*, Hodges SL\*\*, Sadler LN\*\*, **Chumley MJ**, Boehm GW, 2016, Pre-treatment of C57BL6/J mice with the TLR4 agonist monophosphoryl lipid A prevents LPS-induced sickness behaviors and elevations in dorsal hippocampus interleukin-1 $\beta$ , independent of interleukin-4 expression, *Behav Brain Res*, 302: p. 171-4.

Eimerbrink MJ\*, White JD\*, Pendry RJ\*\*, Sadler LN\*\*, Wiles JD\*\*, Weintraub MK\*, **Chumley MJ**, and Boehm GW. Administration of the inverse benzodiazepine agonist MRK-016 rescues acquisition and memory consolidation following peripheral administration of bacterial endotoxin. *Behavioral Brain Research*, 2015, 288, 50-53.

- Weintraub MK\*, Kranjac D\*, Eimerbrink MJ\*, Pearson, SJ\*, Vinson BT\*, Patel, J\*\*, Summers WM\*\*, Parnell, TB\*\*, Boehm GW, **Chumley MJ**. Peripheral administration of polyI:C leads to increased hippocampal amyloid-beta and cognitive deficits in a non-transgenic mouse. *Behavioural Brain Research*, 2014, 266, 183-187.
- Weintraub MK\*, Bisson CM\*\*, Nouri JN\*\*, Vinson BT\*, Kranjac D\*, Eimerbrink MJ\*, Boehm GW, **Chumley MJ**. Imatinib Methanesulfonate Reduces Hippocampal Amyloid-Beta And Restores Cognitive Function Following Repeated Endotoxin Exposure. *Brain, Behav, and Imm*, 2013, 33, 24-28.
- Kranjac D\*, Koster KM\*\*, Weintraub MK\*, Eimerbrink MJ\*, Womble BM\*\*, Cooper BG, **Chumley MJ**, Boehm GW. Peripheral administration of d-cycloserine rescues memory consolidation following bacterial endotoxin exposure. *Behavioral Brain Research*, 2013. 243: p. 38–43.
- Kahn MS\*, Kranjac D\*, Alonzo CA\*\*, Haase JH\*\*, Cedillos RO\*\*, McLinden KA\*, Boehm GW, and **Chumley MJ**. Prolonged elevation in hippocampal Abeta and cognitive deficits following repeated endotoxin exposure in the mouse. *Behavioral Brain Research*, 2012. 229(1): p. 176–84.
- Kranjac D\*, McLinden KA\*, Koster KM\*\*, Kaldenbach DL\*\*, **Chumley MJ**, and Boehm, GW. Peripheral administration of poly I:C disrupts contextual fear memory consolidation and BDNF expression in mice. *Behavioural Brain Research*, 2012. 228(2): p. 452–7.
- McLinden K\*, Kranjac D\*, Deodati LE \*\*, Kahn M \*\*, **Chumley MJ**, Boehm GW. Age Exacerbates Sickness Behavior Following exposure to a viral mimetic. *Physiol Behav*, 2012. 105(5): p. 1219–25.
- Kranjac D\*, McLinden KA\*, Deodati LE\*\*, Papini MR, **Chumley MJ**, Boehm GW. Peripheral bacterial endotoxin administration triggers both memory consolidation and reconsolidation deficits in mice, *Brain, Behav, and Imm*. 2012. 228(2): p. 452–7.
- Genander M, Halford MM, Xu NJ, Eriksson M, Yu Z, Qiu Z, Martling A, Greicius G, Thakar S, Catchpole T, **Chumley MJ**, Zdunek S, Wang C, Holm T, Goff SP, Pettersson S, Pestell RG, Henkemeyer M, Frisén J. Dissociation of EphB2 signaling pathways mediating progenitor cell proliferation and tumor suppression. *Cell*, 2009, 139(4):679–92.
- García-Ceca J, Jiménez E, Alfaro D, Cejalvo T, **Chumley MJ**, Henkemeyer M, Muñoz JJ, Zapata AG. On the role of Eph signalling in thymus histogenesis; EphB2/B3 and the organizing of the thymic epithelial network. *Int J Dev Biol*, 2009, 53(7): 971–82
- Chumley MJ**, Catchpole T, Silvany RE, Kernie SG, Henkemeyer M. EphB receptors regulate stem/progenitor cell proliferation, migration, and polarity during hippocampal neurogenesis. *J Neurosci*, 2007, 27(49):13481–13490.
- Dravis C, Wu T, **Chumley MJ**, Yokoyama N, Wei S, Wu DK, Marcus DC, Henkemeyer M. EphB2 and Ephrin-B2 Regulate the Ionic Homeostasis of Vestibular Endolymph. *Hear Res*, 2007,223(1–2): 93–104.
- Holmberg J, Genander M, Halford M, Anneren C, Sondell M, **Chumley MJ**, Silvany RE, Henkemeyer M, Frisén J. EphB receptors coordinate migration and proliferation in the intestinal stem cell niche. *Cell*, 2006, 125(6): 1151–1163
- Cowan CA, Yokoyama N, Saxena A, **Chumley MJ**, Silvany RE, Baker LA, Srivastava D, Henkemeyer M. "Ephrin-B2 reverse signaling is required for axon pathfinding and

