

KAREN L. SWEAZEA, PhD, FAHA, FAPS

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Current as of March 11, 2026

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

2026	Faculty Dean's Fellow, <i>new</i> School of Human Performance and Lifespan Health, College of Health Solutions, ASU
2026	Co-Lead, Adapting to City Life Interdisciplinary Research Theme (IRT), Central Arizona-Phoenix Long Term Ecological Research (CAP LTER) program, ASU
2020-pres	Associate Faculty, Biodesign Center for Health through Microbiomes, ASU
2018-pres	Affiliated Faculty, Center for Evolution and Medicine, ASU
2018-pres	Investigator, Adapting to City Life Theme, Central Arizona-Phoenix Long Term Ecological Research (CAP LTER) program, ASU
2015-pres	Associate Professor and Barrett Honors Faculty, Nutrition Program, CHS, ASU
2020-2023	Program Co-Director, Exercise and Nutritional Sciences PhD Program, CHS, ASU
2020-2023	Research Principal Investigator, WOC (without compensation) appointment, Veterans Administration, Phoenix, AZ
2017-2022	Designated Campus Colleague, College of Medicine, University of Arizona, Phoenix campus, collaborating with Dr. Rayna Gonzales
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, School of Nutrition and Health Promotion, College of Health Solutions, ASU, Phoenix, AZ*
2010-2011	Assistant Professor and Barrett Honors Faculty, Nutrition 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*
2005-2008	Postdoctoral Fellow, University of New Mexico, Albuquerque, NM

**All changes in program affiliation were 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
- 2011-2020 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

- 2026 Elected Fellow, American Physiological Society
- 2025 ASU SUN Award, “Excellent mentorship of a CAP LTER REU student in conducting meaningful research this summer”
- 2025 Distinguished Service as Awards Chair for the Comparative and Evolutionary Physiology Section of the American Physiological Society (2023-2025)
- 2023 Professor of Impact Award, ASU
- 2022 ASU Sun Award
- 2022 Mentoring Award, College of Health Solutions, ASU
- 2022 Distinguished Service as Awards Chair for the Comparative and Evolutionary Physiology Section of the American Physiological Society (2019-2022)
- 2021 ASU Sun Award
- 2020 Experimental Biology and Medicine (EBM) Outstanding Reviewer Award, Society for Experimental Biology and Medicine
- 2019 Elected Fellow of the American Heart Association (FAHA), Council on Basic Cardiovascular Sciences
- 2018 Nominated, 2019 Graduate College Outstanding Faculty Mentor Award, ASU
- 2018 Nominated, 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, CHS, ASU
- 2016 Distinguished Service as Treasurer for the Comparative and Evolutionary Physiology (CEP) Section of the American Physiological Society
- 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

2022-pres	The New York Academy of Sciences (NYAS)
2018-pres	National Center for Faculty Development and Diversity (NCFDD)
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)

PUBLICATIONS

*Corresponding/Senior author; Underlined names are mentored students (†Undergraduate student; ††Graduate Student; †††Postdoctoral Fellow, §Junior high student)

A. Peer-reviewed Journal Articles

79. Deviche P*, Upah N†, Watts L††, **Sweazea K.** (*Accepted*) High level of agreement between blood glucose concentrations measured with the AlphaTrak 3 point-of-care glucometer and by colorimetry in a psittacine (rosy-faced lovebird, *Agapornis roseicollis*), but not in a passerine (house finch, *Haemorhous mexicanus*). *Journal of Avian Medicine and Surgery*.
78. McCluney KE*, Deviche P*, **Sweazea KL***, Carlen EJ, Clark (Brown) JAG, Grade A, Haight JD, Niesner C, Trego S, Weiss KCB. (2026) An integrated social-ecological-evolutionary-phenotypic (SEEP) approach to understanding animal responses to urbanization. *Biological Reviews*. 101: 419-436. DOI: 10.1111/brv.70088
77. Lockett R††, Figueiredo de Sousa M††, Nicoluzakis KA§, Cease A, **Sweazea KL***. (2025) Urban substrates alter the nutritional composition of an emerging model insect, *Tenebrio molitor*. *Journal of Insect Physiology*. 166: 104892. DOI: 10.1016/j.jinsphys.2025.104892
76. Domer A†††, Misraje TR, Xing D, Arango BG, Selleghin-Veiga G, Corl A, Bowie RCK, McGuire JA, **Sweazea KL**, Vázquez-Medina JP, Dudley R (2025). Myo-inositol is a key regulator of avian metabolism: From mechanisms to seasonal behavior. *Science Advances*. 11(36): eadv2794. DOI: 10.1126/sciadv.adv2794
75. Deviche P*, **Sweazea K**, Upah N†. (2025) Adjustments to energy provisioning and oxidative balance in response to temperature in a wild passerine. *Comparative Biochemistry and Physiology, A*. 305: 111864. DOI: 10.1016/j.cbpa.2025.111864
74. Kapsetaki SE†††*, Basile AJ††, Compton Z, Rupp SM, Duke EG, Boddy AM, Harrison TM, **Sweazea KL#**, Maley C#. (2025) The relationship between diet, plasma glucose, and cancer prevalence across vertebrates. #Co-senior authors. *Nature Communications*. 16(1): 2271. DOI: 10.1038/s41467-025-57344-1
73. Figueiredo de Sousa M††*, Ling J††, **Sweazea KL***. (2025) Examination of a novel dietary fiber formulation on morphology and nutritional physiology of young male Sprague-Dawley rats fed a high fat diet. *PeerJ*. 13: e19029. DOI: 10.7717/peerj.19029
72. Basile A††*, Noshirwani N†, **Sweazea KL***. (2025) Eighty-five percent of menu items from the six highest-selling fast-food restaurants in the United States are ultra-processed. *Public Health Nutrition*. 30: 1-15. DOI: 10.1017/S1368980025000060

71. Basile AJ††*, Ruiz-Tejada A††, Stanley S††, Mohr AE††, Hjelm E†, **Sweazea KL***. (2024) Minimally processed foods have a higher total antioxidant content compared to processed and ultra-processed foods: Results from an analysis of 1,946 food items. *British Journal of Nutrition*. 132(12): 1555-1561. DOI: 10.1017/S0007114524002800
70. Basile AJ††*, Ruiz-Tejada A††, Mohr AE††, Morales AC†, Hjelm E†, Brand-Miller JC, Atkinson FS, **Sweazea KL***. (2024) Food processing according to the NOVA Classification is not associated with glycemic index and glycemic load: Results from an analysis of 1,995 food items. *American Journal of Clinical Nutrition*. 120(5): 1037-1042. *Co-corresponding author. DOI: 10.1016/j.ajcnut.2024.08.024
69. Mohr AE††, **Sweazea KL#**, Bowes DA, Jasbi P, Whisner CM, Sears D, Krajmalnik-Brown R, Gu H, Klein-Seetharaman J, Arciero KM, Gumpricht E#, Arciero PJ#*. (2024) Gut microbiome remodeling and metabolomic profile in response to intermittent fasting with protein pacing versus continuous caloric restriction. *Nature Communications*. 15(1): 4155. #Co-senior authors. DOI: 10.1038/s41467-024-48355-5
68. Basile AJ††, Kreisler A†, Hassen R†, Singh K†, Symes M†, Larson G†, Figueiredo de Sousa M††, **Sweazea KL***. (2024) Acute metformin induces hyperglycemia in healthy adult mourning doves, *Zenaida macroura*. *Comparative Biochemistry and Physiology A*. 291: 111594. DOI: 10.1016/j.cbpa.2024.111594
67. Arciero P*, Poe M, Mohr AE††, Ives SJ, Arciero A, **Sweazea K**, Gumpricht E, Arciero KM. (2023) Intermittent fasting and protein pacing are superior to calorie restriction for weight and visceral fat loss. *Obesity*. 31:139-149, 2023. DOI: 10.1002/oby.23660
66. Deviche P*, **Sweazea KL***, Angelier F*. (2023) Past and future: Urbanization and the avian endocrine system. *General and Comparative Endocrinology*. 332: 114159, 2023. *Co-senior authors with equal contributions. DOI: 10.1016/j.ygcen.2022.114159
65. Mohr AE††*, Jasbi P††, Bowes DA, Dirks B, Whisner CM, Arciero KM, Poe M, Gu H, Gumpricht E, **Sweazea KL**, Arciero P*. (2022) Exploratory analysis of one versus two-day intermittent fasting protocols on the gut microbiome and plasma metabolome in adults with overweight/obesity. *Frontiers in Nutrition*. 9: 1036080. *Co-Corresponding Authors DOI: 10.3389/fnut.2022.1036080
64. Brown J†††*, Basile A††, Bateman H, Lerman S, Warren P, Deviche P, **Sweazea KL***. (2022) No fry zones: How restaurant distribution and abundance influence avian communities. *PLOS ONE*. 17(10): e0269334. DOI: 10.1371/journal.pone.0269334
63. Mohr AE††*, Basile A††, **Sweazea KL***. (2022) An urban diet differentially alters the gut microbiome and metabolomic profiles compared to a seed diet in mourning doves. *American Journal of Physiology – Regulatory, Integrative, and Comparative Physiology*. 323(4):R385-R396. DOI: 10.1152/ajpregu.00323.2021
62. Basile A††, Singh K†, Watson D††, **Sweazea KL***. (2022) *Comparative Models in Biomedical Research* special issue: Effect of macronutrient and micronutrient manipulation on avian blood glucose concentration: A systematic review. *Comparative Biochemistry and Physiology A*. 272: 111279. DOI: 10.1016/j.cbpa.2022.111279
61. **Sweazea KL***. (2022) Invited review for the *Comparative Models in Biomedical Research* special issue: Revisiting glucose regulation in birds – A negative model of diabetes complications. *Comparative Biochemistry and Physiology B*. 262: 110778. DOI: 10.1016/j.cbpb.2022.110778
60. Jain R†, Bolch C, Al-Nakkash L, **Sweazea KL***. (2022) Systematic review of the impact of genistein on diabetes related outcomes. *American Journal of Physiology – Regulatory,*

- Integrative and Comparative Physiology.* 323(3):R279-R288. DOI: 10.1152/ajpregu.00236.2021
59. Mohr AE††, Crawford M†††, Jasbi P††, Fessler S††, **Sweazea KL***. (2022) Lipopolysaccharide and the gut microbiota: Considering structural variation. *FEBS Letters.* 596(7): 849-875. DOI: 10.1002/1873-3468.14328
 58. Mohr AE††, McEvoy C†, Sears DD, Arciero PJ, **Sweazea KL***. (2021) Impact of intermittent fasting regimens on circulating markers of oxidative stress in overweight and obese humans: A systematic review of randomized controlled trials. *Advances in Redox Research.* 3: 100026. DOI: 10.1016/j.arres.2021.100026
 57. Mahnam K*, Shakhshi-Niaei M, Ziaei M, **Sweazea K.** (2021) In silico evaluation of the downstream effect of mutated glucagon is consistent with higher blood glucose homeostasis in Galliformes and Strigiformes. *General and Comparative Endocrinology.* 314(1): 113925. DOI: 10.1016/j.ygcen.2021.113925
 56. Mohr AE††, Reiss RA, Beaudet M†, Sena J, Naik JS, Walker BR, **Sweazea KL***. (2021) Short-term high fat diet alters genes associated with metabolic and vascular dysfunction during adolescence in rats: A pilot study. *PeerJ.* 9:e11714. DOI: 10.7717/peerj.11714
 55. Basile A††, Renner M†, Kayata L†, Deviche P, **Sweazea KL***. (2021) A four-week urban diet impairs vasodilation but not nutritional physiology in wild-caught mourning doves (*Zenaida macroura*). *Physiological Biochemical Zoology.* 94(4): 241-252. DOI: 10.1086/714831
 54. Basile A††, Kirkton S, Hedrick M, Carey H, **Sweazea KL***. (2021) Defining comparative physiology: Results from a cross-sectional survey of physiologists and systematic review. *American Journal of Physiology – Regulatory, Integrative and Comparative Physiology.* 320(6): R938-944. DOI: 10.1152/ajpregu.00220.2020
 53. Mohr AE††, Gumprich E, Sears DD, **Sweazea KL***. (2021) Recent advances and health implications of dietary fasting regimes on the gut microbiome. *American Journal of Physiology – Gastrointestinal and Liver Physiology.* 320(5): G847-G863. DOI: 10.1152/ajpgi.00475.2020
 52. Basile AJ††, Renner MW†, Hidaka BH, **Sweazea KL***. (2021) An evolutionary mismatch narrative to improve lifestyle medicine: A patient education hypothesis. *Evolution, Medicine, & Public Health.* 9(1): 157-163. DOI: 10.1093/emph/eoab010
 51. Basile A††, Mohr AE††, Jasbi P††, Gu H, Deviche P, **Sweazea KL***. (2021) A four-week high fat diet does not alter plasma glucose or metabolic physiology in wild-caught mourning doves (*Zenaida macroura*). *Comparative Biochemistry and Physiology Part A.* 251: 110820. DOI: 10.1016/j.cbpa.2020.110820
 50. Crawford M††, Mohr AE††, **Sweazea KL***. (2020) Novel organic mineral complex prevents high-fat diet-induced changes in the gut and liver of male Sprague-Dawley rats. *Journal of Nutrition and Metabolism.* 2020: Article ID: 8846401. DOI: 10.1155/2020/8846401
 49. Anthony C††, Wilson A††, **Sweazea KL***, Braun EJ. (2020) Fewer exposed lysine residues may explain relative resistance of chicken serum albumin to *in vitro* protein glycation in comparison to bovine serum albumin. *Journal of Molecular Evolution.* 88(8): 653-661, 2020. DOI: 10.1007/s00239-020-09964-y
 48. Basile AJ††, Jasbi P††, Clark W†, Shi X††, Gu H, Deviche P, **Sweazea KL***. (2020) A four-week white bread diet does not alter plasma glucose concentrations, metabolic or vascular physiology in mourning doves, *Zenaida macroura*. *Comparative Biochemistry and Physiology, Part A.* 247:110718. DOI: 10.1016/j.cbpa.2020.110718

47. Funk A†, Hutton P††, Earl S, Deviche P, **Sweazea KL***. (2020) Levels of land use and land cover in Phoenix, Arizona are associated with elevated plasma triglycerides in the Gambel's quail, *Callipepla gambelii*. *Comparative Biochemistry and Physiology, Part A*. 247:110730. DOI: 10.1016/j.cbpa.2020.110730
46. **Sweazea KL***, Tsosie K††, Beckman EJ, Benham PM, Witt CC. (2020) Seasonal and elevational variation in glucose and glycogen in two songbird species. *Comparative Biochemistry and Physiology, Part A*. 245:110703. DOI: 10.1016/j.cbpa.2020.110703
45. Mohr AE††, Mayra ST††, Gnant L, Basile AJ††, **Sweazea KL#**. (2020) Nutrition and dietetic students' knowledge and attitudes regarding food science and technology. *Journal of Food Science Education*. 2020: 1-13. DOI: 10.1111/1541-4329.12184
44. Mohr AE††, Basile AJ††, Crawford MS††, **Sweazea KL**, Carpenter KC*. (2020) Probiotic supplementation has a limited effect on circulating immune and inflammatory markers in healthy adults: A systematic review of randomized controlled trials. *Journal of the Academy of Nutrition and Dietetics*. 120(4): 548-564. DOI: 10.1016/j.jand.2019.08.018
43. Gadau A†, Crawford M††, Mayek R†, Giraudeau M†††, McGraw KJ, Whisner CM, Kondrat-Smith C, **Sweazea KL***. (2019) A comparison of the nutritional physiology and gut microbiome of urban and rural house sparrows (*Passer domesticus*). *Comparative Biochemistry and Physiology – B*. 237: 110332. DOI: 10.1016/j.cbpb.2019.110332
42. Crawford MS††, Gumprich E, **Sweazea KL***. (2019) A novel organic mineral complex prevented high fat diet-induced hyperglycemia, endotoxemia, liver injury and endothelial dysfunction in young male Sprague-Dawley rats. *PLOS ONE*. 14(8): e0221392. DOI: 10.1371/journal.pone.0221392
41. Mayra S††, Johnston CS*, **Sweazea KL**. (2019) High-nitrate salad increased plasma nitrates/nitrites and brachial artery flow-mediated dilation in postmenopausal women: a pilot study. *Nutrition Research*. 65: 99-104. DOI: 10.1016/j.nutres.2019.02.001
40. Crawford M††, Whisner C, Al-Nakkash L, **Sweazea KL***. (2019) Six-week high fat diet alters the gut microbiome and promotes cecal inflammation, endotoxin production and simple steatosis without obesity in male rats. *Lipids*. 54: 119-131. DOI: 10.1002/lipd.12131
39. Mohr AE††, Girard M††, Rowe M††, McGraw KJ, **Sweazea KL***. (2019) Varied effects of dietary carotenoid supplementation on oxidized lipoproteins in tissues of two waterfowl species. *Comparative Biochemistry and Physiology – B*. 231: 67-74. DOI: 10.1016/j.cbpb.2019.02.003
38. **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. DOI: 10.1155/2018/1729653
37. 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. DOI: 10.14674/IJFS-703
36. 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. DOI: 10.1016/j.jff.2017.10.010

35. 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. DOI: 10.1016/j.cbpb.2017.05.004
34. **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. DOI: 10.1016/j.zool.2017.02.006
33. 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 Food*. 20(5): 448-457. DOI: 10.1089/jmf.2016.0065.
32. 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. DOI: 10.1016/j.obmed.2017.01.002
31. Zuck J††, Borges C, Braun EJ, **Sweazea KL***. (2017) Chicken albumin exhibits natural resistance to glycation. *Comparative Biochemistry and Physiology-B*. 203: 108-114. DOI: 10.1016/j.cbpb.2016.10.003.
30. **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. DOI: 10.1080/19390211.2016.1207742.
29. 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. DOI: 10.1016/j.cbpa.2016.07.010
28. 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. DOI: 10.1152/jappphysiol.00024.2016
27. 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. DOI: 10.1016/j.nutres.2016.03.011.
26. **Sweazea KL***. (2015) Serving Our Society. *The Physiologist*. 58(4): 181-182. PMID: 26434155.
25. **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. DOI: 10.1016/j.zool.2015.07.001
24. 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. DOI: 10.1155/2015/157520.
23. **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. DOI: 10.1016/j.jff.2014.06.024

