

Curriculum Vitae

KAREN L. SWEAZEA

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Current as of February 8, 2019

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

2018-pres	Affiliated Faculty, Center for Evolution and Medicine, School of Life Sciences, Arizona State University (ASU)		
2018-pres	Member, Central Arizona-Phoenix Long Term Ecological Research (CAP LTER) program, ASU		
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, ASU, AZ		
2015-2017	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, 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, Mesa, AZ*		
2008	Assistant Professor, Physics, Chemistry, and Applied Mathematics, ASU, 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

- 2018 Nominated for the Graduate College Outstanding Faculty Mentor Award, ASU
- 2018 Nominated for the Zebulon Pearce Distinguished Teaching Award, College of Liberal Arts and Sciences, ASU
- 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
- 2013-2018 American Society for Nutrition (ASN)
- 2010-pres Elected Member, 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 Silver Heart Member, American Heart Association (AHA)
- 2002-pres Elected Member, The American Physiological Society (APS)

STUDY SECTIONS

American Heart Association (AHA)

2018 Vascular Biology & Blood Pressure BSc Fellowship Program (Spring and Fall submission cycles)

Spring 2017 Vascular Biology & Blood Pressure BSc 2 Study Section

PUBLICATIONS

Underlined names are mentored students (†Undergraduate student; ††Graduate Student; †††Postdoctoral Fellow); *Corresponding/Senior Author

A. Peer-Reviewed

1. Mayra S††, Johnston CS* (corr), **Sweazea KL***. (*Accepted with revisions*) High-nitrate salad increased plasma nitrates/nitrites and brachial artery flow-mediated dilation in postmenopausal women: a controlled feasibility study.
2. Mohr AE††, Girard M††, Rowe M††, McGraw KJ, **Sweazea KL***. (*Accepted with revisions*) Varied effects of dietary carotenoid supplementation on oxidized lipoproteins in tissues of two waterfowl species. *Comparative Biochemistry and Physiology – B*.
3. Crawford M††, Whisner C, Al-Nakkash L, **Sweazea KL***. (*Accepted*) Six-week high fat diet alters the gut microbiome and promotes cecal inflammation, endotoxin production and simple steatosis without obesity in male rats. *Lipids*.
4. **Sweazea KL***, Johnston CJ, Miller B, Gumprich E. (2018) Nitrate-rich fruit and vegetable supplement reduces blood pressure in normotensive healthy young males without significantly altering flow-mediated vasodilation: A randomized, double-blinded, placebo-controlled trial. *Journal of Nutrition and Metabolism*. 2018: Article ID 1729653, 2018.
5. Aslam F††, Iqbal S*, Nasir M, Anjum AA, Swan PD, **Sweazea K**. (2018) Effect of hydrogenated fat replacement with white sesame seed oil on physical, chemical and nutritional properties of cookies. *Italian Journal of Food Sciences*. 30: 13-25.
6. Johnston CS*, **Sweazea KL**, Schwab E††, McElaney EA††. (2017) Almond ingestion contributes to improved cardiovascular health in sedentary older adults participating in a walking intervention: A pilot study. *Journal of Functional Foods*. 39:58-62.
7. 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.
8. **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.
9. 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.
10. 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.
11. 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.

12. **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.
13. 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.
14. 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. PMID: 27255523.
15. 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. PMID: 27440533.
16. **Sweazea KL***. (2015) Serving Our Society. *The Physiologist*. 58(4): 180-181. PMID: 26434155.
17. **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. PMID: 26265584.
18. 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. PMID: 26185688.
19. **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.
20. **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. PMID: 25043840.
21. Wilkening JL††*, Ray C, **Sweazea KL**. (2013) Stress hormone concentration in Rocky Mountain populations of the American pika (*Ochotona princeps*). *Conservation Physiology*. 1(1): cot027. PMID: 27293611.
22. 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.
23. 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.
24. **Sweazea KL***, Braun EJ. (2013) Reciprocal inhibition of *in vitro* substrate movement into avian skeletal muscle. *Zoology (Jena)*. 116(2): 85-89. PMID: 23384946.
25. 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.
26. 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.
27. Kuzmiak S††, Glancy B†††, **Sweazea KL**, Willis WT*. (2012) Mitochondrial function in sparrow pectoralis muscle. *Journal of Experimental Biology*. 215: 2039-2050. PMID: 22623192.
 28. **Sweazea KL*** and Walker BR. (2012) Impaired myogenic tone in mesenteric arteries from overweight rats. *Nutrition and Metabolism*. 9(1): 18-26. PMID: 22424473.
 29. 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.
 30. **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.
 31. 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.
 32. **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.
 33. **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.
 34. **Sweazea KL***, **Lecik 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.
 35. **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.
 36. Braun EJ*, **Sweazea KL**. (2008) Invited review: Glucose regulation in birds. *Comparative Biochemistry and Physiology*. 151B: 1-9. PMID: 18571448.
 37. **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.
 38. **Sweazea KL**, Braun EJ*. (2006) Glucose transporter expression in English sparrows (*Passer domesticus*). *Comparative Biochemistry Physiology*. 144B(3): 263-270. PMID: 16730206.
 39. **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.
 40. 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.
 41. **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 Chapter

1. **Sweazea KL***, Johnston CS. Cardioprotective potential of flaxseeds in diabetes. (2019) In: *Bioactive foods as dietary interventions for diabetes, 2nd Edition*, Edited by Watson R, Preedy V. San Diego, CA: Elsevier, ch. 24.

D. 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.

E. Other Publications

1. **Sweazea KL***. The 10th Annual Meeting of the Arizona Physiological Society. *The Physiologist*. 61(2): 157-158, 2018.

F. Manuscripts in Review/Revision

1. **Crawford MS††**, Gumprich E, **Sweazea KL***. (*In Review*) Novel organometallic complex improves glucose regulation, inflammation and vasodilation in young male Sprague-Dawley rats fed a high fat diet for 10 weeks.
2. **Basile A††**, **Clark W†**, Shi X††, Gu H, Deviche P, **Sweazea KL***. (*In Review*) Mourning doves (*Zenaida macroura*) are resistant to metabolic and vascular effects of a mammalian diabetogenic refined-carbohydrate diet.
3. **Sweazea KL***, **Tsosie K††**, Beckman EJ††, Benham PM††, Witt CC. (*In Revision*) Seasonal and elevational variation in glucose and glycogen in two songbird species.

G. Abstracts of Poster Presentations

1. **Basile AJ††**, **Clark W†**, Shi X, Jasbi P, Gu H, Deviche P, **Sweazea KL***. (2019) Diet-related physiological plasticity of mourning dove: A metabolomic approach. Nutrition 2019, Annual American Society for Nutrition conference, Baltimore, MD.
2. Whisner CM*, Argo KB, **Sweazea KL**, Al-Nakkash, L. (2019) Impacts of genistein on the gut microbiota of a mouse model of cystic fibrosis. Nutrition 2019, Annual American Society for Nutrition conference, Baltimore, MD.
3. **Basile AJ††**, **Clark W†**, Shi X†††, Gu H, Deviche P, **Sweazea KL***. (2019) Mourning doves, *Zenaida macroura*, are resistant to metabolic and vascular effects of a mammalian diabetogenic refined carbohydrate diet. CAP LTER All Scientists Meeting and Poster Symposium, Tempe, AZ.
4. **Crawford M††**, **Sweazea KL***. (2019) 10-Week high-fat diet promotes endotoxemia and alters microbial taxonomy in male adolescent rats. Experimental Biology conference, Orlando, FL.
5. **Mohr AE††**, **Girard M††**, Rowe M, McGraw KJ, **Sweazea KL***. (2019) Varied effects of dietary carotenoid supplementation on oxidative damage in tissues of two waterfowl species. Experimental Biology Conference, Orlando, FL.