cardiac valve formation but not early vascular development." *Dev Biol*, 2004, 271(2): 263–71.

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Ait-Azzouzene D, Skog P, Retter M, Kouskoff V, Hertz M, Lang J, Kench J, **Chumley M**, Melamed D, Sudaria D, Gavin A, Martensson A, Verkoczy L, Duong B, Vela J, Nemazee D. "Tolerance-induced receptor selection: scope, sensitivity, locus specificity, and relationship to lymphocyte-positive selection." *Immunol Rev*, 2004, 197: 219–30.

Halford MM, **Chumley MJ**, Henkemeyer M. "Ephective endocytosis." *Dev Cell*, 2003, 5(4): 536–7.

Sprott KM, **Chumley MJ**, Hanson JM, Dobrowsky RT. "Decreased activity and enhanced nuclear export of CCAAT-enhancer-binding protein beta during inhibition of adipogenesis by ceramide." *Biochem J*, 2002, 365(Pt 1): 181–91.

**Chumley MJ**, Dal Porto JM, Cambier JC. "The unique antigen receptor signaling phenotype of B-1 cells is influenced by locale but induced by antigen." *J Immunol*, 2002, 169(4): 1735–43.

**Chumley MJ**, Dal Porto JM, Kawaguchi S, Cambier JC, Nemazee D, Hardy RR. "A VH11V kappa 9 B cell antigen receptor drives generation of CD5+ B cells both in vivo and in vitro." *J Immunol*, 2000, 164(9): 4587–93.

#### b. Papers Presented At Scholarly Meetings

Peterman, J.L.\* , J.D. White\*, M.J. Eimerbrink\*, K.C. Paulhus\*, M.A. Thompson\*, H.B. Hayes\*, **G.W. Boehm**, and **M.J. Chumley** (2016) Effects of extended isolation stress on A $\beta$  production and cognition in 5xFAD mice. Society for Neuroscience Annual Conference, San Diego, CA.

Thompson, M.A.\* , K.C. Paulhus\*, J.D. White\*, M.J. Eimerbrink\*, H.D. Moore\*\*, **G.W. Boehm**, and **M.J. Chumley** (2016) Inflammation exacerbates natural anti-amyloid beta antibodies in a murine alzheimer's disease model. Society for Neuroscience Annual Conference, San Diego, CA.

Eimerbrink, M.J.\* , J.D. White\*, J.L. Peterman\*, R. Pendry\*\*, C. Hagen\*, Moore H\*, **M.J. Chumley** and **G.W. Boehm**, (2016) The influence of stress and inflammation on A $\beta$  production. Society for Neuroscience Annual Conference, San Diego, CA.