22. **Sweazea KL***, McMurtry JP, Elsey RM, Redig P, Braun EJ. (2014) Comparison of metabolic substrates in alligators and several birds of prey. *Zoology*. 117(4): 253-260. DOI: 10.1016/j.zool.2014.04.002
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.
20. 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. DOI: 10.1016/j.cbpa.2013.07.014
19. 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. DOI: 10.1007/s00360-013-0757-0
18. **Sweazea KL***, Braun EJ. (2013) Reciprocal inhibition of *in vitro* substrate movement into avian skeletal muscle. *Zoology (Jena)*. 116(2): 85-89. DOI: 10.1016/j.zool.2012.10.002
17. 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. DOI: 10.1086/667990
16. 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. DOI: 10.1242/jeb.071043
15. Kuzmiak S††, Glancy B†††, **Sweazea KL**, Willis WT*. (2012) Mitochondrial function in sparrow pectoralis muscle. *Journal of Experimental Biology*. 215: 2039-2050. DOI: 10.1242/jeb.065094.
14. **Sweazea KL*** and Walker BR. (2012) Impaired myogenic tone in mesenteric arteries from overweight rats. *Nutrition and Metabolism*. 9(1): 18-26. DOI: 10.1186/1743-7075-9-18
13. 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. DOI: 10.1086/662068
12. 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*. 114: 171-176. DOI: 10.1016/j.zool.2010.12.001
11. 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. DOI: 10.1152/advan.00118.2010
10. **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. DOI: 10.1055/s-0031-1273763
9. **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. DOI: 10.1159/000320322

8. Sweazea KL*, Lekic M†, Walker BR. (2010) Comparison of mechanisms involved in impaired vascular reactivity between high sucrose and high fat diets in rats. *Nutrition and Metabolism*. 7: 48. DOI: 10.1186/1743-7075-7-48
7. Sweazea KL, Walker BR*. (2009) Antioxidant and vasodilatory effects of heme oxygenase on mesenteric vasoreactivity following chronic hypoxia. *Microcirculation*. 16(2): 131-141. DOI: 10.1080/10739680802342077
*Image from this article was featured on the journal's cover page from April-August 2009.
6. Braun EJ*, Sweazea KL. (2008) Invited review: Glucose regulation in birds. *Comparative Biochemistry and Physiology*. 151B: 1-9. DOI: 10.1016/j.cbpb.2008.05.007
5. 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. DOI: 10.1016/j.cbpb.2006.04.009
4. Sweazea KL, Braun EJ*. (2006) Glucose transporter expression in English sparrows (*Passer domesticus*). *Comparative Biochemistry and Physiology*. 144B(3): 263-270. DOI: 10.1016/j.cbpb.2005.12.027
3. Sweazea KL, Braun EJ*. (2006) Oleic acid uptake by *in vitro* English sparrow skeletal muscle. *Journal of Experimental Zoology*. 305A(3): 268-276. DOI: 10.1002/jez.a.262
2. Marquez JM†, Sweazea KL, Braun EJ*. (2006) Skeletal muscle fiber composition of English sparrow (*Passer domesticus*). *Comparative Biochemistry and Physiology*. 143B: 126-131. DOI: 10.1016/j.cbpb.2005.10.011
1. 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 A Comp Exp Biol*. 303: 143-153. DOI: 10.1002/jez.a.131

B. Invited Editorials

2. Angelier F, Bedecarrats GY, Cassone VM, Deviche PJ, Rozenboim I, Singh D, Sweazea K, Scanes CG. (In Review) Environmental challenges from global warming/Climate change, urbanization and pollution to wild birds and poultry. *Frontiers in Physiology*.
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

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 Teaching/Mentoring Articles

3. Sweazea KL*. (3/18/20) Involving students in the teaching experience. *Physiology Education Community of Practice (PECOP) blog. LifeScience Teaching Resource Community (LifeSci TRC)*.
<https://blog.lifescitrc.org/pecop/2020/03/18/involving-students-in-the-teaching-experience/>
2. Sweazea KL*. (7/25/19) Taking the road most traveled: Finding faculty positions in academia and knowing what to expect. *LifeScience Teaching Resource Community (LifeSci TRC) Mentoring Forum*.
<https://blog.lifescitrc.org/mentoringforum/2019/07/25/taking-the-road-most-traveled-finding-faculty-positions-in-academia-and-knowing-what-to-expect/>

1. **Sweazea KL.** (2011) Glucose Tolerance Test for Endocrine Labs. *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.*

E. 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.

F. Other Publications

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

RESEARCH DISSEMINATION

A. INVITED SEMINARS

International

- Sep 2023 Atkinson F, Basile AJ††, Tajeda AR, Mohr A††, Morales A†, Hjelm E†, Brand-Miller J, Sweazea KL*. “Glycemic Index and Ultra-Processed Foods: Results from Large-scale Analysis Using NOVA Classification,” 5th International Carbohydrate Quality Consortium (ICQC) Meeting, Catania, Italy.
- May 2023 **Sweazea K***, Basile A††, Kreisler A†, Hassen R†, Singh K†, Symes M†, Larson G†, Figueiredo de Sousa M††. “Acute metformin induces hyperglycemia in healthy adult mourning doves, *Zenaida macroura*.” North American Society for Comparative Endocrinology (NASCE), Queretaro, Mexico.
- May 2021 **Deviche P***, **Sweazea KL***. “Past and future: The impact of urbanization on avian physiology”, 6th Biennial North American Society for Comparative Endocrinology (NASCE) international conference
- May 2021 **Basile A**††, Renner MW†, Kayata L†, Mohr AE††, Deviche P, **Sweazea KL***. “A four-week urban diet impairs vasodilation but not nutritional or metabolic physiology in wild-caught mourning doves (*Zenaida macroura*)”, 6th Biennial NASCE international conference.
- Jul 2020 **Sweazea KL***. *Lipids* Invited Seminar: “Implications of short-term high-fat intake on gut, liver, and cardiovascular health of adolescent male rats” 2020 AOCS Annual Meeting and Expo, Expo in Montréal, Quebec, Canada *In person meeting cancelled because of COVID-19; Virtual presentation

National

- Jun 2025 McCluney KA, Deviche P, **Sweazea K**, Carlen EJ, Clark (Brown) JAG, Grade A, Haight JD, Niesner CA, Schell CJ, Weiss K. “An integrated social-ecological-evolutionary-phenotypic approach to understanding animal responses to urbanization,” International Urban Wildlife Conference, Atlanta, GA.

- Apr 2023 **Sweazea KL***. “Glucose regulation in mammals and other vertebrates”, American Physiology Summit (American Physiological Society), Long Beach, CA.
- Jun 2022 **Basile A††**, Ruiz-Tejada A††, **Mohr AE††**, **Morales AC†**, **Hjelm E†**, Brand-Miller J, Atkinson F, Sweazea KL*. “Ultra-processed foods have a lower glycemic index and load compared to minimally processed foods”, Nutrition 2022 Live Online conference sponsored by the American Society for Nutrition.
- Apr 2019 **Sweazea KL***. “The road most traveled: The academic career path”, Microhub, Career Central, Experimental Biology conference, Orlando, FL
- Apr 2019 **Crawford M††**, Sweazea KL*. “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.
- Apr 2017 **Sweazea KL***. “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>
- May 2016 **Sweazea KL***. “Avian vascular physiology”, Vascular Physiology Group, Department of Cell Biology and Physiology, University of New Mexico, Albuquerque, NM
- Apr 2016 **Sweazea KL***. “Preliminary examination of a role for insulin in the regulation of glucose excretion in mourning doves (*Zenaid macroura*),” 2016 Experimental Biology conference, San Diego, CA.
- Feb 2015 **Sweazea KL***. “Exploration of apparent resistance to hyperglycemia-related pathologies in birds,” Brasel Basic Science Seminar, Harbor-UCLA Medical Center.
- April 2014 **Sweazea KL***. “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.
- August 2010 **Sweazea KL***. “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.
- April 2007 **Sweazea KL***. “Diet-induced Vascular Dysfunction,” Featured Topics Session, Experimental Biology Conference, Washington, DC.

Local/State

- Oct 4, 2024 **Sweazea KL***. “Blood glucose regulation in vertebrates: Unique solutions for glucose regulation and insulin resistance”, Biomimicry in Medicine conference, Phoenix, AZ
- June 2022 **Sweazea KL***. “Healthy Mind, Healthy Body”, Keynote speaker for Arizona Hellenic Foundation’s Scholarship luncheon, Tempe, AZ

- Feb 2020 **Sweazea KL***. “Comparative Analysis of Glucose and Diabetes”, Mayo Clinic Selective Seminar, ASU, Tempe campus
- Jan 2020 **Sweazea KL***. “Potential influence of diet on urban birds”, Adapting to City Life Symposium, All Scientists Meeting, CAP-LTER Program, Scottsdale, AZ
- Mar 2019 Invited Faculty Panelist, *Discussion on Mentoring*, GPSA Mentoring and Well-being Summit, ASU
- Mar 2018 Invited Panelist for “Preparing and Presenting Research Posters”, SOLUR Seminar program, ASU
- 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
- Nov 2015 **Sweazea KL***. “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
- Oct 2014 **Sweazea KL***. “Understanding Diabetes through Animal Models,” Nutrition Undergraduate Research Colloquium, ASU.
- Feb 2014 **Sweazea KL***. “Using Comparative Physiology Approaches to Identify Novel Mechanisms of Coping with High Blood Sugar,” Biological Design Proseminar, ASU.
- Nov 2013 **Sweazea KL***. “A Comparison of Oxidative Stress-induced Endothelial Dysfunction in Rats and Birds,” Midwestern University, Glendale, AZ.
- Nov 2013 **Sweazea KL***. “Understanding Aging through Comparative Physiology,” The Imagination Project, Center for Science and the Imagination, ASU.
- Nov 2013 **Sweazea KL***. “Downregulation of the Vascular Insulin Signaling Pathway May Contribute to Hyperglycemia Following High Fat Intake,” Arizona Physiological Society Conference, Phoenix, Arizona.
- Oct 2013 **Sweazea KL***. “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 **Sweazea KL***. “Oxidative Stress-mediated Vascular Dysfunction in Rats and Birds,” School of Nutrition and Health Promotion, ASU.
- March 2012 **Sweazea KL***. “Oxidative Stress-mediated Vascular Dysfunction,” College of Medicine Phoenix, Department of Basic Medical Sciences Seminar, The University of Arizona.
- Feb 2012 **Sweazea KL***. Seminar on diabetes and health for the American Hellenic Educational Progressive Association (AHEPA), Chandler, AZ.
- May 2009 **Sweazea KL***. “Substrate Utilization by Birds and the Role of Oxidative Stress and Adipokines in Vascular Reactivity,” School of Life Sciences, ASU Tempe.
- April 2009 **Sweazea KL***. “Diet-Induced Vascular Dysfunction,” Department of Kinesiology, ASU Tempe.
- October 2008 **Sweazea KL***. “Birds Are Not Just Rats with Wings: A Comparison of Substrate Utilization,” Idea Networks of Biomedical Research Excellence Seminar, New Mexico Tech, Socorro, NM.

Fall 2004 **Sweazea KL***. “Avian Diabetes,” University of Arizona, Desert Botanical Gardens, Physiology presentation, Tucson, AZ.

B. CHAIRED CONFERENCE SYMPOSIA

International

- 2023 Co-Chair, Nothing to Stress About: Endocrine and Oxidative Responses to Diet, North American Society of Comparative Endocrinology (NASCE) 7th biennial conference, Queretero, Mexico.
- 2022 Co-Chair, Uniqueness of Avian Glucose Regulation and Tolerance, International Symposium on Avian Endocrinology (ISAE) conference, Edinburgh, Scotland.
- 2021 Co-Chair, Avian Endocrine and Metabolic Responses to Urbanization, North American Society of Comparative Endocrinology (NASCE) 6th biennial conference, Virtual due to Covid-19.

National

- 2025 Co-Chair, Comparative and Evolutionary Physiology Trainee Lightning Talks, 2025 American Physiological Society conference, Baltimore, MD.
- 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.
- 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.
- 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.

Local/State

- 2023 Co-Chair, *Cardiovascular Health and Beyond* Symposium, Arizona Physiological Society Conference, Glendale, AZ
- 2017 Chair, Comparative Physiology Session, Arizona Physiological Society Conference, Flagstaff, AZ
- 2015 Chair, Science Panel, Jumpstarting STEM Careers conference, Central Arizona chapter of the Association for Women in Science, Tempe, AZ (Jan 15)
- 2011 Session Co-Organizer, “Teaching Strategies,” Forward to Professorship Workshop, Arizona State University, Tempe, AZ.

C. POSTER PRESENTATIONS

165. Basile AJ*, Zuch L†, **Sweazea KL**. (2026) Ninety-six percent of menu items from five US full-service restaurant chains are ultra-processed. New York State Academy of Nutrition and Dietetics Annual Meeting and Expo.
164. **Sweazea KL***. (2026) Impact of blood collection site (venous v cardiac) on glucose and uric acid measurements in wild-caught mourning doves, *Zenaida macroura*. American Physiology Summit, Minneapolis, MN.
163. Moise A†, Flores AP†, Gibson M†, Larson G†, Nicoluzakis K§, **Sweazea KL***. (2026) Effects of urbanization and season on avian food preferences. CAP LTER All Scientists Meeting and Poster Symposium, Scottsdale, AZ.
162. Zuch L†, **Sweazea KL**, Basile AJ. (2025) Ninety-Six Percent of Menu Items from Five U.S. Full-service Restaurant Chains are Ultra-processed. Arizona Physiological Society conference, Phoenix, AZ.
161. Gumprich E, Mohr AE, **Sweazea KL**, Moosbrugger J, Markwood W, Arciero PJ*. (2025) Intermittent fasting and protein pacing adherence maintains 100 point weight loss for two years: A case study. Nutrition 2025 conference, Orlando, FL.
160. Symes M††, Domer A†††, **Sweazea K***. Oral myo-inositol decreased gastrocnemius muscle glucose in European starlings (*Sturnus vulgaris*) with higher body mass but does not induce hypoglycemia. 2025 American Physiology Summit, Baltimore, MD.
159. Domer A†††, **Sweazea KL**, Vazquez-Medina JP*. Myo-inositol is a key regulator of hummingbird fuel selection. 2025 American Physiology Summit, Baltimore, MD.
158. Sapariya K††, Chee C†, Wellington O†, Al-Nakkash L, **Sweazea KL***. (2025) Comparative analysis of genistein and treadmill exercise interventions on high-fat high-sucrose diet-induced oxidative stress and vascular dysfunction in male mice. 2025 American Physiology Summit, Baltimore, MD.
157. Figueiredo de Sousa M††, Ling J††, Asquieri ER., Whisner C, **Sweazea KL***. (2024) Examination of a novel dietary fiber formulation on morphology of young male Sprague-Dawley rats. 21st Midwest Congress on Production, Innovation and Food Safety, Goiânia, Brazil.
156. Wilkening JL, **Sweazea K**, Whipple A, Ray C*. (2024) Investigating measures of thermal stress in a climate sensitive mammal. North American Pika Consortium, Boulder, CO.
155. Lockett R††, Figueiredo de Sousa M††, **Sweazea KL***. Impact of urban diets on the nutritional physiology of mealworms. 2024 American Physiology Summit, Long Beach, CA.
154. **Sweazea KL***. (2023) Super birds: The majority of avian blood metabolites are not altered by urban environments. 2023 British Ornithologists' Union, Nottingham, UK.
153. Gumprich E, Mohr AE††, **Sweazea KL**, Arciero PJ*. (2023) Multimodal intermittent fasting regimen with protein pacing shifts plasma metabolome, reflective of increased fat mobilization and macronutrient metabolism. Nutrition 2023, American Society for Nutrition, Boston, MA.
152. Lockett R††, Figueiredo de Sousa M††, **Sweazea KL***. (2023) Impact of urban diets on the nutritional physiology of mealworms. 2023 Arizona Physiological Society, Glendale, AZ.
151. **Sweazea KL***, Basile AJ††, Kreisler AG†, Singh KC†. (2022) Low dose of metformin increases blood glucose in mourning doves, *Zenaida macroura*. 2022 APS Intersociety

Meeting: Comparative Physiology – From Organisms to Omics in an Uncertain World, San Diego, CA.

150. Mohr AE††, **Sweazea KL***, (2022) Curbing high-fat induced perturbations in aortic perivascular adipose tissue in adolescent male Sprague-Dawley rats: Soil as therapy? 2022 Experimental Biology conference, Philadelphia.
149. Basile AJ††, Noshirwani N†, **Sweazea KL***. (2022) Ultra-processed foods: A fast-food restaurant menu and ingredient analysis. Arizona Academy of Nutrition and Dietetics (AZAND) annual meeting. Phoenix, AZ.
148. Noshirwani N†, Basile AJ††, **Sweazea KL***. (2022) Ultra-processed foods and fast-food restaurants: A menu and ingredient analysis. School of Life Sciences 29th Annual Undergraduate Research Symposium, 4/22/22.
147. Kreisler AG†, Basile A††, **Sweazea KL***. (2022) The majority of avian blood metabolites are not altered in urban environments: Results from a systematic review. CAP LTER All Scientists Meeting.
146. Weigand B††, Tasevska N*, **Sweazea K**, Lee C, Palma-Duran SA. (2021) Association of dietary sugars with serum advanced glycation end products in a controlled feeding study. Nutrition Live online. American Society of Nutrition annual conference.
145. Stanley S††, Basile A††, Ruiz-Tejada A, Hjelm E†, **Sweazea K***. (2021) Effect of food processing on total antioxidant capacity. Nutrition Live Online. American Society of Nutrition annual conference.
144. Jain R†, Al-Nakkash L, Bolch C, **Sweazea KL***. (2021) Evaluation of the relationship between genistein intake and diabetes and cardiovascular outcomes using 2009-2010 data from the National Health and Nutrition Examination Survey. Experimental Biology conference. *FASEB J.* 35.
143. Basile AJ††, Renner M†, Kayata L†, Deviche P, **Sweazea KL***. (2021) A four-week urban diet impairs vasodilation but not nutritional physiology in wild-caught mourning doves (*Zenaida macroura*). Experimental Biology conference. *FASEB J.* 35.
142. Mohr AE††, Basile AJ††, **Sweazea KL***. (2021) Differential impact of urban vs rural diets on gut microbiome composition and circulating endotoxin in mourning doves. Experimental Biology conference. *FASEB J.* 35.
141. **Sweazea KL***. (2021) A comparative approach towards improving glucose regulation and cardiovascular health. CHS Virtual Research Day.
140. Basile AJ††, Kreisler AG†, **Sweazea KL***. (2021) The majority of avian blood metabolites are not altered in urban birds: Results from a systematic review. Arizona Physiological Society annual conference, Glendale, AZ.
139. Morales AC†, Basile AJ††, Ruiz-Tejada††, Hjelm E†, Mohr AE††, Brand-Miller J, Atkinson F, **Sweazea KL***. (2021) Ultra-processed foods have a lower glycemic index and load compared to minimally processed foods. Arizona Physiological Society annual conference, Glendale, AZ.
138. Singh KC†, Basile AJ††, Watson DF†††, **Sweazea KL***. (2021) Effect of macronutrient and micronutrient manipulation on avian blood glucose concentration: A systematic review. Arizona Physiological Society annual conference, Glendale, AZ.
137. Hjelm E†, Stanley E††, Basile A††, Ruiz-Tejada A††, **Sweazea KL***. (2021) Effect of food processing on total antioxidant capacity. School of Life Sciences Undergraduate Research Symposium.