6. Basile AJ††, Shi X†††, Jasbi P††, Gu H, Deviche P, **Sweazea KL***. (2019) Mourning doves, *Zenaida macroura*, are resistant to metabolic effects of a high fat diet. Experimental Biology conference, Orlando, FL.
7. Mohr A††, Girard M††, Rowe M††, McGraw KJ, **Sweazea KL***. (2018) Varied effects of dietary carotenoid supplementation on oxidized lipoproteins in tissues of two waterfowl species. Arizona Physiological Society conference, Tempe, AZ.
8. Basile AJ††, Clark W†, Shi X††, Gu H, Deviche P, **Sweazea KL***. (2018) Mourning doves, *Zenaida macroura*, are resistant to metabolic and vascular effects of a mammalian diabetogenic refined-carbohydrate diet. Arizona Physiological Society Conference, Tempe AZ.
9. Crawford M††, **Sweazea KL***. (2018) 10-Week high fat diet promotes endotoxemia and alters microbial taxonomy in male adolescent rats. Arizona Physiological Society Conference, Tempe, AZ.
10. Starr AR†, Crawford M††, **Sweazea KL***. (2018) Examination of an organometallic complex on insulin resistance in adolescent male rats following a 10-week high fat diet. Arizona Physiological Society conference, Tempe, AZ.
11. Wood C†, Crawford M††, **Sweazea KL***. (2018) Novel organometallic complex prevents high fat diet-induced liver injury in male Sprague-Dawley rats. Arizona Physiological Society conference, Tempe, AZ.
12. Crawford M††, Clark W†, **Sweazea KL***. (2018) Novel organometallic complex prevents metabolic risk factors in male adolescent rats consuming a high fat diet for 10 weeks. 2018 Experimental Biology Conference, San Diego, CA.
13. Basile AJ††, Jarrett C†††, **Sweazea KL***. (2018) Relationship between dietary profile and blood glucose concentration in birds. 2018 Experimental Biology Conference, San Diego, CA.
14. Clark W†, Basile AJ††, Deviche P, **Sweazea KL***. (2018) Consumption of a refined carbohydrate diet does not impair vasodilation of cranial tibial arteries in the mourning dove, *Zenaida macroura*. 2018 Experimental Biology Conference, San Diego, CA.
15. Tat T, Baretl R, So M, **Sweazea K**, Gonzales RJ. (2018) Doxorubicin temporally modulates cyclooxygenase-2 levels in male and female human vascular smooth muscle cells. 2018 Experimental Biology Conference, San Diego, CA.
16. Bartel R†, Rahman S†, DeCourt B, **Sweazea KL**, Gonzales RJ. (2018) Lenalidomide attenuates high fat diet induced-cyclooxygenase-2 levels in human vascular smooth muscle cells. 2018 Experimental Biology Conference, San Diego, CA.
17. Basile AJ†, Jarrett CL††, Witt C, **Sweazea KL***. (2018) Evolution of naturally high plasma glucose concentrations in birds. 2018 Experimental Biology Conference, San Diego, CA.
18. Tat T, So M, Bartel R, **Sweazea KL**, Gonzales RJ*. (2018) Doxorubicin temporarily modulates cyclooxygenase-2 levels in male and female human vascular smooth muscle cells. University of Arizona Tucson Undergraduate Biology Research Program Poster Session.
19. Clark W†, **Sweazea KL***. (2017) Consumption of a refined carbohydrate diet does not impair vasodilation of cranial tibial arteries from mourning doves (*Zenaida macroura*). 2017 Arizona Physiological Society Conference, Flagstaff, AZ. Abstract #F4.
20. 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. Abstract #F14.

21. 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. Abstract #S6.
22. 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. Abstract #S2.
23. 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. Abstract #S10.
24. 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. Abstract #S19.
25. 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.
26. Crawford M††, Liss T†, Sweazea KL*. (2017) Short term high fat feeding alters expression of glucoregulatory proteins in skeletal muscle of male adolescent rats. *FASEB J.* 31: 710.8.
27. Crawford M††, Whisner C, Sweazea KL*. (2017) Examination of changes in intestinal microbiota induced by high fat feeding in male adolescent rats. *FASEB J.* 31: 891.1.
28. Sweazea KL*, Johnston CS, Miller B, Gumprich E. (2017) Beet juice energy drink increases nitric oxide bioavailability and lowers blood pressure in healthy men. *FASEB J.* 31(1 Suppl): 966.10.
29. Awwad IM, D'Lugos AC, Carroll CC, Gonzales RJ, Sweazea KL, Dickinson JM, Angadi SS, Hale TM*. (2017) Exercise preconditioning as a means to protect the kidney against doxorubicin-induced oxidative stress. *FASEB J.* 31: 819.1.
30. 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.
31. 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. Abstract #F6.
32. 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. Abstract #S32.
33. 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. Abstract #S29.
34. Crawford M††, Liss T†, Sweazea KL*. (2016) Short term high-fat feeding alters expression of glucoregulatory proteins in skeletal muscle of male adolescent rats. 2016 Arizona Physiological Society conference, Tucson, AZ. Abstract #F5.
35. 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. Abstract #S31.

36. 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. Abstract #F21.
37. 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. Abstract #F2.
38. 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*). *FASEB J.* 30: 760.7.
39. Crawford M††, Liss T†, Calhoun M†, **Sweazea KL***. (2016) In the short term, poor nutrition promotes simple steatosis without inflammation in adolescent rats. *FASEB J.* 30: 1249.1.
40. **Sweazea KL***, Braun EJ. (2016) Preliminary examination of a role for insulin in the regulation of glucose excretion in mourning doves (*Zenaida macroura*). *FASEB J.* 30: 976.2.
41. 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. Abstract #S20.
42. 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. Abstract #F6.
43. 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. Abstract #S22.
44. 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.
45. 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.
46. **Sweazea KL***, Borges C, Zuck J††, Rayle S†. (2015) Unraveling the avian paradox: Avian resistance to protein glycation. *FASEB J.* 29: LB642.
47. Ricklefs K††, Johnston CS, **Sweazea KL***. (2015) Therapeutic use of ground flaxseeds for type 2 diabetes. *FASEB J.* 29: 912.11.
48. 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.
49. Faust J††, Malenica I†, Doshi M, Stepanek R, Brower J†††, **Sweazea K**, Caplan MR, Herman R*. (2014) Pancreatic β -cell function and mass in pubertal hyperinsulinemia. 2014 Biomedical Engineering Society Conference, San Antonio, TX. Abstract # P-Th-459
50. 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. Abstract #F17.
51. 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. Abstract #S18.
 52. 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.
 53. 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.
 54. 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.
 55. Calhoun M†, McGraw K, Sweazea KL*. (2014) Variations in pancreatic glucoregulatory hormones in birds. *FASEB J*. 28: 1101.1.
 56. 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.
 57. 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.
 58. 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.
 59. 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.
 60. 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.
 61. 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.
 62. 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.
 63. Liss T†, Sweazea K*. (2013) Evaluation of inflammatory response and lipid concentration after high fat diet. 12th Annual Barrett, The Honors College, Celebrating Honors Symposium of Research and Creative Projects, ASU.
 64. 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: 1b422.