White JD\*, Eimegbrink MJ\*, Hayes HB\*\*, Hardy A\*, Van Enkevort EA\*, Peterman JL\*, **Chumley MJ**, Bohm GW (July 2016), Hippocampal A $\beta$  expression, but not phosphorylated tau, predicts cognitive deficits following repeated peripheral poly I:C administration. Alzheimer's Association International Conference, Toronto, Canada.

- Eimerbrink, M.J.\* , Pendry, R.J.\*\* , Hodges, S.M.\*\* , Wiles, J.D.\*\* , White, J.D.\* , Peterman, J.L.\* , **Chumley, M.J. & Boehm, G.W** (April 15th 2016), Effects of MRK-016 on amyloid-beta induced learning deficits in mice within a contextual fear conditioning paradigm, Texas A&M Institute for Neuroscience 8th Annual Symposium, College Station, TX.
- Award: 2nd place, Undergraduate Poster Presentation White, J.D.\* , M.J. Eimerbrink\* , H.B. Hayes\*\* , A. Hardy\* , **G.W. Boehm** and **M.J. Chumley** (October, 2015). Repeated exposure to poly i:c leads to elevations in hippocampal amyloid-beta, cognitive dysfunction, and sustained deficits in burrowing. Society for Neuroscience Annual Conference, Chicago, IL.
- Hodges, S.L.\*\* , M.J. Eimerbrink\* , J.D. Wiles\*\* , J.D. White\* , J.L. Peterman\* , **M.J. Chumley** and **G.W. Boehm** (October, 2015). Effects of MRK-016 on amyloid-beta induced learning deficits in mice in a contextual conditioning paradigm. Society for Neuroscience Annual Conference, Chicago, IL.
- Pendry, R.J.\*\* , R.P. Madigan\*\* , M.D. Eriksson\*\* , J.D. White\* , M.J. Eimerbrink\*\* , **M.J. Chumley**, and **G.W. Boehm**, (October, 2015). *L. reuteri* decreases baseline anxiety, alters fear-related memory, and buffers stress- induced anxiety in C57/BL6 mice. Society for Neuroscience Annual Conference, Chicago, IL.
- White, J.D.\* , M.K. Weintraub\* , M.J. Eimerbrink\* , A.L. Morin\* , S.M. Turner\*\* , S.L. Hodges\*\* , L.N. Sadler\*\* , **G.W. Boehm** and **M.J. Chumley**, 2014, Voluntary Exercise Reduces Alzheimer's-like Pathology After Inflammation in Mice. Society for Neuroscience, Washington, D.C.
- Weintraub, M.K.\* , J.D. White\* , S.M. Turner\*\* , S.L. Hodges\*\* , A.L. Morin\* , L.N. Sadler\*\* , **G.W. Boehm** and **M.J. Chumley**, 2014, Voluntary Exercise Reduces Alzheimer's-like Pathology After Inflammation in Mice, Texas Chapter of the American College of Sports Medicine, Fort Worth, TX.
- Weintraub, M.K.\* , D. Kranjac\* , M.J. Eimerbrink\* , B. T. Vinson\* , J. Patel\*\* , W. Summers\*\* , B. Womble\*\* , **G.W. Boehm**, and **M.J. Chumley**, 2013, The Effects of Poly I:C on Hippocampal Amyloid-Beta and Cognition, Society for Neuroscience, San Diego, CA.
- Weintraub, M. K.\* , C.M. Bisson\*\* , B.T. Vinson\* , M.J. Eimerbrink\* , D. Kranjac\* , **G. W. Boehm** and **M. J. Chumley**, 2013, Imatinib methanesulfonate reduces hippocampal amyloid-beta and restores cognitive function following repeated endotoxin exposure. Psychoneuroimmunology Research Society, Stockholm, Sweden.
- Weintraub, M.K.\* , C.M. Bisson\*\* , and **M.J. Chumley**, 2013, Imatinib Reverses Amyloid Beta-Induced Cognitive Deficits. Southwest Psychological Association, Fort Worth, TX.
- Weintraub, M.K.\* and **M.J. Chumley**, 2013, The Impact of Viral Inflammation on Alzheimer's Disease-Like Pathology. Southwest Psychological Association, Fort Worth, TX.
- Weintraub, M.K.\* , C. Bisson\*\* , B. Vinson\* , M. Eimerbrink\* , D. Kranjac\* , B. Womble\*\* , **G.W. Boehm** and **M.J. Chumley**, 2012, Effects Of Imatinib Methanesulfonate On Inflammation-Induced Amyloid-Beta Production And Cognition, 2012, Society for Neuroscience, New Orleans, LA.