136. Singh K†, Basile AJ††, **Sweazea KL***. (2021) A systematic review of the effects of macronutrient manipulation on avian blood glucose concentration. School of Life Sciences Undergraduate Research Symposium.
135. Etebari S, Brownell S*, Grunspan D, Basile A††, Bethancourt H, **Sweazea K**. (2020) Beyond misconceptions: naïve ideas about human evolution and diet among nutrition students. Society for the Advancement of Biology Education Research conference. Virtual meeting due to Covid-19.
134. Brown JA†††, Basile A††, Bateman H, Lerman S, Warren P, Deviche P, **Sweazea KL***. (2020) No fry zones: Birds response to restaurant distributions in Phoenix Metropolitan area. North American Congress on Conservation Biology, Denver, CO.
133. Basile AJ††, Renner M†, Scillian J††, **Sweazea KL***. (2020) Restricting calories on low-carbohydrate vs low-fat diets for weight loss: A systematic review and meta-analysis. American Society for Nutrition annual conference, Seattle, WA.
132. Mohr AE††, Reiss RA, Sena J, Naik JS, Walker BR, **Sweazea KL***. (2020) A gene expression profile of metabolic dysfunction in the aorta following a short-term high fat diet. Experimental Biology conference, San Diego, CA. *FASEB J.* 34: 1-1.
131. Basile AJ††, Kirkton S, Hedrick MS, **Sweazea KL***. (2020) Modern Comparative Physiology: Under Krogh's Umbrella. Experimental Biology conference, San Diego, CA. *FASEB J.* 34: 1-1.
130. Numani A†, Mishra S†, **Sweazea K**, Davis MC, Lindblade CL, Plasencia JD*. (2020) Characterization of normal fetal heart size and function during mid and late *in utero* development. Arizona Physiological Society Conference.
129. Basile AJ††, Renner M†, Kayata L†, Deviche P, **Sweazea KL***. (2020) A four-week urban diet does not alter nutritional physiology in wild-caught mourning doves (*Zenaida macroura*). Arizona Physiological Society Conference.
128. Renner M†, Basile AJ††, Deviche P, **Sweazea KL***. (2020) An urban diet impairs tibial vasodilation in mourning doves (*Zenaida macroura*). Arizona Physiological Society Conference.
127. Eghrari NB†, Wendt TS, Beer YB, **Sweazea KL**, Gonzales RJ*. (2020) Novel sphingosine-1-phosphate receptor ligand improves human brain endothelial cell viability following hypoxia plus glucose deprivation. ASU BioSci Southwest Symposium.
126. So M, Bartel R†, Tat T, **Sweazea K**, Gonzales RJ*. (2020) Doxorubicin dose dependently altered cyclooxygenase-2 levels in primary human vascular smooth muscle cells. ABRC-Flinn Foundation Research Conference, Phoenix, AZ.
125. Funk A†, Hutton P, Earl SR, Deviche P, **Sweazea KL***. (2020) Effects of urbanization on morphology and nutritional physiology of Gambel's quail, *Callipepla gambelii*. CAP LTER All Scientists Meeting and Poster Symposium, Tempe, AZ.
124. Brown JA†††, Basile A††, Bateman H, Lerman S, Warren P, **Sweazea KL***. (2020) No fry zones: Birds response to restaurant distributions in Phoenix Metropolitan area. CAP LTER All Scientists Meeting and Poster Symposium, Tempe, AZ.
123. Basile AJ††, Clark W†, Shi X†††, Jasbi P†, Gu H, Deviche P, **Sweazea KL***. (2019) Diet-related physiological plasticity of mourning dove: A metabolomics approach. Nutrition 2019, Annual American Society for Nutrition conference, Baltimore, MD.
122. Whisner CM*, Argo KB†, **Sweazea KL**, Al-Nakkash, L. Impacts of genistein on the gut microbiota of a mouse model of cystic fibrosis. Nutrition 2019, Annual American Society for Nutrition conference, Baltimore, MD.

121. 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. *FASEB J.* 33: 583.3.
120. 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. *FASEB J.* 33: 545.2.
119. 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. *FASEB J.* 33: 545.5.
118. Basile A††, **Sweazea KL***. (2019) Under Krogh's Umbrella: Comparative Physiology in a new age. Arizona Physiological Society conference, Tempe, AZ.
117. Funk A†, Hutton P††, Earl S, Deviche P, **Sweazea KL***. (2019) Effects of urbanization on morphology and nutritional physiology of Gambel's Quail, *Callipepla gambelii*. Arizona Physiological Society, Tempe, AZ.
116. Mohr A††, Crawford M††, **Sweazea KL***. (2019). Assessing the potential of a soil-derived compound for the prevention of liver toxemia and protein glycation in rats fed a high-fat diet. Arizona Physiological Society, Tempe, AZ.
115. Nelson M††, Crawford M††, **Sweazea KL***. (2019) Evaluation of an organometallic complex on the development of cardiovascular disease risk following a 10-week high-fat diet. Arizona Physiological Society conference, Tempe, AZ.
114. 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.
113. 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. *FASEB J.* 32: 719.5.
112. Basile AJ††, Jarrett C†††, **Sweazea KL***. (2018) Relationship between dietary profile and blood glucose concentration in birds. 2018 Experimental Biology Conference, San Diego, CA. *FASEB J.* 32: 602.3.
111. 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. *FASEB J.* 32: 860.4.
110. Tat T, Bartel 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. *FASEB J.* 32: 700.6.
109. 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. *FASEB J.* 32: 700.7.
108. 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. *FASEB J.* 860.5.
107. 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.

106. 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.
105. 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.
104. 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.
103. 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.
102. 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.
101. 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.
100. 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.
99. **Sweazea KL***, Johnston CS, Miller B, Gumpricht E. (2017) Beet juice energy drink increases nitric oxide bioavailability and lowers blood pressure in healthy men. *FASEB J.* 31(1 Suppl): 966.10.
98. 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.
97. 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.
96. 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.
95. 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.
94. 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.
93. Gonzales RJ*, Tat T, So M, Bartel R†, **Sweazea KL**. (2017) Doxorubicin temporarily modulates cyclooxygenase-2 levels in human vascular smooth muscle cells. 2017 Arizona Physiological Society conference, Flagstaff, AZ. Abstract #S10.
92. 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.

91. 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.
90. 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.
89. 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.
88. 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.
87. **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.
86. 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.
85. 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.
84. 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.
83. 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.
82. 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.
81. 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.
80. 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
79. 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.
78. 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.

77. 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.
76. 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.
75. 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.
74. **Sweazea KL***, Borges C, Zuck J††, Rayle S†. (2015) Unraveling the avian paradox: Avian resistance to protein glycation. *FASEB J.* 29: LB642.
73. Ricklefs K††, Johnston CS, **Sweazea KL***. (2015) Therapeutic use of ground flaxseeds for type 2 diabetes. *FASEB J.* 29: 912.11.
72. 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.
71. 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
70. 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.
69. 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.
68. **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.
67. 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.
66. 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.
65. Calhoun M†, McGraw K, **Sweazea KL***. (2014) Variations in pancreatic glucoregulatory hormones in birds. *FASEB J.* 28: 1101.1.
64. **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.
63. **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.

62. 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.
61. 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.
59. 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.
58. 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.
57. 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.
56. 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.
55. 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.
54. **Sweazea KL***, Baluch D, Traynor K††, Cease A††, Coulombe M, Stout V. (2013) Jumpstarting STEM careers. *FASEB J.* 27: 740.1.
**This poster was presented through the APS Teaching Section and offered ideas for designing physiology-related career development workshops for trainees and faculty.*
53. 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.
52. 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.
51. Calhoun M†, Witt C, **Sweazea KL***. (2012) Variations in glucose across phylogenetically distinct avian species. The Arizona Physiological Society Conference, Tucson, AZ. Abstract #F18.
50. 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.
49. 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.
48. Baluch DP*, Traynor K††, Cease A††, Coulombe M, Stout V, **Sweazea KL**. Jumpstarting STEM careers. 2012 American Society for Cell Biology Conference, San Francisco, CA.

**This poster presentation offered ideas for creating STEM-related career development workshops for faculty.*

47. Rodriguez N†, Jarrett CL††, **Sweazea KL***. (2012) Hopscotch through the heart: Teaching cardiovascular physiology to 2nd graders. 2012 Experimental Biology Conference, San Diego, CA.
**This presentation reviewed the “Hopscotch through the heart” game that I developed to help teach elementary school students about cardiac physiology.*
46. **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.
45. Juan TK†, Jarrett CL††, **Sweazea KL***. (2012) Immune responses to parasitic infections in mourning doves (*Zenaida macroura*). *FASEB J.* 26: 1072.9.
44. 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.
43. 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.
42. 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.
41. 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.
40. 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.
39. Hostetter K†, **Sweazea KL**, Braun EJ*. (2011) A comparison of avian pancreatic islets. *FASEB J.* 25: 859.11.
38. 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.
37. 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.
36. 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
35. 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.
34. **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.
33. 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.
32. Aguirre LE†††, De Leon X†, **Sweazea KL**, Walker BR, Collieran 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.
 31. 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.
 30. Aguirre LE†††, DeLeon X†, **Sweazea KL**, Walker BR, Collieran K, Kanagy N*. (2010) Intermittent hypoxia causes hypertension and insulin resistance in male Sprague Dawley rats. *J Invest Med.* 58(1): 134.
 29. Sparr R†, Braun EJ, **Sweazea KL***. (2010) Putative role for insulin in glucose regulation by avian kidneys. *FASEB J.* 24: 1b614.
 28. Kuzmiak S††, Glancy B†††, **Sweazea KL**, Willis W*. (2010) Mitochondrial function in sparrow pectoralis muscle. *FASEB J.* 24: 1055.15.
 27. Lekic M†, Walker BR, **Sweazea KL***. (2010) Mechanisms of impaired acetylcholine-mediated vasodilation in overweight rats. *FASEB J.* 24: 592.3.
 26. 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.
 25. 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.
 24. Hostetter K††, **Sweazea KL**, Braun EJ*. (2010) The avian pancreatic islets, a comparison across species, *FASEB J.* 24: 1055.9.
 23. Anthony C††, **Sweazea KL**, Braun EJ*. (2010) The analysis of avian plasma for glycated serum albumin. *FASEB J.* 24: 1055.7.
 22. 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.
 21. 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.
 20. 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.
 19. 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.
 18. 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.
 17. Hostetter K††, **Sweazea KL**, Braun EJ*. (2009) Pancreatic beta and alpha cell expression patterns across avian species. *FASEB J.* 23: 778.8.
 16. Braun EJ*, **Sweazea KL**. (2008) Meta-analysis of plasma glucose concentrations in birds and mammals. 9th International Symposium on Avian Endocrinology, Leuven, Belgium.

Co-PI Kelli Larson (School of Geographic Sciences and Urban Planning, ASU), Co-PI Jose-Benito Rosales Chavez (School of Geographic Sciences and Urban Planning, ASU)

National Science Foundation Ball (PI) 3/1/23-2/28/29
LTER CAP V: Investigating how relationships between urban ecological infrastructure and human-environment interactions shape the structure and function of urban ecosystems
Role: Co-Lead and Senior Personnel

B. COMPLETED RESEARCH SUPPORT (in order of initial award date)

Isagenix International Sweazea (PI) 12/15/24-6/30/25
Follow-up Case Study: Examination of a whole food diet (Heart Healthy) compared to a hypocaloric, intermittent fasting, meal-replacement based diet on gut microbiome composition and circulating endotoxin in obese/overweight individuals
A secondary analysis of samples provided from a weight loss study conducted at Skidmore College.

CAP-LTER V Sweazea (PI) Summer 2024
The objectives of this summer project were to analyze the effects of urban diets and waste on the nutritional physiology of mealworms as a model prey organism.

Isagenix International Sweazea (PI) 03/01/20-5/31/23
Examination of a whole food diet (Heart Healthy) compared to a hypocaloric, intermittent fasting, meal-replacement based diet on gut microbiome composition and circulating endotoxin in obese/overweight individuals

SOLS Research Investment Initiative Deviche (PI) 05/19/20-05/20/21
Faculty New and Bold Proposals: Urban air pollution and the pulmonary avian microbiome
Role: Co-PI

Isagenix International Sweazea (PI) 01/10/19-3/31/20
Exploration of a novel organometallic complex to restore gut health in rats consuming an obesogenic diet
Role: PI

CAP LTER IV (NSF) Sweazea (PI) 5/20/19-8/21/19
Evaluating the effects of urbanization on avian health and abundance near anthropogenic food sources

SOLS/OKED Research Investment Initiative Sweazea (Co-PI) Spring 2018
Birds as experimental models to study diet-related metabolic and vascular system disorders
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)

<u>Isagenix International</u>	Sweazea (PI)	12/9/16-10/9/19
Reversing Metabolic and Cardiovascular Complications		
<u>Mayo Clinic</u>	Angadi (PI)	2015-2016
Department of Medicine Extramural Chair Award		
Aerobic interval exercise preconditioning to prevent cardiometabolic and neuropsychological complications of anthracycline-based breast cancer chemotherapy		
Role: Co-I		
<u>Isagenix International</u>	Sweazea (PI)	10/1/15-8/31/16
Evaluation of the protective effects of a beet juice energy drink on vascular health		
Co-PI: Carol Johnston, Nutrition, ASU		
<u>AmeriFlax Council</u>	Sweazea (PI)	1/1/14-6/30/15
Potential therapeutic benefits of flaxseeds in the treatment of type 2 diabetes symptoms		
<u>Isagenix International</u>	Sweazea (PI)	8/1/13-11/30/14
Evaluation of the Anti-aging Properties of Product B		
Co-PI: Carol Johnston, Nutrition, ASU		
<u>USDA</u>	Sweazea (PI)	7/1/12-12/31/13
Almond Board of California, National Institute of Food and Agriculture		
Almond Ingestion to Reduce Hemoglobin A1C in Individuals with Type 2 Diabetes		
Co-PI: Carol Johnston, Nutrition, ASU		
<u>ASU Foundation</u>	Sweazea (PI)	2011-2012
Private Donor		
A Non-genetic Rat Model of Type 2 Diabetes: The HFD/STZ Model		
<u>American Ornithologists' Union</u>	Sweazea (PI)	2011
Putative Role of Glucose as a Cryoprotective Adaptation in Birds		
Co-PI: Krystal Tsosie, Master's student, Bioethics, ASU		
<u>UNM School of Medicine</u>	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		

TEACHING

Curriculum Development

2023-2025	CHS 600 Research Methods for Translational Science, CHS
2021	NTR 791 Topic: Nutrition and Wellness, CHS
	EXW/NTR 691 Topic: Physical Activity and Nutrition Graduate Seminar
2019	NTR 524 Chronic Inflammation in the Metabolic Syndrome, CHS
	BIO 591 Topic: Comparative Nutritional Physiology, SOLS
	EXW/NTR 784 Teaching Internship, CHS

- 2016 NTR/EXW 691 Physical Activity and Nutrition Graduate Seminar, “Professional Development Skills”
- 2015 (Fall) NTR 532/PUBH 6900 Pathophysiology and Nutrition, ASU; cross-listed with School of Public Health, University of Minnesota
NTR/EXW 691 Physical Activity and Nutrition Graduate Seminar, “Development of your research agenda”
- 2010 HSC 420 Evaluation of Health Sciences Research: hybrid version, SNHP
HSC 320 Applied Medical/Health Care Ethics: Online version, SNHP
- 2010 NTR 394 Applied Medical/Health Care Ethics, In-person course, SNHP
- 2008 BIO 202 Human Anatomy and Physiology II: developed lab and lecture, ABS

Guest Lectures:

- 2026 “Eating under pressure: Nutritional drivers and defenses against hypertension”, Master Class in Health Sciences Webinar, ASU-Cintana Alliance
~500 students and classrooms attended from around the world
- 2025 BIO 471, Guest Lecture on “Avian Physiology”, School of Life Sciences, ASU
“What nature can teach us about diabetes and healthy aging”, Master Class in Health Sciences Webinar, ASU-Cintana Alliance.
“High Nitrate Foods and Cardiovascular Health”, Mayo Clinic Selective Guest Lecture, ASU, Downtown Phoenix campus
- 2023 CHS 691 Early Career Professional Development, Guest Lecture on “*Mentoring*”
- 2019 NTR/EXW 791, Guest Lecture on *Mentoring*, CHS
- 2018 NTR/EXW 791, Guest Lecture on *Mentoring*, CHS
EVO 610 Research Areas of Evolution, Guest Lecture, SOLS
- 2016 EVO 610 Research Areas of Evolution, Guest Lecture, SOLS
BCH 462 General Biochemistry, Guest lecture on *Diet-induced Vascular Dysfunction*, ASU
Developed a Lecture on Comparative Physiology for Henry Stewart Talks for international distribution
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, SOLS
NTR/EXW 791, Doctoral Seminar, Guest Lecture: “*Women in Science*”
- 2007 Guest Lecture, Physiology I, New Mexico Tech, Socorro, NM
- 2006 Guest Lecture, Physiology I, New Mexico Tech, Socorro, NM

Courses Taught

College of Health Solutions

- CHS 100 Optimizing Health and Performance, 3 times 2019-2022
- CHS 101 The ASU Experience, 1 time in 2016
- EXW/NTR 691 Physical Activity and Nutrition Graduate Professional Development Seminar, 4 times (2015-2022)
- EXW 784 Teaching Internship, 6 times since 2019