65. 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: 1b424.
66. **Sweazea KL***, Baluch D, Traynor K††, Cease A††, Coulombe M, Stout V. (2013) Jumpstarting STEM careers. *FASEB J.* 27: 740.1.
67. Wilkening J††*, Ray C, **Sweazea K.** (2012) Using fecal samples to measure physiological stress in American pikas. 97th Ecological Society of America annual meeting, Portland OR.
68. 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.
69. Calhoun M†, Witt C, **Sweazea KL***. (2012) Variations in glucose across phylogenetically distinct avian species. The Arizona Physiological Society Conference, Tucson, AZ. Abstract #F18.
70. 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.
71. 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.
72. 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.
73. Rodriguez N†, Jarrett CL††, **Sweazea KL***. (2012) Hopscotch through the heart: Teaching cardiovascular physiology to 2nd graders. 2012 Experimental Biology Conference, San Diego, CA.
74. **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.
75. Juan TK†, Jarrett CL††, **Sweazea KL***. (2012) Immune responses to parasitic infections in mourning doves (*Zenaida macroura*). *FASEB J.* 26: 1072.9.
76. 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.
77. 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.
78. 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.
79. 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.
80. 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.
81. Hostetter K†, **Sweazea KL**, Braun EJ*. (2011) A comparison of avian pancreatic islets. *FASEB J.* 25: 859.11.

82. 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.
83. 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.
84. 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
85. 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.
86. 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.
87. 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.
88. 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 92nd Annual Endocrine Society Annual Meeting, San Diego, CA. Abstract #P3-465.
89. Davies S††, Rodriguez N†, Sweazea KL, Deviche P*. (2010) The influence of acute stress on glucose and protein utilization of a desert songbird. 25th International Ornithological Congress, Sao Paulo, Brazil.
90. 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.
91. Sparr R†, Braun EJ, Sweazea KL*. (2010) Putative role for insulin in glucose regulation by avian kidneys. *FASEB J.* 24: 1b614.
92. Kuzmiak S††, Glancy B†††, Sweazea KL, Willis W*. (2010) Mitochondrial function in sparrow pectoralis muscle. *FASEB J.* 24: 1055.15.
93. Lekic M†, Walker BR, Sweazea KL*. (2010) Mechanisms of impaired acetylcholine-mediated vasodilation in overweight rats. *FASEB J.* 24: 592.3.
94. 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.
95. 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.
96. Hostetter K††, Sweazea KL, Braun EJ*. (2010) The avian pancreatic islets, a comparison across species, *FASEB J.* 24: 1055.9.
97. Anthony C††, Sweazea KL, Braun EJ*. (2010) The analysis of avian plasma for glycated serum albumin. *FASEB J.* 24: 1055.7.

98. 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.
99. 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.
100. 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.
101. 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.
102. 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.
103. Hostetter K††, **Sweazea KL**, Braun EJ*. (2009) Pancreatic beta and alpha cell expression patterns across avian species. *FASEB J.* 23: 778.8.
104. Braun EJ*, **Sweazea KL**. (2008) Meta-analysis of plasma glucose concentrations in birds and mammals. 9th International Symposium on Avian Endocrinology, Leuven, Belgium.
105. **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.
106. **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.
107. **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, 61st Annual High Blood Pressure Research Conference, Abstract #P50.
108. **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.
109. **Sweazea KL** and Walker BR*. (2007) Myogenic reactivity in mesenteric arteries of high fat fed rats. *FASEB J.* 21: 964.4.
110. **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.
111. **Sweazea KL**, Walker BR*. (2006) Heme oxygenase decreases reactive oxygen species in mesenteric resistance arteries. *FASEB J.* 20: A1453.
112. **Sweazea KL**, Casotti GI, Braun EJ*. (2006) Characterization of sodium-glucose co-transporters in the avian kidney. *FASEB J.* 20: A1466.
113. **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.
114. Braun EJ*, **Sweazea KL**. (2005) Uptake of oleic acid by avian skeletal muscle. *FASEB J.* 19: 665.13.
115. **Sweazea KL**, Braun EJ*. (2005) Substrate preference by avian skeletal muscle. *FASEB J.* 19: 665.12.
116. Braun EJ*, **Sweazea KL**. (2004) In vitro uptake of glucose by avian skeletal muscle. *FASEB J.* 18: 825.4.

117. **Sweazea KL**, Braun EJ*. (2004) Immunolocalization of glucose transporters 1 and 3 in English sparrow skeletal muscle. *FASEB J.* 18: 825.5.
118. **Sweazea KL**, Braun EJ*. (2003) Glucose transport in skeletal muscle of *Passer domesticus*, the common house sparrow. *FASEB J.* 17: 570.16.
119. **Sweazea KL**, Braun EJ*. (2002) Expression of glucose transporter-4 (GLUT4) in avian skeletal muscle. *FASEB J.* 16: 360.5.

INVITED SEMINARS

- Apr 2019 **Crawford M††**, Sweazea KL. (2019) “10-Week high-fat diet promotes endotoxemia and alters microbial taxonomy in male adolescent rats.” Featured Topic – John Forte Plenary Session, Experimental Biology conference, Orlando, FL.
- Apr 2019 **Mohr AE††**, **Girard M††**, Rowe M, McGraw KJ, Sweazea KL. (2019) “Varied effects of dietary carotenoid supplementation on oxidative damage in tissues of two waterfowl species.” Featured Topic – Trainee Session, Experimental Biology Conference, Orlando, FL.
- Mar 2018 Invited Panelist for “Preparing and Presenting Research Posters”, SOLUR Seminar program, ASU
- 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. Video available on the APS website: <http://www.the-aps.org/choosing-a-lab-and-personnel>
- 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, Westminister 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.
- October 2008 “Birds Are Not Just Rats with Wings: A Comparison of Substrate Utilization,” Idea Networks of Biomedical Research Excellence Seminar, New Mexico Tech, Socorro, NM.
- April 2007 “Diet-induced Vascular Dysfunction,” Featured Topics Session, Experimental Biology Conference, Washington, DC.
- Fall 2004 “Avian Diabetes,” University of Arizona, Desert Botanical Gardens, Physiology presentation, Tucson, AZ.

CHAired CONFERENCE SYMPOSIA

- 2017 Chair, Comparative Physiology Session, Arizona Physiological Society Conference, Flagstaff, AZ
- 2016 Co-Chair, Women in Physiology Seminar, “Negotiation for Success!” Experimental Biology conference, San Diego, CA.
- 2016 Co-Chair, Featured Topics Session, CEP Section of the APS, “Avian osmoregulation: Unique solutions, unanswered questions,” Experimental Biology conference, San Diego, CA.
- 2015 Chair, Science Panel, Jumpstarting STEM Careers conference, Central Arizona chapter of the Association for Women in Science, Tempe, AZ (Jan 15)
- 2014 Co-Chair, “The Challenge of Teaching Physiology in a Changing Environment: Innovation and Resources,” 2014 APS Intersociety Meeting: Comparative Approaches to Grand Challenges in Physiology, San Diego, CA.
- 2011 Session Co-Organizer, “Teaching Strategies,” Forward to Professorship Workshop, Arizona State University, Tempe, AZ.

- 2010 Chair, Featured Topics Session, Comparative and Evolutionary Physiology (CEP) Section of the APS, “Comparative Metabolic Physiology,” Experimental Biology Conference, Anaheim, CA.
- 2007 Co-Chair, Featured Topics Session, CEP Section of The APS, “The Impact of Glucose and Fatty Acids on Insulin Resistance Across Species,” Experimental Biology Conference, Washington DC.

