

*Curriculum Vitae*

**KAREN L. SWEAZEA**

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**Current as of September 23, 2017**

**EDUCATION**

2005-2008	Postdoc	Univ. of New Mexico, Albuquerque Dr. Benjimen Walker, mentor	Vascular Physiology
2000-2005	Ph.D.	Univ. of Arizona, Tucson Dr. Eldon Braun, mentor	Physiological Sciences
1995-1998	B.S.	Univ. of Arizona, Tucson	Physiology
1993-1995	A.A.	El Camino College, Torrance, CA	General Studies

**PROFESSIONAL POSITIONS**

2017-pres	Associate, College of Medicine, University of Arizona, Phoenix campus
2015-pres	Associate Professor and Barrett Honors Faculty, Nutrition Program, School of Nutrition and Health Promotion, College of Health Solutions, Arizona State University, AZ
2015	Adjunct Associate Professor, Division of Epidemiology and Community Health, School of Public Health, University of Minnesota, Minneapolis, MN
2011-2015	Assistant Professor and Barrett Honors Faculty, Nutrition Program (Teaching in Health Sciences Degree program), School of Nutrition and Health Promotion, College of Health Solutions, Arizona State University (ASU), Phoenix, AZ*
2010-2011	Assistant Professor and Barrett Honors Faculty, Nutrition Program (Teaching in Health Sciences Degree program), College of Nursing and Health Innovation, ASU, Phoenix, AZ*
2009-2010	Assistant Professor, Health Sciences Program, College of Nursing and Health Innovation, ASU, Phoenix, AZ*
2008-2009	Assistant Professor, Applied Biological Sciences, ASU Polytechnic, Mesa, AZ*
2008	Assistant Professor, Physics, Chemistry, and Applied Mathematics, ASU Polytechnic, Mesa, AZ*
2005-2008	Postdoctoral Fellow, University of New Mexico, Albuquerque, NM
2001-2005	Exam Supervisor for national and university exams, University of Arizona Testing Office, Tucson, AZ
2000-2005	Graduate Research Assistant, University of Arizona, Tucson, AZ

*\*All changes in program affiliation are related to university-wide administrative reorganizations*

**GRADUATE FACULTY MEMBERSHIPS**

2014-pres	Elected to the graduate faculty of Biological Design, The Biodesign Institute, ASU, Tempe, AZ
2011-pres	Elected to the graduate faculty of Evolutionary Biology, School of Life Sciences, ASU, Tempe, AZ

- 2011-pres Appointed to Organismal, Integrative and Systems Biology faculty group, School of Life Sciences, ASU, Tempe, AZ
- 2010-pres Elected to the graduate faculty of Biology, School of Life Sciences, ASU, Tempe, AZ

### **AWARDS/RECOGNITIONS**

- 2017 T/TT Excellence in Service Award, School of Nutrition and Health Promotion, ASU
- 2016 Distinguished Service on the Comparative and Evolutionary Physiology (CEP) Section of the American Physiological Society Steering Committee Award
- 2015 New Investigator Award, CEP section of the American Physiological Society
- 2014 Outstanding Faculty Mentor Award, Faculty Women's Association, ASU
- 2014 Dale J. Benos Early Career Professional Service Award, The American Physiological Society (<http://bit.ly/OqEWRw>)
- 2013-pres Member, Sarver Heart Center, The University of Arizona, Tucson, AZ
- 2013 Nominated, Alfred P. Sloan Research Fellowship
- 2011 Nominated, Outstanding Faculty Mentor Award, Faculty Women's Association, ASU
- 2010 Elected Member, Sigma Xi, The Scientific Research and Honor Society
- 2008 August Krogh Young Investigator Award, The Microcirculatory Society
- 2006 Research Recognition Award, CEP section of the American Physiological Society
- 2004 Women in Science and Engineering (WISE) Travel Grant

### **PROFESSIONAL AND ACADEMIC MEMBERSHIPS**

- 2014-pres University Club, Arizona State University
- 2013-pres American Society for Nutrition (ASN)
- 2010-pres Sigma Xi, The Scientific Research and Honor Society
- 2009-pres Faculty Women's Association, Arizona State University
- 2009-pres The Arizona Physiological Society (AzPS)
- 2005-pres American Association for the Advancement of Science (AAAS)
- 2004-pres American Heart Association (AHA)
- 2002-pres Elected Member, The American Physiological Society (APS)

### **STUDY SECTIONS**

#### American Heart Association (AHA)

- Spring 2017 Vascular Biology & Blood Pressure BSc 2 Study Section
- Spring 2018 Vascular Biology & Blood Pressure BSc Fellowship Program

## PUBLICATIONS

- Underlined names are mentored students (†Undergraduate student; ††Graduate Student);  
\*Corresponding Author
- PMID = PubMed ID

### A. Peer-Reviewed

1. Ingram T††, Zuck J††, Borges C, Redig P, **Sweazea KL\***. (2017) Variations in native protein glycation and plasma antioxidants in several birds of prey. *Comparative Biochemistry and Physiology B*. 210: 18-28. PMID: 28529085.
2. **Sweazea KL\***, Braun EJ, Sparr R†. (2017) Novel role of insulin in the regulation of glucose excretion by mourning doves (*Zenaida macroura*). *Zoology*. 122: 58-62. PMID: 28363806.
3. Aslam F††, Iqbal S\*, Nasir M, Anjum AA, Swan PD, **Sweazea K**. (2017) Evaluation of white sesame seed oil on glucose control, and biomarkers of hepatic, cardiac, and renal functions in male Sprague-Dawley rats with chemically induced diabetes. *Journal of Medicinal Foods*. 20(5): 448-457. PMID: 28332903.
4. Ricklefs-Johnson K††, Johnston CS, **Sweazea KL\***. (2017) Ground flaxseed increased nitric oxide levels in adults with type 2 diabetes: A randomized comparative effectiveness study of supplemental flaxseed and psyllium fiber. *Obesity Medicine*. 5: 16-24, 2017.
5. Zuck J††, Borges C, Braun EJ, **Sweazea KL\***. (2017) Chicken albumin exhibits natural resistance to glycation. *Comparative Biochemistry and Physiology-B*. 203: 108-114. PMID: 27773732.
6. **Sweazea K\***, Johnston C, Knurick J††, Bliss C††. (2017) Plant-based nutraceutical increases plasma catalase activity in healthy participants: A small double-blind, randomized, placebo-controlled, proof of concept trial. *Journal of Dietary Supplements*. 14(2): 200-213. PMID: 27715348.
7. Jarrett C††, Ahmed Z†, Faust JJ††, **Sweazea KL\***. (2016) High glucose impairs acetylcholine-mediated vasodilation in isolated arteries from mourning doves (*Z. macroura*). *Comparative Biochemistry and Physiology*. 201A: 141-145. PMID: 27445008.
8. Sawyer BJ, Tucker WJ, Bhammar DM, JR Ryder, **Sweazea KL**, Gaesser GA\*. (2016) Effects of high-intensity interval training and moderate-intensity continuous training on endothelial function and cardiometabolic risk markers in obese adults. *Journal of Applied Physiology*. 121: 279-288.
9. Simperova A†, Al-Nakkash L, Faust JJ, **Sweazea KL\***. (2016) Genistein supplementation prevents weight gain but promotes oxidative stress and inflammation in the vasculature of female obese ob/ob mice. *Nutrition Research*. 36(8): 789-797.
10. **Sweazea KL\***. (2015) Serving Our Society. *The Physiologist*. 58(4): 180-181.
11. **Sweazea KL\***, Simperova A†, Juan T†, Gadau A†, Brant S, Deviche P, Jarrett C††. (2015) Pathophysiological responses to a schistosome infection in a wild population of mourning doves (*Zenaida macroura*). *Zoology*. 118(6): 386-393.
12. Crinigan C††, Calhoun M†, **Sweazea KL\***. (2015) Short-term high fat intake does not significantly alter markers of renal function of inflammation in young male Sprague-Dawley rats. *Journal of Nutrition and Metabolism*. 2015: Article ID 157520.
13. **Sweazea KL\***, Johnston CS, Ricklefs KD††, Petersen KN††. (2014) Almond supplementation in the absence of dietary advice significantly reduces C-reactive protein in subjects with type 2 diabetes. *Journal of Functional Foods*. 10: 252-259.

14. **Sweazea KL\***, McMurtry JP, Elsey RM, Redig P, Braun EJ. (2014) Comparison of metabolic substrates in alligators and several birds of prey. *Zoology*. 117(4): 253-260. DOI: 10.1016/j.zool.2014.04.002
15. Wilkening JL††\*, Ray C, **Sweazea KL**. (2013) Stress hormone concentration in Rocky Mountain populations of the American pika (*Ochotona princeps*). *Conservation Physiology*. 1: 1-13.
16. Giraudeau M†††\*, **Sweazea K**, Butler M, McGraw KJ. (2013) Effects of carotenoid and vitamin E supplementation on oxidative stress and plumage coloration in house finches (*Haemorhous mexicanus*). *Comparative Biochemistry and Physiology*. 166A(3): 406-413. PMID: 23872319.
17. Jarrett C††, Lekic M†, Smith CL†, Pusec C†, **Sweazea KL\***. (2013) Mechanisms of acetylcholine-mediated vasodilation in systemic arteries from mourning doves (*Zenaida macroura*). *Journal of Comparative Physiology – B*. 183(7): 959-967. PMID: 23640140
18. **Sweazea KL\***, Braun EJ. (2013) Reciprocal inhibition of *in vitro* substrate movement into avian skeletal muscle. *Zoology (Jena)*. 116(2): 85-89. PMID: 23384946.
19. Davies S††\*, Rodriguez N†, **Sweazea KL**, Deviche P. (2013) The effect of acute stress and long-term corticosteroid administration on plasma metabolites in an urban and desert songbird. *Physiological and Biochemical Zoology*. 86(1): 47-60. PMID: 23303320.
20. Fokidis HB\*, des Roziers MB, Sparr R†, Rogowski C, **Sweazea KL**, Deviche P. (2012) Unpredictable food availability induces metabolic and hormonal changes independent of food intake in a sedentary songbird. *Journal of Experimental Biology*. 215: 2920-2930. PMID: 22837467.
21. Kuzmiak S††, Glancy B†††, **Sweazea KL**, Willis WT\*. (2012) Mitochondrial function in sparrow pectoralis muscle. *Journal of Experimental Biology*. 215: 2039-2050. PMID: 22623192.
22. **Sweazea KL\*** and Walker BR. (2012) Impaired myogenic tone in mesenteric arteries from overweight rats. *Nutrition and Metabolism*. 9(1): 18-26.
23. Fokidis HB††\*, Hurley L††, Rogowski C, **Sweazea K**, Deviche P. (2011) Effects of captivity and body condition on plasma corticosterone, locomotor behavior, and plasma metabolites in curve-billed thrashers. *Physiological and Biochemical Zoology*. 84(6): 595-606. PMID: 22030852.
24. Smith CL†, Toomey M††, Walker BR, Braun EJ, Wolf BO, McGraw K, **Sweazea KL\***. (2011) Naturally high plasma glucose levels in mourning doves (*Zenaida macroura*) do not lead to high levels of reactive oxygen species in the vasculature. *Zoology (Jena)*. 114: 171-176. PMID: 21600747.
25. Matyas ML\*, Lowy ME, **Sweazea KL**, Alvarez DF. (2011) Monitoring physiology trainee needs to focus professional society responses: The APS Trainee Needs Surveys. *Advances in Physiology Education*. 35: 168-177. PMID: 21652502.
26. **Sweazea KL\***, Walker BR. (2011) High fat feeding impairs endothelin-1 mediated vasoconstriction through increased iNOS-derived nitric oxide. *Hormone and Metabolic Research*. 43: 470-476. PMID: 21448844.
27. **Sweazea KL\***, Kanagy NL, Walker BR. (2011) Increased adiposity does not exacerbate impaired vasodilation in rats exposed to eucapnic intermittent hypoxia. *Respiration*. 81: 47-56. PMID: 20733283.