Kahn, M\*, W. Summers\*\*, D. Kranjac\*, B. Vinson\*, M. Eimerbrink\*, **G. Boehm** and **M. Chumley**, A Potential Link Between Viral Inflammation And Alzheimer's Disease, 2012, Society for Neuroscience, New Orleans, LA.

Bisson, C.\*\*, M. Kahn\*, J. Nouri\*\*, B. Vinson\*, D. Kranjac\*, M. Eimerbrink\*, **G.W. Boehm** and **M.J. Chumley**, 2012, Gleevec Attenuates Inflammation-Induced Amyloid-Beta Production And Restores Cognition, North Texas Life Science Research Symposium, Fort Worth, TX.

Summers, W.\*\*, M. Kahn, D\*. Kranjac, B. Vinson\*, M. Eimerbrink\*, **G. Boehm, M. Chumley**, 2012, Viral Inflammation And The Onset Of Alzheimer's Disease, North Texas Life Science Research Symposium, Fort Worth, TX.

Influence of Fitness and Adiposity on Whole Blood Response to  $\alpha$ -MSH Treatment. Integrative Biology of Exercise Scientific Conference, Westminster, CO, October 2012.

Influence of fitness and adiposity on melanocortin-1 and melanocortin-3 receptors on monocytes. Integrative Biology of Exercise Scientific Conference, Westminster, CO, October 2012.

Potential Link Between Viral Inflammation and Alzheimer's Disease. Society for Neuroscience National Convention, New Orleans, LA, 2012

Influence of fitness and adiposity on melanocortin-1 and melanocortin-3 receptors on monocytes. Texas Chapter, American College of Sports Medicine, Annual Meeting, Austin, TX, 2012.

Potential role for LPS-induced induction of Alzheimer's disease-related pathology and cognitive deficits. Society for Neuroscience National Convention, Washington, D.C., 2011

The Effects of Heat Acclimation on Heat Shock Protein-72 mRNA and Apoptosis in Lymphocytes. American College of Sports Medicine National Meeting, Denver, CO., 2011

Potential role for LPS-induced induction of Alzheimer's disease-related pathology and cognitive deficits. Arlington-Ft Worth Society for Neuroscience, Texas Christian University, Fort Worth, TX, 2011

Influence of aerobic fitness on melanocortin receptor expression in inflammatory monocytes – a novel mechanism of exercise-induced inflammatory reduction. John Peter Smith Health Network Intramural Research Day, Fort Worth TX, 2011

Lipopolysaccharide-Induced Amyloid-Beta Formation as a Model of Alzheimer's Disease Pathology, Texas Academy of Science. Austin, TX, 2010

Working and Reference Memory in Ephrin-B1 Knockout Mice. 17<sup>th</sup> Annual National McNair Research Conference, Delavan, WI, 2010

The effects of peripheral poly I:C on species-typical behavior in adult and aged mice. Psychoneuroimmunology Research Society, Trinity College, Dublin, Ireland, 2010

The effects of immediate and delayed peripheral LPS administration on contextual fear memory consolidation, BDNF mRNA, and brain/serum expression of cytokines/chemokines in mice. Psychoneuroimmunology Research Society, Trinity College, Dublin, Ireland, 2010

