Annotated Curriculum Vitae

KAREN L. SWEAZEA, PhD, FAHA, FAPS

Arizona State University
427 E Tyler Mall, Mail Code 4501, Tempe, AZ 85287-4501
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E-mail: Karen.Sweazea@asu.edu
Website: https://karensweazea.weebly.com/

Current as of July 21, 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

ACADEMIC APPOINTMENTS

2026	Faculty Dean's Fellow, School of Human Performance and Lifespan Health, College of Health Solutions, 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
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, AZ*
2005-2008	Postdoctoral Fellow, University of New Mexico, Albuquerque, NM
2000-2005	Graduate Research Assistant, University of Arizona, Tucson, AZ

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

AFFILIATE AND ADJUNCT POSITIONS

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, School of Life Sciences (SOLS), ASU
2018-pres	Investigator, Adapting to City Life Theme, Central Arizona-Phoenix Long Term Ecological Research (CAP LTER) program, 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

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 AND RECOGNITIONS

2026 Nominated, ASU Provost Teaching Award
2026 Elected Fellow, American Physiological Society (APS)
2026 ASU SUN Award for exemplary "*Service on ASU's Curriculum and Academic Programs Committee*"
2025 "*Paper of the month*" [Journal article, #72], Nutrition 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 APS (2023-2025)
2023 "*Top downloaded article*" [Journal article #59] award from *FEBS Letters.*
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 APS (2019-2022)
2021 ASU Sun Award
2020 Experimental Biology and Medicine (EBM) Outstanding Reviewer Award, Society for Experimental Biology and Medicine
2020 "*Top 10% downloaded paper*" [Journal article #40] award from *Lipids*.
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 APS

2015 New Investigator Award, CEP section of the APS
2014 Outstanding Faculty Mentor Award, Faculty Women's Association, ASU
2014 Dale J. Benos Early Career Professional Service Award, The APS
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 APS
2004 Women in Science and Engineering (WISE) Travel Grant
1998 Invited member, Golden Key National Honor Society
1998 Elected member, Arizona Chapter of Phi Kappa Phi Honor Society
1995-1996 The National Dean's List
1994-1995 Elected member, Alpha Phi chapter of Alpha Gamma Sigma, California Community College Honor and Scholarship Society

RESEARCH/SCHOLARSHIP

Summary: My research integrates mechanistic preclinical models, clinical translational studies, and comparative physiology to uncover adaptive solutions to diabetes, metabolic syndrome, and their underlying pathologies.

Topic Areas: diabetes • metabolic syndrome • cardiovascular and endocrine physiology • avian resilience to chronic disease • urbanization and ecophysiology • food environment • functional foods for the prevention and treatment of chronic metabolic and cardiovascular diseases

Publications

A. Peer-reviewed Journal Articles

Annotations:
**Corresponding/Senior author; Underlined names are mentored students (Postdoctoral Fellow; Graduate student; Undergraduate Student; Junior high student)*
IF = Journal impact factor at time of publication; Citations from Google Scholar; Journal Rankings from Scimago [Q = quartile]

81. **Sweazea KL***, Lodes (Eagleman) D, Mayek R. (2026) Short Communication: Impact of blood collection site and sampling protocol on plasma glucose and uric acid concentrations in wild-caught mourning doves, *Zenaida macroura*. *Comparative Biochemistry and Physiology B.* 286: 111253. DOI: 10.1016/j.cbpb.2026.111253
[X] Supervision [X] Conceptualization [X] Data Collection [X] Statistical Analyses [X] Interpretation [X] Draft Manuscript [X] Revisions
80. **Sweazea KL*.** (2026) *Commissioned Manuscript:* Is insulin resistance an adaptive response? Clues from nature. *Physiology.* DOI: 10.1152/physiol.00059.2025
[X] Supervision [X] Conceptualization [X] Data Collection [X] Interpretation [X] Draft Manuscript [X] Revisions
- IF: 10.3 [Q1]

79. Deviche P*, Upah N, Watts L, **Sweazea K**. (2026) 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.* 40(1): 46-55. DOI: 10.1647/AVIANMS-D-24-00057
[] Supervision [] Conceptualization [X] Data Collection [] Statistical Analyses [X] Interpretation [] Draft Manuscript [X] Revisions
- IF: 0.52 [Q2]