28. **Sweazea KL\***, **Lekic M†**, Walker BR. (2010) Comparison of mechanisms involved in impaired vascular reactivity between high sucrose and high fat diets in rats. *Nutrition and Metabolism*. 7: 48. PMID: 20525365.
29. **Sweazea KL**, Walker BR\*. (2009) Antioxidant and vasodilatory effects of heme oxygenase on mesenteric vasoreactivity following chronic hypoxia. *Microcirculation*. 16(2): 131-141. PMID: 19031291.
30. Braun EJ\*, **Sweazea KL**. (2008) Invited review: Glucose regulation in birds. *Comparative Biochemistry and Physiology*. 151B: 1-9. PMID: 18571448.
31. **Sweazea KL**, McMurtry JP, Braun EJ\*. (2006) Inhibition of lipolysis does not affect insulin sensitivity to glucose uptake in the mourning dove. *Comparative Biochemistry and Physiology*. 144B(3): 387-394. PMID: 16753324.
32. **Sweazea KL**, Braun EJ\*. (2006) Glucose transporter expression in English sparrows (*Passer domesticus*). *Comparative Biochemistry Physiology*. 144B(3): 263-270. PMID: 16730206.
33. **Sweazea KL**, Braun EJ\*. (2006) Oleic acid uptake by *in vitro* English sparrow skeletal muscle. *Journal of Experimental Zoology*. 305A(3): 268-276. PMID: 16432889
34. Marquez JM†, **Sweazea KL**, Braun EJ\*. (2006) Skeletal muscle fiber composition of English sparrow (*Passer domesticus*). *Comparative Biochemistry and Physiology*. 143B: 126-131. PMID: 16330231.
35. **Sweazea KL**, Braun EJ\*. (2005) Glucose transport by English sparrow (*Passer domesticus*) skeletal muscle: Have we been chirping up the wrong tree? *Journal of Experimental Zoology*. 303A: 143-153. PMID: 15662664.

#### B. Invited Editorial

1. **Sweazea KL\***. (2014) Compounding evidence implicating Western diets in the development of metabolic syndrome. *Acta Physiologica*. 211(3): 471-473. PMID: 24751347.

#### C. Invited Book Review

1. Palumbri SR, Palumbri AR. *The Extreme Life of the Sea*. Princeton University Press, Princeton, NJ. Review published in: *The Physiologist*. 2014.

#### D. Abstracts of Poster Presentations

1. Mayra SM††, Mayol-Kreiser S, Johnston CS\*, **Sweazea KL**. (2017) Comparison of High-Nitrate versus Low-Nitrate Diets on Cardiovascular Health in Post-Menopausal Women. 2017 Arizona Physiological Society conference, Flagstaff, AZ.
2. **Crawford M††**, **Clark W†**, **Sweazea KL\***. (2017) Novel organometallic complex lowers non-HDLc in male adolescent rats following 10-week high fat diet. 2017 Arizona Physiological Society conference, Flagstaff, AZ.
3. **Basile A††**, **Caskey A†**, **Jarrett C††**, **Sweazea KL\***. (2017) Relationship between animal class and dietary profile on blood glucose concentrations. 2017 Arizona Physiological Society conference, Flagstaff, AZ.
4. Gonzales RJ\*, Tat T, So M, **Bartel R†**, **Sweazea KL**. (2017) Doxorubicin temporally modulates cyclooxygenase-2 levels in human vascular smooth muscle cells. 2017 Arizona Physiological Society conference, Flagstaff, AZ.
5. Rahman S, **Bartel R†**, DeCourt B, **Sweazea KL**, Gonzales RJ. (2017) Lenalidomide attenuates high fat diet induced cyclooxygenase-2 levels in primary human vascular smooth muscle cells. 2017 Arizona Physiological Society conference, Flagstaff, AZ

6. Mayra S††, **Sweazea K\***, Johnston C, Mayol-Kreiser S. (2017) Comparison of high-nitrate versus low-nitrate diets on cardiovascular health in post-menopausal women. 2017 Arizona Academy of Nutrition and Dietetics, Phoenix, AZ.
7. Crawford M††, Liss T†, **Sweazea KL\***. (2017) Short term high fat feeding alters expression of gluoregulatory proteins in skeletal muscle of male adolescent rats. 2017 Experimental Biology conference, Chicago, IL.
8. Crawford M††, Whisner C, **Sweazea KL\***. (2017) Examination of changes in intestinal microbiota induced by high fat feeding in male adolescent rats. 2017 Experimental Biology conference, Chicago, IL.
9. **Sweazea KL\***, Johnston CS, Miller B, Gumpricht E. (2017) Beet juice energy drink increases nitric oxide bioavailability and lowers blood pressure in healthy men. 2017 Experimental Biology conference, Chicago, IL.
10. Vijayavel N, So M, Tat T, Raman P, Echeverria J, **Sweazea K**, Hale T, Dickinson JM, Carroll C, Angadi SS, and Gonzales RJ\*. Doxorubicin alters TLR4/NfkappaB/COX-2 pathway in brain and pial arteries from ovariectomized female rats independent of high intensity exercise. 2016 American Physiological Society Integrative Biology of Exercise Meeting, Phoenix, AZ.
11. Crawford M††, Whisner C, **Sweazea KL\***. (2016) Preliminary examination of changes in intestinal microbiota induced by high fat feeding in male adolescent rats. 2016 Sigma Xi, The Scientific Research Society conference, Atlanta, GA.
12. Crawford M††, Whisner C, **Sweazea KL\***. (2016) Preliminary examination of changes in intestinal microbiota induced by high fat feeding in male adolescent rats. 2016 Arizona Physiological Society conference, Tucson, AZ.
13. O'Neill LM†, Mayek RE, Jarrett CL††, Crawford M††, D'Lugos A††, Carroll CC, Angadi SS, Gonzales R, Hale TM, Dickinson JM, **Sweazea KL\***. (2016) High-intensity exercise preconditioning prevents downregulation of eNOS expression in the aorta following Doxorubicin treatment. 2016 Arizona Physiological Society conference, Tucson, AZ.
14. Eagleman D†, Mahrer K†, **Sweazea KL\***. (2016) Putative role of uric acid as an antioxidant in avian arteries. 2016 Arizona Physiological Society conference, Tucson, AZ.
15. Crawford M††, Liss T†, **Sweazea KL\***. (2016) Short term high-fat feeding alters expression of gluoregulatory proteins in skeletal muscle of male adolescent rats. 2016 Arizona Physiological Society conference, Tucson, AZ.
16. Khokar B, Perez O, D'Lugos AC††, Carroll CC, Gonzales RJ, **Sweazea KL**, Dickinson JM, Angadi SS, Hale TM\*. (2016) Impact of high intensity interval training on Doxorubicin-induced pathological cardiac remodeling in female Sprague-Dawley rats. 2016 Arizona Physiological Society conference, Tucson, AZ.
17. Perez O, Khokar B, Abidali H, D'Lugos A††, Carroll CC, Gonzales RJ, **Sweazea KL**, Dickinson JM, Angadi SS, Hale TM\*. (2016) Impact of high intensity interval training on Doxorubicin-induced cardiotoxicity in female Sprague-Dawley rats. 2016 Arizona Physiological Society conference, Tucson, AZ.
18. Awwad I, D'Lugos AC††, Carroll CC, Gonzales RJ, **Sweazea KL**, Dickinson JM, Angadi SS, Hale T\*. (2016) Exercise preconditioning as a means to protect against Doxorubicin-induced renal injury. 2016 Arizona Physiological Society conference, Tucson, AZ.
19. Ahmed Z†, Jarrett CL††, Faust JJ†††, **Sweazea KL\***. (2016) High glucose-mediated oxidative stress impairs vasodilation of small resistance skeletal muscle arteries from