HCD 400	Decode Peer-Reviewed Research, 8 times since 2019
HSC 320	Applied Medical Healthcare Ethics, 14 times (2010-2016)
HSC 420	Evaluation of Health Sciences Research, 19 times (2010-2017)
MED 450	Leadership and Professionalism, 1 time in 2024
NTR 100	Introduction to Nutrition Science, 1 time in 2021
NTR 290	Evidence-based Nutrition, 5 times (2017-2018)
NTR 524	Chronic Inflammation in the Metabolic Syndrome, 17 times since 2019
NTR 532	Pathophysiology and Nutrition, 2 times (2015-2017)
NTR 791	Topic: Nutrition and Wellness, 1 time in 2021

Applied Biological Sciences

BIO 202	Human Anatomy and Physiology II Lecture, 3 times (2008-2010)
BIO 202	Human Anatomy and Physiology Lab, 2 times (2008)

School of Life Sciences (Summers)

BIO 360	Animal Physiology, 9 times since 2015
BIO 361	Animal Physiology Laboratory, 1 time in 2021
BIO 591	Topic: Comparative Nutritional Physiology, 1 time in 2019

Mentoring Undergraduate and Graduate Students in Research Credits (74 students)

(Student evaluations are not conducted for these courses)

ABS 489	Undergraduate Research, 4 students (2009-2010)
ABS 492	Honor's Directed Study, 2 students in 2009
ABS 493	Undergraduate Honor's Thesis, 1 student in 2009
ABS 499	Individualized Instruction (Research), 7 students (2009-2010)
BCH 392	Biochemistry Introduction to Research Techniques, 1 student in 2017
BCH 492	Honor's Directed Study, 1 student in 2014
BCH 493	Honor's Thesis, 1 student in 2014
BDE 792	Biodesign Graduate Research, 1 student in 2016
BIO 492	Biology Undergraduate Honors Directed Study, 14 students (2014-2025)
BIO 493	Biology Undergraduate Honors Thesis, 28 students (2014-2023)
BIO 495	Biology Undergraduate Research, 37 students (2012-2025)
CHS 492	Undergraduate Honors Research, 1 student in 2021
CHS 493	Honors Thesis, 2 students since 2021
CHS 494	Capstone, 3 students since 2023
EXW 780	Research Practicum, 1 student in 2021
HON 498	Honor's Research, 3 students in 2014
HSC 492	Honor's Directed Study, 2 students (2012-2013)
HSC 493	Honor's Thesis, 1 student in 2013
HSC 494	Undergraduate Research Seminar, 9 students (2010-2015)
MBB 495	Microbiology Undergraduate Research, 3 students since 2023
NTR 493	Nutrition Honors Thesis, 1 student in 2018
NTR 599	Nutrition Master's Thesis, 4 students since 2023
NTR 690	Nutrition Reading and Conference, 1 student in 2023
NTR 792	Nutrition Doctoral Research, 1 student in 2019
NTR 799	Nutrition Dissertation Research, 1 student (2021-2022)

Teaching Prior to ASU

Fall 2007	Problem Based Learning Facilitator, Medical School Phase I, Human Sexuality, Reproduction/Endocrinology Block, UNM
Fall 2006	Guest Lecture, Physiology I, New Mexico Tech, Socorro, NM
Spring 2005	Teaching Assistant, PSIO 601/801, Renal Lab for Medical and Physiology Graduate Students, University of Arizona, Tucson
Spring 2004	Head Teaching Assistant, PSIO 601/801, Renal Lab, University of Arizona, Tucson
Spring 2003	Head Teaching Assistant, PSIO 601/801, Renal Lab, University of Arizona, Tucson
Spring 2002	Teaching Assistant, PSIO 601/801, ECG Lab for Medical and Physiology Graduate Students, University of Arizona, Tucson
2001	Teaching Assistant, PSIO 480: Cellular, Neural and Endocrine Physiology, University of Arizona, Tucson
	Student Coordinator, The University of Arizona Learning Center, Tucson
	Course Coordinator, Physiological Sciences Student Forum, University of Arizona, Tucson

MENTORING

A. FACULTY

2025-2026	Mentee to Dr. Carol Johnston, CHS, ASU
2025-2026	ASU Adjunct Faculty Sponsor, Dr. Anthony Basile (SUNY Sullivan, NY)
2025-2026	2 nd mentor to Dr. Taichi Suzuki, CHS, ASU
2025-2026	2 nd mentor to Dr. My Phan, CHS, ASU
2022	Mentee to Dr. Shu Wang, Full Professor, CHS, ASU
2021-2022	Dr. Andrea Pittmann, Associate Professor of Speech and Hearing Science, CHS
2019-2021	Dr. Yi Zhou, Assistant Professor of Speech and Hearing Science, CHS – promoted to Associate Professor with tenure in 2020
2020	Sponsor to Dr. Dagmara Hering, MD, PhD, visiting scholar from Medical University of Gdansk-Poland, Department Hypertension and Diabetology, First Department of Cardiology

B. POSTDOCTORAL FELLOW

Role/Defense Date	Student/Field	Research Topic	Special Achievements and Mentored Grants
Co-Mentor 1/22-pres	<i>Adi Domer</i> UC Berkeley	Glucose regulation in nectarivorous birds (Co-mentor: Dr. Robert Dudley, UC Berkeley) <i>Mentored: Maggie Symes, MS (ASU)</i>	2022-2025 Postdoctoral Fellowship, International Human Frontier Science Program Organization (top 13% of applicants)

C. Graduate Thesis/Dissertation Committees Since Employment at ASU

Role/Defense Date	Student/Field	Research Topic	Special Achievements and Mentored Grants for Research in My Laboratory
Member 2/26-pres	Aysegul Acet , PhD Exercise and Nutritional Sciences, ASU	<i>Dissertation:</i> TBD <i>Mentor:</i> Shu Wang, CHS	
Chair 08/25-pres	Sofia Mancini , MS/DI Nutritional Sciences, ASU	<i>Thesis:</i> Bioaccumulation of pollutants in urban v rural eggs and the impact on nutritional composition.	
Member 08/25-pres	Brittany Blake , MS Biological Sciences, ASU	<i>Thesis:</i> Paradoxical stewardship and social-ecological traps in urban bird provisioning <i>Mentor:</i> Heather Bateman, ASU	
Member 8/25-pres	Tiffany Peterson , MS Nutritional Sciences, CHS, ASU	<i>Thesis:</i> TBD <i>Mentor:</i> Dr. Shu Wang, CHS	
Member 8/25-pres	Joshua Altmann , MS, Nutritional Sciences, CHS, ASU	<i>Thesis:</i> TBD <i>Mentor:</i> Min-Hyun Kim, CHS	
Member 12/24-pres	Busayo Oladun , PhD, Exercise and Nutritional Sciences, CHS, ASU	<i>Dissertation:</i> The role of hypothalamic <i>JMJD3</i> in regulating energy homeostasis <i>Mentor:</i> Min-Hyun Kim, CHS	
Member 4/23-present	Kinta Schott , PhD, Exercise and Nutritional Sciences, CHS, ASU	<i>Mentor:</i> Floris Wardenaar, CHS, ASU	
Chair 09/23-4/11/25	Krishna Sapariya , MS Nutrition Sciences, CHS, ASU	<i>Thesis:</i> Cardioprotective role of genistein and exercise in the aorta of high fat diet fed mice	2025 Graduate College Travel Grant (\$500)
Chair 08/23-4/10/25	Maggie Symes , MS Nutritional Sciences, CHS, ASU <i>Co-authored publication #68</i> First position after graduation: Dietitian, Mayo Clinic, Scottsdale, AZ	<i>Thesis:</i> Examining the effects of oral myo-inositol on glucose metabolism in avian blood glucose metabolism and regulation in wild European starlings (<i>Sturnus vulgaris</i>)	2025 Graduate Student Government Travel Grant, (\$950) 2025 Novo Nordisk Award, American Physiological Society, (\$500) 2023 Jumpstart Grant, (\$750)
Member 2/22-4/9/25	Mollie Peters PhD Evolutionary Biology, ASU	<i>Dissertation:</i> Recursion and its applications to characterizing metabolic circuits in healthy and failing hearts <i>Mentor:</i> Ken Buetow, Evolutionary Biology	

Member 8/17-4/4/25	Karen Moreno PhD, ENS program, ASU	<i>Dissertation:</i> Move more to do more: A mixed methods feasibility and acceptability study exploring physical activity educational messaging and exercise motivation among midlife female bariatric patients <i>Mentor:</i> Pamela Swan, ENS program	
Member 4/23-4/2/25	Emily (Oliver) Dow, PhD, Exercise and Nutritional Sciences, CHS, ASU	<i>Dissertation:</i> The effects of a 12- week resistance exercise program on biomarkers of intestinal permeability, cognition, and mood state in healthy adults <i>Mentor:</i> Carol Johnston, CHS, ASU	
Member Fall 2024	Adrian Moreno Borrallo, PhD <i>Biology, University of Strasbourg, France</i>	<i>Dissertation:</i> Glucose and glycation in birds: phylogenetic and ecological factors, physiological mechanisms and individual fitness links <i>Mentor:</i> François Criscuolo, U Strasbourg, France	
Member 4/22-Fall 2024	Leanna Watts Biology coursework, SOLS, ASU	Elected non-thesis option <i>Mentor:</i> Pierre Deviche, SOLS	
Member 08/19-08/24	Sarah Polekoff PhD, Biology, ASU	<i>Dissertation:</i> Effects of urban living on oxidative stress and behavior in house finches (<i>Haemorhous mexicanus</i>) <i>Mentor:</i> Pierre Deviche, SOLS, ASU	
Chair 1/22-4/11/24	Rory Lockett MS Biology, SOLS, ASU	<i>Thesis:</i> Impact of urban stressors on the nutritional physiology of mealworms	<i>2024 Novo Nordisk Travel Award to present research at APS Summit (\$500) 2023 Jumpstart Grant, GPSA, ASU (\$750)</i>
Member 2021-4/9/24	Samantha Fessler PhD, ENS, ASU <i>Co-authored publication #59</i>	<i>Dissertation:</i> Combined effects of maqui berry extract and omega-3 fatty acids on circulating markers of inflammation and cardiometabolic risk in adults with type 2 diabetes <i>Mentor:</i> Carol Johnston, CHS, ASU	
Chair 9/22-3/27/24	Jingyu Ling, MS Nutrition, CHS, ASU <i>Co-authored publication #73</i>	<i>Thesis:</i> Evaluation of a novel fiber complex for the prevention of high fat diet induced metabolic syndrome.	<i>2023 GPSA Terminal Graduate Research and Support Program Grant, ASU (\$2000)</i>
Mentor 11/22-Fall 2023	Milena Figueiredo de Souza, PhD, Food Science and Technology, Federal University of Goias, Brazil	<i>Dissertation:</i> Effect of consumption of a fiber formulation on morphology, lipids, glucose, and gastrointestinal hormones in adolescent male Sprague-Dawley rats	<i>2024 2nd place for research presentation at the 1st Midwest Production Congress Innovation and Food Safety (CPISA), Federal University of Goias, Brazil.</i>

	<i>Co-authored publications #68 & 73</i>	<i>Independent Study: Acute effects of metformin on plasma glucose regulation in mourning doves</i>	<i>2022-2023 Capes Scholarship, Brazil for 10 month research internship in my lab</i>
Member 11/20-09/23	Daniel Jackson PhD, Biology, ASU	<i>Dissertation: Urban evolution in Arizona cardinals</i> <i>Mentor: Kevin McGraw, SOLS, ASU</i>	
Chair 09/21-04/14/23	Adam Liang MS Nutrition Sciences, CHS, ASU	<i>Thesis: Evolutionary mismatch education to improve diet of veterans</i>	
Member 09/21-03/23	Allyson Deimeke MS Nutrition, CHS, ASU	<i>Thesis: The cognitive effects of maqui berry extract and fish oil in adults with type 2 diabetes</i> <i>Mentor: Carol Johnston, CHS, ASU</i>	
Member 2/18-02/24/2023	Bukola Obayomi PhD, Biology, ASU	<i>Dissertation: Investigating tyramine's role in the mouse uterine horn</i> <i>Mentor: Debra (Page) Baluch, SOLS, ASU</i>	
Member 3/20-10/28/2022	Jennifer Hesterman PhD, Neuroscience, ASU	<i>Dissertation: Detecting autoantibodies as biomarkers of Type 1 diabetes</i> <i>Mentor: Joshua LaBaer, Biodesign, ASU</i>	
Mentor 09/21-12/22	Tara Hill MS Nutrition Sciences, CHS, ASU	<i>Capstone: The effects of an evolutionary mismatch narrative, during nutrition education, on ultra-processed food intake, anthropometrics, lipid profile and blood pressure</i>	
Chair 08/18-11/22	Alex Mohr PhD, ENS, ASU <i>Co-authored Publications #39, 44, 45, 50, 51, 53, 56, 58, 59, 63, 65, 67, 69, 70, 71</i>	<i>Dissertation: Resiliency and individuality influence the trajectory of gut microbiome through nutritional, feeding, and lifestyle behavior pressures</i> <i>Co-Mentoring undergrad students in the lab:</i> Carissa McEvoy, Biology, Barrett (grad 2021) – third committee member Vivian DoleVy, Biology, SOLUR	<i>2022 College of Health Solutions Outstanding University Graduate, ASU</i> <i>2022 Graduate Research Support Program Award (\$2000)</i> <i>2021 Evidence Analysis Library Summer Research Fellowship, Academy of Nutrition and Dietetics Foundation</i> <i>2020 GPSA Athletics Research Grant (\$3482)</i> <i>2020 Graduate Research Support Program Award (\$2000)</i> <i>Fall 2019- Spring 2020 ENS Block Grant</i> <i>2019 Dr. Dolittle Travel Award, Comparative and Evolutionary Physiology section of the APS</i>

Chair
8/17-4/13/22

Anthony Basile
PhD, Evolutionary
Biology, SOLS
Co-authored
Publications #44, 45,
48, 51, 52, 54, 55, 62,
63, 64, 68, 70, 71, 72, 73
Initial position after
graduation:
Adjunct Faculty, CHS,
ASU (2022-2023)
Current position:
Assistant Professor,
SUNY Oneonta (2023-
2025); Associate
Professor SUNY (2025-)

Dissertation: Diabetes, Diet, and
Doves: Birds as a negative model for
hyperglycemic complications
Other projects:
-Evolutionary mismatch narrative to
promote health in obese adults
-Low carbohydrate vs low fat diets
for weight loss
-Evolutionary mismatch education to
improve diet and health of veterans
Co-Mentored MS student:
Steven Stanley, Medical Nutrition
(2020-2021)
Co-Mentoring Medical student:
Deb Watson (Spring-Fall 2021)
Co-Mentoring Barrett students in the
lab as third committee member:
Avin Kreisler (2021-2022)
Michael Renner (grad 2020)
Lana Kayata (grad 2020)
Lorne Lambries (grad 2020)
Co-Mentoring SOLUR students:
Kavita Singh (2020-2022)
Ellinor Hjelm (2020-2021)
Co-Mentoring LEAP Scholar:
Nereus Noshirwani (2021-2022)
Other undergraduate co-mentoring:
Sarah Mathias (fall 2020)
Angel Morales (2020-2021)
Lucas Zuch (2025-)

2019 Graduate and
Professional Student
Association Travel Grant
(\$500)
2019 Graduate Research
Support Program Award
(\$2000)
2022 Outstanding Mentor
Award, Graduate and
Professional Student
Association, ASU
2022 The College
Graduate Excellence
Award, ASU
2022 JEDI Award,
Graduate and Professional
Student Association, ASU
2021-2022 Dr. Elizabeth
Capaldi Phillips Memorial
Award for Graduate
Research in the
Psychology of Eating,
Psychology Department,
ASU
2021-2022 SOLS
Graduate Completion
Fellowship, SOLS, ASU
Summer 2021 Inclusive
Teaching Fellowship,
SOLS, ASU
2021 Research
Recognition Award,
Comparative and
Evolutionary Physiology
Section, American
Physiological Society
2021 Graduate College
Q4 Online/Remote Travel
Awards for Experimental
Biology conference &
Nutrition Live ASN
conference
2020-2021 Graduate
Excellence Scholarship,
The College of Liberal
Arts and Sciences
2020 Finalist: Emerging
Leader in Nutrition
Science, ASN Conference
2019 CAP LTER Grant,
ASU (\$2565)

2019-2020 Graduate College Fellowship, ASU
 2019 Novo Nordisk Foundation Travel Grant from the CEPS Section of the APS (\$500)
 2018-2019 The College, Graduate Excellence Award
 2019 Graduate and Professional Student Association Travel Grant (\$500)
 2018 Novo Nordisk Foundation Travel Grant from the CEPS Section of the APS to attend EB (\$500)
 2018 SOLS Travel Award (\$500)
 2018 GPSA Graduate Research Support Program Award (\$1953)

Member 11/20-03/22	Ciara Lundy MS, Nutritional Science, ASU	<i>Thesis:</i> Relationships between erythrocyte osmotic fragility and vitamin C nutriture in adults with or without type 2 diabetes <i>Mentor:</i> Carol Johnston, CHS, ASU
Member 10/19-2/22/22	Eric Bartholomae PhD, ENS, ASU	<i>Dissertation:</i> Nitrogen balance and protein intake at the RDA in underactive male vegans <i>Mentor:</i> Carol Johnston, CHS, ASU
Member 01/21-3/21/22	Paniz Jasbi PhD, ENS, ASU <i>Co-authored publications #48, 51, 59, 65</i>	<i>Dissertation:</i> Mass spectrometry-based metabolomics: Considerations for laboratory testing <i>Mentor:</i> Carol Johnston, CHS, ASU
Mentor 07/20-05/21	Steven Stanley MS, Medical Nutrition, ASU <i>Co-authored publication #71</i> Current position: Medical Student	<i>Applied Project:</i> The effect of food processing on total antioxidant content.
Member 8/15-5/20/21	Pierce Hutton PhD, Biology, SOLS, ASU <i>Co-authored publication: #47</i>	<i>Dissertation:</i> The ‘beauty sleep’ hypothesis: Plumage ornaments as sexually selected indicators of sleep phenotype. <i>Mentor:</i> Kevin McGraw, SOLS, ASU