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
[X] Supervision [X] Conceptualization [X] Data Collection [] Statistical Analyses [X] Interpretation [X] Draft Manuscript [X] Revisions
- IF: 13.59 [Q1]; Citations: 2

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
[X] Supervision [X] Conceptualization [X] Data Collection [X] Statistical Analyses [X] Interpretation [X] Draft Manuscript [X] Revisions
- IF: 2.33 [Q1]

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.
[] Supervision [X] Conceptualization [] Data Collection [] Statistical Analyses [] Interpretation [] Draft Manuscript [X] Revisions
- IF: 12.06 [Q1]; Citations: 2

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
[] Supervision [] Conceptualization [X] Data Collection [] Statistical Analyses [X] Interpretation [X] Draft Manuscript [X] Revisions
- IF: 2.32 [Q1]; Citations: 3

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
[X] Supervision [X] Conceptualization [] Data Collection [] Statistical Analyses [X] Interpretation [] Draft Manuscript [X] Revisions
- IF: 16.6 [Q1]; Citations: 11

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
[X] Supervision [X] Conceptualization [X] Data Collection [X] Statistical Analyses [X] Interpretation [X] Draft Manuscript [X] Revisions
- IF: 2.7 [Q1]

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
[X] Supervision [] Conceptualization [] Data Collection [] Statistical Analyses [X] Interpretation [] Draft Manuscript [X] Revisions
- IF: 4.539 [Q1]; Citations: 2
- *Selected as "Paper of the Month" by the Nutrition Society for September 2025.*

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. *Co-Corresponding author. DOI: 10.1017/S0007114524002800
[X] Supervision [] Conceptualization [] Data Collection [] Statistical Analyses [X] Interpretation [] Draft Manuscript [X] Revisions

- IF: 3.6 [Q1]; Citations: 6

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
[X] Supervision [X] Conceptualization [X] Data Collection [] Statistical Analyses [X] Interpretation [] Draft Manuscript [X] Revisions
- IF: 8.472 [Q1]; Citations: 4

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
[X] Supervision [X] Conceptualization [] Data Collection [] Statistical Analyses [X] Interpretation [] Draft Manuscript [X] Revisions
- IF: 16.6 [Q1]; Citations: 85
- *Top 25 health sciences articles that were read in Nature Communications in 2024*

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/jcbpa.2024.111594
[X] Supervision [X] Conceptualization [X] Data Collection [X] Statistical Analyses [X] Interpretation [X] Draft Manuscript [X] Revisions
- IF: 2.888 [Q1]; Citations: 1

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
[] Supervision [] Conceptualization [] Data Collection [] Statistical Analyses [X] Interpretation [] Draft Manuscript [X] Revisions
- IF: 3.364 [Q1]; Citations: 42
- Altmetrics score: 322 (*Top 5% of all research outputs*; Tweeted by 413; picked up by 5 news outlets)

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
(This was an invited review and the author order is the same as that of the conference symposium this manuscript was based on)
[X] Supervision [X] Conceptualization [X] Data Collection [] Statistical Analyses [X] Interpretation [X] Draft Manuscript [X] Revisions
- IF: 2.608 [Q1]; Citations: 30
- Altmetrics score: 6 (*Top 25% of all research outputs scored of the same age*; Tweeted by 9)

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
[X] Supervision [X] Conceptualization [X] Data Collection [ ] Statistical Analyses [X] Interpretation [X] Draft Manuscript [X] Revisions
- IF: 6.01 [Q1]; Citations: 33

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. *Co-corresponding author. DOI: 10.1371/journal.pone.0269334

[X] Supervision [X] Conceptualization [] Data Collection [] Statistical Analyses [X] Interpretation [X] Draft Manuscript [X] Revisions

- IF: 3.272 [Q1]; Citations: 15
- Altmetrics score: 14 (*Top 25% of all research outputs of the same age*; Tweeted by 15)

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

[X] Supervision [X] Conceptualization [X] Data Collection [X] Statistical Analyses [X] Interpretation [X] Draft Manuscript [X] Revisions

- Flagship journal for Comparative and Evolutionary Physiology (CEPS) section of the American Physiological Society (APS)
- IF: 3.176 [Q2]; Citations: 11