FUNDED RESEARCH

Ongoing Research Support

Isagenix International Sweazea (PI) 10/22/18-5/31/19
 Exploration of a novel organometallic complex to restore gut health in rats consuming an obesogenic diet
 The objective is to characterize the gut microbiome of young male Sprague-Dawley rats fed a high fat or control diet that were treated with 10-week OMC supplementation or vehicle. Samples are readily available for this study from the prior funded project.
 Role: PI

Isagenix International Sweazea (PI) 12/9/16-5/31/19
 Reversing Metabolic and Cardiovascular Complications
 The objective is to evaluate the efficacy of 10-week supplementation with OMC at reversing metabolic and cardiovascular complications (weight gain, adiposity, inflammation, glucose regulation, endothelium-dependent vasodilation, and blood pressure) associated with high fat-high calorie intake in adult male Sprague-Dawley rats.
 Role: PI

Completed Research Support

SOLS/OKED Research Investment Initiative Sweazea (Co-PI) Spring 2018
 Birds as experimental models to study diet-related metabolic and vascular system disorders
 The objective is to generate preliminary data for larger grant applications.
 Role: Co-PI (PI: Pierre Deviche, SOLS, ASU)

Isagenix International Sweazea (PI) 1/9/17-5/31/18
 Exploration of the metabolic and vascular protective effects of an organometallic complex (OMC)
 The objective is to evaluate the efficacy of 10-week supplementation with OMC at reversing metabolic and cardiovascular complications (weight gain, adiposity, inflammation, glucose regulation, endothelium-dependent vasodilation, and blood pressure) associated with high fat-high calorie intake in adult male Sprague-Dawley rats.
 Role: PI

Mayo Clinic Angadi (PI) 2015-2016

The goal was to measure correlations between glucose concentrations and variations in temperature as well as altitude in two species of passerine birds.

Role: Lead PI (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.

Role: PI

TEACHING

Applied Biological Sciences

ABS 489 Undergraduate Research, *4 student enrolled since 2009*

ABS 492 Honors Directed Study, *2 students enrolled since 2009*

ABS 493 Undergraduate Honors Thesis, *1 student since 2009*

ABS 499 Undergraduate Research, *7 students since 2009*

BIO 202 Human Anatomy and Physiology II Lecture, *3 times since 2008*

BIO 202 Human Anatomy and Physiology II Laboratory, *2 times since 2008 sections*

Barrett, The Honors College

HON 498 Honors Research, *3 students enrolled since 2014*

Biochemistry, Department of Chemistry and Biochemistry

BCH 392 Introduction to Research Techniques, *2 students since 2017*

BCH 492 Honors Directed Study, *1 student enrolled since 2014*

BCH 493 Biochemistry Honor's Thesis, *1 student enrolled since 2014*

Biological Design, SOLS

BDE 792 Graduate Research, *1 student since 2016*

Biological Sciences, SOLS

BIO 360 Animal Physiology, *taught 4 times since 2016*

BIO 492 Honors Directed Study, *7 students since 2014*

BIO 493 Honors Thesis, *9 students since 2014*

BIO 495, Undergraduate Research, *20 students since 2012*

College of Health Solutions (CHS)

CHS 101 The ASU Experience, *1 time since 2016*

Health Sciences (now Healthcare Delivery), CHS

HSC 320 Applied Medical/Healthcare Ethics, *14 times since 2010*

HSC 420 Evaluation of Health Sciences Research, *19 times since 2010*

HSC 494 Undergraduate Research Seminar, *9 students since 2010*

Nutrition, CHS

NTR 290 Evidence-based Nutrition, *5 times since 2017*

NTR 493 Honors Thesis, *1 student since 2018*

NTR 524 Chronic Inflammation in the Metabolic Syndrome, *developed in 2018 and implemented spring 2019*

NTR 532 Pathophysiology and Nutrition, *2 times since 2015*

NTR/EXW 691 Physical Activity and Nutrition Graduate Seminar, “Professional Development Skills”, Physical Activity, Nutrition and Wellness PhD program, 2016

NTR/EXW 691 Physical Activity and Nutrition Graduate Seminar, “Development of your research agenda”. Physical Activity, Nutrition and Wellness PhD program, 2015

NTR 784 Teaching Internship, *first time spring 2019*

Guest Lectures

2018

NTR/EXW 791, Guest Lecture on *Mentoring*, Nutrition, ASU

EVO 610 Research Areas of Evolution, Guest Lecture on *Comparative Physiology*, School of Life Sciences (SOLS)

2016

EVO 610 Research Areas of Evolution, Guest Lecture, School of Life Sciences (SOLS)

BCH 462 General Biochemistry, Guest lecture on *Diet-induced Vascular Dysfunction*, ASU

NTR 340 Guest speaker on research, Evidence-Based Nutrition, Nutrition, ASU

BIOL 110 Guest Lecture for *Contemporary Problems in Biology*, New Mexico State University, Grants, NM

2015

NTR/EXW 791, Doctoral Seminar, Guest Lecture: *Time Management: The 24/7 Professor*, School of Nutrition and Health Promotion (SNHP)

2014

EVO 610 Research Areas of Evolution, Guest Lecture, School of Life Sciences (SOLS)

NTR/EXW 791, Doctoral Seminar, Guest Lecture: *Women in Science*, School of Nutrition and Health Promotion (SNHP)

2007

Problem Based Learning Facilitator, Medical School Phase I, Human Sexuality, Reproduction/Endocrinology Block, UNM

Guest Lecture, Physiology I, New Mexico Tech, Socorro, NM

2006

Guest Lecture, Physiology I, New Mexico Tech, Socorro, NM

STUDENT MENTORING

Graduate Thesis/Dissertation Committees Since Employment at ASU

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

Member 1/19-pres	Bethany Weigand MS, Nutrition, ASU	Thesis: TBD <i>Mentor:</i> Corrie Whisner, CHS, ASU	
Chair 08/18-pres	Kasandra Rascon MS, Biology, ASU	Thesis: Effects of menthol on weight regain and maintenance of caloric restriction; <i>Co-mentor:</i> Richard	

Chair 08/18-pres	<i>Morgan Nelson</i> MS, Biology, ASU	Herman, SMS Thesis: Evaluation of an organometallic complex on the development of cardiovascular disease risk following a 10-week high-fat diet	<i>2019 Graduate Research Support Program Award</i> <i>2018 Jumpstart Research Grant, GPSA, ASU</i>
Chair 08/18-pres	<i>Alex Mohr</i> PhD, ENS, ASU	Role of carotenoids as potential antioxidants in two species of waterfowl.	<i>2019 Graduate Research Support Program Award</i>
Member 5/18-pres	<i>Lakshmi Madhavpeddi</i> PhD, Clinical Translational Sciences, UofA COM Phoenix	<i>Mentor:</i> Taben Hale, UofA COM Phoenix	
Member 3/18-pres	<i>Emily Webb</i> PhD, Biology, ASU	Dissertation: Physiological and environmental influences on carotenoid distribution patterns in a wild population of birds <i>Mentor:</i> Kevin McGraw, SOLS	
Member 1/18-pres	<i>Selicia Mayra</i> PhD, ENS, ASU	<i>Mentor:</i> Carol Johnston, College of Health Solutions (CHS)	
Member 2/18-pres	<i>Bukola Obayomi</i> PhD, Biology, ASU	Role of tyramine in uterine contractions <i>Mentor:</i> Debra (Page) Baluch, SOLS, ASU	
Member 1/18-pres	<i>Katy Argo</i> MS Nutrition Program, ASU	Impacts of genistein on the gut microbiota of a mouse model of cystic fibrosis <i>Mentor:</i> Corrie Whisner, Nutrition, ASU	
Member 12/17-pres	<i>Noel Ugarte</i> MS, Nutrition Program, ASU	<i>Mentor:</i> Carol Johnston, Nutrition, ASU	
Chair 8/17-pres	<i>Kelly McCormick</i> MS, Nutrition Program, ASU	Mitigation of cardiac hypertrophy with a novel prebiotic	
Chair 8/17-pres	<i>Anthony Basile</i> PhD, Evolutionary Biology, SOLS	Role of gluconeogenesis in maintaining naturally high glucose in doves	<i>2018 Novo Nordisk Foundation Travel Grant from the CEPS Section of the APS to attend EB;</i> <i>2018 SOLS Travel Award;</i> <i>2018 GPSA Graduate Research Support Program Award</i>
Member 8/17-pres	<i>Karen Moreno</i> PhD, ENS program, ASU	Improving physical activity adherence and disease risk for obese, middle-aged women <i>Mentor:</i> Pamela Swan, ENS program	
Member 8/17-pres	<i>Andres Fierro</i> MS, Nutrition program, ASU	An analytic investigation of urine preservation on the stability of sucrose and fructose <i>Mentor:</i> Natasha Tasevska, Nutrition	