- A Neurogenic Role for EphB Receptors and Ephrins in the Hippocampal Formation. Southwest-Gulf Regional Meeting, Society for Developmental Biology. M.D. Anderson Cancer Center, Houston, TX, 2008
- EphB Receptors Coordinate Stem/Progenitor Cell Proliferation and Migration During Hippocampal Neurogenesis. Reprogramming the Human Brain Symposium. University of Texas at Dallas Center for Brain Health, Dallas, TX, 2007
- Eph/ephrin Signaling in the Growth Cone. Christopher Reeve Paralysis Foundation, Chicago, IL, 2004
- Eph Receptor Tyrosine Kinase and Ephrin Signaling in the Axonal Growth Cone. Southwest and Gulf Coast Regional Society for Developmental Biology, Dallas, TX, 2004
- The unique antigen receptor signaling phenotype of B-1 cells is influenced by locale but induced by antigen. Midwinter Conference of Immunologists, Monterey, CA, 1998
- A VH11V kappa 9 B cell antigen receptor drives generation of CD5+ B cells both in vivo and in vitro. Midwinter Conference of Immunologists, Monterey, CA, 1997
- Immune Dysfunction Following High-Intensity Interval Training. National Strength and Conditioning Association Meeting, New Orleans, LA, 1994
- Searching for Markers of Overtraining: Immune Dysfunction Following High-Intensity Interval Training. American College of Sports Medicine National Meeting, Seattle, WA, 1994
- Effects of Cold Whirlpool Treatment on Delayed-Onset Muscle Soreness Following Eccentric Exercise. Rocky Mountain Chapter of the American College of Sports Medicine Winter Conference, Frisco, CO, 1993

c. Invited Speaking Engagements

- Could “Catching” a Cold Lead to Alzheimer’s Disease. Department of Molecular Biology and Immunology Seminar, University of North Texas Health Sciences Center, Fort Worth, TX, 2013
- EphB Receptors in the Hippocampus: Roles in Neurogenesis and Cognition. Department of Biology Seminar Series, Texas Women’s University, Denton, TX, 2011
- What the Eph is Wrong With My Hippocampus? Arlington-Fort Worth Society for Neuroscience, University of Texas at Arlington, Arlington, TX, 2011
- Daddy, I Got Lots of Ephs: A Role for B-Class Eph Receptors and Ephrins in Hippocampal Neurogenesis. Department of Biological Sciences, Southern Methodist University, Dallas, TX, 2006
- Eph-ective Inflammation: A Role for the EphB Receptor Tyrosine Kinases During Acute Inflammation. Department of Molecular Biology and Immunology, University of North Texas Health Sciences Center, Fort Worth, TX, 2006
- A Role for EphB Receptors and Ephrins in the Hippocampal Formation. Stem Cells in Neuroscience Series. University of Texas Southwestern Medical Center. 2006

To B-1 or Not To B-1: Development of B-1 Lymphocytes from the Adult Bone Marrow.  
University of Kansas, Department of Molecular Biosciences, Lawrence, KS, 2000

Immune Dysfunction Following High-Intensity Interval Training. American College of  
Sports Medicine National Meeting, Seattle, WA, 1994

## **ACADEMIC ADVISING ACTIVITIES**

Fall 2016: 24 formal appointments (Undergraduate)

Summer 2014: 19 formal appointments (Undergraduate – 6, Graduate – 2, Medical  
School Mock Interviews – 11)

Spring 2015, 58 formal appointments (all undergraduates)

Fall 2014: 37 formal appointments (all undergraduate)

Summer 2014: 15 formal appointments (Undergraduate – 3, Graduate – 2, Medical  
School Mock Interviews – 10)

Spring 2014: 49 formal appointments (Undergraduate – 49)

Fall 2013: 50 formal appointments (Undergraduate – 47, Graduate – 3)

Summer 2013: 17 formal appointments (Undergraduate – 4, Graduate – 2, Medical  
School Mock Interviews – 11)

Spring 2013: 36 formal appointments (Undergraduate – 34, Graduate – 2)

Fall 2012: 44 formal appointments (Undergraduate – 43, Graduate – 1)

Summer 2012: 6 formal appointments (Medical School Mock Interviews – 6)