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

[X] Supervision [X] Conceptualization [X] Data Collection [X] Statistical Analyses [X] Interpretation [X] Draft Manuscript [X] Revisions

- IF: 2.105 [Q1]; Citations: 5

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

[X] Supervision [X] Conceptualization [X] Data Collection [X] Statistical Analyses[X] Interpretation [X] Draft Manuscript [X] Revisions

- IF: 2.134 [Q1]; Citations: 55

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

[X] Supervision [X] Conceptualization [X] Data Collection [X] Statistical Analyses [X] Interpretation [X] Draft Manuscript [X] Revisions

- Flagship journal for Comparative and Evolutionary Physiology (CEPS) section of the American Physiological Society (APS)
- IF: 3.176 [Q2]; Citations: 25

59. Mohr AE, Crawford M, Jasbi P, Fessler S, **Sweazea KL***. (2022) Lipopolysaccharide and the gut microbiota: Considering serotype. *FEBS Letters*. 596(7): 849-875. DOI: 10.1002/1873-3468.14328

[X] Supervision [] Conceptualization [X] Data Collection [NA] Statistical Analyses [X] Interpretation [X] Draft Manuscript [X] Revisions

- IF: 3.481 [Q1]; Citations: 163
- Altmetrics score: 24 (Top 25% of all research outputs; Tweeted by 43)
- *Top 10% of papers to be downloaded in the first 12 months of publication in FEBS Letters*

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

[X] Supervision [X] Conceptualization [X] Data Collection [NA] Statistical Analyses [X] Interpretation [X] Draft Manuscript [X] Revisions

- IF: 2.7 [Q2]; Citations: 31

57. Mahnam K*, Shakhsi-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
[] Supervision [] Conceptualization [X] Data Collection [X] Statistical Analyses [X] Interpretation [X] Draft Manuscript [X] Revisions
- IF: 2.579 [Q1]; Citations: 7

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
[X] Supervision [X] Conceptualization [X] Data Collection [X] Statistical Analyses [X] Interpretation [X] Draft Manuscript [X] Revisions
- IF: 2.929 [Q1]; Citations: 4

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
[X] Supervision [X] Conceptualization [X] Data Collection [X] Statistical Analyses [X] Interpretation [X] Draft Manuscript [X] Revisions
- IF: 2.182 [Q1]; Citation: 7
- Altmetrics score: 6; mentioned in a blog

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
[X] Supervision [X] Conceptualization [X] Data Collection [X] Statistical Analyses [X] Interpretation [X] Draft Manuscript [X] Revisions
- IF: 3.251 [Q2]; Citations: 7

53. Mohr AE, Gumpricht 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
[X] Supervision [] Conceptualization [] Data Collection [NA] Statistical Analyses [X] Interpretation [] Draft Manuscript [X] Revisions
- IF: 3.614 [Q1]; Citations: 42
- Altmetrics score: 17 (*top 25% of all research outputs*; Tweeted by 28; 2 videos)

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
[X] Supervision [] Conceptualization [NA] Data Collection [NA] Statistical Analyses [X] Interpretation [] Draft Manuscript [X] Revisions
- IF: 3.17 [Q1]; Citations: 24

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
[X] Supervision [X] Conceptualization [X] Data Collection [X] Statistical Analyses [X] Interpretation [X] Draft Manuscript [X] Revisions
- IF: 2.35 [Q1]; Citations: 14

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
[X] Supervision [X] Conceptualization [X] Data Collection [X] Statistical Analyses [X] Interpretation [X] Draft Manuscript [X] Revisions
- IF: 2.10 [Q1]; Citations: 3

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
[X] Supervision [] Conceptualization [X] Data Collection [X] Statistical Analyses [X] Interpretation [X] Draft Manuscript [X] Revisions
- IF: 1.983 [Q1]; Citations: 27

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
[X] Supervision [X] Conceptualization [X] Data Collection [X] Statistical Analyses [X] Interpretation [X] Draft Manuscript [X] Revisions
- IF: 2.173 [Q1]; Citations: 15

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
[X] Supervision [X] Conceptualization [X] Data Collection [X] Statistical Analyses [X] Interpretation [X] Draft Manuscript [X] Revisions
- IF: 2.173 [Q1]; Citations: 4