- mourning doves (*Zenaida macroura*). 2016 Experimental Biology conference, San Diego, CA.
20. Crawford M††, Liss T†, Calhoun M†, Sweazea KL\*. (2016) In the short term, poor nutrition promotes simple steatosis without inflammation in adolescent rats. 2016 Experimental Biology conference, San Diego, CA.
  21. Sweazea KL\*, Braun EJ. (2016) Preliminary examination of a role for insulin in the regulation of glucose excretion in mourning doves (*Zenaida macroura*). 2016 Experimental Biology conference, San Diego, CA.
  22. O'Neill LM†, Jarrett CL††, Crawford M††, Carroll CC, Hale TM, Dickinson JM, Angadi SS, Sweazea KL\*. (2015) Evaluation of the vasoprotective effects of high-intensity exercise prior to anthracycline chemotherapy. 2015 Arizona Physiological Society conference, Glendale, AZ.
  23. Crawford M††, Liss T†, Calhoun M†, Sweazea KL\*. (2015) In the short term, poor nutrition promotes simple steatosis without inflammation in adolescent rats. 2015 Arizona Physiological Society conference, Glendale, AZ.
  24. Vijayavel N, Raman P, Kerrigan C, Echeverria J, Dickinson J, Hale T, Sweazea K, Carroll C, Angadi S, Gonzales RJ\*. Doxorubicin alters COX-2 expression in brain and pial arteries from ovariectomized female rats. 2015 Arizona Physiological Society conference, Glendale, AZ.
  25. Connick M, Salazar C, Baymiller M, Reiss R\*, Sweazea K. (2015) Next generation sequencing reveals a role for hemoglobin in metabolic dysfunction. 2015 New Mexico Bioinformatics Symposium.
  26. Gonzales RJ\*, Raman P, Vijayavel N, Kerrigan C, Echeverria J, Dickinson JM, Hale T, Sweazea K, Carroll C, and Angadi SS. Doxorubicin reduces proinflammatory mediator expression in brain and pial arteries from ovariectomized female rats. 2015 APS Sex and Gender Meeting, Annapolis, MD.
  27. Sweazea KL\*, Borges C, Zuck J††, Rayle S†. (2015) Unraveling the avian paradox: Avian resistance to protein glycation. *FASEB J.* 29: LB642.
  28. Ricklefs K††, Johnston CS, Sweazea KL\*. (2015) Therapeutic use of ground flaxseeds for type 2 diabetes. *FASEB J.* 29: 912.11.
  29. Raad NA†, Rehder DS, Sherma N, Beezhold BL, Johnston CS, Borges CS, Sweazea K\*. (2015) Replacing dietary meat with fish increases plasma glucose without affecting protein glycation. *FASEB J.* 29: 912.8.
  30. Faust J††, Malenica I†, Doshi M, Stepanek R, Brower J†††, Sweazea K, Caplan MR, Herman R\*. (2014) Pancreatic  $\beta$ -cell function and mass in pubertal hyperinsulinemia. 2014 Biomedical Engineering Society Conference, San Antonio, TX.
  31. Ricklefs K††, Simperova A†, Reaven P, Sands M†††, Sweazea KL\*. (2014) Downregulation of the vascular insulin signaling pathway may contribute to hyperglycemia following high fat intake. 2014 Arizona Physiological Society Conference, Tucson, AZ.
  32. Raad N†, Rehder DS, Sherma ND†, Beezhold BL, Johnston CS, Borges CR, Sweazea KL\*. (2014) Replacing dietary meat with fish significantly increases plasma glucose without affecting protein glycation. 2014 Arizona Physiological Society Conference, Tucson, AZ.
  33. Sweazea K\*, Borges C, Rayle S†. (2014) The avian paradox: Avian resistance to protein glycation. 2014 Comparative and Evolutionary Physiology Intersociety meeting. *The Physiologist.* 58(1): 23.18.

34. Simperova A†, Ricklefs K††, Al-Nakkash L, Faust JJ††, **Sweazea KL\***. (2014) Genistein-enriched diet tends to increase oxidative stress in the vasculature of female *ob/ob* mice. *FASEB J.* 28: 693.9.
35. Ricklefs K††, Simperova A†, Reaven P, Sands M†††, **Sweazea KL\***. (2014) Impaired insulin-mediated vasodilation may contribute to hyperglycemia following high fat intake. *FASEB J.* 28: 1030.1.
36. Calhoun M†, McGraw K, **Sweazea KL\***. (2014) Variations in pancreatic glucoregulatory hormones in birds. *FASEB J.* 28: 1101.1.
37. **Sweazea KL\***, Johnston CS, Ricklefs K††, Petersen K††, Alanbagy S††. (2014) Almond supplementation without dietary advice significantly reduced C-reactive protein in subjects with poorly-controlled type 2 diabetes. *FASEB J.* 28: 830.24.
38. **Sweazea KL\***, Jarrett C††, Faust JJ††. (2014) Oxidative stress impairs vasodilation of *ex vivo* arteries from mourning doves (*Z. macroura*). *FASEB J.* 28: 880.3.
39. Simperova A†, Al-Nakkash L, Faust JJ††, Ricklefs K††, **Sweazea KL\***. (2014) Genistein-enriched diet tends to increase oxidative stress in the vasculature of female *ob/ob* mice. SOLUR Undergraduate Research Poster Symposium, SOLS, ASU.
40. Reiss RA\*, **Sweazea K**, Naik V, Cameron C, Lindquist I, Mudge J, Miller N, Schikley F, Walker B. (2014) Non-coding RNAs as potential modulators of metabolic dysfunction. 2014 Long Non-coding RNA, Marching toward Mechanisms conference, Santa Fe, NM.
41. Calhoun M†, McGraw K, **Sweazea KL\***. (2013) Variations in pancreatic regulation of glucose homeostasis in birds. 2013 Arizona Physiological Society Conference, Phoenix, AZ. Abstract #S14.
42. Simperova A†, Ricklefs K††, Faust JJ††, Al-Nakkash L, **Sweazea KL\***. (2013) Putative protective effects of genistein in the vasculature of female *ob/ob* mice. 2013 Arizona Physiological Society Conference, Phoenix, AZ. Abstract #S19.
43. Ricklefs K††, Simperova A†, Reaven P, Sands M†††, **Sweazea KL\***. (2013) Downregulation of the vascular insulin signaling pathway may contribute to hyperglycemia following high fat intake. 2013 Arizona Physiological Society Conference, Phoenix, AZ. Abstract #F8.
44. Liss T†, **Sweazea K\***. (2013) Evaluation of inflammatory response and lipid concentration after high fat diet. 12<sup>th</sup> Annual Barrett, The Honors College, Celebrating Honors Symposium of Research and Creative Projects, ASU.
45. Petersen KN††, Ricklefs K††, Alanbagy S††, Johnston CS, **Sweazea KL\***. (2013) Almond consumption reduces diastolic blood pressure in men with type 2 diabetes. *FASEB J.* 27: lb422.
46. Ricklefs K††, Petersen K††, Alanbagy S††, Johnston CS, **Sweazea KL\***. (2013) Investigating the effects of 12 week almond consumption in type 2 diabetes. *FASEB J.* 27: lb424.
47. **Sweazea KL\***, Baluch D, Traynor K††, Cease A††, Coulombe M, Stout V. (2013) Jumpstarting STEM careers. *FASEB J.* 27: 740.1.
48. Wilkening J††\*, Ray C, **Sweazea K**. (2012) Using fecal samples to measure physiological stress in American pikas. 97<sup>th</sup> Ecological Society of America annual meeting, Portland OR.
49. Ricklefs K††, Soweidan D†, Jarrett CJ††, **Sweazea KL\***. (2012) Effects of acute exposure to high glucose on tissue oxidative stress. The Arizona Physiological Society Conference, Tucson, AZ. Abstract #F27.



50. Calhoun M†, Witt C, **Sweazea KL**\*. (2012) Variations in glucose across phylogenetically distinct avian species. The Arizona Physiological Society Conference, Tucson, AZ. Abstract #F18.
51. Liss T†, Frahm C†, **Sweazea KL**\*. (2012) Lipid infiltration of rodent liver and pectoralis muscles following 6 weeks of high caloric intake. The Arizona Physiological Society Conference, Tucson, AZ. Abstract #F21.
52. Juan TK†, Jarrett CL††, Brant S, **Sweazea KL**\*. (2012) Pathophysiological consequences of schistosome infections in mourning doves (*Zenaida macroura*). The Arizona Physiological Society Conference, Tucson, AZ. Abstract #5.
53. Baluch DP\*, Traynor K††, Cease A††, Coloumbe M, Stout V, **Sweazea KL**. Jumpstarting STEM careers. 2012 American Society for Cell Biology Conference, San Francisco, CA.
54. Rodriguez N†, Jarrett CL††, **Sweazea KL**\*. (2012) Hopscotch through the heart: Teaching cardiovascular physiology to 2<sup>nd</sup> graders. 2012 Experimental Biology Conference, San Diego, CA.
55. **Sweazea KL**, Brower J†††, Faust J††, Malenica I†, Herman R\*. (2012) Islet dysfunction in rats fed a high fat diet (HFD): A structure–function study. *FASEB J.* 26: 1113.3.
56. Juan TK†, Jarrett CL††, **Sweazea KL**\*. (2012) Immune responses to parasitic infections in mourning doves (*Zenaida macroura*). *FASEB J.* 26: 1072.9.
57. Liss T†, Reiss RA, **Sweazea KL**\*. (2012) High fat feeding leads to inflammation and depressed markers of immune system reactivity in rats. *FASEB J.* 26: 680.16.
58. Jarrett CL††, **Sweazea KL**\*. (2012) *In vitro* effects of acute exposure to hyperglycemic conditions on endothelium-dependent vasodilation in mourning doves (*Zenaida macroura*). *FASEB J.* 26: 886.7.
59. Garcia MD††, Bryant S†, Baeza M†, **Sweazea K**, Reiss R\*. (2012) The role of diet in the regulation of the nuclear hormone receptor gene Nr4a2 in rats exhibiting metabolic dysfunction. 2012 New Mexico Bioinformatics, Science and Technology Symposium, Santa Fe, NM.
60. Jarrett CL††, Lekic M†, Smith C†, **Sweazea KL**\*. (2011) Acetylcholine-mediated vasodilation is dependent on the activation of potassium channels in mourning doves (*Zenaida macroura*). The Arizona Physiological Society Conference, Tucson, AZ. Abstract #13.
61. Ray C\*, **Sweazea KL**. (2011) Signs of demographic change and physiological stress in Rocky Mountain pikas. 2011 Ecological Society of America Conference, Austin, TX. Abstract #COS 106-9.
62. Hostetter K†, **Sweazea KL**, Braun EJ\*. (2011) A comparison of avian pancreatic islets. *FASEB J.* 25: 859.11.
63. Jarrett C††, Lekic M†, Smith C†, **Sweazea KL**\*. (2011) Mechanisms of acetylcholine-mediated vasodilation in arterioles from mourning doves (*Zenaida macroura*). *FASEB J.* 25: 858.13.
64. Kuzmiak S††, Schmidt E, **Sweazea K**, Willis W\*. (2010) Pyruvate sparing by fatty acid and glutamate in sparrow skeletal muscle mitochondria. 2010 Arizona Physiological Society Conference, Glendale, AZ. Abstract #F-9.
65. Lekic M†, Jarrett C††, Smith C†, **Sweazea KL**\*. (2010) Characterization of ACh-mediated vasodilation in tibialis and mesenteric arteries isolated from mourning doves. 2010 Arizona Physiological Society Conference, Glendale, AZ. Abstract #S