Member 2/17-pres	Theodore (Teddy) Cogley PhD, Biology, SOLS ASU	Program <i>Mentor:</i> Jon Harrison, SOLS	
Member 4/16-pres	Latoya Campbell PhD, SOLS CMVB	Apolipoprotein A6 function in adipose tissue <i>Mentor:</i> Jin Liu, CVMB at Mayo	
Member 8/15-pres	Pierce Hutton PhD, Biology, SOLS, ASU	The 'beauty sleep' hypothesis: Plumage ornaments as sexually selected indicators of sleep phenotype. <i>Mentor:</i> Kevin McGraw, SOLS, ASU	
Chair 3/15-pres	Meli'sa Crawford, PhD, Biology, SOLS, ASU	Elucidating the relationship between gut microbes and cardiovascular disease risk	<i>2018 Caroline tum Suden/Frances Hellebrandt abstract- based award, American Physiological Society 2018 GPSA Graduate Research Support Program Award 2017 3rd place poster presentation at the Arizona Physiological Society conference 2017-2018 ASU Graduate College Fellowship; 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 2014-2016 NSF Bridge to the Doctorate Fellowship</i>

PAST

Chair 8/16-7/11/18	Julia Barberes MS, Nutrition Program, ASU	Evaluation of the vasoprotective effects of sumac in subjects with type 2 diabetes.
Member 5/15-7/5/18	Shelley Valle PhD, Biology, SOLS	The effects of food availability on the reproductive endocrine axis in a seasonally breeding bird

Member 1/15-5/24/18	Jacob Campbell PhD, SOLS	<i>Mentor:</i> Pierre Deviche, SOLS Physiological and genetic mechanisms underlying variation in anoxia tolerance in <i>Drosophila melanogaster</i> . <i>Mentor:</i> Jon Harrison, SOLS	
Chair 8/17-4/9/18	Deb Watson MS, Nutrition Program, ASU	Oxidative stress and a high fat diet in rats: An intervention study on the effects of a soil-derived organometallic compound on nitric oxide levels and related protein expressions	<i>2018 Spring GPSA Jumpstart Grant</i>
Mentor 8/15-4/16/17	Farhan Aslam 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. <i>Co-mentor:</i> Pamela Swan, ESHP	
Chair 1/16-4/3/17	Selicia Mayra MS, Nutrition Program, ASU <i>Current Position: PhD Student, ENS program, ASU</i>	Comparison of high-nitrate versus low-nitrate diets on cardiovascular health in post-menopausal women <i>Co-mentor:</i> Dr. Carol Johnston, Nutrition, ASU	<i>2016 GPSA Jumpstart Grant, ASU</i>
Member 8/15-3/15/17	Elizabeth Journey MS, Nutrition Program, ASU	Changes in Weight Status and the Intestinal Microbiota among College Freshmen. <i>Mentor:</i> Corrie Whisner, Nutrition, ASU	
Chair 8/15-08/12/16	Tana Ingram MS, Nutrition Program, ASU	Evaluation of protein glycation and antioxidant levels in birds of prey	<i>2015 Graduate Research Support Program Award, ASU</i>
Chair 8/15-11/21/16	Emily Schwab 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	Elizabeth McElaney MS, Nutrition Program, ASU	Almond consumption during a walking intervention will not affect heart rate recovery. <i>Mentor:</i> Carol Johnston, Nutrition, ASU	
Chair 8/14-5/16	Jessica Zuck MS, Nutrition Program, 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	Kathryn Bratrud MS, Nutrition Program, ASU	<i>Mentor:</i> Carol Johnston, ASU	
Member 2015	Jessica Knurick PhD, Physical Activity	Effects of postmeal walking on postprandial glucose control and	

Chair 8/13-11/14	Nutrition and Wellness (PANW) Program, ASU Catherine Crinigan MS, Nutrition Program, ASU	oxidative stress. <i>Mentor:</i> Carol Johnston, Nutrition, ASU Effects of high fat feeding on renal function in adolescent male rodents.	<i>2014 Graduate Research Support Program Award, ASU</i> <i>2014 Sigma Xi Grant-in-Aid of Research, ASU</i>
Member 2014	Lindsay Gnant (Stubbs) MS, Nutrition Program, ASU	<i>Mentor:</i> Carol Johnston, Nutrition, ASU	
Member 11/10/14	Scott Davies PhD, Biology, ASU	Influence of food on reproductive physiology: Urbanization as a natural experiment. <i>Mentor :</i> Pierre Deviche, SOLS, ASU	
Chair 8/11-5/15	Kristin Ricklefs 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</i> <i>2014 2nd place graduate student poster presentation, Arizona Physiological Society conference</i> <i>2014-2015 Graduate Education Dissertation Fellowship, ASU</i> <i>2014 Jumpstart Research Award, ASU</i> <i>2014 Graduate Research Support Program Award, ASU</i> <i>2013 AmeriFlax Council Research grant</i> <i>2013 JumpStart Research Award, ASU</i> <i>2012-2013 Graduate Research Support Program Award, ASU</i>
Chair 1/13-4/14	Samer Alanbagy, MD MS, Nutrition Program ASU	The effects of omega-3 supplementation on markers of obesity and endothelial function in healthy subjects.	
Member Spring 2014	Sarah Wherry PhD, PANW, ASU	Effectiveness of the Wii fit program at restoring balance. <i>Mentor:</i> Pamela Swan, Exercise and Wellness, ASU	
Member Fall 2013	Giselle Pereira Pignotti PhD, PANW Program, ASU	Effect of nopales (<i>Opuntia Spp</i>) on lipoprotein profile and oxidative stress in moderately hypercholesterolemic adults. <i>Mentor:</i> Sonia Vega-Lopez, Nutrition, ASU	