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
[X] Supervision [X] Conceptualization [X] Data Collection [X] Statistical Analyses [X] Interpretation [X] Draft Manuscript [X] Revisions
- IF: 2.173 [Q1]; Citations: 12

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
[X] Supervision [X] Conceptualization [] Data Collection [] Statistical Analyses [X] Interpretation [] Draft Manuscript [X] Revisions
- Education journal of the Institute of Food Technologists
- Citations: 4

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
[X] Supervision [] Conceptualization [] Data Collection [] Statistical Analyses [X] Interpretation [] Draft Manuscript [X] Revisions
- IF: 4.924 [Q1]; Citations: 43
- Altmetrics score: 7 (*top 25% of research outputs of the same age*); Tweeted by 12

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
[X] Supervision [X] Conceptualization [X] Data Collection [X] Statistical Analyses [X] Interpretation [X] Draft Manuscript [X] Revisions
- IF: 1.934 [Q1]; Citations: 53

42. Crawford MS, Gumpricht 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
[X] Supervision [X] Conceptualization [X] Data Collection [X] Statistical Analyses [X] Interpretation [X] Draft Manuscript [X] Revisions
- IF: 3.337 [Q1]; Citations: 9

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
[X] Supervision [X] Conceptualization [X] Data Collection [] Statistical Analyses [X] Interpretation [] Draft Manuscript [X] Revisions
- IF: 3.028 [Q1]; Citations: 22

- *Selicia wrote the initial draft of this manuscript while she was a Master's student in my lab. The work was completed and extended to additional participants under the direction of Dr. Johnston when Selicia entered the doctoral program.*

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
[X] Supervision [X] Conceptualization [X] Data Collection [X] Statistical Analyses [X] Interpretation [] Draft Manuscript [X] Revisions
- IF: 1.952 [Q2]; Citations: 56
- Altmetrics score: 9 (*top 25% of research outputs of the same age*); Blogged by 1; Tweeted by 3; Wiley (publisher): *Top 10% most downloaded papers*

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
[X] Supervision [X] Conceptualization [X] Data Collection [X] Statistical Analyses [X] Interpretation [X] Draft Manuscript [X] Revisions
- IF: 1.934 [Q1]; Citations: 5

38. **Sweazea KL***, Johnston CJ, Miller B, Gumpricht 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
[X] Supervision [X] Conceptualization [X] Data Collection [] Statistical Analyses [X] Interpretation [X] Draft Manuscript [X] Revisions
- IF: 2.10 [Q1]; Citations: 31
- Altmetrics score: 47 (*top 5% of research outputs of the same age*; Tweeted by 11, picked up by 6 news outlets)

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
[] Supervision [] Conceptualization [] Data Collection [] Statistical Analyses [X] Interpretation [] Draft Manuscript [X] Revisions
- IF: 0.675 [Q3]; Citations: 9

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
[X] Supervision [] Conceptualization [] Data Collection [] Statistical Analyses [X] Interpretation [] Draft Manuscript [X] Revisions
- IF: 3.833 [Q1]; Citations: 13

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
[X] Supervision [X] Conceptualization [X] Data Collection [] Statistical Analyses [X] Interpretation [] Draft Manuscript [X] Revisions
- IF: 1.934 [Q1]; Citations: 10

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
[X] Supervision [X] Conceptualization [X] Data Collection [X] Statistical Analyses [X] Interpretation [X] Draft Manuscript [X] Revisions
- IF: 1.776 [Q1]; Citations: 8

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
[] Supervision [] Conceptualization [] Data Collection [X] Statistical Analyses [X] Interpretation [] Draft Manuscript [X] Revisions
- IF: 2.240 [Q2]; Citations: 49
- Altmetrics score: 28 (*top 5% of all research outputs*); Picked up by 3 news outlets

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
[X] Supervision [X] Conceptualization [X] Data Collection [X] Statistical Analyses [X] Interpretation [] Draft Manuscript [X] Revisions
- IF: 1.58 [Q2]; Citations: 50

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
[X] Supervision [X] Conceptualization [X] Data Collection [] Statistical Analyses [X] Interpretation [] Draft Manuscript [X] Revisions
- IF: 1.934 [Q1]; Citations: 15