66. Kuzmiak S††, Schmidt E, **Sweazea K**, Willis W\*. (2010) Pyruvate sparing by fatty acid and glutamate in sparrow skeletal muscle mitochondria. ACSM Conference on Integrative Physiology of Exercise, Miami Beach, FL.
67. **Sweazea KL\***, Sparr R†, Braun EJ. (2010) The regulatory role of insulin in avian kidneys. 2010 APS Intersociety Meeting: Global Change and Global Science: Comparative Physiology in a Changing World, Westminster, CO. Abstract #20.26.
68. Rodriguez N†, Davies S††, Deviche P, **Sweazea KL\***. (2010) Metabolic effects of stress in rural and urban male Abert's Towhees. 2010 APS Intersociety Meeting: Global Change and Global Science: Comparative Physiology in a Changing World, Westminster, CO. Abstract #12.43.
69. Aguirre LE†††, De Leon X†, **Sweazea KL**, Walker BR, Colleran K, Kanagy NL\*. (2010) Effects of intermittent hypoxia on blood pressure, serum plasminogen activator inhibitor 1 and glucose metabolism in male Sprague Dawley rats. The 92<sup>nd</sup> Annual Endocrine Society Annual Meeting, San Diego, CA. Abstract #P3-465.
70. Davies S††, Rodriguez N†, **Sweazea KL**, Deviche P\*. (2010) The influence of acute stress on glucose and protein utilization of a desert songbird. 25<sup>th</sup> International Ornithological Congress, Sao Paulo, Brazil.
71. Aguirre LE†††, DeLeon X†, **Sweazea KL**, Walker BR, Colleran K, Kanagy N\*. (2010) Intermittent hypoxia causes hypertension and insulin resistance in male Sprague Dawley rats. *J Invest Med.* 58(1): 134.
72. Sparr R†, Braun EJ, **Sweazea KL\***. (2010) Putative role for insulin in glucose regulation by avian kidneys. *FASEB J.* 24: lb614.
73. Kuzmiak S††, Glancy B†††, **Sweazea KL**, Willis W\*. (2010) Mitochondrial function in sparrow pectoralis muscle. *FASEB J.* 24: 1055.15.
74. Lekic M†, Walker BR, **Sweazea KL\***. (2010) Mechanisms of impaired acetylcholine-mediated vasodilation in overweight rats. *FASEB J.* 24: 592.3.
75. Fokidis HB††, Sparr R†, Deviche P\*, **Sweazea KL**. (2010) Modeling changes in energetic substrate usage during the acute stress response of birds. *FASEB J.* 24: 849.4.
76. Rodriguez N†, Davies S††, Deviche P, **Sweazea KL\***. (2010) Stress-induced variation in protein utilization and plasma glucose in a male passerine bird from urban and rural populations. *FASEB J.* 24: 1055.3.
77. Hostetter K††, **Sweazea KL**, Braun EJ\*. (2010) The avian pancreatic islets, a comparison across species, *FASEB J.* 24: 1055.9.
78. Anthony C††, **Sweazea KL**, Braun EJ\*. (2010) The analysis of avian plasma for glycated serum albumin. *FASEB J.* 24: 1055.7.
79. Davies S††, **Sweazea KL**, Deviche P\*. (2010) The influence of acute stress on glucose and protein utilization of a desert songbird. 2010 Central Arizona-Phoenix Long Term Ecological Research (CAP LTER) Poster Symposium, Tempe, AZ.
80. Fokidis HB††, Sparr R†, **Sweazea KL**, Deviche P\*. (2010) Species-specific habitat-associated changes in lipolytic metabolites during the avian stress response. 2010 Society for Integrative and Comparative Biology (SICB) Conference, Seattle, WA. Abstract #P3.126.
81. Davies S††, **Sweazea KL**, Deviche P\*. (2010) The influence of acute and chronic stress on plasma glucose of a desert songbird. 2010 SICB Conference, Seattle, WA. Abstract #P3.127.
82. Smith C†, Braun EJ, Walker BR, **Sweazea KL\***. (2009) Resistance to oxidative stress in avian blood vessels. 2009 Arizona Physiological Society Conference, Tucson, AZ. Abstract #D-1.

83. Anthony CM††, **Sweazea KL**, Braun EJ\*. (2009) The analysis of avian plasma for glycated serum albumin. 2009 Arizona Physiological Society Conference, Tucson, AZ. Abstract #C-3.
84. Hostetter K††, **Sweazea KL**, Braun EJ\*. (2009) Pancreatic beta and alpha cell expression patterns across avian species. *FASEB J.* 23: 778.8.
85. Braun EJ\*, **Sweazea KL**. (2008) Meta-analysis of plasma glucose concentrations in birds and mammals. 9<sup>th</sup> International Symposium on Avian Endocrinology, Leuven, Belgium.
86. **Sweazea KL\***, Wolf BO, Braun EJ, Walker BR. (2008) High blood glucose is not associated with oxidative stress or vascular dysfunction in birds. *FASEB J.* 22: 1239.24.
87. **Sweazea KL\***, Kanagy NL, Walker BR. (2008) Impaired myogenic tone in overweight rats exposed to simulated sleep apnea is due to elevated iNOS-derived nitric oxide. *FASEB J.* 22: 732.4.
88. **Sweazea KL**, Kanagy NL, Walker BR\*. (2007) Impaired vasoconstriction in high fat fed rats exposed to simulated sleep apnea is due to elevated iNOS-derived nitric oxide. American Heart Association, 61<sup>st</sup> Annual High Blood Pressure Research Conference, Abstract #P50.
89. **Sweazea KL\***, McMurtry JP, Elsey RM, Redig P, Braun EJ. (2007) Hormonal control of metabolic substrate use by birds and reptiles. *FASEB J.* 21: 963.14.
90. **Sweazea KL** and Walker BR\*. (2007) Myogenic reactivity in mesenteric arteries of high fat fed rats. *FASEB J.* 21: 964.4.
91. **Sweazea KL\***, McMurtry JP, Elsey R, Braun EJ. (2006) Comparison of avian and reptilian plasma glucose and ketone body levels. *The Physiologist.* Abstract #24.10.
92. **Sweazea KL**, Walker BR\*. (2006) Heme oxygenase decreases reactive oxygen species in mesenteric resistance arteries. *FASEB J.* 20: A1453.
93. **Sweazea KL**, Casotti GI, Braun EJ\*. (2006) Characterization of sodium-glucose co-transporters in the avian kidney. *FASEB J.* 20: A1466.
94. **Sweazea KL**, McMurtry JP, Braun EJ\*. (2006) Inhibition of fatty acid lipolysis does not affect insulin sensitivity to glucose uptake in the mourning dove. *FASEB J.* 20: A1465-A1466.
95. Braun EJ\*, **Sweazea KL**. (2005) Uptake of oleic acid by avian skeletal muscle. *FASEB J.* 19: 665.13.
96. **Sweazea KL**, Braun EJ\*. (2005) Substrate preference by avian skeletal muscle. *FASEB J.* 19: 665.12.
97. Braun EJ\*, **Sweazea KL**. (2004) In vitro uptake of glucose by avian skeletal muscle. *FASEB J.* 18: 825.4.
98. **Sweazea KL**, Braun EJ\*. (2004) Immunolocalization of glucose transporters 1 and 3 in English sparrow skeletal muscle. *FASEB J.* 18: 825.5.
99. **Sweazea KL**, Braun EJ\*. (2003) Glucose transport in skeletal muscle of *Passer domesticus*, the common house sparrow. *FASEB J.* 17: 570.16.
100. **Sweazea KL**, Braun EJ\*. (2002) Expression of glucose transporter-4 (GLUT4) in avian skeletal muscle. *FASEB J.* 16: 360.5.

## INVITED SEMINARS

Apr 2017 “Selecting a good mentor and lab for an academic postdoc”, Women in Physiology Committee Symposium 2017: *Choosing the right lab and personnel for your career*. 2017 Experimental Biology conference, Chicago, IL.

- Oct 2016 Eagleman D†\*, Mahrer K†, Sweazea KL. (2016) Putative role of uric acid as an antioxidant in avian arteries. 2016 Arizona Physiological Society conference, Tucson, AZ
- May 2016 “Avian vascular physiology”, Vascular Physiology Group, Department of Cell Biology and Physiology, University of New Mexico, Albuquerque, NM
- Apr 2016 “Preliminary examination of a role for insulin in the regulation of glucose excretion in mourning doves (*Zenaida macroura*),” 2016 Experimental Biology conference, San Diego, CA.
- Nov 2015 “Physiology Outreach,” 2015 Arizona Physiological Society conference, Glendale, AZ
- Oct 2015 “STEM Careers and Pathways” panel discussion member, Association for Women in Science – Central Arizona Chapter, ASU
- Feb 2015 “Exploration of apparent resistance to hyperglycemia-related pathologies in birds,” Brasel Basic Science Seminar, Harbor-UCLA Medical Center.
- Oct 2014 “Understanding Diabetes through Animal Models,” Nutrition Undergraduate Research Colloquium, ASU.
- April 2014 “Oxidative Stress Impairs Vasodilation of *Ex Vivo* Arteries from Mourning Doves (*Z. macroura*),” Comparative Physiology of Aging and Senescence Symposium, Experimental Biology Conference, San Diego, CA.
- Feb 2014 “Using Comparative Physiology Approaches to Identify Novel Mechanisms of Coping with High Blood Sugar,” Biological Design Proseminar, ASU.
- Nov 2013 “A Comparison of Oxidative Stress-induced Endothelial Dysfunction in Rats and Birds,” Midwestern University, Glendale, AZ.
- Nov 2013 “Understanding Aging through Comparative Physiology,” The Imagination Project, Center for Science and the Imagination, ASU.
- Nov 2013 “Downregulation of the Vascular Insulin Signaling Pathway May Contribute to Hyperglycemia Following High Fat Intake,” Arizona Physiological Society Conference, Phoenix, Arizona.
- Oct 2013 “Models of Oxidative Stress-induced Endothelial Dysfunction,” Integrative Physiology and Metabolism in Health and Disease Seminar Series, Center for Metabolic and Vascular Biology, School of Life Sciences, ASU & HEALth Program, Mayo Clinic, Arizona.
- Sept 2012 “Oxidative Stress-mediated Vascular Dysfunction in Rats and Birds,” School of Nutrition and Health Promotion, ASU.
- March 2012 “Oxidative Stress-mediated Vascular Dysfunction,” College of Medicine Phoenix, Department of Basic Medical Sciences Seminar, The University of Arizona.
- Feb 2012 Seminar on diabetes and health for the American Hellenic Educational Progressive Association (AHEPA), Chandler, AZ.
- August 2010 “Taking the Road Most Traveled: Comparative Physiology Positions in Academia,” 2010 APS Intersociety Meeting, Global Change and Global Science: Comparative Physiology in a Changing World, Westminster Colorado.
- May 2009 “Substrate Utilization by Birds and the Role of Oxidative Stress and Adipokines in Vascular Reactivity,” School of Life Sciences, ASU Tempe.
- April 2009 “Diet-Induced Vascular Dysfunction,” Department of Kinesiology, ASU Tempe.