Member 3/18-6/24/21	Emily Webb PhD, Biology, ASU	<i>Dissertation:</i> Where have the carotenoids gone? Physiology of carotenoid absorption and distribution in birds <i>Mentor:</i> Kevin McGraw, SOLS	
Member 7/20-4/12/21	Hunter Kleinschmidt MS, Biology, ASU	<i>Thesis:</i> The influence of dietary food moisture on hydration status in adults <i>Mentor:</i> Stavros Kavouras, CHS, ASU	
Member 4/16-4/14/21	Latoya Campbell PhD, SOLS CMVB	<i>Dissertation:</i> Apolipoprotein A6 function in adipose tissue <i>Mentor:</i> Jin Liu, CVMB at Mayo	
Member 4/19-4/8/21	Shelbi Peck PhD, Biology, ASU	<i>Dissertation:</i> The pursuit of parenthood: Expanding horizons of reproductive physiology and assisted reproductive technologies <i>Mentor:</i> Page Baluch, SOLS, ASU	
Member 1/19-04/21	Bethany Weigand MS, Nutrition, ASU	<i>Thesis:</i> Exploring the association of dietary sugars and advanced glycation end products <i>Mentor:</i> Natasha Tasevska, CHS, ASU	
Member 9/19-11/4/20	Jeffrey Patterson MS, Nutrition	<i>Thesis:</i> Integrative metabolomics reveals the effects of nitrate-rich diets on vascular function: A secondary data analysis. <i>Mentor:</i> Haiwei Gu, CHS, ASU	
Member 1/18-05/20	Selicia Mayra PhD, ENS, ASU <i>Co-authored publications: #41, 45</i> <i>Initial Position after graduation: Assistant Professor, Department of Nutrition and Health Science, Ball State University, Muncie, IN</i>	<i>Dissertation:</i> High-nitrate salad increased plasma nitrates/nitrites and brachial artery flow-mediated dilation in postmenopausal women: a controlled feasibility study <i>Mentor:</i> Carol Johnston, College of Health Solutions (CHS)	
Chair 08/18-4/1/20	Morgan Nelson MS, Biology, ASU	<i>Thesis:</i> Evaluation of an organometallic complex on the development of cardiovascular disease risk following a 10-week high-fat diet	<i>2019-2020 Graduate College Fellowship, ASU</i> <i>2019 Graduate Research Support Program Award (\$1500)</i> <i>2019 Graduate and Professional Student Association Travel Grant for EB 2019 (\$500)</i> <i>2018 Jumpstart Research Grant, GPSA, ASU (\$500)</i>

Member 1/18-4/2/19	<i>Katy Argo</i> MS Nutrition Program, ASU	<i>Thesis:</i> Gut microbiome diversity and community structure following dietary genistein treatment in a murine model of cystic fibrosis. <i>Mentor:</i> Corrie Whisner, Nutrition, ASU	
Chair 3/15-4/1/19	<i>Meli'sa Crawford,</i> PhD, Biology, SOLS, ASU <i>Co-authored</i> <i>Publications #40, 42, 43, 44, 50, 59</i> <i>Initial position after graduation:</i> <i>Postdoctoral Fellow with Dr. Declan McCole at UC-Riverside</i>	<i>Dissertation:</i> Examining the effects of a high fat diet on the development of metabolic syndrome and gut leakiness in male Sprague-Dawley rats	<i>2019 Martin Frank Minority Travel Award, American Physiological Society</i> <i>2018 Caroline tum Suden/Frances Hellebrandt abstract-based award, American Physiological Society</i> <i>2018 GPSA Graduate Research Support Program Award (\$2000)</i> <i>2017 3rd place poster presentation at the Arizona Physiological Society conference</i> <i>2017-2018 ASU Graduate College Fellowship</i> <i>2017-2019 Initiative for Maximizing Student Development (IMSD) Fellowship, ASU</i> <i>2016 GPSA Jumpstart grant, ASU (\$500)</i> <i>2016 Sigma Xi Grant-in-Aid of Research award (\$5000)</i> <i>2016 GPSA Travel Grant, ASU (\$500)</i> <i>2016 Minority Travel Fellowship, American Physiological Society</i> <i>2014-2016 NSF Bridge to the Doctorate Fellowship</i>
Member 12/17-2/27/19	<i>Noel Ugarte</i> MS, Nutrition Program, ASU	<i>Thesis:</i> Assessing the relationship between cobalamin deficiency and methylation capacity in a vegetarian population <i>Mentor:</i> Carol Johnston, Nutrition, ASU	
Chair 8/17-1/19	<i>Kelly McCormick</i> MS, Nutrition Program, ASU	<i>Thesis:</i> Will a novel organometallic complex mitigate the effects of hypertension in rats fed a high fat diet?	

Member 5/18-12/18	Lakshmi Madhavpeddi PhD, Clinical Translational Sciences, UofA COM Phoenix	<i>Dissertation:</i> The role of prenatal stress in contributing to later cardiovascular disease <i>Mentor:</i> Taben Hale, UofA COM Phoenix	
Chair 8/16-7/11/18	Julia Barberes MS, Nutrition Program, ASU <i>Initial position after graduation: Inpatient Dietitian, Mayo Clinic Hospital, Scottsdale AZ</i>	<i>Thesis:</i> The effects of sumac on saturated fat-induced inflammation in human vascular smooth muscle cells and isolated mesenteric arteries from rats	
Member 5/15-7/5/18	Shelley Valle PhD, Biology, SOLS	<i>Dissertation:</i> Consequences of negative energy balance on avian reproductive physiology: Endocrine and Metabolic Mediators <i>Mentor:</i> Pierre Deviche, SOLS	
Member 1/15-5/24/18	Jacob Campbell PhD, SOLS	<i>Dissertation:</i> 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 <i>Co-authored publication #62</i> <i>Initial position after graduation: Medical Student (graduated 2021 Universidad Autonoma de Guadalajara, Mexico)</i>	<i>Thesis:</i> Oxidative stress and a high fat diet in rats: An intervention study on the effects of an organometallic compound on enzyme function, inflammatory markers, endotoxins, and fasting serum glucose and insulin levels	<i>2018 Spring GPSA Jumpstart Grant (\$500)</i>
Mentor 8/15-4/16/17	Farhan Aslam PhD, Dept Food Science and Human Nutrition, Univ. Veterinary and Animal Sciences, Lahore, Pakistan <i>Co-authored Publications #33, 37</i> <i>Initial position after graduation: Punjab Food Authority, Lahore, Pakistan</i>	<i>Dissertation:</i> 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>Co-authored Publication #41, 45</i>	<i>Dissertation:</i> Comparison of high-nitrate versus low-nitrate diets on cardiovascular health in post-menopausal women	<i>2016 GPSA Jumpstart Grant, ASU (\$500)</i>

	<i>Initial Position after graduation: Doctoral Student, ENS Program, CHS, ASU</i>	<i>Co-mentor: Dr. Carol Johnston, Nutrition, ASU</i>	
Member 8/15-3/15/17	Elizabeth Journey MS, Nutrition Program, ASU	<i>Thesis: Changes in weight status and the intestinal microbiota among college students.</i> <i>Mentor: Corrie Whisner, Nutrition, ASU</i>	
Chair 8/15- 08/12/16	Tana Ingram MS, RDN Nutrition Program, ASU <i>Co-authored Publication #35</i> <i>Initial position after graduation: Registered Dietitian at Dignity Health, Wight Loss Center, Gilbert, AZ</i>	<i>Thesis: Evaluation of protein glycation and antioxidant levels in birds of prey</i>	<i>2015 Graduate Research Support Program Award, ASU (\$2000)</i>
Chair 8/15- 11/21/16	Emily Schwab MS, Nutrition Program, ASU <i>Co-authored Publication #36</i> <i>Initial position after graduation: Clinical Dietitian with Maricopa Integrated Health System, Phoenix, AZ</i>	<i>Thesis: Pilot study: The synergistic effect of almond consumption and aerobic activity on the reduction of cardiovascular disease risk in sedentary adults</i>	<i>2015 Graduate Research Support Program Award, ASU (\$1783)</i>
Member 8/15-8/16	Elizabeth McElaney MS, Nutrition Program, ASU <i>Co-authored publication #36</i>	<i>Thesis: Almond consumption during a walking intervention in relation to heart rate recovery.</i> <i>Mentor: Carol Johnston, Nutrition, ASU</i>	
Chair 8/14-5/16	Jessica Zuck MS, RDN, Nutrition Program, ASU <i>Co-authored Publication #31, 35</i> <i>Currently working as a Fresh Fruit and Vegetable Program Specialist with the Arizona Department of Education, Phoenix, AZ</i>	<i>Thesis: A comparison of the impact of temperature and glucose concentration on percent glycated serum albumin between chickens and humans</i>	<i>2015 Graduate Research Support Program Award, ASU (\$2000)</i>
Member 8/14-4/13/15	Kathryn Earhart (Bratrud) MS, Nutrition Program, ASU	<i>Thesis: Vitamin C and the Common Cold in the Asthmatic Population,</i> <i>Mentor: Carol Johnston, ASU</i>	

Member 2015	Kelly Cosgrove MS, Nutrition, ASU	<i>Thesis:</i> The impact of adherence to a vegan diet on acid-base balance: A randomized controlled trial in healthy college students. <i>Mentor:</i> Carol Johnston, Nutrition, ASU	
Member 2015	Jessica Knurick PhD, Physical Activity Nutrition and Wellness (PANW) Program, ASU <i>Co-authored publication #30</i>	<i>Dissertation:</i> Effects of postmeal walking on postprandial glucose control and oxidative stress. <i>Mentor:</i> Carol Johnston, Nutrition, ASU	
Chair 8/13-11/14	Catherine Crinigan MS, Nutrition Program, ASU <i>Co-authored Publication #24</i> <i>Initial position after graduation: Clinical Dietitian at Southern Arizona VA, Tucson, AZ</i>	<i>Thesis:</i> Effects of a short-term high fat diet on kidney morphology and function	<i>2014 Graduate Research Support Program Award, ASU (\$2000)</i> <i>2014 Sigma Xi Grant-in-Aid of Research, ASU (\$200)</i>
Member 2014	Lindsay Gnant (Stubbs) MS, Nutrition Program, ASU <i>Co-authored publication #45</i>	<i>Thesis:</i> The effect of vitamin C supplementation on sICAM-1 in asthmatic study participants. <i>Mentor:</i> Carol Johnston, Nutrition, ASU	
Member 11/10/14	Scott Davies PhD, Biology, ASU <i>Co-authored publication #17</i>	<i>Dissertation:</i> Investigating the influence of food on reproductive physiology and gonad growth: Urbanization as a natural experiment. <i>Mentor :</i> Pierre Deviche, SOLS, ASU	
Chair 8/11-5/15	Kristin Ricklefs-Johnson PhD, PANW Program ASU <i>Co-authored Publication #23, 32</i> <i>Initial position after graduation: Postdoctoral Fellow, Mayo Clinic, Arizona</i> <i>Currently employed as Director of Nutrition Research, US Dairy Council</i>	<i>Dissertation:</i> Potential therapeutic benefits of flaxseeds in the treatment of type 2 diabetes; Other projects: High fat diet-induced alterations of vascular insulin signaling pathway; Effects of high fat diets on bone metabolism.	<i>2015 Graduate Research Support Program Award (\$2000)</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 (\$450)</i> <i>2014 Graduate Research Support Program Award, ASU (\$450)</i> <i>2013 AmeriFlax Council Research grant (\$5000)</i>

			<p><i>2013 JumpStart Research Award, ASU (\$500)</i></p> <p><i>2012-2013 Graduate Research Support Program Award, ASU (\$2000)</i></p>
Chair 1/13-4/14	Samer Alanbagy, MD MS, Nutrition Program ASU	<i>Thesis:</i> The effects of omega-3 supplementation on markers of obesity and endothelial function in healthy subjects.	
Member Spring 2014	Sarah Wherry PhD, PANW, ASU	<i>Dissertation:</i> Effectiveness of a Wii® intervention on balance, muscular fitness, and bone health in middle-aged women. <i>Mentor:</i> Pamela Swan, Exercise and Wellness, ASU	
Member Fall 2013	Giselle Pereira Pignotti PhD, PANW Program, ASU	<i>Dissertation:</i> The efficacy of nopales (<i>Opuntia Spp</i>) on lipoprotein profile and oxidative stress among moderately hypercholesterolemic adults. <i>Mentor:</i> Sonia Vega-Lopez, Nutrition, ASU	
Chair 7/12-1/14	Katherine Petersen MS, Nutrition Program ASU <i>Co-authored</i> <i>Publication #23</i> <i>Initial position after graduation: Registered Dietitian at Banner Health, Phoenix, AZ</i>	<i>Thesis:</i> The effects of almond consumption in subjects with type 2 diabetes: Differences between men and women.	<p><i>2012-2013 Graduate Research Support Program Award, ASU (\$2000)</i></p> <p><i>2012 JumpStart Research Award, ASU (\$500)</i></p>
Member 7/12-4/13	Elizabeth Sussman PhD, PANW Program, ASU	<i>Dissertation:</i> Selenium supplementation and cardiovascular outcome markers in hemodialysis patients: A randomized, controlled trial. <i>Mentor:</i> Carol Johnston, Nutrition, ASU	
Member Spring 2013	Laurie Black PhD, PANW Program, ASU	<i>Dissertation:</i> Effects of a fat/sugar supplemented diet, with and without exercise training, on endothelial function, blood pressure, and markers of cardiovascular risk. <i>Mentor:</i> Glenn Gaesser, Exercise and Wellness, ASU	
Chair 8/10-5/12	Catherine Jarrett MS, Nutrition Program	<i>Thesis:</i> Characterization of acetylcholine-mediated vasodilation	<i>2012 Novo Nordisk Travel Award, CEP Section, APS</i>

	ASU <i>Co-authored</i> <i>Publication #19, 25, 29</i> <i>Initial position after graduation: Doctoral Student, ENS program, CHS, ASU</i> <i>Currently a postdoctoral fellow in the Department of Internal Medicine, University of Utah, Salt Lake City, UT</i>	in mourning dove arteries under normoglycemic and hyperglycemic conditions	<i>2010-2011 Graduate Research Support Program Award, ASU (\$2000)</i> <i>2010 Sigma Xi Grant-in-Aid of Research, ASU (\$200)</i>
Member Fall 2012	<i>Emily Medved</i> MS, PANW Program, ASU	<i>Thesis: Effects of vinegar on colonic fermentation and glycemia.</i> <i>Mentor: Carol Johnston, Nutrition, ASU</i>	
Member Spring 2012	<i>Sarah Kuzniak</i> PhD, Kinesiology, ASU <i>Co-authored publication #15</i>	<i>Dissertation: Mitochondrial physiology in avian and mammalian skeletal muscle.</i> <i>Mentor: Wayne Willis, Kinesiology/SOLS, ASU</i>	
Research Mentor 1/11-7/12	<i>Krystal Tsosie</i> MS, Applied Ethics ASU <i>Co-authored publication #46</i>	<i>Thesis: Non-thesis project: Seasonal regulation of glucose in birds. This was a side-project for Krystal.</i>	
Member Summer 2011	<i>Jennifer Vranish</i> MS, Physiology, UA	<i>Thesis: Isolation of putative osmoreceptor from avian GI tract.</i> <i>Mentor: Eldon Braun, Physiology, UA, Tucson</i>	
Member Spring 2011	<i>Kimberly Hostetter</i> MS, Physiology, UA	<i>Thesis: Glucose and insulin expression patterns in avian pancreata.</i> <i>Mentor: Eldon Braun, Physiology, UA, Tucson</i>	
Member Spring 2010	<i>H. Bobby Fokidis</i> PhD, Biology, ASU <i>Co-authored publications #13 & 16</i>	<i>Dissertation: From the brain to the barrio: Energy and stress interact to facilitate the urbanization of Sonoran Desert birds.</i> <i>Mentor: Pierre Deviche, School of Life Sciences, ASU</i>	
Member Spring 2010	<i>Claire Anthony</i> MS, Physiology, UA <i>Co-authored publication #49</i>	<i>Thesis: Avian resistance to glycation.</i> <i>Mentor: Eldon Braun, Physiology, UA, Tucson</i>	

D. Undergraduate Trainees Since Employment at ASU

Role/Defense dates	Student/Field	Research Topic/Thesis Project	Special Achievements for Research in My Laboratory
Chair 12/25-pres	Lea Fakh Biological Sciences, ASU	<i>Barrett Student, Independent Research Project:</i> Examining the nutritional profile and safety of chicken eggs. <i>Thesis:</i> Socioeconomic disparities in exposure to noise and air pollution	
Mentor 12/25-pres	Daniela Radashkevich Biological Sciences, ASU	<i>Barrett Student, Independent Research Project:</i> Examining the nutritional profile and safety of chicken eggs.	
Chair 09/25-pres	Nila Sathyan Biological Sciences, ASU	<i>Independent Research/SOLUR:</i> Microplastics in the food chain	
Chair 09/25-pres	Arya Saravanan, Biomedical Sciences, ASU	<i>Honor's Research:</i> Impact of urban substrates on the gut microbiome and bioaccumulation of pollutants in mealworms	
Chair 09/25-pres	Sravan Paritala, Biomedical Sciences, ASU	<i>Honor's Research:</i> Impact of urban substrates on the gut microbiome and bioaccumulation of pollutants in mealworms	
Chair 08/25-pres	Vylet Bertoncino, Nutrition, ASU	<i>Honor's Thesis:</i> Perception v Reality: An exploration of the nutritional profile of urban v rural eggs	
Mentor 06/25-pres	Alondra Perez Flores Medical Studies, ASU	<i>Independent Research:</i> Dietary preferences in urban vs rural birds and its potential impact on physiology	
Mentor 05/25-pres	Alyssa Moise Biological Sciences, ASU	<i>Independent Research:</i> Dietary preferences in urban vs rural birds and its potential impact on physiology	
Mentor 05/25-7/25	Matthew Babiash Biochemistry, ASU	<i>Independent Research:</i> Exploring the link between locomotion and cancer resilience	
Chair 04/25-pres	Sofia Valencia SOLS, ASU	<i>Honor's Thesis:</i> TBD <i>Mentor:</i> Taben Hale, U Arizona, Phoenix	
Chair 01/25-pres	Lucas Zuch SOLS, ASU	<i>Honor's Thesis:</i> A comparison of the effects of genistein and treadmill exercise on high fat high sucrose diet-induced cardiovascular disease	
Chair 08/24-pres	Maddelyn Gibson Biology, ASU	<i>Honor's Thesis:</i> Do birds select different foods in urban v rural environments?	2025 CAP LTER Summer REU Fellowship, \$4000
Mentor 10/21-pres	Gabrielle (Gale) Larson Medical Microbiology, SOLS, ASU	<i>Independent Study:</i> Acute effects of metformin on plasma glucose regulation in mourning doves	