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
[X] Supervision [X] Conceptualization [X] Data Collection [] Statistical Analyses [X] Interpretation [X] Draft Manuscript [X] Revisions
- IF: 2.8 [Q2]; Citations: 11

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
[X] Supervision [X] Conceptualization [X] Data Collection [X] Statistical Analyses [X] Interpretation [] Draft Manuscript [X] Revisions
- IF: 2.173 [Q1]; Citations: 6

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/japplphysiol.00024.2016
[] Supervision [] Conceptualization [X] Data Collection [] Statistical Analyses [X] Interpretation [] Draft Manuscript [X] Revisions
- IF: 3.583 [Q1]; Citations: 370
- Almetrics score: 165 (*top 5% of all research outputs*); Picked up by 14 news outlets; 1 blog; 67 Tweets

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
[X] Supervision [X] Conceptualization [X] Data Collection [X] Statistical Analyses [X] Interpretation [X] Draft Manuscript [X] Revisions
- IF: 3.028 [Q1]; Citations: 20

26. **Sweazea KL***. (2015) Serving Our Society. *The Physiologist.* 58(4): 181-182.
[X] Supervision [X] Conceptualization [NA] Data Collection [NA] Statistical Analyses [NA] Interpretation [X] Draft Manuscript [X] Revisions

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

[X] Supervision [X] Conceptualization [X] Data Collection [X] Statistical Analyses [X] Interpretation [X] Draft Manuscript [X] Revisions

- IF: 1.776 [Q1]; Citations: 9

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.
[X] Supervision [X] Conceptualization [X] Data Collection [X] Statistical Analyses [X] Interpretation [] Draft Manuscript [X] Revisions
- IF: 2.66 [Q1]; Citations: 23

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
[X] Supervision [X] Conceptualization [X] Data Collection [] Statistical Analyses [X] Interpretation [X] Draft Manuscript [X] Revisions
- IF: 3.833 [Q1]; Citations: 66

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
[X] Supervision [X] Conceptualization [X] Data Collection [X] Statistical Analyses [X] Interpretation [X] Draft Manuscript [X] Revisions
- IF: 1.776 [Q1]; Citations: 13

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.
[] Supervision [] Conceptualization [X] Data Collection [X] Statistical Analyses [X] Interpretation [] Draft Manuscript [X] Revisions
- IF: 4.063 [Q1]; Citations: 23

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
[] Supervision [] Conceptualization [X] Data Collection [X] Statistical Analyses [X] Interpretation [] Draft Manuscript [X] Revisions
- IF: 2.173 [Q1]; Citations: 52

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
[X] Supervision [X] Conceptualization [X] Data Collection [X] Statistical Analyses [X] Interpretation [] Draft Manuscript [X] Revisions
- IF: 2.259 [Q1]; Citations: 20

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
[X] Supervision [X] Conceptualization [X] Data Collection [X] Statistical Analyses [X] Interpretation [X] Draft Manuscript [X] Revisions
- IF: 1.776 [Q1]; Citations: 2

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
[] Supervision [] Conceptualization [X] Data Collection [] Statistical Analyses [X] Interpretation [] Draft Manuscript [X] Revisions
- IF: 2.182 [Q1]; Citations: 52

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
[] Supervision [] Conceptualization [X] Data Collection [] Statistical Analyses [X] Interpretation [] Draft Manuscript [X] Revisions

- IF: 3.333 [Q1]; Citations: 153
- Almetrics score: 65 (*top 5% of all research outputs*); Picked up by 8 news outlets

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
[] Supervision [X] Conceptualization [X] Data Collection [] Statistical Analyses [X] Interpretation [] Draft Manuscript [X] Revisions
- IF: 3.407 [Q1]; Citations: 50

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
[X] Supervision [X] Conceptualization [X] Data Collection [X] Statistical Analyses [X] Interpretation [X] Draft Manuscript [X] Revisions
- IF: 3.839 [Q1]; Citations: 25

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
[] Supervision [] Conceptualization [X] Data Collection [] Statistical Analyses [X] Interpretation [] Draft Manuscript [X] Revisions
- IF: 2.182 [Q1]; Citations: 114