## Completed Research Support

Mayo Clinic	Angadi (PI)	2015-2016
Department of Medicine Extramural Chair Award		
Aerobic interval exercise preconditioning to prevent cardiometabolic and neuropsychological complications of anthracycline-based breast cancer chemotherapy		
The goal was to determine, for the first time, the extent to which exercise <i>preconditioning</i> preserves cardiovascular performance, physical function, and quality of life in breast cancer patients undergoing anthracycline based treatment.		
Role: Co-I (PI: Siddhartha Angadi, EXW program, ASU)		
Isagenix International	Sweazea (PI)	9/14/15-8/31/16
Evaluation of the protective effects of a beet juice energy drink on vascular health		
The goal was to examine the vasoactive properties of a beet juice energy drink rich in nitrates in healthy subjects.		
Co-PI: Carol Johnston, Nutrition, ASU		
Isagenix International	Sweazea (PI)	8/1/13-11/30/14
Evaluation of the Anti-aging Properties of Product B		
The objective was to measure the efficacy of a natural supplement at reducing markers of oxidative stress in healthy subjects.		
Co-PI: Carol Johnston, Nutrition, ASU		
AmeriFlax Council	Sweazea (PI)	7/1/13-6/30/15
Potential therapeutic benefits of flaxseeds in the treatment of type 2 diabetes symptoms		
The goal was to measure the effectiveness of flaxseeds at reversing oxidative stress and inflammatory markers in subjects with type 2 diabetes.		
USDA	Sweazea (PI)	7/1/12-12/31/13
Almond Board of California, National Institute of Food and Agriculture		
Almond Ingestion to Reduce Hemoglobin A1C in Individuals with Type 2 Diabetes		
The goal was to measure the efficacy of almonds at reversing oxidative stress and inflammatory markers in subjects with poorly controlled type 2 diabetes.		
Co-PI: Carol Johnston, Nutrition, ASU		
ASU Foundation	Sweazea (PI)	2011-2012
Private Donor		
A Non-genetic Rat Model of Type 2 Diabetes: The HFD/STZ Model		
The objective was to develop a model of diet-induced type 2 diabetes exacerbated with streptozotocin-mediated ablation of pancreatic beta-cells.		
American Ornithologists' Union	Sweazea (Lead PI)	2011
Putative Role of Glucose as a Cryoprotective Adaptation in Birds		
The goal was to measure correlations between glucose concentrations and variations in temperature as well as altitude in two species of passerine birds.		
Co-PI: Krystal Tsosie, Master's student, Bioethics, ASU		
UNM School of Medicine	Sweazea (PI)	2/1/07-6/30/07

## Cardiovascular and Metabolic Diseases Program

### Effects of Obesity on Vascular Function in a Model of Sleep Apnea

The goal was to discern the disparate effects of high fat intake and eucapnic intermittent hypoxia on impaired endothelium-dependent vasodilation in young male Sprague-Dawley rats.

## TEACHING

### Applied Biological Sciences

- ABS 489 Undergraduate Research (mentored research), 2 times since 2009
- ABS 492 Honor's Directed Study, 1 time since 2009
- ABS 493 Undergraduate Honors Thesis, 1 time since 2009
- ABS 499 Individualized Instruction, Undergraduate Research (mentored research), 3 times since 2009
- BIO 202 Human Anatomy and Physiology II Lecture, 3 times since 2008

### Barrett, The Honor's College

- HON 498 Honors Research (mentored research), 1 time since 2014

### Biochemistry

- BCH 392 Introduction to Research Techniques (mentored research), 2 times since 2017
- BCH 492 Honor's Directed Study (mentored research), 1 time since 2014
- BCH 493 Honor's Thesis (mentored research), 1 time since 2014

### Biodesign

- BDE 792 Graduate Research (mentored research), 1 time since 2016

### College of Health Solutions

- CHS 101 The ASU Experience, 1 time since 2016

### Health Sciences

- HSC 320 Applied Medical/Health Care Ethics, Developed and implemented, 14 times since 2010
- HSC 420 Evaluation of Health Sciences Research, Developed and implemented, 19 times since 2010
- HSC 492 Honor's Directed Research (mentored research), 2 times since 2012
- HSC 493 Honor's Thesis (mentored research), 1 time since 2013
- HSC 494 Undergraduate Research Seminar (mentored research), 5 times since 2010

### Nutrition

- NTR 290 Evidence-based Nutrition, 1 time since 2017
- NTR 532 Pathophysiology and Nutrition, developed and implemented, 2 times since 2015
- NTR/EXW 691 Physical Activity and Nutrition Graduate Seminar, Topics: '*Professional Development Skills*' & '*Development of your research agenda*'. 2 times since 2015

### School of Life Sciences

- BIO 360 Animal Physiology, 3 times since 2015
- BIO 492 Honors Directed Study (mentored research), 3 times since 2014
- BIO 493 Honors Thesis (mentored research), 4 times since 2014
- BIO 495 Undergraduate Research (mentored research), 10 times since 2012

### Guest Lectures

- BCH 462 General Biochemistry, '*Diet-induced Vascular Dysfunction*', Fall 2016

- EVO 610 Research Areas of Evolution, ‘*Comparative Physiology Research*’, Fall 2016
- NTR 340 Evidence-Based Nutrition, Guest speaker on Research, Spring 2016
- BIOL 110 ‘*Contemporary Problems in Biology*’, New Mexico State University, Grants, NM, Spring 2016
- NTR/EXW 791 Doctoral Seminar, Guest Lecture: ‘*Time Management: The 24/7 Professor*’, Spring 2015
- EVO 610 Research Areas of Evolution, ‘*Comparative Physiology Research*’, Spring 2014
- NTR/EXW 791 Doctoral Seminar, Guest Lecture: ‘*Women in Science*’, Spring 2014
- Physiology I Guest Lecture, New Mexico Tech, Socorro, NM, Fall 2007
- Physiology I Guest Lecture, New Mexico Tech, Socorro, NM, Fall 2006

**Problem Based Learning (PBL) Facilitator**

Medical School Phase I, *Human Sexuality, Reproduction/Endocrinology* block, UNM, Fall 2007

**Teaching Assistant**

- PSIO 601/801 Renal Lab, University of Arizona, College of Medicine, Spring 2002 & 2005
- PSIO 601/801 Head TA, University of Arizona, College of Medicine, Renal Lab, Spring 2003 & 2004
- PSIO 601/801 ECG Lab, University of Arizona, College of Medicine, Spring 2003
- PSIO 480 Cellular, Neural and Endocrine Physiology, University of Arizona, Physiological Sciences Program, Spring 2002
- PSIO 696C Course Coordinator, Physiological Sciences Student Forum, University of Arizona, Tucson, Spring 2002

**STUDENT MENTORING**

**Thesis/Dissertation Committees Since Employment at ASU**

<b>Role/Defense Date</b>	<b>Student/Field</b>	<b>Research Topic</b>	<b><i>Special Achievements for Research in My Laboratory</i></b>
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**CURRENT**

<b>Mentor</b>	<b>Alex Mohr</b> Non-degree seeking		
<b>Chair</b> 8/17-pres	<b>Deb Watson</b> MS, Nutrition Program, ASU	Evaluation of the vasoprotective effects of OMC in the aorta	
<b>Chair</b> 8/17-pres	<b>Kelly McCormick</b> MS, Nutrition Program, ASU	Mitigation of cardiac hypertrophy with a novel prebiotic	
<b>Chair</b> 8/17-pres	<b>Anthony Basile</b> PhD, Evolutionary Biology, SOLS	Role of gluconeogenesis in maintaining naturally high glucose in doves	
<b>Chair</b> 8/16-pres	<b>Julia Barberas</b> MS, Nutrition Program, ASU	Evaluation of the vasoprotective effects of sumac in subjects with type 2 diabetes.	
<b>Member</b> 4/16-pres	<b>Latoya Campbell</b> PhD, SOLS CMVB	TBD (Mentor: Jin Liu, CVMB at Mayo)	



<b>Mentor</b> 8/15-4/16	<b>Farhan Aslam</b> PhD, Dept Food Science and Human Nutrition, Univ. Veterinary and Animal Sciences, Lahore, Pakistan	Efficacy of a snack containing white sesame seed oil at improving glucose regulation in human subjects. (Co-mentor: Pamela Swan, ESHP)	
Member 8/15-pres	<b>Pierce Hutton</b> PhD, Biology, ASU	The 'beauty sleep' hypothesis: Plumage ornaments as sexually selected indicators of sleep phenotype. <i>Mentor:</i> Kevin McGraw, SOLS, ASU	
<b>Chair</b> 3/15-pres	<b>Meli'sa Crawford,</b> PhD, Biological Design Program, ASU	Elucidating the relationship between gut microbes and cardiovascular disease risk	<i>2017-2020 Initiative for Maximizing Student Development (IMSD) Fellowship, ASU 2016 GPSA Jumpstart grant, ASU 2016 Sigma Xi Grant-in- Aid of Research award 2016 GPSA Travel Grant, ASU 2016 Minority Travel Fellowship, American Physiological Society</i>
Member NA	<b>Jacob Campbell</b> PhD, SOLS	TBD. <i>Mentor:</i> Jon Harrison, SOLS	
<b>PAST</b>			
<b>Chair</b> 1/16-4/3/17	<b>Selicia Mayra</b> MS, Nutrition Program, ASU	A Nitrate-enriched Diet to Promote Cardiovascular Health: <i>A randomized, double-blind, placebo controlled, crossover trial</i> (Co-mentor: Dr. Carol Johnston, Nutrition, ASU)	<i>2016 GPSA Jumpstart Grant, ASU</i>
Member 8/15-3/15/17	<b>Elizabeth Journey</b> MS, Nutrition Program, ASU	Changes in Weight Status and the Intestinal Microbiota among College Freshmen. <i>Mentor:</i> Corrie Whisner, Nutrition, ASU	
<b>Chair</b> 8/15- 08/12/16	<b>Tana Ingram</b> MS, Nutrition Program, ASU	Evaluation of protein glycation and antioxidant levels in birds of prey	<i>2015 Graduate Research Support Program Award, ASU</i>
<b>Chair</b> 8/15-12/16	<b>Emily Schwab</b> MS, Nutrition Program, ASU	Pilot study: The synergistic effect of almond consumption and aerobic activity on the reduction of cardiovascular disease risk in sedentary adults	<i>2015 Graduate Research Support Program Award, ASU</i>
Member 8/15-8/16	<b>Elizabeth McElaney</b> MS, Nutrition Program, ASU	Almond consumption during a walking intervention will not affect heart rate recovery. <i>Mentor:</i> Carol	