Spring 2012: 26 formal appointments (Undergraduate – 25, Graduate – 1)

Fall 2011: 29 formal appointments (Undergraduate – 28, Graduate – 1)

Summer 2011: 9 formal appointments (Medical School Mock Interviews – 9)

Spring 2011: 34 formal appointments (Undergraduate – 34)

Fall 2010: 20 formal appointments (Undergraduate – 20)

## **PROFESSIONAL ACTIVITIES**

- a. Journal Referee: *Animal Cells and Systems*, *Journal of Neuroinflammation*,  
*Behavioural Brain Research*, *Brain*, *Behavior*, and *Immunity*
- b. Textbook Review: *The Immune System*, by Peter Parham. Published by Garland  
Scientific
- c. Proposal Referee: Medical Research Council, London, U.K.

## **DEPARTMENTAL SERVICE**

Tenure-Track Geneticist Search Committee Chair, 2013

Committee on Graduate Studies, 2011– present

Curriculum Committee, 2012 – present

Tenure-Track Physiologist Search Committee, 2012

Monday at TCU, 2009 – present

## **COLLEGE SERVICE**

Health Professions Advisory Committee (2010 – present)

CSE Safety Committee (2009)

## **UNIVERSITY SERVICE**

TCU Medical School Curriculum Committee (2015 – present)



TCU Honor's College Task Force on Departmental Honors (2016)  
TCU Environmental Health and Safety Committee (2009 – 2012)

### **COMMUNITY SERVICE AND OUTREACH**

Judge of North Texas Research Symposium, 2012 – present)  
Steering committee member, North Texas Life Science Research Symposium (2012 – present)  
*Ad hoc* Microscopy Core Tours and Demonstrations, 2010 – Present  
Keller Independent School District Campus Educational Improvement Committees, Hidden Lakes Elementary (2012 – 2014), Bear Creek Intermediate (2014-2016), Keller Middle School (2016-present)

### **MEMBERSHIPS IN PROFESSIONAL ORGANIZATIONS**

Psychoneuroimmunology Research Society (2008 – present)  
American Association for the Advancement of Science (2007 – present)  
Society for Neuroscience (2007 – present)

### **PROFESSIONAL HONORS AND AWARDS**

Wassenich Award for Mentoring, Winner, 2014  
Wassenich Award for Mentoring, Nominee, 2013  
John V. Roach Honors College Professor of the Year, 2013  
Mortar Board Preferred Professor, 2010 – 2011  
TCU Senior Class Legacy Honoree, 2011  
Mortar Board Preferred Professor, 2009 – 2010  
TCU Senior Class Legacy Honoree, 2010

### **RESEARCH HONORS AND AWARDS FOR MENTORED STUDENTS**

Marielle K. Weintraub, Trainee Scholar Travel Award, PsychoNeuroImmunology Research Society Annual Meeting, Stockholm, Sweden, 2013  
Marielle K. Weintraub, Graduate Presentation Award Showcase, Southwest Psychological Association Annual Conference, Fort Worth, TX, 2013  
Whitney Summers, Undergraduate Presentation Award Showcase, Southwest Psychological Association, Fort Worth, TX, 2013  
Marielle K. Weintraub, 1<sup>st</sup> place Graduate Interdisciplinary Poster, TCU College of Science and Engineering Student Research Symposium, 2012  
Whitney Summers, 1<sup>st</sup> place Undergraduate Interdisciplinary Poster, TCU College of Science and Engineering Student Research Symposium, 2012  
Matt Unthank, 2<sup>nd</sup> place Graduate Presentation Award, Texas Chapter of the American College of Sports Medicine Annual Meeting, 2012  
Marielle S. Kahn, 1<sup>st</sup> place Graduate Interdisciplinary Poster, TCU College of Science and Engineering Student Research Symposium, 2011  
Kelyn Rola, 2<sup>nd</sup> place Graduate Presentation Award, Texas Chapter of the American College of Sports Medicine Annual Meeting, 2011