Chair 7/12-1/14	<i>Katherine Petersen</i> 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 2012 JumpStart Research Award, ASU</i>
Member Spring 2013	<i>Elizabeth Sussman</i> PhD, PANW Program, ASU	Beneficial effects of selenium in renal failure. <i>Mentor:</i> Carol Johnston, Nutrition, ASU	
Member Spring 2013	<i>Laurie Black</i> 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	
Chair 8/10-5/12	<i>Catherine Jarrett</i> 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 2010-2011 Graduate Research Support Program Award, ASU 2010 SigmaXi Grant-in-Aid of Research, ASU</i>
Member Fall 2012	<i>Emily Medved</i> MS, PANW Program, ASU	Effects of vinegar on colonic fermentation and glycemia. <i>Mentor:</i> Carol Johnston, Nutrition, ASU	
Member Spring 2012	<i>Sarah Kuzmiak</i> PhD, Kinesiology, ASU	Evaluation of oxidative stress in mitochondria of house sparrows. <i>Mentor:</i> Wayne Willis, Kinesiology/SOLS, ASU	
Research Mentor 1/11-7/12	<i>Krystal Tsosie</i> 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	<i>Jennifer Vranish</i> MS, Physiology, UA	Isolation of putative osmoreceptor from avian GI tract. <i>Mentor:</i> Eldon Braun, Physiology, UA, Tucson	
Member Spring 2011	<i>Kimberly Hostetter</i> MS, Physiology, UA	Glucose and insulin expression patterns in avian pancreata. <i>Mentor:</i> Eldon Braun, Physiology, UA, Tucson	
Member Spring 2010	<i>H. Bobby Fokidis</i> 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	<i>Claire Anthony</i> MS, Physiology, UA	Avian resistance to glycation. <i>Mentor:</i> Eldon Braun, Physiology, UA, Tucson	

Undergraduate Trainees Since Employment at ASU

Role/Defense dates	Student/Field	Research Topic/Thesis Project	Special Achievements for Research in My Laboratory
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CURRENT

Sweazea, Karen L.

Mentor 08/18-pres	Mohamad Abdallah Biological Sciences, ASU	Lab Assistant	
Chair 08/18-pres	Lana Kayata Biological Sciences, ASU	<i>Honors Thesis:</i> Effects of a Western diet on mourning dove (<i>Zenaida macroura</i>) osmoregulation	
Chair 05/18-pres	Jason Cusimano Medical Microbiology, ASU	<i>Honors Thesis:</i> Investigation of whether glucocorticoids induce insulin resistance in skeletal muscle via interaction with TXNIP <i>Mentor:</i> Peter Reaven, VA Medical Center, Phoenix, AZ	
Mentor 3/18-pres	Monique Bertin Biological Sciences, ASU	Lab assistance with ecophysiology projects	<i>SOLUR Apprentice (2018-2019)</i>
Chair 12/16-pres	Courtney Wood Biological Sciences, ASU	<i>Honors Thesis:</i> Evaluation of hepatoprotective role of OMC in the liver of rats fed a high fat diet.	
Member 10/16-pres	Poi Kuo Global Health, ASU	<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	
Member 08/15-pres	Brooke Sykes 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	
<u>PAST</u>			
Chair 3/17- 11/14/18	Sanna Rahman Biological Sciences, ASU	<i>Honors Thesis:</i> Hypoxia plus glucose deprivation increases NF-kB activation and downstream pro-inflammatory enzyme levels in human brain VSM cells. <i>Co-Chair:</i> Rayna Gonzales, University of Arizona COM - Phoenix	
Chair 12/16- 10/31/18	Ashlee Starr Biological Sciences, ASU	<i>Honors Thesis:</i> Evaluation of OMC-mediated glucose regulation in muscle	
Chair 09/16- 4/16/18	Lorne Lambries Health Sciences, ASU	<i>Honors Thesis:</i> Impact of sumac on lowering oxidative stress as it pertains to dementia	
Member 4/17-4/10/18	Laura Stokes Biochemistry (Medicinal Chemistry), ASU	<i>Honors Thesis:</i> The influence of extracellular mitochondria on neuroinflammation. <i>Chair:</i> Boris Decourt, Biodesign, ASU	
Chair 12/16-4/6/18	Arturo (Niko) Rojas Health Sciences, ASU	<i>Honors Thesis:</i> Growing Mya-1 feline regulatory T cells for adoptive	

		immunotherapy. <i>Co-Chair:</i> Angela Mexas, Midwestern University, Glendale, AZ <i>Honors Thesis:</i> Putative vasodilatory role of insulin in birds	2017-2018, 2016-2017 and 2015-2016 School of Life Sciences Undergraduate Researcher (SOLUR) Fellowship, ASU
Chair 08/14- 03/21/18	Alice Gadau Biological Sciences, ASU		
Chair 12/16-10/17	Robyn Bartel Biological Sciences, ASU	<i>Honors Thesis:</i> Lenalidomide modulates high fat diet induced inflammation in human vascular smooth muscle cells.	
Mentor 05/16-08/17	William Clark Biological Sciences, ASU	<i>Independent Project:</i> Effects of urban nutrition on glucose regulation in wild mourning doves.	2017 IOSP Undergraduate Summer Research Fellowship, American Physiological Society
Member 2/17-12/17	Chandan Saini Psychology, ASU	<i>Honors Thesis:</i> The effects of artificial light at night on immune development in a precocial bird. <i>Mentor:</i> Kevin McGraw, SOLS Volunteer researcher in the lab, assisted with various projects, enrolled in BIO 495	
Mentor 12/16-7/17	Austin Lehew Biological Sciences	Effects of in vitro glucose exposure on avian vascular reactivity; Exploring the relationship between osmolarity and glucose in birds	Invited to present research seminar at the 2016 AzPS Conference
Mentor 08/15-05/17	Daphne Eagleman Biological Sciences, ASU <i>Current position:</i> <i>Doctoral student at U</i> <i>Illinois at Urbana</i> <i>Champaign</i>		
Chair 8/16- 04/10/17	Hanna Sivak 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	Timothy Panknin Health Sciences, ASU	<i>Honors Thesis:</i> Cardioprotective effects of high intensity interval training following Doxorubicin treatment. <i>Mentor:</i> Siddhartha Angadi, ESHP, ASU	
Mentor 05/16-11/16	Kali Mahrer Biological Sciences, ASU	Evaluation of antioxidant nature of uric acid in avian arteries following high glucose exposure	
Member 08/15-05/16	Joan Hearn 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	
Mentor 08/14-5/16	Troy Wagner Biological Sciences, ASU	<i>Team project:</i> Evaluation of effectiveness of sesame seed oil at	

		reversing complications associated with pre-diabetes.	
Mentor 05/19/14- 08/19/14	Marc Girard 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>
Member Spring 2015	Alexander Funk 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	
Chair 1/14-12/16	Liam O'Neill Biological Sciences, ASU <i>Currently attending Rowan University Cooper Medical School, Class of 2022</i>	<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>
Mentor 8/13-5/16	Zoha Ahmed Biological Sciences, ASU <i>Currently attending University of Arizona College of Medicine, Class of 2021</i>	<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 (<i>Z. macroura</i>).	<i>2015-2016 School of Life Sciences Undergraduate Research (SOLUR) Fellowship, ASU</i> <i>2015-2016 Ralph A. Fisher Jr. Scholarship, School of Life Sciences;</i> <i>2014-2015 School of Life Sciences Undergraduate Research Fellowship</i>
Chair Fall 2012- Spring 2015	Noor Raad Biological Sciences, ASU	<i>Honors Thesis:</i> Replacing dietary meat with fish significantly increases plasma glucose without affecting protein glycation.	
Chair Fall 2013- Spring 2015	Soukaina Kouteib, Biological Sciences, ASU	<i>Honors Thesis:</i> The role of lipolysis in regulating plasma glucose concentrations in mourning doves.	<i>Spring 2015 SOLUR Fellowship, ASU</i>
Chair Fall 2012- Spring 2015	Matthew Calhoun Biochemistry, ASU	<i>Honors Thesis:</i> Hepatic inflammatory response following high fat diet in adolescent male Sprague-Dawley rats.	<i>2013 APS Summer Undergraduate Research Fellowship</i>
Chair Fall 2012- Spring 2015	Anna Simperova 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.	<i>2014-2015 School of Life Sciences Undergraduate Research Fellowship</i> <i>2014 Nominated, Undergraduate Student of the Year, SOLS</i> <i>2013-2014 School of Life Sciences Undergraduate Research Fellowship</i>
Member	Stephanie Helland	<i>Honors Thesis:</i> Effects of novel	