<b>Chair</b> 8/14-5/16	<b>Jessica Zuck</b> MS, Nutrition Program, ASU	Johnston, Nutrition, ASU Unraveling the mystery of avian resistance to protein glycation	<i>2015 Graduate Research Support Program Award, ASU</i>
Member 8/14-4/13/15	<b>Kathryn Bratrud</b> MS, Nutrition Program, ASU	<i>Mentor:</i> Carol Johnston, ASU	
Member NA	<b>Jessica Knurick</b> PhD, Physical Activity Nutrition and Wellness (PANW) Program, ASU	Effects of postmeal walking on postprandial glucose control and oxidative stress. <i>Mentor:</i> Carol Johnston, Nutrition, ASU	
<b>Chair</b> 8/13-5/15	<b>Catherine Crinigan</b> MS, Nutrition Program, ASU	Effects of high fat feeding on renal function in adolescent male rodents.	<i>2014 Graduate Research Support Program Award, ASU 2014 Sigma Xi Grant-in- Aid of Research, ASU</i>
Member	<b>Lindsay Stubbs (Gnant)</b> MS, Nutrition Program, ASU	<i>Mentor:</i> Carol Johnston, Nutrition, ASU	
Member 11/10/14	<b>Scott Davies</b> PhD, Biology, ASU	Influence of food on reproductive physiology: Urbanization as a natural experiment. <i>Mentor :</i> Pierre Deviche, SOLS, ASU	
<b>Chair</b> 8/11-5/15	<b>Kristin Ricklefs</b> PhD, PANW Program ASU	High fat diet-induced alterations of vascular insulin signaling pathway; Effects of high fat diets on bone metabolism; Examination of the antioxidant and anti-inflammatory properties of flaxseeds in subjects with type 2 diabetes.	<i>2015 Graduate Research Support Program Award 2014 2<sup>nd</sup> place graduate student poster presentation, Arizona Physiological Society conference 2014-2015 Graduate Education Dissertation Fellowship, ASU 2014 Jumpstart Research Award, ASU 2014 Graduate Research Support Program Award, ASU 2013 JumpStart Research Award, ASU 2012-2013 Graduate Research Support Program Award, ASU</i>
<b>Chair</b> 1/13-4/14	<b>Samer Alanbagy, MD</b> MS, Nutrition Program ASU	The effects of omega-3 supplementation on markers of obesity and endothelial function in healthy subjects.	
Member Spring 2014	<b>Sarah Wherry</b> PhD, PANW, ASU	Effectiveness of the Wii fit program at restoring balance. <i>Mentor:</i> Pamela Swan, Exercise and Wellness, ASU	
Member	<b>Giselle Pereira Pignotti</b>	Effect of nopales ( <i>Opuntia Spp</i> ) on	

Fall 2013	PhD, PANW Program, ASU	lipoprotein profile and oxidative stress in moderately hypercholesterolemic adults. <i>Mentor:</i> Sonia Vega-Lopez, Nutrition, ASU	
<b>Chair</b> 7/12-1/14	<b><i>Katherine Petersen</i></b> MS, Nutrition Program ASU <i>Currently in dietetics internship program</i>	The effects of almond consumption in subjects with type 2 diabetes: Differences between men and women.	<i>2012-2013 Graduate Research Support Program Award, ASU</i> <i>2012 JumpStart Research Award, ASU</i>
Member Spring 2013	<b><i>Elizabeth Sussman</i></b> PhD, PANW Program, ASU	Beneficial effects of selenium in renal failure. <i>Mentor:</i> Carol Johnston, Nutrition, ASU	
Member Spring 2013	<b><i>Laurie Black</i></b> PhD, PANW Program, ASU	Exercise as an intervention to reverse high fat/sugar diet induced cardiovascular pathologies. <i>Mentor:</i> Glenn Gaesser, Exercise and Wellness, ASU	
<b>Chair</b> 8/10-5/12	<b><i>Catherine Jarrett</i></b> MS, Nutrition Program ASU <i>Currently in PANW PhD program at ASU</i>	Avian resistance to vascular oxidative stress.	<i>2012 Novo Nordisk Travel Award, CEP Section, APS</i> <i>2010-2011 Graduate Research Support Program Award, ASU</i> <i>2010 SigmaXi Grant-in-Aid of Research, ASU</i>
Member Fall 2012	<b><i>Emily Medved</i></b> MS, PANW Program, ASU	Effects of vinegar on colonic fermentation and glycemia. <i>Mentor:</i> Carol Johnston, Nutrition, ASU	
Member Spring 2012	<b><i>Sarah Kuzmiak</i></b> PhD, Kinesiology, ASU	Evaluation of oxidative stress in mitochondria of house sparrows. <i>Mentor:</i> Wayne Willis, Kinesiology/SOLS, ASU	
<b>Research Mentor</b> 1/11-7/12	<b><i>Krystal Tsosie</i></b> MS, Applied Ethics ASU	Non-thesis project: Seasonal regulation of glucose in birds. <i>This was a side-project for Krystal.</i>	
Member Summer 2011	<b><i>Jennifer Vranish</i></b> MS, Physiology, UA	Isolation of putative osmoreceptor from avian GI tract. <i>Mentor:</i> Eldon Braun, Physiology, UA, Tucson	
Member Spring 2011	<b><i>Kimberly Hostetter</i></b> MS, Physiology, UA	Glucose and insulin expression patterns in avian pancreata. <i>Mentor:</i> Eldon Braun, Physiology, UA, Tucson	
Member Spring 2010	<b><i>H. Bobby Fokidis</i></b> PhD, Biology, ASU	Impact of food variability and stress on avian glucose and fatty acid regulation. <i>Mentor:</i> Pierre Deviche, School of Life Sciences, ASU	
Member Spring 2010	<b><i>Claire Anthony</i></b> MS, Physiology, UA	Avian resistance to glycation. <i>Mentor:</i> Eldon Braun, Physiology, UA, Tucson	

## Undergraduate Trainees Since Employment at ASU

<b>Role/Defense dates</b>	<b>Student/Field</b>	<b>Research Topic/Thesis Project</b>	<b>Special Achievements for Research in My Laboratory</b>
<b>CURRENT</b>			
<b>Chair</b> 12/16-pres	<b><i>Courtney Woods</i></b>	<i>Honors Thesis:</i> Evaluation of hepatoprotective role of OMC in the liver of rats fed a high fat diet.	
<b>Chair</b> 12/16-pres	<b><i>Arturo Rojas</i></b>	<b>TBD</b>	
<b>Chair</b> 12/16-pres	<b><i>Ashlee Starr</i></b>	<i>Honors Thesis:</i> Evaluation of OMC-mediated glucose regulation in muscle	
<b>Chair</b> 12/16-pres	<b><i>Robyn Bartel</i></b>	<i>Honors Thesis:</i> Vasoprotective role of lenalidomide in the prevention of high fat diet induced vascular dementias.	
<b>Mentor</b> 12/16-7/17	<b><i>Austin Lehew</i></b>	Volunteer researcher in the lab, assisted with various projects, enrolled in BIO 495	
Member 2/17-pres	<b><i>Chandan Saini</i></b>	<i>Mentor:</i> Kevin McGraw, SOLS	
Member 10/16-pres	<b><i>Poi Kuo</i></b> <i>Global Health, ASU</i>	<i>Honors Thesis:</i> The effectiveness of Taiwan's National Health Insurance on providing low cost access to drugs used for the treatment of diabetes mellitus compared to the United States' health care system. <i>Mentor:</i> Monica Gaughan, SHESC, ASU	
<b>Chair</b> 09/16-pres	<b><i>Lorne Lambries</i></b> <i>Health Sciences, ASU</i>	<i>Honors Thesis:</i> Vasoprotective role of sumac in the prevention of high fat induced vascular dementias	
Member 08/15-pres	<b><i>Brooke Sykes</i></b> Biological Sciences, ASU	<i>Honors Thesis:</i> Urban-rural Variation in color and parasites in female house finches. <i>Mentor:</i> Kevin McGraw, SOLS, ASU	
<b>Mentor</b> 05/16-pres	<b><i>William Clark</i></b> Biological Sciences, ASU	<i>Independent Project:</i> Effects of urban nutrition on glucose regulation in wild mourning doves.	<i>2017 IOSP Undergraduate Summer Research Fellowship, American Physiological Society</i>
<b>Chair</b> 08/14-pres	<b><i>Alice Gadau</i></b> Biological Sciences, ASU	<i>Honors Thesis:</i> Putative vasodilatory role of insulin in birds	<i>2017-2018, 2016-2017 and 2015-2016 School of Life Sciences Undergraduate Researcher (SOLUR) Fellowship, ASU</i>