	<i>Co-authored publication</i> #68		
Co-Chair 3/24-04/25	Harlow Kelley Biology, ASU	<i>Honors Thesis:</i> Impact of TBI on cardiac remodeling in spontaneously hypertensive rats <i>Mentor:</i> Taben Hale, U Arizona, Phoenix	
Mentor 8/24-12/24	Clark Chee Nutrition, ASU	CHS 494: Capstone Learned how to analyze tissue samples and perform microscopy	
Mentor 1/24-4/24	Oliver Wellington Nutrition, ASU	CHS 494: Capstone Learned how to stain and image tissue sections for microscopy	
Member 08/23-8/6/24	Hrishita Sharma Nutrition, ASU	<i>Honors Thesis:</i> Mouthwash, nitric oxide, and blood pressure <i>Mentor:</i> Carol Johnston, CHS, ASU	
Mentor 9/22-05/23	Maggie Symes Nutrition, Dietetics <i>Co-authored publication</i> #68	<i>Independent Study:</i> Acute effects of metformin on plasma glucose regulation in mourning doves	
Mentor Spring 2023	Hudda Alkahedy Nutrition	<i>CHS 494 Capstone research experience:</i> Involved with a study designed to examine the anti-diabetic effects of a novel fiber complex <i>Thesis:</i> Acute effects of metformin on plasma glucose regulation in mourning doves	
Chair 9/22-4/23	Ryan Hassen Biomedical Sciences, Certificate in Evolutionary Medicine <i>Co-authored publication</i> #68		
Mentor 09/19-5/23	Vivian DoleVy Biomedical Sciences, ASU	<i>Independent Study:</i> Comparison of the efficacy of genistein and exercise at mitigating vascular changes induced by a high fat diet in mice. <i>SOLUR project:</i> Effects of in vitro exposure to high glucose on oxidative stress.	
Chair 12/20-02/21/23	Avin Kreisler Biomedical Sciences with certificate in Evolutionary Medicine <i>Co-authored publication</i> #68	<i>Honor's Thesis:</i> The role of gluconeogenesis in the regulation of avian blood glucose concentration <i>Independent Project:</i> Super birds: The majority of avian blood metabolites are not altered by urban environments – Results from a systematic review	
Mentor 12/20-4/22	Nereus Noshirwani LEAP Scholar Biomedical Sciences, ASU	<i>LEAP Scholar Project:</i> Ultra-processed foods and fast food restaurants: A menu and ingredient analysis.	<i>2nd Place, 2022 SOLS Undergraduate Research Poster Symposium</i>

Co-authored publication
#73

Mentor 10/20-4/22	<i>Kavita Singh</i> Biological Sciences <i>Co-authored publications</i> #62, 68	<i>SOLUR Research Project: A systematic review of the effects of macronutrient manipulation on avian blood glucose concentration</i>	<i>-2nd Place, Undergraduate Student Poster Presentation, Arizona Physiological Society conference, Glendale, AZ -Presented research at 2021 SOLS UG Research Symposium -2020-2021 SOLUR Student</i>
Mentor 12/20-12/21	<i>Angel Morales</i> Biological Sciences <i>Co-authored publication</i> #70	<i>Independent Project: Link between level of food processing and glycemic load</i>	<i>3rd Place, Undergraduate Student Poster Presentation, 2021 Arizona Physiological Society Conference, Glendale, AZ -Presented research at 2021 SOLS UG Research Symposium -2020-2021 SOLUR Student</i>
Mentor 2/20-12/21	<i>Ellinor Hjelm</i> Biological Sciences, SOLS <i>Co-authored publications</i> #70, 71	<i>SOLUR Research Project: Total antioxidant capacity of foods based on level of processing</i>	<i>-Presented research at 2021 SOLS UG Research Symposium -2020-2021 SOLUR Student</i>
Co-Chair 11/18-5/22	<i>Nafis Eghrari</i> Biomedical Sciences, SOLS, ASU	<i>Honor's Thesis: Differential expression profile of sphingosine-1-phosphate receptors in human brain vascular smooth muscle cells and endothelial cells following hypoxia plus glucose deprivation Mentor: Rayna Gonzales, UA-Phoenix</i>	
Member 09/21-04/22	<i>Dean Drake</i> Biomedical Sciences, SOLS, ASU	<i>Honor's Thesis: Predictors of plasma protein levels in house finches: The roles of urbanization, molt, disease status, and body condition Mentor: Kevin McGraw, SOLS, ASU</i>	
Member 12/20-11/21	<i>Kathryn DePinto</i> Biological Sciences, SOLS	<i>Honor's Thesis: Back to the future: Does previously grown ornamental coloration in male house finches reveal mate quality at the time of pair formation? Mentor: Kevin McGraw, SOLS, ASU</i>	
Chair 3/20-4/9/21	<i>Asfia Numani</i> Biological Sciences, SOLS	<i>Honors Thesis: Fetal growth models of cardiac size, shape and function, and prediction of congenital cardiomyopathy in fetuses with diabetic mothers</i>	

Chair 3/20-4/9/21	Shambhavi Mishra Biological Sciences, SOLS	<i>Mentor:</i> Jon Plasencia, Phoenix Children's Hospital <i>Honors Thesis:</i> Fetal growth models of cardiac size, shape and function, and prediction of congenital cardiomyopathy in fetuses with diabetic mothers <i>Mentor:</i> Jon Plasencia, Phoenix Children's Hospital
Member 10/19-4/13/21	Matthew Siegel School of Molecular Sciences, ASU	<i>Honors Thesis:</i> Role of the pro-inflammatory Bradykinin type 1 receptor in tissue remodeling associated with chronic hypertension <i>Mentor:</i> Jeremy Mills, SMS, ASU
Chair 08/20-4/9/21	Carissa McEvoy Human Nutrition <i>Co-authored publication #58</i>	<i>Honor's Thesis:</i> Effects of intermittent fasting regimens on circulating markers of oxidative stress in humans: A systematic review of randomized controlled trials
Member 6/20-3/29/21	Shayna Bauer Biological Sciences, ASU	<i>Honor's Thesis:</i> The potential effect of vinegar ingestion on alleviating depression through restored gut microbiome composition. <i>Mentor:</i> Carol Johnston, CHS
Chair 3/19-4/1/21	Rijul (Raj) Jain Biological Sciences, ASU <i>Co-authored publication #60</i>	<i>Honors Thesis:</i> Systematic review of the impact of genistein on diabetes related outcomes
Mentor Fall 2020	Marie Langlois	<i>Honors Contract, HCD 400:</i> Exploring genistein for treatment of hyperglycemia in diabetes.
Mentor Fall 2020	Faith Kyaruzi Medical Studies, CHS	<i>Honors Contract, HCD 400:</i> Finding journal articles for a systematic review and meta-analysis on the relationship between urbanization and blood sugar in birds.
Mentor 07/20-11/20	Sarah Mathias Biological Sciences, SOLS	<i>Independent Project:</i> Comparison of nutritional physiology in urban vs rural birds.
Chair 3/19-5/20	Michael Renner Biological Sciences, ASU <i>Co-authored publications #52 & 55</i>	<i>Honors Thesis:</i> Tibial vasodilation in mourning doves on a Western-style diet – defended in 2020, continued to conduct independent research as a post-bacc.
Chair 05/18-4/30/20	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

Chair 05/18- 3/20/20	Lana Kayata Biological Sciences, ASU <i>Co-authored publication</i> #55 <i>Initial position after graduation: Dental Student at Midwestern University, Glendale</i>	<i>Honors Thesis:</i> Effects of an Urban diet on glucose, sodium, and osmoregulation in the mourning dove (<i>Zenaida macroura</i>)	
Member 3/19-5/19	Jacqueline Moreno Biological Sciences, ASU	<i>Honors Thesis:</i> Food choice and Health Status of Birds. <i>Mentor:</i> Kevin McGraw, SOLS, ASU	
Member 6/18-5/19	Laren Schaper Biological Sciences, ASU	<i>Honors Thesis:</i> Bird-feeder cleaning lowers disease severity in rural but not urban birds. <i>Mentor:</i> Kevin McGraw, SOLS, ASU	
Chair 08/18-4/19	Kasandra Rascon Biology, ASU	<i>Honors Thesis:</i> Effects of menthol on weight regain and maintenance of caloric restriction, defended 4/11/19 <i>Co-mentor:</i> Richard Herman, SMS	
Chair 12/16- 3/26/19	Courtney Wood Biological Sciences, ASU <i>Initial position after graduation: MS student, Medical Nutrition program, ASU</i>	<i>Honors Thesis:</i> Novel organometallic complex mitigates liver injury caused by a 10-week high fat diet in adolescent male Sprague-Dawley rats.	
Mentor 3/18-05/19	Monique Bertin Biological Sciences, ASU	Lab assistance with ecophysiology projects	<i>SOLUR Apprentice</i> (2018-2019)
Mentor 08/18-05/19	Mohamad Abdallah Biological Sciences, ASU	Lab Assistant	
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.	

Chair 12/16-4/6/18	Arturo (Niko) Rojas Health Sciences, ASU	<i>Chair:</i> Boris Decourt, Biodesign, 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	
Member 08/15-05/16	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	
Chair 08/14-03/21/18	Alice Gadau Biological Sciences, ASU <i>Co-authored Publication</i> #25, 43 <i>Initial position after graduation: Doctoral Student, The Rockefeller University, New York, NY</i>	<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 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>Co-authored publication</i> #48	<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	
Mentor 12/16-7/17	Austin Lehew Biological Sciences	Volunteer researcher in the lab, assisted with various projects, enrolled in BIO 495	
Mentor 08/15-05/17	Daphne Lodes (Eagleman) Biological Sciences, ASU <i>Initial position after graduation: Doctoral student at U Illinois at Urbana Champaign</i>	Effects of in vitro glucose exposure on avian vascular reactivity; Exploring the relationship between osmolarity and glucose in birds	<i>Invited to present research seminar at the 2016 AzPS Conference</i>
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 <i>Honors Contract:</i> HSC 420	
Mentor Spring 2017	Amr Nasef College of Health Solutions, ASU		
Mentor Spring 2017	Lauren Martinez Health Sciences, ASU	<i>Honors Contract:</i> HCD 400	
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 Hearns 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 <i>Team project:</i> Evaluation of effectiveness of sesame seed oil at reversing complications associated with pre-diabetes.	
Mentor 08/14-5/16	Troy Wagner Biological Sciences, ASU		
Chair 1/14-12/16	Liam O'Neill Biological Sciences, ASU <i>Initial position after graduation: 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 (\$3500)</i>
Mentor 05/19/14- 08/19/14	Marc Girard Bioinformatics, University of Poitiers, France <i>Co-authored Publication #39</i> <i>Currently employed as a LIMS Consultant for INFOGENE, Region de Lyon, France</i>	<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>Co-authored publication #47</i>	<i>Honors Thesis:</i> Evaluating the influence of urbanization on quail physiology and responses to stress. <i>Chair:</i> Pierre Deviche, SOLS, ASU	

Mentor 8/13-5/16	Zoha Ahmed Biological Sciences, ASU <i>Co-authored Publication</i> #29 <i>Initial position after graduation: University of Arizona College of Medicine, Class of 2021</i>	<i>Independent projects: Contribution of muscle to glucose regulation in birds. Comparison of fat ingestion by birds living in urban and desert environments. Team Project: High glucose impairs acetylcholine-mediated vasodilation in isolated arteries from mourning doves (Z. macroura).</i>	<i>2015-2016 School of Life Sciences Undergraduate Research (SOLUR) Fellowship, ASU 2015-2016 Ralph A. Fisher Jr. Scholarship, School of Life Sciences; 2014-2015 School of Life Sciences Undergraduate Research Fellowship</i>
Chair Fall 2012- Spring 2015	Noor Raad Biological Sciences, ASU <i>Initial position after graduation: Research and Community Outreach Coordinator, Memorial Sloan Kettering Cancer Center, New York, NY</i>	<i>Honors Thesis: Replacing dietary meat with fish significantly increases plasma glucose without affecting protein glycation.</i>	
Chair Fall 2013- Spring 2015	Soukaina Kouteib, Biological Sciences, ASU	<i>Honors Thesis: The role of lipolysis in regulating plasma glucose concentrations in mourning doves.</i>	<i>Spring 2015 SOLUR Fellowship, ASU</i>
Chair Fall 2012- Spring 2015	Matthew Calhoun Biochemistry, ASU <i>Co-authored Publication</i> #24	<i>Honors Thesis: Hepatic inflammatory response following high fat diet in adolescent male Sprague-Dawley rats.</i>	<i>2013 APS Summer Undergraduate Research Fellowship</i>
Chair Fall 2012- Spring 2015	Anna Simperova Animal Physiology and Behavior, SOLS, ASU <i>Co-authored Publication</i> #25, 27	<i>Honors Thesis: Genistein-mediated diet tends to increase oxidative stress in the vasculature of ob/ob mice.</i>	<i>2014-2015 School of Life Sciences Undergraduate Research Fellowship 2014 Nominated, Undergraduate Student of the Year, SOLS 2013-2014 School of Life Sciences Undergraduate Research Fellowship</i>
Member Spring 2014	Stephanie Helland Nutrition Program, ASU	<i>Honors Thesis: Effects of novel functional food on wellness indicators in college students. Mentor: Carol Johnston, Nutrition, ASU</i>	
Member Spring 2014	Janine Faraj Biological Sciences	<i>Honors Thesis: Differential activation of unfolded protein response in two metastatic osteosarcoma cell lines following hypoxic and chemotherapeutic stress. Research Mentor: Aparna Sertil, UA, Phoenix</i>	
Mentor 5/13-8/13	Katerine Diaz Marin, MS, RD,	<i>Independent project: Role of muscle in avian glucose regulation.</i>	<i>2013 STEP-UP summer fellowship from APS</i>

	Dietetics and Nutrition, Florida International University, Miami <i>Current position:</i> <i>Registered Dietitian and Adjunct Professor, Florida International University, Miami, FL</i>	
Mentor 1/13-8/13	Danielle Alder Nutrition Program, ASU	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	General lab assistance.
Mentor 8/11-7/13	Tiffany Juan Bioengineering, ASU <i>Co-authored Publication #25</i> <i>Current position: Direct Care Worker, Alarys Home Health, Phoenix, AZ</i>	<i>Independent project:</i> Pathophysiological consequences of schistosome infections in doves.
Mentor 9/12-12/12	Amanda Caskey Nutrition Program, ASU	<i>Independent project:</i> Role of diet in glucose regulation across species.
Mentor 1/12-5/13	Corey Frahm Health Sciences Program, ASU <i>Initial position after graduation: Pharmacy Graduate Program, U Arizona, Tucson</i> <i>Current position: Pharmacist, Banner University Medical Center, Scottsdale, AZ</i>	<i>Independent project:</i> The controversial role of leptin in birds.
Chair 8/11-5/13	Tyler Liss Health Sciences Program, ASU <i>Initial position after graduation: Medical Student, U Arizona, Phoenix</i> <i>Current Position: Long Term Disability Senior Claims Examiner, Chandler, AZ</i>	<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>Independent project:</i> Effects of acute exposure to high glucose on tissue oxidative stress.

Mentor 6/11-8/11	<p><i>Currently in medical school at Midwestern U-Glendale, AZ</i></p> <p>Carolina Pusec, PhD Dept of Physiology, UA, Tucson <i>Co-authored Publication #19</i></p>	<i>Independent project: Endothelial nitric oxide synthase expression in avian arteries.</i>	
Mentor 8/09-6/11	<p><i>Currently enrolled in medical school at the University of Illinois, Chicago</i></p> <p>Natalie Gentry (Rodriguez) Nutrition Program, ASU <i>Co-authored Publication #17</i></p>	<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	<p><i>Initial position after graduation: Nursing Student, Brookline College-Phoenix</i></p> <p>Mateja Lekic Applied Biological Sciences, ASU <i>Co-authored Publication #8, 19</i></p> <p><i>Initial position after graduation: Medical Student, U Arizona, Tucson</i></p> <p><i>Current Position: Internal Medicine physician at Banner University Medical Center, Phoenix, AZ</i></p>	<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	<p>Maggie Garvin Nutrition Program, ASU <i>Initial position after graduation: Naturopathic Medical Student, SCNM-Chandler, AZ</i></p>	<i>Independent project: Comparison of glucose concentrations across birds, mammals, and reptiles.</i>	
Mentor 1/09-8/10	<p>Richard Sparr Applied Biological Sciences, ASU <i>Co-authored Publication #16, 34</i></p> <p><i>Currently a Quality Coach at Western Governor's University</i></p>	<i>Independent project: Putative role for insulin in glucose excretion in birds.</i>	

Chair 2008-2009	Christina Smith Nutrition Program, ASU <i>Co-authored Publication</i> #12, 19	<i>Honors Thesis:</i> The effects of advanced glycation end products and oxidative stress in the vasculature of birds.	<i>3rd place, UG poster award competition, 2009</i> <i>Arizona Physiological Society conference</i>
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E. High School Trainees Since Employment at ASU

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

SERVICE

A. PROFESSIONAL SERVICE

2025-present	Science and Research Advisor, One Medicine Group, Scottsdale, AZ
2025	Peer Reviewer, WM Keck Foundation research proposal 3/11/25 (8h)
2025	Judge, undergraduate and graduate poster presentations at the All Scientists Meeting for the Central Arizona Phoenix, Long Term Ecological Research project (1/17/25) (1h)
2023-2024	Special Issue Editorial Team, <i>Topic: Urbanization and Avian Physiology</i> , <i>Frontiers in Physiology</i>
2023-present	Invited, Review Editor, <i>Frontiers in Nutrition, Nutrition and Metabolism</i>
2023-present	Invited, Review Editor, <i>Frontiers in Physiology</i>
2021	Invited Ad hoc peer reviewer for a grant submitted to the French National Research Agency, Paris, France
2021	Invited, Associate Editor for a manuscript submitted to <i>Frontiers in Ecology and Evolution</i>
2020-present	Invited, Academic Editor, <i>Journal of Nutrition and Metabolism</i> <i>Handle ~4 manuscripts/month</i>
2019	Invited Ad hoc peer reviewer for a grant submitted to FWF Austrian Science Fund, Austria.
2019-2020	International and Scientific Committee for the 2020 International Symposium on Avian Endocrinology (ISAE) conference which will be held in Edinburgh, Scotland. (postponed due to Covid)
2019	Invited Ad hoc peer reviewer for a grant submitted to FWF Austrian Science Fund, Austria.
2019	Invited Ad hoc peer reviewer for a Scotland Grant submitted to Heart Research UK
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 13 th 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 Heart Association (AHA)