Spring 2014	Nutrition Program, ASU	functional food on wellness indicators in college students. <i>Mentor:</i> Carol Johnston, Nutrition, ASU	
Member Spring 2014	Janine Faraj 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	
Mentor 5/13-8/13	Katerine Diaz 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.	<i>2013 STEP-UP summer fellowship from APS</i>
Mentor 1/13-8/13	Danielle Alder Nutrition Program, ASU <i>Currently finishing BS at ASU</i>	Lab technician for funded Almond grant, assisted with recruitment.	
Mentor Fall 2013	Sean Rayle SNHP, ASU	Assisted with mass spectrometry analyses of avian samples	
Mentor 1/13-8/13	Scott Ghormley Biology, ASU <i>Applying for law school</i>	General lab assistance.	
Mentor 8/11-7/13	Tiffany Juan Bioengineering, ASU <i>Completing capstone project at ASU</i>	<i>Independent project:</i> Pathophysiological consequences of schistosome infections in doves.	
Mentor 9/12-12/12	Amanda Caskey 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.	
Mentor 1/12-5/13	Corey Frahm Health Sciences Program, ASU <i>Currently in pharmacy school at UA-Tucson</i>	<i>Independent project:</i> The controversial role of leptin in birds.	
Chair 8/11-5/13	Tyler Liss Health Sciences Program, ASU	<i>Honors Thesis:</i> Triglyceride accumulation following high fat, but not high sucrose, diets in young male Sprague-dawley rats.	
Mentor 8/11-5/12	Diana Soweiden Health Sciences Program, ASU <i>Currently in medical school at Midwestern U-</i>	<i>Independent project:</i> Effects of acute exposure to high glucose on tissue oxidative stress.	

Mentor 6/11-8/11	<i>Glendale, AZ</i> Caroline Pusec Dept of Physiology, UA, Tucson <i>Currently in Driskoll PhD Program in Life Sciences, Northwestern U</i>	<i>Independent project: Endothelial nitric oxide synthase expression in avian arteries.</i>	
Mentor 8/09-6/11	Natalie Rodriguez Nutrition Program, ASU <i>Currently in nursing program at Brookline College-Phoenix</i>	<i>Independent project: Stress-mediated alterations of avian glucose homeostasis.</i>	<i>2010 APS/NIDDK Minority Travel Fellowship for Experimental Biology conference</i>
Mentor 1/09-4/11	Mateja Lekic Applied Biological Sciences, ASU <i>Currently in medical school at UA-Tucson</i>	<i>Independent project: Mechanisms of high fat diet-mediated impairment of vascular reactivity.</i>	<i>3rd place, UG poster award competition, 2010 Arizona Physiological Society conference</i>
Mentor 1/09-8/10	Maggie Garvin Nutrition Program, ASU <i>Currently in naturopathic medical school at SCNM- Chandler, AZ</i>	<i>Independent project: Comparison of glucose concentrations across birds, mammals, and reptiles.</i>	
Mentor 1/09-8/10	Richard Sparr Applied Biological Sciences, ASU <i>Currently a Quality Coach at Western Governors University</i>	<i>Independent project: Putative role for insulin in glucose excretion in birds.</i>	
Chair 2008-2009	Christina Smith Nutrition Program, ASU	<i>Honors Thesis: The effects of advanced glycation end products and oxidative stress in the vasculature of birds.</i>	<i>3rd place, UG poster award competition, 2009 Arizona Physiological Society conference</i>

High School Trainees Since Employment at ASU

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

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.*

<https://www.lifescitrc.org/resource.cfm?submissionID=4948>

**This was a laboratory activity that I developed and submitted to the archive for broad dissemination to faculty teaching endocrine physiology to undergraduate students.*

APS Career Resources Trading Cards – Karen Sweazea

PROFESSIONAL DEVELOPMENT IN TEACHING PEDAGOGY AND RESEARCH

- 01/28/19 What you need to know, The Disability Resource Center workshop, ASU
01/10/19 Enabling Discovery through Genomic Tools (EDGE) program Webinar, NSF
01/04/19 *Now that you know, what do you do?*, CHS Counseling Workshop for Faculty, ASU
12/11/18 Leading from where you are: Managing up, down, and sideways, CHS workshop
11/13/18 Engaging students with competitive activities TeachT@lk Webinar, ASU
11/13/18 Workday Open house workshop, ASU
11/05/18 FERPA Training, ASU
08/13/18 Fellowship Award Peer Review Training, AHA
05/23/18 Graduate Student Mental Health Workshop, ASU
04/30/18 Successful Industry Partnerships, KED, ASU
04/20/18 Annual Hazardous Waste Management course, ASU
04/20/18 Annual Biosafety and Bloodborne Pathogens course, ASU
04/20/18 Annual Fire Safety Refresher course, ASU
04/20/18 Annual Laboratory Safety Refresher course, ASU
04/10/18 Proposal Development Workshop: Layout and Graphics, KED, ASU
03/27/18 Funding Success Skills Series (fs3) workshop: Speaking to your sponsor, KED, ASU
03/13/18 Proposal Development Workshop II: Proposal Writing and Editing, KED, ASU
02/26/18 ASU Faculty Women's Association: Successful Promotion to Full workshop
02/26/18 TopHat Onboarding training session
02/15/18 TopHat Educational Platform training
01/24/18 Active Shooter Training, EH&S, ASU
01/16/18 The Basics of Planning and Executing a Successful Online Course, TeachT@lk Webinar, ASU
12/05/17 Fellowship Predoctoral and Postdoctoral Training to review applications, American Heart Association
12/04/17 Intersections: Preventing Harassment & Sexual Violence (EDU-US), ASU
05/15/17 Biosafety and Bloodborne Pathogens refresher course, ASU
05/15/17 Hazardous Waste Management refresher course, ASU
05/15/17 Fire Safety refresher course, ASU
05/15/17 Laboratory Safety refresher course, ASU
04/03/17 General Laboratory Chemical Safety Course, University of Arizona, Phoenix
03/06/17 Peer Review Grant training, American Heart Association
03/27/17 Biosafety training, University of Arizona, Phoenix
03/02/17 Bloodborne Pathogens Training, University of Arizona, Phoenix
03/02/17 Peer Review Research Grants Course, American Heart Association
03/01/17 Information Security Training, ASU
11/17/16 Behind the scenes of a successful NSF proposal, ASU
11/12/16 Mentoring in Research workshop, Sigma Xi annual conference, Atlanta, Georgia
11/11/16 Science Communication workshop, Sigma Xi annual conference, Atlanta, Georgia
10/31/16 Course Enhancement, ASU

02/16/16 Academic Motherhood lecture, ASU

01/08/16 Development and Management of Large e-Learning Courses, Rose Martin, ASU

12/17/15 Demystifying the 2016 Changes to NIH Grant Submissions, Margaret Bouvier
Medical Writing

06/08/15 ASU Connections Case Management – Health Solutions, ASU

05/05/15 Rubrics for Grading webinar, ASU

05/04/15 TurningPoint Clicker training, ASU

03/05/15 Web Conferencing Webinar, ASU

01/26/15 FERPA Training, ASU

01/27/15 Introduction to Voice Thread, ASU

10/07/14 The Challenge of Teaching Physiology in a Changing Environment: Innovation
and Resources Workshop, American Physiological Society Intersociety Meeting,
San Diego, CA