## PAST

<b>Mentor</b> 08/15-05/17	<b><i>Daphne Eagleman</i></b> Biological Sciences, ASU	Effects of in vitro glucose exposure on avian vascular reactivity; Exploring the relationship between osmolarity and glucose in birds	<i>Invited to present research seminar at the 2016 AzPS Conference</i>
<b>Chair</b> 8/16-04/10/17	<b><i>Hanna Sivak</i></b> Biological Sciences, ASU	<i>Honors Thesis:</i> Diet-induced thermogenesis as measured by exogenous norepinephrine injections in high fat diet-fed rats: A pilot study	
Member 09/16-03/30/17	<b><i>Timothy Panknin</i></b> Health Sciences, ASU	<i>Honors Thesis:</i> Cardioprotective effects of high intensity interval training following Doxorubicin treatment. <i>Mentor:</i> Siddhartha Angadi, ESHP, ASU	
<b>Mentor</b> 05/16-11/16	<b><i>Kali Mahrer</i></b> Biological Sciences, ASU	Evaluation of antioxidant nature of uric acid in avian arteries following high glucose exposure	
Member 08/15-05/16	<b><i>Joan Hearn</i></b> Nutrition, ASU	<i>Honors Thesis:</i> Is it hunger or hormones? Association of plasma ghrelin levels with eating behaviors and weight cycling history in obese and overweight women. <i>Mentor:</i> Pamela Swan, ESHP, ASU	
<b>Mentor</b> 08/14-5/16	<b><i>Troy Wagner</i></b> Biological Sciences, ASU	<i>Team project:</i> Evaluation of effectiveness of sesame seed oil at reversing complications associated with pre-diabetes.	
<b>Mentor</b> 05/19/14-08/19/14	<b><i>Marc Girard</i></b> Bioinformatics, University of Poitiers, France	<i>Independent project:</i> Role of dietary carotenoids in reducing tissue oxidative stress in ducks.	<i>Summer research fellowship from Univ. Poitiers to gain research experience in my laboratory.</i>
<b>Member</b> Spring 2015	<b><i>Alexander Funk</i></b> Conservation Biology and Ecology, SOLS, ASU	<i>Honors Thesis:</i> Evaluating the influence of urbanization on quail physiology and responses to stress. <i>Chair:</i> Pierre Deviche, SOLS, ASU	
<b>Chair</b> 1/14-12/16	<b><i>Liam O'Neill</i></b> Biological Sciences, ASU	<i>Honors Thesis:</i> High-intensity exercise preconditioning prevents downregulation of eNOS expression in the aorta following doxorubicin treatment.	<i>2015 Athletics Research Grant, GPSA, ASU</i>
<b>Mentor</b> 8/13-5/16	<b><i>Zoha Ahmed</i></b> Biological Sciences, ASU	<i>Independent projects:</i> Contribution of muscle to glucose regulation in birds. Comparison of fat ingestion by birds living in urban and desert environments. <i>Team Project:</i> High glucose impairs acetylcholine-mediated vasodilation in isolated arteries from mourning doves (Z.	<i>2015-2016 School of Life Sciences Undergraduate Research (SOLUR) Fellowship, ASU 2015-2016 Ralph A. Fisher Jr. Scholarship, School of Life Sciences;</i>

		<i>macroura</i> ).	2014-2015 School of Life Sciences Undergraduate Research Fellowship
<b>Chair</b> Spring 2015	<b>Noor Raad</b> Biological Sciences, ASU	<i>Honors Thesis:</i> Replacing dietary meat with fish significantly increases plasma glucose without affecting protein glycation.	
<b>Chair</b> Spring 2015	<b>Soukaina Kouteib,</b> Biological Sciences, ASU	<i>Honors Thesis:</i> The role of lipolysis in regulating plasma glucose concentrations in mourning doves.	Spring 2015 SOLUR Fellowship, ASU
<b>Chair</b> Spring 2015	<b>Matthew Calhoun</b> Biochemistry, ASU	<i>Honors Thesis:</i> Hepatic inflammatory response following high fat diet in adolescent male Sprague-Dawley rats.	2013 APS Summer Undergraduate Research Fellowship
<b>Chair</b> Spring 2015	<b>Anna Simperova</b> Animal Physiology and Behavior, SOLS, ASU	<i>Honors Thesis:</i> Genistein-mediated diet tends to increase oxidative stress in the vasculature of ob/ob mice.	2014-2015 School of Life Sciences Undergraduate Research Fellowship 2014 Nominated, Undergraduate Student of the Year, SOLS 2013-2014 School of Life Sciences Undergraduate Research Fellowship
Member Spring 2014	<b>Stephanie Helland</b> Nutrition Program, ASU	<i>Honors Thesis:</i> Effects of novel functional food on wellness indicators in college students. <i>Mentor:</i> Carol Johnston, Nutrition, ASU	
Member Spring 2014	<b>Janine Faraj</b> Biological Sciences	<i>Honors Thesis:</i> Differential activation of unfolded protein response in two metastatic osteosarcoma cell lines following hypoxic and chemotherapeutic stress. <i>Research Mentor:</i> Aparna Sertil, UA, Phoenix	
<b>Mentor</b> 5/13-8/13	<b>Katerine Diaz</b> Dietetics and Nutrition, Florida International University, Miami <i>Currently finishing BS at FIU</i>	<i>Independent project:</i> Role of muscle in avian glucose regulation.	2013 STEP-UP summer fellowship from APS
<b>Mentor</b> 1/13-8/13	<b>Danielle Alder</b> Nutrition Program, ASU <i>Currently finishing BS at ASU</i>	Lab technician for funded Almond grant, assisted with recruitment.	
<b>Mentor</b> Fall 2013	<b>Sean Rayle</b> SNHP, ASU	Assisted with mass spectrometry analyses of avian samples	
<b>Mentor</b> 1/13-8/13	<b>Scott Ghormley</b> Biology, ASU <i>Applying for law school</i>	General lab assistance.	
<b>Mentor</b> 8/11-7/13	<b>Tiffany Juan</b> Bioengineering, ASU <i>Completing capstone</i>	<i>Independent project:</i> Pathophysiological consequences of schistosome infections in doves.	

	<i>project at ASU</i>		
<b>Mentor</b> 9/12-12/12	<b>Amanda Caskey</b> Nutrition Program, ASU <i>Currently Dietetic Intern at Dept of Health and Environ Control</i>	<i>Independent project:</i> Role of diet in glucose regulation across species.	
<b>Mentor</b> 1/12-5/13	<b>Corey Frahm</b> Health Sciences Program, ASU <i>Currently in pharmacy school at UA-Tucson</i>	<i>Independent project:</i> The controversial role of leptin in birds.	
<b>Chair</b> 8/11-5/13	<b>Tyler Liss</b> Health Sciences Program, ASU	<i>Honors Thesis:</i> Triglyceride accumulation following high fat, but not high sucrose, diets in young male Sprague-dawley rats.	
<b>Mentor</b> 8/11-5/12	<b>Diana Soweiden</b> Health Sciences Program, ASU <i>Currently in medical school at Midwestern U- Glendale, AZ</i>	<i>Independent project:</i> Effects of acute exposure to high glucose on tissue oxidative stress.	
<b>Mentor</b> 6/11-8/11	<b>Caroline Pusec</b> Dept of Physiology, UA, Tucson <i>Currently in Driskoll PhD Program in Life Sciences, Northwestern U</i>	<i>Independent project:</i> Endothelial nitric oxide synthase expression in avian arteries.	
<b>Mentor</b> 8/09-6/11	<b>Natalie Rodriguez</b> Nutrition Program, ASU <i>Currently in nursing program at Brookline College-Phoenix</i>	<i>Independent project:</i> Stress-mediated alterations of avian glucose homeostasis.	<i>2010 APS/NIDDK Minority Travel Fellowship for Experimental Biology conference</i>
<b>Mentor</b> 1/09-4/11	<b>Mateja Lekic</b> Applied Biological Sciences, ASU <i>Currently in medical school at UA-Tucson</i>	<i>Independent project:</i> Mechanisms of high fat diet-mediated impairment of vascular reactivity.	<i>3<sup>rd</sup> place, UG poster award competition, 2010 Arizona Physiological Society conference</i>
<b>Mentor</b> 1/09-8/10	<b>Maggie Garvin</b> Nutrition Program, ASU <i>Currently in naturopathic medical school at SCNM- Chandler, AZ</i>	<i>Independent project:</i> Comparison of glucose concentrations across birds, mammals, and reptiles.	
<b>Mentor</b> 1/09-8/10	<b>Richard Sparr</b> Applied Biological Sciences, ASU <i>Currently a Quality Coach at Western Governors University</i>	<i>Independent project:</i> Putative role for insulin in glucose excretion in birds.	

<b>Chair</b> 2008-2009	<b>Christina Smith</b> Nutrition Program, ASU	<i>Honors Thesis:</i> The effects of advanced glycation end products and oxidative stress in the vasculature of birds.	<i>3<sup>rd</sup> place, UG poster award competition, 2009 Arizona Physiological Society conference</i>
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### **High School Trainees Since Employment at ASU**

<b>Role/dates</b>	<b>Student/Field</b>	<b>Research Paper</b>
9/13-12/13	<b>Karthik Uppaluri</b>	<i>Independent project:</i> Correlation of plasma glucose concentrations and dietary habits across species of animals at the Phoenix Zoo.

### **Peer-reviewed Open Access Teaching Resource Since Employment at ASU**

**Sweazea KL.** Glucose Tolerance Test for Endocrine Labs. (2011) *The American Physiological Society Archive of Teaching Resources.*

### **SERVICE TO PROFESSION**

- 2017 Ad hoc peer reviewer for 2 grants submitted to The Research Foundation - Flanders (Fonds Wetenschappelijk Onderzoek - Vlaanderen, FWO), Belgium.
- 2013 Judge, 2013 Spirit of Innovation Challenge, Conrad Foundation.
- 2010 Ad hoc peer reviewer for a report submitted for a CRIS/AgriLife Research Project, US Department of Agriculture

#### American Society for Nutrition (ASN)

- 2014 Reviewer for ASN Predoctoral fellowship applications.