- 2024 Study Section, Established Investigator Awards (Fall)
 2018-2024 Study Section, Vascular Biology & Blood Pressure BSc Fellowship Program (Spring and Fall submission cycles)
 Spring 2017 Vascular Biology & Blood Pressure BSc 2 Study Section

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 (APS)

- 2026-pres Elected member, Awards Committee
 2025 Judge, Scholander Poster Session, American Physiology Summit, Baltimore, MD
 2023-2025 Programming Committee, Comparative and Evolutionary Physiology Section of the American Physiological Society
 -Organizing sessions for conferences
 2019-2025 Elected, Awards Chair, Comparative and Evolutionary Physiology Section of the American Physiological Society
 2019 Meeting Mentor for three Caroline tum Suden Awardees at the annual Experimental Biology conference in Orlando, FL
 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
 2018 Invited Reviewer, IOSP Undergraduate Summer Research Fellowship applications
 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

- 2017-2018 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-pres** 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
- 2013-2017 Judge, IOSP Undergraduate Research Fellowship applications
- 2012-2021 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.”
- 2014-2015 Professional coach, Integrative and Organismal System Physiology (IOSP) Fellow, *M. Alrubaiee*, University of Maryland College Park - online
- 2014 APS Abstract-based Travel Award Judge for the Comparative Approaches to Grand Challenges in Physiology Intersociety meeting
- 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
- 2010-2015 Comparative and Evolutionary Physiology (CEP) Section Treasurer
- 2010-2012 Elected, Communications Committee
- I wrote the original draft of the Endocrinology portion of the www.physiologyinfo.org consumer website. I also reviewed the content for all of the other sections.*
- 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 Trainee Advisory Committee Representative on the CEP Section Steering Committee, APS
 2006-2009 Communications Committee, Trainee Representative; Judge, AAAS Science and Engineering Mass Media Fellowship

Arizona Physiological Society

- 2023 Judge Graduate and Medical Student abstracts, 2023 Arizona Physiological Society conference
 2020 Reviewed graduate student abstract submissions for annual conference
 2018-2019 **Past-President**
 Help organize fall conference; review abstracts; put together program booklet; solicit vendors; organize/chair vendor show; judge 14 oral presentations from graduate students and postdoctoral fellows
 2017-2018 **President**
 Organize annual fall conference; review abstracts; put together program booklet; solicit vendors; organize/chair vendor show; judge poster presentations
 2017 **President-Elect**
 Help organize fall conference and review abstracts; solicit vendors; judge poster presentations
 2015 Judge, Graduate student and Postdoctoral Fellow poster presentations at the annual conference

National Science Foundation (NSF)

- Dec 2020 Peer Reviewer, Physiological Mechanisms and Biomechanics Program, Division of Integrative Organismal Systems – HBCU EiR Proposal

Sigma Xi, The Scientific Research and Honor Society

- 2025 Assembly of Delegates Ad hoc Committee on Resolutions, selected by the Executive Director and CEO
 2020 Volunteer Reviewer for Membership Nominations
 2019 Selected by the President of Sigma Xi to be one of 6 members of the Teller Committee at the annual conference. Responsible for collecting and counting votes taken during Caucus meetings.
 2017-2024 Sigma Xi Committee on Qualifications and Membership
review membership qualifications and chapter grant applications
bi-annual half day committee meetings
 11/12/16 Sigma Xi Diversity Task Force, Annual meeting, Atlanta, Georgia
 2014-pres **President, ASU Chapter of Sigma Xi**
Organize Spring Banquet; review grant applications

- 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)

Acta Physiologica; AIMS Agriculture and Food; American Journal of Physiology – Endocrinology and Metabolism; American Journal of Physiology – Gut and Liver Physiology; American Journal of Physiology – Heart and Circulatory Physiology; American Journal of Physiology – Regulatory, Integrative and Comparative Physiology; Arab Journal of Scientific Research; British Journal of Nutrition; Comparative Biochemistry and Physiology A; Environmental Research; European Journal of Pharmacology; Frontiers in Cardiovascular Medicine; Frontiers in Immunology; Frontiers in Nutrition; Frontiers in Nutrition and Metabolism; Frontiers in Physiology; Global Ecology and Conservation; International Journal of High School Research; Italian Journal of Animal Science; Journal of Animal Physiology and Animal Nutrition; Journal of Experimental Biology; Journal of Nutrition and Metabolism; Journal of the Science of Food and Agriculture; MDPI – Antioxidants; MDPI – Nutrients; MDPI – Pharmaceuticals; Microcirculation; Obesity; Physiological Reports; PLOS ONE; Poultry Science; Preventing Chronic Disease; Public Health Nutrition; Urban Ecosystems

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

B. SERVICE TO EXTERNAL COMMUNITY

- 2023 External Tenure and Promotion Reviews for peer institutions
 -2026 Junior high student won 1st place in Life Sciences at school competition and Phoenix competition
 -2025 Junior high student won 1st place at school and 2nd place city competitions
- 2024 Packed food boxes for an organization aimed at ending world hunger, Feed My Starving Children, Mesa and Tempe, AZ
- 2023 External Tenure and Promotion Reviews for peer institutions
- 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

Prior to promotion

- 2014 Invited to mentor undergraduate summer research fellows, 2016-2019 BUILDing SCHOLARS (**B**uilding **I**nfrastructure **L**eading to **D**iversity: **S**outhwest Consortium 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. *I developed and conducted five 3.5-hour workshops on Saturdays to teach middle school students about comparative, digestive and urinary physiology.*
- 2013 Reviewer for Medical Student Prospectus, University of Arizona College of Medicine, Phoenix
- 2011 Developed and Led a Physiology Understanding (PhUn) Week Event for 2nd graders, Kyrene de los Niños Elementary School, Tempe, AZ, 11/9 *I developed a 'Hopscotch through the Heart' game to help students learn about cardiac physiology (see abstracts: Rodriguez et al. 2012).*
<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 Rio Rancho High School Research Expo (grades 9-12), NM
- 2002 Volunteer, Scanning Electron Microscopy Outreach Program

Media/Outreach

- 10/2020 Invited blog entry, "Of Pets, People and Lucky Ducks: Risks of Covid-19 Transmission", *I Spy Physiology* blog, American Physiological Society
- 3/2020 Interviewed, "Working Off-site: How to do great work outside the lab" Q&A published in *The Physiologist Magazine*. March 2020 issue, pp. 12-13.
https://www.the-aps.org/docs/default-source/tphysmag2019/tphys_march20_web.pdf?sfvrsn=3b69a51e_2)
- 9/2019 Interviewed by the American Physiological Society for the *Under the Microscope* series published in *The Physiologist Magazine*. September 2019 issue, pp. 15-16.
https://www.the-aps.org/docs/default-source/tphysmag2019/tphys_sept2019_web.pdf?sfvrsn=5dcbc070_4)
- 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
- 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
- 2010-2025 Invited Blogger for National Geographic Digital Media and American Physiological Society

C. SERVICE TO UNIVERSITY, COLLEGE AND UNIT

University

2026-pres	Co-Lead, Adapting to City Life Interdisciplinary Research Team, NSF-Funded Central Arizona Phoenix Long Term Ecological Research Program (CAP LTER)
2025-2027	Member and CHS representative, Curriculum and Academic Programs Committee, University Senate
8/20/2025	Volunteered at Fusion on First university housing to help students move-in as part of Sparky's Welcome Team
2019-2026	Judge, Central Arizona Phoenix Long Term Ecological Research Project All Scientists Poster Symposium
2014-pres	Appointed member, Institutional Animal Care and Use Committee (IACUC)
2012	Volunteer for ASU Commission on the Status of Women/Staff Council Professional Development Conference, ASU.
2010-2015	Mentored Obama Scholarship recipients, ASU.
2010-2011	Forward to Professorship Conference organizing committee, AWIS, Central Arizona Chapter
2009	Spoke at ASU Future Freshman Reception, Culver City, CA
2002-2005	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

12/25-2/26	Co-Chair, Ad hoc Annual Review Committee, CHS, ASU
9/25-12/25	Promotion and Tenure Committee, CHS, ASU
12/24-2/25	Ad hoc Annual Review committee, CHS, ASU
11/25/24	Sun Devil Day, Recruitment event, CHS, ASU
08/19/24	CHS Graduate Orientation, CHS, ASU
04/19/24	Attended CHS student presentations at the annual Virtual Barrett Thesis Symposium
11/06/23	Peer reviewer, Faculty Jumpstart grants
10/05/23	Met with nutrition students in CHS 101 to welcome them to ASU and encourage them to join Barrett and get involved in research
Fall 2023	Participated in Downtown Barrett Welcome event, ASU
Spring 2023	Recruitment: Sent out postcards welcoming new students to CHS and ASU
2022-2023	Metabolomics Assistant Professor Search Committee
7/19/22	Participated in Faculty Hangout Session for new CHS students
2021-2023	Metabolomics Faculty Search Committee
2021-2022	Basic Nutrition Science Faculty Search Committee
2021-2022	T32 Task Force – exploring options to apply for T32 funds to support ENS graduate students
2020-2022	Progressive Exam Task Force – seeking to align exam with course objectives and needs of students

2020-2023	ENS Grad Club Advisor
2020-2023	Member, ENS Executive Committee
2020-2022	Member, CHS Personnel Annual Review Committee
2021	Conducted Peer Evaluation of Teaching
2019-2020	Co-chair of Exercise Physiology Tenure Track Search Committee
2019	Personnel Subcommittee: Annual review group developing group composition, process and structure
2019	Peer reviewer, Jumpstart Faculty Grants
2018-2022	CHS Personnel Committee, Elected member
2018	SNHP Personnel Committee
2018	Peer reviewer, Faculty Jumpstart Grants
2018	CHS Success Hub - Faculty
2017-2018	Elected, Governance Grievance Committee, College of Health Solutions, ASU
Spring 2016	Judge, <i>Downtown Discovers</i> , 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	Met with families and students at the 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

Academic Units

Nutrition Academic Program, College of Health Solutions

2025-2026	Promotion and Tenure Committee, CHS
2025	Organizing Committee, CHS NTR Seminar Series
2024	Participated in CHS Nutrition @ CHS Strategic Identity/planning process meetings/tasks
2024	ENS Program Admission and Course Change Subcommittee
09/08/23	Participated in <i>Identity Stories</i>
08/25/23	Participated in <i>Nutrition Identity Language Stories</i>
11/18/22	Tempe Barrett Expo retention and recruitment event, Represented CHS
11/16/22	<i>Up Beet</i> zoom meeting student retention event
11/09/22	Participated in the ENS Prospective Student Event for International Students
11/02/22	Participated in Tempe Transfer Day tabling event, CHS recruitment
10/27/22	Participated in the ENS Prospective Student Event for International Students
10/25/22	<i>Up Beet</i> zoom meeting student retention event

10/19/22 *Lunch Bunch*, Nutrition Student Retention event
 2022-2025 Executive Committee, Biology PhD Program, SOLS
 2020-2023 Program Co-Director and Co-Chair of the Executive Committee, Exercise and Nutritional Sciences (ENS) doctoral program, CHS
 2022-2023: 7-year Academic Program Review
 2022-2023: Aligned course outcome measures with Academic Program Assessment and program learning objectives
 2022 Created rubrics for the Dissertation Proposal and Defense to align with program learning objectives and outcomes
 2021-2023 Co-chaired a subcommittee to create a Basic Translational Science Research Methods course to meet the needs of incoming students focusing on Basic Nutrition Science
 2022 Eliminated GRE requirement for admissions (effective 2023) to increase program accessibility
 2021-2022: Revised program Bylaws
 2022 Revised Academic Program Assessment criteria
 2022 Co-chaired subcommittee to evaluate learning objectives and outcomes and eliminated progressive exam as a milestone as it did not align with course outcome measures
 2021 Revised Academic Program Assessment criteria
 Spring 2019 Mock Grant Reviewer, EXW 701

School of Nutrition and Health Promotion (disestablished in 2018)

2014-present Barrett Faculty Honors Advisor for Nutrition
 2018-2019 Floor Fire Warden, 5th Floor LSC, SOLS
 Fall 2023 Hosted welcome events for Barrett Nutrition students
 2018-2023 Interviewed PhD candidates for the ENS doctoral program
 2018 Tenure Track Faculty Search Committee, Nutrition program
 2017-2019 Faculty research opportunities for students website manager, Nutrition Promotion and Tenure ad hoc committee, SNHP
 2016 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 2015-2016 Coordinator, Undergraduate Seminar Series, Nutrition Program
 2014-2017 Conducted Peer Reviews of Teaching
 Spring 2015 Nutrition Bylaws Revision Committee, Nutrition and Health Sciences Program
 2014 Personnel Advisory Committee, Nutrition Program
 2014 Personnel Advisory Committee, Health Sciences Program
 2014 PANW Comprehensive Exam Committee, SNHP
 2013 Curriculum Committee, Health Sciences Program, SNHP
 2012 Online Technology Committee to improve Blackboard, SNHP

2012-2014	Graduate Student (ad hoc) Committee, Nutrition Program, SNHP.
2011	Master's Competency (ad hoc) Committee, Nutrition Program, SNHP
2009	The Center for Healthy Lifestyles Strategic Planning Unit, ASU Downtown
2008	Healthy Lifestyles Research Center Development Committee member, ASU Polytechnic
2008	Health Sciences Program Proposal Committee member for undergraduate degree program, ASU Polytechnic
2008	Conducted BIO202 Human Anatomy and Physiology Field Trip to Mortuary Science program at Chandler Gilbert Community College, Mesa, AZ
2003-2004	Graduate Student Representative, Resources Committee, Physiological Sciences Program, The University of Arizona, Tucson
2002-2003	Graduate Student Representative, Program Committee, Physiological Sciences Program, The University of Arizona, Tucson
2001-2005	Preceptor for first year students, Physiological Sciences Program, The University of Arizona, Tucson

PROFESSIONAL DEVELOPMENT

Leadership/Service

2026	Annual Review Committee (Co-Chair) Kick-Off Meeting/Training, CHS
2025	“The Generative University: Launching a New Era of Excellence”, Frank Rhodes Lecture Series on the Creation of the Future, ASU
2025	Yidan Prize Conference, Mary Lou Fulton College of Teaching and Learning Innovation, ASU
2025	Equity Circle, Central Arizona Phoenix Long Term Ecological Research project All Scientist Meeting
2024	Annual Review Committee Kick-Off Meeting/Training, CHS
2024	Workday Knowledge Bytes, Introduction to Reports, ASU
2024	Workday Knowledge Bytes, Entering time in Workday, ASU
2024	Workday Absence Reporting, ASU
2024	Workday Time Tracking and Time Reporting, ASU
2024	Workday HCM Core Concepts, ASU
2024	Introduction to Workday, ASU
2024	All Campus Barrett Fall Meeting/Training, ASU
2024	How to Evaluate Programs and Project Management, CHS
2024	Barrett Faculty Honors Advisor (FHA) Fall Orientation, ASU
2024	Preventing Harassment and Discrimination training for Designated Campus Colleagues, University of Arizona
2024	Barrett FHA Spring meeting/training, ASU
2023	Fellowship Awards Peer Review Training, American Heart Association
2023	‘Leadership for the Future’, Festival: The Ideas Shaping Higher Education and The College of the Future
2023	‘A Social Contract for the Future’, Chronicle Festival: The Ideas Shaping Higher Education and The College of the Future

- 2023 ‘The Students of the Future’, Chronicle Festival: The Ideas Shaping Higher Education and The College of the Future
- 2023 ASU – Preventing Harassment and Discrimination
- 2023 ASU – Your Duty to Report
- 2023 Arizona Public Service Orientation, ASU
- 2023 Writing an Assessment Plan/Report, UOEEE, ASU
- 2022 Teaching Civility in the Workplace, ASU CareerEdge Training
- 2022 Science Communication & Engagement with People of Faith
- 2022 The Link: Linking Science Communication Research to Practice Through Diversity and Inclusion seminar, Sigma Xi International Forum on Research Excellence Conference
- 2022 The Story Collider: Science Communication Through Personal Storytelling seminar, Sigma Xi International Forum on Research Excellence Conference
- 2022 Research Impact: How to make a difference through science policy and communication seminar, Sigma Xi International Forum on Research Excellence Conference
- 2022 The Time is Now: A Critical Need for Diversifying the STEM Professoriate seminar, Sigma Xi International Forum on Research Excellence Conference
- 2022 Why Addressing Racism in the Academy will Bring More Impact, Power, and Quality of Life to All of Us seminar, Sigma Xi International Forum on Research Excellence Conference
- 2022 Dismantling Barriers to STEM: Innovative & Culturally Responsive Models for Student Preparedness & Success seminar, Sigma Xi International Forum on Research Excellence Conference
- 2022 Equity & Inclusivity in STEM Environment: What Does it Mean & How Do We Achieve It seminar, Sigma Xi International Forum on Research Excellence Conference
- 2022 Facing Hard Times: 8 Steps to Promoting Resilience & Well-being for a Sustainable World seminar, Sigma Xi International Forum on Research Excellence Conference
- 2022 Arizona Chapter Designated Delegate, International Forum on Research Excellence (IFoRE), Sigma Xi – The Research Honor Society Annual Meeting
- 2022 Faculty and Academic Professional Search Workshop, ASU
- 2022 ASU Inclusive Communities – Faculty Training, ASU
- 2022 CHS: Diversity & Faculty Recruitment Training, ASU
- 2022 APARS Faculty Search: Evaluator Training, ASU
- 2022 Fellowship Awards Peer Review Training, American Heart Association
- 2022 Student Organization Advisor Training, ASU
- 2022 Distilling Complexity communication and science storytelling workshop, Society for Integrative and Comparative Biology
- 2021 ASU Inclusive Community Training for Faculty
- 2021 Arizona Chapter Designated Delegate, Sigma Xi Annual Meeting and Student Research Conference
- 2021 Microaggressions and Implicit Bias training, ASU
- 2021 Theatre of the Oppressed – Hosted by the CAP LTER Justice, Equity, Diversity, & Inclusion (JEDI) Committee
- 2021 “Implicit bias and stereotype threat” webinar and discussion, Diversity, Equity and Inclusion Series, American Physiological Society
- 2021 “Storytelling: Celebrating Hidden Figures in Physiology” webinar and discussion, Diversity, Equity and Inclusion Series, American Physiological Society