07/08/14 Creating Unique Assignments Webinar, ASU

06/24/14 Student Pulse with Polling, Summer Tech Webinar, ASU

03/26/14 Information Security Training Refresher Course, ASU

10/11/13 Checking Your Exam Settings, ASU Online webinar, ASU

10/11/13 Course Check-Up, ASU Online webinar, ASU

09/25/12 Zen and the Art of Micro and Mini Lectures, Webinar, ASU

06/29/12 At Risk, University Staff Online Course to identify and approach students in need
of psychological counseling

01/14/11 ASU Online Gradebook, Webinar, ASU

09/22/10 Learning Studio Faculty Information Session, ASU

08/16/10 Assessment Beyond Tests and Papers Webinar, ASU

08/13/10 Teaching Tune-Up: Writing Good Discussion Prompts Webinar, ASU

08/12/10 Teaching Tune-Up: Active Learning Techniques for Discussion and Peer
Teaching, ASU

08/11/10 Blackboard Groups, ASU

08/09/10 Teaching Tune-Up: Getting Students to Read Webinar, ASU

04/06/10 Designing Authentic Learning Experiences Webinar, ASU

03/25/10 Evaluation of Teaching: Student Course and Teaching Evaluations, Faculty
Forum, CONHI

03/05/10 Moving Teaching Online: Grading with Rubrics Webinar, ASU

03/02/10 Mentoring For Success Seminar, Terry Alford 2009 Outstanding Faculty Mentor,
ASU

02/26/10 Moving Teaching Online: Effective Groups Webinar, ASU

02/22/10 Faculty Cross Talks: Blending the Teaching of Ethics with the Research of Ethics,
ASU

02/19/10 Moving Teaching Online: Effective Discussion Boards Webinar, ASU

02/12/10 Moving Teaching Online: Building Community Webinar, ASU

02/05/10 Moving Teaching Online: Reframing Content: Understanding Teaching in the
Online Environment Webinar, ASU

01/14/10 ASU Information Security Training-Employees

10/21/09 Counseling and Consultation Presents: Manage Your Stress and Be Your Best
Workshop, ASU

07/15/09 Blackboard: Assignments, ASU

Spring 2008 Constructive Feedback, Developing Skills and Overcoming Barriers, UNM
 Fall 2007 Facilitator Training for Medical Student Problem Based Learning, UNM
 Summer 2007 Curriculum Development, UNM
 Fall 2006 How People Learn, UNM
 Lecturing and Making Presentations, UNM
 Multiple Choice Questions, Higher Levels of Learning, UNM

SERVICE TO PROFESSION

2018 Invited Ad hoc peer reviewer for a grant submitted to IDeA Networks of Biomedical Research Excellence (INBRE), New Mexico
 2018 Judge, poster presentations at 13th annual Western Alliance to Expand Student Opportunities (WAESO), ASU, Tempe
 2017 Invited 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.
Judged online presentations from high school students in STEM fields for this annual competition. <http://www.conradawards.org/pages/soic-challenge>
 2010 Invited 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)

2019 Reviewed Caroline tum Suden/Frances Hellebrandt Professional Opportunity Award applications
 2018 Judge, poster and oral (Scholander competition) presentations, APS Intersociety Meeting on Comparative Physiology, New Orleans, LA
 9/12/18 Participated in the Integrative and Organismal Systems Physiology Brainstorming Summit to discuss mentoring and undergraduate training in research and professional development skills, American Physiological Society
 2018 Online instructor for the American Physiological Society IOSP Professional Development Course. Topics: Career Comparisons; Ethics in Research; Writing Summer of Science Blog Entry
 2017-2019 Appointed member, Chapter Advisory Committee
 2018 Invited member, APS Subcommittee on Chapter Strategic Plan on Governance Task Force – meets four times per year (in-person and by conference call)
 2017 Online instructor for the American Physiological Society IOSP Professional Development Course: Writing a Hypothesis; Abstract reviews
 2017-pres Invited participant to contribute feedback for the APS Life Science Teaching Resource Community forum and blog

- 2017-2018 Invited member of the APS Life Science Teaching Resource Community (LifeSciTRC) Review Board; review submissions, submit teaching resources
- 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
- 2015-2017 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
- 2016-2018
- Chair, WIPC Facebook/Twitter subcommittee
 - Provided tags and descriptions of past WIPC articles online
 - Reviewed Bodil-Schmidt Neilson Distinguished Mentor and Scientist Award Applications
 - Reviewed Caroline tum Suden/Frances Hellebrandt Professional Opportunity Award applications
- 2015
- WIPC Facebook/Twitter Subcommittee/Coordinator
 - 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
- 2013-2017 Judge, IOSP Undergraduate Research Fellowship applications
- 2012-pres Official Meeting Blogger, FASEB
- 2012-2018 Advisory Board for National Science Foundation, Integrative Organismal Systems Broadening Participation program (IOSP), “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

- 2018-2019 Immediate Past-President
- 2017-2018 President
- 2017 President-Elect
- 2015, 2017 Judge, Graduate student and Postdoctoral Fellow poster presentations at the annual conference

Sigma Xi, The Scientific Research Society

- 2017-2020 Sigma Xi Committee on Qualifications and Membership
- 11/12/16 Sigma Xi Diversity Task Force, Annual meeting, Atlanta, Georgia
- 2014-2018 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 3 years only)

American Journal of Physiology - Heart and Circulatory Physiology; American Journal of Physiology – Regulatory, Integrative and Comparative Physiology; Comparative Biochemistry and Physiology; Food & Function; 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; MDPI-Antioxidants; MDPI-Nutrients; Microvascular Research; Molecular and Cellular Biochemistry; Nutrition Research; Pharmaceutical Biology; Physiological and Biochemical Zoology; PLOS ONE; The Auk: Ornithological Advances; The Journal of Nutrition

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

- 2018 Led tour of the LSA Courtyard for 6-12th grade Chief Science Officers attending the Leadership Summit at ASU
- 2018 Volunteered at UMOM, A Day of Social Outreach, ASU
- 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
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- 2011 Developed and Led a Physiology Understanding (PhUn) Week Event for 2nd graders, Kyrene de los Niños Elementary School, Tempe, AZ, 11/9
<https://www.lifescitrc.org/resource.cfm?submissionID=6719>
- 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 Judge, 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

- 2018-pres Invited member, Review committee for the Achievement Rewards for College Scientists (ARCS) fellowships, ASU Graduate College
- 2014-2019 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

2018-pres CHS Personnel Committee, Elected member

Fall 2018 SNHP Personnel Committee

Spring 2018 Reviewer, Faculty Jumpstart Grants

Spring 2018 Success Hub - Faculty

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

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

2018-pres Floor Fire Warden, LSC 5th floor, SOLS

Spring 2018 Interviewed PhD candidates for the ENS program

Spring 2018 Tenure Track Faculty Search Committee, Nutrition program

2017-pres Faculty research opportunities for students website manager, Nutrition

Fall 2016 Promotion and Tenure ad hoc committee, SNHP

8/11/16 Workshop, “Working with Honors Students” for Lecturers in Nutrition
and Health Sciences programs, SNHP

2015-2017 Annual Review Committee Member, Tenure Track Faculty, SNHP

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-Fall 2016	Coordinator, Undergraduate Seminar Series, Nutrition Program
Spring 2015	Nutrition Bylaws Revision Committee, Nutrition and Health Sciences Program
Fall 2014-present	Barrett Faculty Honors Advisor for Nutrition
Fall 2014	Personnel Advisory Committee, Nutrition Program
Fall 2014	Personnel Advisory Committee, Health Sciences Program
Spring 2014	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