#### Association of Women in Science (AWIS)

- 2011-2016 Treasurer for AWIS, Central Arizona Chapter

#### The American Physiological Society (The APS)

- 2017 Online instructor for the American Physiological Society IOSP Professional Development Course: Writing a Hypothesis
- 2017-2018 Invited member of the APS Life Science Teaching Resource Community (LifeSciTRC) Review Board
- 2016-2019 Invited member of the Editorial Board of the American Journal of Physiology – Regulatory, Integrative and Comparative Physiology
- 2015 Online instructor for the American Physiological Society IOSP Professional Development Course, Assignment 4: Ethical Issues in Research and Publication
- 2015, 2016 Judge, Scholander Poster Competition, Comparative and Evolutionary Physiology section
- 2015 Online instructor for the American Physiological Society IOSP Professional Development Course, Assignment 2: Writing a Hypothesis
- 2015-2018 Elected, Women in Physiology Committee
- 2016-2017
  - Chair, WIPC Facebook/Twitter subcommittee (Fall 2016-2017)
  - Reviewed Bodil-Schmidt Neilson Distinguished Mentor and Scientist Award Applications
  - Reviewed Caroline tum Suden/Frances Hellebrandt Professional Opportunity Award applications

#### 2015



- WIPC Facebook Page Subcommittee/Coordinator and content contributor
- Reviewed Bodil-Schmidt Neilson Distinguished Mentor and Scientist Award Applications
- Reviewed Caroline tum Suden/Frances Hellebrandt Professional Opportunity Award applications
- 2014 APS Abstract-based Travel Award Judge for the Comparative Approaches to Grand Challenges in Physiology Intersociety meeting
- 2014-2015 Professional coach, Integrative and Organismal System Physiology (IOSP) Fellow, *M. Alrubaiee*, University of Maryland College Park - online
- 2014 Experimental Biology conference Meeting Mentor for a graduate minority travel fellow (R. Rodriguez-U California, Merced) from the Endocrinology and Metabolism Section of the APS
- 2013-pres Judge, IOSP Undergraduate Research Fellowship applications
- 2012-pres Official Meeting Blogger, FASEB
- 2012-pres Advisory Board for National Science Foundation, Integrative Organismal Systems Broadening Participation program, “APS Broadening Participation in Undergraduate Research Experiences.”
- 2010-2015 Comparative and Evolutionary Physiology (CEP) Section Treasurer
- 2010-2012 Elected, Communications Committee
- 2010 Co-Organizer, Career Workshop, 2010 APS Intersociety Comparative and Evolutionary meeting.
- 2010 Judge, Student Travel Award, APS Intersociety Meeting
- 2009, 2014 Judge, Caroline tum Suden/Frances Hellebrandt Professional Opportunity Awards
- 2006-2009 Trainee Advisory Committee: Comparative and Evolutionary Physiology Section Representative; Judge, Early Career Professional Service Award; Trainee Needs Assessment Survey Subcommittee; Liason for The APS Communications Committee; Co-Chair, 2009 The APS Trainee Symposium, “Mentoring Strategies: Beyond the Bench”, Experimental Biology Conference, New Orleans, LA
- 2006-2009 CEP Section Steering Committee
- 2006-2009 Communications Committee, Trainee Representative; Judge, AAAS Science and Engineering Mass Media Fellowship

Arizona Physiological Society

- 2017 President-Elect
- 2015 Judge, Graduate student and Postdoctoral Fellow poster presentations, 2015 Arizona Physiological Society conference, Glendale, AZ

Sigma Xi, The Scientific Research Society

- 11/12/16 Sigma Xi Diversity Task Force, Annual meeting, Atlanta, Georgia
- 2014-2017 President, ASU Chapter of Sigma Xi
- 2013 Special Awards Judge, Intel International Science and Engineering Fair, Phoenix, AZ
- 2013 Judge, 2013 online Student Research Showcase

Society for Integrative and Comparative Biology (SICB)

2010 Judge, Student Travel Awards, Annual Meeting

Journal Ad Hoc Reviewer (last 5 years only)

Acta Physiologica; American Journal of Physiology – Heart and Circulatory Physiology; American Journal of Physiology – Regulatory, Integrative and Comparative Physiology; Antioxidants and Redox Signaling; Biology; British Journal of Medicine and Medical Research Comparative Biochemistry and Physiology; Current Pharmaceutical Design; Current Vascular Pharmacology; Experimental Biology and Medicine; Ibis; International Journal of Molecular Sciences; International Journal of Sports and Exercise Medicine; Journal of Comparative Physiology – B; Journal of Developmental Origins of Health and Disease; Journal of Enzymology and Metabolism; Journal of Experimental Biology; Journal of Medicinal Food; Journal of Nutrition; Journal of Visualized Experiments; Life Sciences; Molecular and Cellular Biochemistry; Molecules; Nutrition Research; Pharmaceutical Biology; Physiological and Biochemical Zoology; PLOS ONE; Zoology

MentorNet Online Mentoring Program

04/10-11/10 **N. Bobbit**, Portland State University. I also served as his McNair Scholar Mentor, Portland State University, Oregon, Summer 2010.

07/09-03/10 **R. Franklin**, Syracuse University

08/08-05/09 **A. George**, Colorado State University

**SERVICE TO EXTERNAL COMMUNITY**

2016 Invited STEM speaker and panelist to explain career options for students attending the Girls Leadership Academy high school, Phoenix, AZ

2014 Invited to mentor undergraduate summer research fellows, 2016-2019 BUILDING SCHOLARS (**B**uilding **I**nfrastructure **L**eading to **D**iversity: **S**outhwest **C**onsortium of **H**ealth-**O**riented education **L**eaders and **R**esearch **S**cholars) NIH-funded program, University of Texas-El Paso.

2013 Faculty leader, STEM in the Middle, ASU Preparatory Academy, Phoenix, AZ.

2013 Reviewer for Medical Student Prospectus, University of Arizona College of Medicine, Phoenix

2011 Developed and Led a Physiology Understanding (PhUn) Week Event for 2<sup>nd</sup> graders, Kyrene de los Niños Elementary School, Tempe, AZ, 11/9

2009 Volunteer, Arizona Science and Engineering Fair

2008 Judge, Central NM Science and Engineering Research Challenge

2007 Intel International Science and Engineering Fair, Albuquerque, NM

Fall 2007 Co-Coordinator, PhUn Week event, Bosque High School, Albuquerque, NM

2005, 2007 Rio Rancho High School Research Expo (grades 9-12), NM

2002 Volunteer, Scanning Electron Microscopy Outreach Program

1997 Volunteer, Arizona Program for Nicotine and Tobacco Related Research

**Media**

9/13/17 Invited blog entry, “A nutty way to curb cravings”, *I Spy Physiology* blog, American Physiological Society

9/22/16 Invited blog entry, “Shhhhh...I’m hibernating”, *I Spy Physiology* blog, American Physiological Society

8/17/16 Invited blog entry, “If only birds could compete in the summer games”, *I Spy Physiology* blog, American Physiological Society

2015 Featured Physiologist on the American Physiological Society’s trading cards through the Careers in Physiology section

9/10/15 Invited blog entry, “Could fresh breath cause high blood pressure?”, *I Spy Physiology* blog, American Physiological Society

8/12/15 Invited blog entry, “Look to the sky for lessons in high blood sugar”, *I Spy Physiology* blog, American Physiological Society

2010-pres Bi-Weekly Invited Blogger for National Geographic Digital Media

## SERVICE TO UNIVERSITY, COLLEGE AND UNIT

### University

2017-2020 Elected, Governance Grievance Committee, College of Health Solutions, ASU

2014-2017 Institutional Animal Care and Use Committee (IACUC), ASU

August 2014 Animal Users Advisory Committee (AUAC), ASU  
*Had to step down as accepted position on the IACUC.*

2012 Volunteer for ASU Commission on the Status of Women/Staff Council Professional Development Conference, ASU.

2010-2015 Obama Scholars Mentor, ASU.

2010-2011 Forward to Professorship Conference organizing committee, AWIS, Central Arizona Chapter

2/23/09 Spoke at ASU Future Freshman Reception, Culver City, CA

5/02-5/05 Graduate and Professional Student Council (GPSC), University of Arizona, Tucson: Chair, Academic Affairs Internal Committee; Representative, Ad Hoc Grade Appeal Subcommittee; Chair, Outreach Subcommittee; Representative, Faculty Senate Committee

### College

Spring 2016 Judge, *Downtown Discovers*, Barrett Honors Student Poster Presentations, Downtown Campus, ASU

Fall 2015 College of Health Solutions Student Engagement Team, ASU

2015-2017 Non-tenure Eligible Personnel Committee, College of Health Solutions, ASU

Fall 2013 Attended College of Health Solutions Friends and Family Open House

2013, 2016 School of Life Sciences Undergraduate Research (SOLUR) Application Review ad hoc Committee, SOLS

Summer 2011 Organized and ran a workshop on understanding neurophysiology for high school seniors attending the CONHI Summer Camp

Fall 2008 Volunteered at “Break-Feast”, ASU Polytechnic

2008 Judge, Graduate Student Research Day Poster Presentations, UNM

**Unit**

Fall 2016 8/11/16	Promotion and Tenure ad hoc committee, SNHP Workshop, "Working with Honors Students" for Lecturers in Nutrition and Health Sciences programs, SNHP
2015-2017 Peer Review	Annual Review Committee Member, Tenure Track Faculty, SNHP 2015 M Collins, C Whisner 2014 M Bruening
Fall 2015	Chair, Ad hoc Personnel Multi-year Contract Renewal Committee, SNHP
Fall 2015	Ad hoc Personnel NEW Multi-year Contract Committee, SNHP
Fall 2015	Probationary Faculty Review Committee, School of Nutrition and Health Promotion
Fall 2015- Spring 2015-	Coordinator, Undergraduate Seminar Series, Nutrition Program Nutrition Bylaws Revision Committee, Nutrition and Health Sciences Program
Fall 2014- Fall 2014- Fall 2014- Spring 2014	Barrett Faculty Honors Advisor for Nutrition and Health Sciences Personnel Advisory Committee, Nutrition Program Personnel Advisory Committee, Health Sciences Program PANW Comprehensive Exam Committee, SNHP
Fall 2013	Curriculum Committee, Health Sciences Program, SNHP
Fall 2012	Online Technology Committee to improve Blackboard, SNHP
Spring 2012-2014	Graduate Student (ad hoc) Committee, Nutrition Program, SNHP
Fall 2011	Master's Competency (ad hoc) Committee, Nutrition Program, SNHP
Spring 2009	The Center for Healthy Lifestyles Strategic Planning Unit, ASU Downtown
Fall 2008	Healthy Lifestyles Research Center Committee member, ASU Polytechnic
Fall 2008	Health Sciences Program Proposal Committee member for undergraduate degree program, ASU Polytechnic
Fall 2008	Conducted BIO202 Human Anatomy and Physiology Field Trip to Mortuary Science program at Chandler Gilbert Community College, Mesa, AZ
8/03-5/04	Graduate Student Representative, Resources Committee, Physiological Sciences Program, The University of Arizona, Tucson
7/02-6/03	Graduate Student Representative, Program Committee, Physiological Sciences Program, The University of Arizona, Tucson
2001, '04-05	Preceptor for first year students, Physiological Sciences Program, The University of Arizona, Tucson