- 2021 Dismantling Systemic Racism in Higher Education: An Unfinished Project, Faculty Women’s Association, ASU
- 2021 “Picture a Scientist” Panel and Film Discussion, The American Physiological Society – issues related to women and diversity in science
- 2021 AccessZone Training to increase institutional awareness and support for students with disabilities, SOLS
- 2021 Unconscious Bias in the Peer Review Process, American Heart Association
- 2021 The Art and Science of Reviewing Proposals, NSF
- 2020 Arizona Chapter Designated Delegate, Sigma Xi Annual Meeting and Student Research Conference (virtual due to Covid)
- 2020 Campus Security Authority Training, Clery Act, ASU
- 2020 ASU Committee for Campus Inclusion webinar: “Racism is not new: Tackling systemic racism in 2020”
- 2020 Covid-19: Return to Campus Training for Supervisors, ASU
- 2020 Covid-19: Community of Care Training for Employees, ASU
- 2020 Women in Leadership, CHS Health Talks, ASU
- 2019 Transitioning from a Technical Mindset to a Technical Leader Mindset, Leadership Workshop, Sigma Xi Annual Meeting and Student Research Conference, Madison, WI
- 2019 Managing Finances Chapter Workshop, Sigma Xi Annual Meeting and Student Research Conference, Madison, WI
- 2019 Arizona Chapter Designated Delegate, Sigma Xi Annual Meeting and Student Research Conference, Madison, WI
- 2019 Leadership Skills and Opportunities: How to Build a Research Team Module, Faculty Mentoring Development Program, UNM
- 2019 Helping Mentees Obtain and Manage Grant Funding Module: Faculty Mentoring Development Program, UNM
- 2019 Diversity & Recruitment Training and Certification, ASU
- 2018 Leading from where you are: Managing up, down, and sideways, CHS workshop
- 2018 Workday Open house workshop, ASU
- 2018 Fellowship Award Peer Review Training, AHA
- 2018 Graduate Student Mental Health Workshop, ASU
- 2018 ASU Faculty Women’s Association: Successful Promotion to Full workshop
- 2018 Active Shooter Training, EH&S, ASU
- 2017 Fellowship Predoctoral and Postdoctoral Training to review applications, American Heart Association
- 2017 Intersections: Preventing Harassment & Sexual Violence (EDU-US), ASU
- 2017 Peer Review Grant training, American Heart Association
- 2017 Peer Review Research Grants Course, American Heart Association
- 2016 Science Communication workshop, Sigma Xi annual conference, Atlanta, Georgia
- 2016 Barrett Celebrating Honors Symposium, Tempe, AZ
- 2016 Academic Motherhood lecture, ASU
- 2015 ASU Connections Case Management – Health Solutions, ASU
- 2015 Web Conferencing Webinar, ASU
- 2012 At Risk, University Staff Online Course to identify and approach students in need of psychological counseling

2009 Counseling and Consultation Presents: Manage Your Stress and Be Your Best Workshop, ASU

Research

2026 Biosafety Annual Refresher Course, ASU
2026 Laboratory Safety Refresher Course, ASU
2026 Hazardous Waste Annual Refresher Course, ASU
2026 ASU Field Research Safety Course
2026 GCP - Social and Behavioral Research Best Practices for Clinical Research, CITI Training Refresher Course
2025 Annual Fire Safety Training, ASU
2025 Test Bed: Toward a Network of Programmable Cloud Laboratories (NSF PCL Test Bed)
2025 Exploring the role of physical activity in obesity treatment, body weight management, and related health outcomes in adults: A workshop. The National Academy of Sciences, Engineering, and Medicine
2025 IOS Virtual Office Hour (NSF)
2025 Attended Metabolomics Symposium, ASU
2025 CHS Faculty Research Day, ASU
2025 All Scientists Meeting, Central Arizona Phoenix Long Term Ecological Research Meeting, Scottsdale, AZ
2025 Annual Biosafety and Bloodborne Pathogens Training, ASU
2024 VA Annual OSHA Bloodborne Pathogens Standard
2024 VA Privacy and Information Security Awareness and Rules of Behavior
2024 VA Government Ethics – The Essentials
2024 VA Technology Transfer Program
2024 VA Privacy and HIPAA Focused
2024 College of Health Solutions Faculty Research Success Day, ASU Health Futures, Scottsdale, AZ
2024 206th Annual Meeting of The New York Academy of Sciences
2024 26th Annual All Scientists Meeting and Poster Symposium, Central Arizona Phoenix Long Term Ecological Research, Tempe, AZ
2024 Information Security Training, ASU
2024 ASU Comprehensive Biosafety Training
2024 Annual Fire Safety Training, ASU
2024 HIPAA Essentials training for Designated Campus Colleagues, University of Arizona
2024 Information Security Awareness Training for Designated Campus Colleagues, University of Arizona
2024 VA Joint Patient Safety Reporting (JPSR) System – Reporting a Safety Event
2023 VA Privacy and Information Security Awareness and Rules of Behavior
2023 VA Government Ethics
2023 VA Annual OSHA Bloodborne Pathogens Standard Phoenix
2023 VA Privacy and HIPAA training
2023 VA Technology Transfer Program Training
2023 ASU Comparative Medicine Symposium, Advancing biomedical innovations and improving translational research through veterinary medicine and naturally occurring canine diseases

- 2023 Human Biomedical Research, CITI Training Refresher Course
- 2023 Seeds of Sustainability Training, ASU
- 2023 Advancing Health Equity Through Culture-Centered Dietary Interventions to Address Chronic Diseases Virtual Workshop, NIH
- 2023 The Future of Evolutionary Medicine, Frontiers Forum
- 2023 CHS Health, Technology, and Equity Virtual Summit, ASU
- 2023 Funding Opportunities as a Hispanic Serving Institution, Department of Defense and ASU
- 2023 SEEP Conference – Integrating society, ecology, evolution and plasticity to advance urban evolutionary ecology
- 2023 GCP – Social and Behavioral Research Best Practices for Clinical Research
- 2023 CITI training: Cultural Competence in Research
- 2023 CITI training: Native Americans in Research
- 2023 CITI training: VA ORD Biosecurity Training
- 2023 CITI training: Human Research, VA Human Subjects Protection
- 2023 Information Security Training, ASU
- 2023 Annual Fire Safety Training, ASU
- 2023 VA Department of Veterans Affairs Technology Transfer Training
- 2023 VA Privacy and Information Security Awareness and Rules of Behavior
- 2023 VA Annual OSHA Bloodborne Pathogens Standard Phoenix Training
- 2023 VA Government Ethics
- 2023 VA Privacy and HIPAA Training
- 2022 Sociology, Ecology, Evolution, Plasticity (SEEP) Conference – Integrating society, ecology, evolution and plasticity to advance urban evolutionary ecology, Tempe, AZ
- 2022 24th Annual All Scientists Meeting and Poster Symposium, Central Arizona Phoenix Long Term Ecological Research, Tempe, AZ
- 2022 Understanding the State of Pure/Basic Science Around the World seminar, Sigma Xi International Forum on Research Excellence Conference
- 2022 IACUC Training – Birds refresher, ASU
- 2022 IACUC Training – Rodents refresher, ASU
- 2022 IACUC Training – Level 1 Basic Module refresher, ASU
- 2022 ASU Biosafety and Bloodborne Pathogens Training
- 2022 Annual Laboratory Safety Information Refresher Training, ASU
- 2022 EHS Fire Safety Annual Training 2022, ASU
- 2022 Hazardous Waste Training for Labs 2022, ASU
- 2022 Community of Care Training, ASU
- 2022 The Power of Comparative Models for Accelerating Translational Healthspan Research: Underutilized Lab Animals, Companion Pets, Old World Monkeys and Pumas, Experimental Biology Conference
- 2022 VA Government Ethics Training
- 2022 VA Technology Transfer Program Training
- 2022 VA Privacy and Information Security Awareness and Rules of Behavior (WBT)
- 2022 VA Privacy and HIPAA-Focused Training
- 2022 VA Annual OSHA Bloodborne Pathogens Standard
- 2021 ASU-UW Microbiomics and Metabolomics Symposium
- 2021 Finding Cures from Extreme Physiology, American Physiological Society
- 2021 Hazardous Waste Management annual training, ASU

2021 Laboratory Safety annual training, ASU
 2021 Fire Safety annual training, ASU
 2021 VA Annual OSHA Bloodborne Pathogens Standard Training for VA Phoenix
 2021 VA Government Ethics – The Essentials
 2021 VA Privacy and Information Security Awareness and Rules of Behavior
 2021 VA Privacy and HIPAA training
 2021 CAP LTER Twenty-third All Scientists Meeting and Poster Symposium
 2020 Fourth annual Evolutionary Biology Symposium, ASU
 2020 Annual Information Security Training, ASU
 2020 Conflict of Interest Training, ASU
 2020 Humane Use of Birds in Research, ASU
 2020 Humane Care and Use of Animals in Research, ASU
 2020 ASU COVID-19 Safety Training for On-Site Personnel
 2020 Cultural Competence in Research, CITI training
 2020 Secondary Research with Identifiable Information and Biospecimens, CITI training
 2020 VA Technology Transfer Program
 2020 VA Government Ethics – The Essentials
 2020 VA Privacy and HIPAA Training
 2020 VA Privacy and Information Security and Awareness & Rules of Behavior
 2019 Authorized Driver Program, ASU Department of Risk Management
 2019 Information Security Training refresher course, ASU
 2019 Laboratory Safety Training Refresher, ASU
 2019 Fire Safety Training Refresher, ASU
 2019 Hazardous Waste Management Refresher, ASU
 2019 Enabling Discovery through Genomic Tools (EDGE) program Webinar, NSF
 2018 American Physiological Society Intersociety Conference on Comparative Physiology, New Orleans, LA
 2018 Building Healthy Lifestyles (BHLC) annual conference: Lifestyle as Medicine, Tempe, AZ
 2018 ASU Chapter of Sigma Xi, The Scientific Research and Honor Society annual Banquet and Symposium
 2018 Core Facilities Symposium, ASU
 2018 Successful Industry Partnerships, KED, ASU
 2018 Annual Hazardous Waste Management course, ASU
 2018 Annual Biosafety and Bloodborne Pathogens course, ASU
 2018 Annual Fire Safety Refresher course, ASU
 2018 Annual Laboratory Safety Refresher course, ASU
 2018 Proposal Development Workshop: Layout and Graphics, KED, ASU
 2018 Funding Success Skills Series (fs3) workshop: Speaking to your sponsor, KED, ASU
 2018 Proposal Development Workshop II: Proposal Writing and Editing, KED, ASU
 2017 Attended BHLC annual conference
 2017 ASU Chapter of Sigma Xi, The Scientific Research and Honor Society annual Banquet and Symposium
 2017 Biosafety and Bloodborne Pathogens refresher course, ASU
 2017 Hazardous Waste Management refresher course, ASU
 2017 Fire Safety refresher course, ASU
 2017 Laboratory Safety refresher course, ASU

- 2017 General Laboratory Chemical Safety Course, University of Arizona, Phoenix
- 2017 Biosafety training, University of Arizona, Phoenix
- 2017 Bloodborne Pathogens Training, University of Arizona, Phoenix
- 2017 Information Security Training, ASU
- 2016 Behind the scenes of a successful NSF proposal, ASU
- 2016 Attended BHLC annual conference
- 2016 Attended ASU Chapter of Sigma Xi, The Scientific Research and Honor Society annual Banquet and Symposium
- 2015 Demystifying the 2016 Changes to NIH Grant Submissions
- 2014 Information Security Training Refresher Course, ASU
- 2010 ASU Information Security Training-Employees

Teaching/Mentoring

- 2025 Nutrition Faculty Training, Thesis and Applied Project Procedures
- 2025 CHS AI Community of Practice session
- 2025 Yidan Prize Conference, Mary Lou Fulton College of Teaching and Learning Innovation, ASU
- 2025 Adopting learner-centered practices
- 2025 2-week Master Class for Teaching Online, ASU online
- 2025 AI Risk Management and Responsible Use Training, ASU
- 2025 Module 6: Integrating Generative AI with Teaching and Learning, ASU Teaching and Learning with Generative AI online class
- 2025 Module 5: Evaluating Outputs from Generative AI, ASU Teaching and Learning with Generative AI online course
- 2025 Module 4: Designing prompts for Generative AI, ASU Teaching and Learning with Generative AI online course
- 2024 Module 3: Ethics and the Responsible Use of Generative AI, ASU Teaching and Learning with Generative AI online course, ASU
- 2024 Module 2: Awareness of Generative AI Applications, ASU Teaching and Learning with Generative AI online course,
- 2024 Module 1: Fundamentals of Generative AI, Teaching and Learning with Generative Artificial Intelligence online course, ASU
- 2024 Introductory materials/resources, Teaching and Learning with Generative Artificial Intelligence online course, ASU
- 2024 Virtual Barrett Thesis Symposium, ASU
- 2024 Teaching beyond the facts: The importance of student professional skills development
- 2024 Late-breaking teaching of physiology research poster session, APS Summit
- 2024 The elephant in the classroom: Will we embrace AI and chatbots as learning tools? APS Summit
- 2023 Using ChatGPT as Your Teaching Assistant, ASU
- 2023 XKits: Level Up Assignments with Generative AI, ASU
- 2023 Crafting an Inclusive Course with Accessibility Checkers, ASU
- 2023 Utilizing Canvas Rubrics for equitable grading, ASU
- 2023 Canvas Speedgrader, ASU
- 2023 Innovations in Teaching, Learning and Assessment, APS Summit
- 2022 Teaching with Technology workshop, ASU

- 2022 FERPA annual training, ASU
- 2022 REMOTE Teaching Conference, ASU
- 2022 Read professional development articles and watched online tutorials to gather the most current information in preparation to teach EXW/NTR 691 Professional Development seminar
- 2022 The Future of Exercise Physiology, Experimental Biology Conference
- 2022 Innovative Techniques for Developing an Inclusive Teaching Environment, Experimental Biology Conference
- 2022 Claude Bernard Distinguished Lectureship of the APS Teaching of Physiology Section, Experimental Biology Conference
- 2022 The Art of Team Teaching workshop, Experimental Biology Conference
- 2021 Designing for Belonging: Human-Centered Course Design, ASU
- 2021 REMOTE – The Connected Faculty Summit
- 2020 Society for the Advancement of Biology Education Research conference
- 2020 ASU Sync Training
- 2020 5-day American Physiological Society Institute on Teaching and Learning Summer Workshop:
 - “Future of Learning in Physiology”
 - “The Flexibility of Using the Flipped Classroom as a Virtual Classroom During the Covid-19 Pandemic”
 - “Investigating Inclusive Curricula in the Physiology Classroom: Scientist Spotlight Homework Assignments”
 - “Teaching Small Group Dynamics to Ensure Small Groups are Dynamic!”
- 2020 Deaf/Hard of Hearing Student Accommodations Webinar, Disability Resource Center, ASU
- 2019 ASU EdPlus Action Lab presentation to discuss action-oriented research focused on the motivation, persistence, and learning of diverse learner populations in online and hybrid learning environments.
- 2019 Benefits of Informal Mentoring Module, Faculty Mentoring Development Program, UNM
- 2019 Understanding Diversity Among Mentees Module, Faculty Mentoring Development Program, UNM
- 2019 Achieving Work-Life Balance Module, Faculty Mentoring Development Program, UNM
- 2019 Communicating Effectively with Mentees Module, Faculty Mentoring Development Program, UNM
- 2019 Rewards and Challenges of Mentoring Module, Faculty Mentoring Development Program, UNM
- 2019 Defining Mentoring from the Beginning & Rewards and Challenges of Mentoring Module, Faculty Mentoring Development Program, UNM
- 2019 What you need to know, The Disability Resource Center workshop, ASU
- 2019 How to use Cogbooks training, ASU
- 2019 *Now that you know, what do you do?*, CHS Counseling Workshop for Faculty, ASU
- 2018 Engaging students with competitive activities TeachT@lk Webinar, ASU
- 2018 FERPA Training, ASU
- 2018 TopHat Onboarding training session
- 2018 TopHat Educational Platform training

- 2018 The Basics of Planning and Executing a Successful Online Course, TeachT@lk Webinar, ASU
- 2016 Mentoring in Research workshop, Sigma Xi annual conference, Atlanta, Georgia
- 2016 Course Enhancement, ASU
- 2016 Development and Management of Large e-Learning Courses, Rose Martin, ASU
- 2015 Rubrics for Grading webinar, ASU
- 2015 TurningPoint Clicker training, ASU
- 2015 FERPA Training, ASU
- 2015 Introduction to Voice Thread, ASU
- 2014 The Challenge of Teaching Physiology in a Changing Environment: Innovation and Resources Workshop, APS Intersociety Meeting, San Diego, CA
- 2014 Creating Unique Assignments Webinar, ASU
- 2014 Student Pulse with Polling, Summer Tech Webinar, ASU
- 2013 Checking Your Exam Settings, ASU Online webinar, ASU
- 2013 Course Check-Up, ASU Online webinar, ASU
- 2012 Zen and the Art of Micro and Mini Lectures, Webinar, ASU
- 2011 ASU Online Gradebook, Webinar, ASU
- 2010 Learning Studio Faculty Information Session, ASU
- 2010 Assessment Beyond Tests and Papers Webinar, ASU
- 2010 Teaching Tune-Up: Writing Good Discussion Prompts Webinar, ASU
- 2010 Teaching Tune-Up: Active Learning Techniques for Discussion and Peer Teaching, ASU
- 2010 Blackboard Groups, ASU
- 2010 Teaching Tune-Up: Getting Students to Read Webinar, ASU
- 2010 Designing Authentic Learning Experiences Webinar, ASU
- 2010 Evaluation of Teaching: Student Course and Teaching Evaluations, CONHI
- 2010 Moving Teaching Online: Grading with Rubrics Webinar, ASU
- 2010 Mentoring for Success Seminar, Terry Alford 2009 Outstanding Faculty Mentor, ASU
- 2010 Moving Teaching Online: Effective Groups Webinar, ASU
- 2010 Faculty Cross Talks: Blending the Teaching of Ethics with the Research of Ethics, ASU
- 2010 Moving Teaching Online: Effective Discussion Boards Webinar, ASU
- 2010 Moving Teaching Online: Building Community Webinar, ASU
- 2010 Moving Teaching Online: Reframing Content: Understanding Teaching in the Online Environment Webinar, ASU
- 2009 Blackboard: Assignments, ASU
- 2008 Constructive Feedback, Developing Skills and Overcoming Barriers, UNM
- 2007 Facilitator Training for Medical Student Problem Based Learning, UNM
- 2007 Curriculum Development, UNM
- 2006 How People Learn, UNM
- Lecturing and Making Presentations, UNM
- Multiple Choice Questions, Higher Levels of Learning, UNM