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
[X] Supervision [X] Conceptualization [X] Data Collection [X] Statistical Analyses [X] Interpretation [] Draft Manuscript [X] Revisions
- IF: 1.776 [Q1]; Citations: 32

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
[] Supervision [] Conceptualization [X] Data Collection [] Statistical Analyses [X] Interpretation [X] Draft Manuscript [X] Revisions
- IF: 2.851 [Q2]; Citations: 5

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
[] Supervision [X] Conceptualization [X] Data Collection [X] Statistical Analyses [X] Interpretation [X] Draft Manuscript [X] Revisions
- IF: 2.037 [Q1]; Citations: 24

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
[] Supervision [X] Conceptualization [X] Data Collection [X] Statistical Analyses [X] Interpretation [X] Draft Manuscript [X] Revisions
- IF: 2.918 [Q1]; Citations: 7

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
[X] Supervision [X] Conceptualization [X] Data Collection [X] Statistical Analyses [X] Interpretation [X] Draft Manuscript [X] Revisions
- IF: 3.839 [Q1]; Citations: 73

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
[] Supervision [] Conceptualization [X] Data Collection [X] Statistical Analyses [X] Interpretation [X] Draft Manuscript [X] Revisions
- IF: 2.745 [Q1]; Citations: 8
- **An image from this article featured on 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
[] Supervision [X] Conceptualization [X] Data Collection [X] Statistical Analyses [X] Interpretation [X] Draft Manuscript [X] Revisions
   - IF: 1.934 [Q1]; Citations: 442
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
[] Supervision [X] Conceptualization [X] Data Collection [X] Statistical Analyses [X] Interpretation [X] Draft Manuscript [X] Revisions
   - IF: 1.934 [Q1]; Citations: 35
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
[] Supervision [X] Conceptualization [X] Data Collection [X] Statistical Analyses [X] Interpretation [X] Draft Manuscript [X] Revisions
   - IF: 1.934 [Q1]; Citations: 71
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
[] Supervision [X] Conceptualization [X] Data Collection [X] Statistical Analyses [X] Interpretation [X] Draft Manuscript [X] Revisions
   - IF: 1.169 [Q1]; Citations: 15
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
[] Supervision [] Conceptualization [X] Data Collection [X] Statistical Analyses [X] Interpretation [X] Draft Manuscript [X] Revisions
   - IF: 1.934 [Q1]; Citations: 16
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
[] Supervision [X] Conceptualization [X] Data Collection [X] Statistical Analyses [X] Interpretation [X] Draft Manuscript [X] Revisions
   - IF: 1.169 [Q1]; Citations: 36

B. Invited Editorial

2. Angelier F, Bedecarrats GY, Cassone VM, Deviche PJ, Rozenboim I, Singh D, **Sweazea K**, Scanes CG. (2026) Editorial: Environmental challenges from global warming/climate change, urbanization and pollution to wild birds and poultry. *Frontiers in Physiology.* 17: 1900269. DOI: 10.3389/fphys.2026.1900269
[] Supervision [X] Conceptualization [] Data Collection [] Statistical Analyses [X] Interpretation [] Draft Manuscript [X] Revisions
   - IF: 4.0 (Q2, 2nd Quartile in Physiology journals)
   - Total views/downloads for special issue: 34K
1. **Sweazea KL***. (2014) Compounding evidence implicating Western diets in the development of metabolic syndrome. *Acta Physiologica.* 211(3): 471-473. PMID: 24751347.
[X] Supervision [X] Conceptualization [X] Interpretation [X] Draft Manuscript [X] Revisions
   - IF: 4.468 [Q1]; Citations: 15

C. Invited Book Chapter

1. **Sweazea KL***, Johnston CS. Cardioprotective potential of flaxseeds in diabetes. (2019) In: *Bioactive foods as dietary interventions for diabetes, 2nd Edition*, Edited by Watson R, Preedy V. San Diego, CA: Elsevier, ch. 24.
   - Citations: 3

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*.

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.

G. Manuscripts in Review/Revision

1. Basile AJ*, Zuch L, **Sweazea KL***. Ninety-six percent of menu items from five US full-service restaurant chains are ultra-processed. *Public Health Nutrition*
   [] Supervision [X] Conceptualization [] Data Collection [] Statistical Analyses [X] Interpretation [] Draft Manuscript [X] Revisions
2. Larson KL*, Corely EA, Rutrough AL, Bateman H, Blake B, **Sweazea KL**. (***In Review***) Exploring paradoxical stewardship through human-ecological traps: Drivers and outcomes of residential wildlife gardening. *Cities and the Environment.*
   [] Supervision [] Conceptualization [] Data Collection [] Statistical Analyses [X] Interpretation [] Draft Manuscript [X] Revisions
1. Kapsetaki SE, Compton Z, El Masry A, Fard VN, Rupp SM, Garner MM, Duke EG, Harrison TM, Aktipis A, **Sweazea KL**, Boddy AM, Maley CC. (***In Review***) Ecology shapes the reproductive-soma investment link with cancer less in mammals than birds: Possible environmental protection in the placenta versus egg.
   [] Supervision [] Conceptualization [] Data Collection [] Statistical Analyses [X] Interpretation [] Draft Manuscript [X] Revisions

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

Sep 2026 **Sweazea KL***. (2026) "Protective effects of uric acid in the vasculature of birds," Comparative Physiology conference, Orlando, FL. September 17-20.

Jun 2025 McCluney KA, Deviche P, **Sweazea K**, Carlen EJ, Clark (Brown) JAG, Grade A, Haight JD, Niesner CA, Schell CJ, Weiss K (Presenter). "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 (*Zenaida 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, Westminster 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. (Cancelled participation due to Covid restrictions)

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. ABSTRACTS AND POSTER PRESENTATIONS

165. Basile AJ*, Zuch L, **Sweazea KL**. (4/24/2026) 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. Gumpricht 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***. 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. 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.
156. 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.
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. 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.
153. Gumpricht 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. **Sweazea KL*.** (2023) Super birds: The majority of avian blood metabolites are not altered by urban environments. 2023 British Ornithologists' Union, Nottingham, UK.
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. 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.
149. 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.
148. 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.
147. 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.
146. **Sweazea KL*.** (2021) A comparative approach towards improving glucose regulation and cardiovascular health. CHS Virtual Research Day.
145. 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.
144. 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.
143. 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.

142. Hjelm E, Stanley S, Basile A, Ruiz-Tejada A, **Sweazea KL***. (2021) Effect of food processing on total antioxidant capacity. School of Life Sciences Undergraduate Research Symposium.
141. 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.
140. 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.
139. 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.
138. 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.
137. 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.
136. 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.
135. 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.
134. 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.
133. Renner M, Basile AJ, Deviche P, **Sweazea KL***. (2020) An urban diet impairs tibial vasodilation in mourning doves (*Zenaida macroura*). Arizona Physiological Society Conference.
132. 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.
131. 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.
130. 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.
129. 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.

128. 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.
127. 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.
126. 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.
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 A, **Sweazea KL***. (2019) Under Krogh's Umbrella: Comparative Physiology in a new age. Arizona Physiological Society conference, Tempe, AZ.
122. 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.
121. 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.
120. 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.
119. 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.
118. 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.
117. 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.
116. 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.
115. 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.
114. 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.

113. 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.
112. 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.
111. 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.
110. 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.
109. 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.
108. 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.
107. 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.
106. 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.
105. 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.
104. 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.
103. 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.
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. 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.
100. 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.

99. 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.
98. 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.
97. Gonzales RJ*, Tat T, So M, Bartel R, **Sweazea KL**. (2017) Doxorubicin temporally modules cyclooxygenase-2 levels in human vascular smooth muscle cells. 2017 Arizona Physiological Society conference, Flagstaff, AZ. Abstract #S10.
96. 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.
95. 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.
94. 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.
93. 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.
92. **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.
91. 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.
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. 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.
88. 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.
87. 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.
86. 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.
85. 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.

84. 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.
83. 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.
82. 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.
81. 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.
80. **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.
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: lb422.
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: lb424.
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, Coloumbe 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, Colleran K, Kanagy NL*. (2010) Effects of intermittent hypoxia on blood pressure, serum plasminogen activator inhibitor 1 and glucose metabolism in male Sprague Dawley rats. The 92nd Annual Endocrine Society Annual Meeting, San Diego, CA. Abstract #P3-465.
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, Colleran 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: lb614.
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.
15. **Sweazea KL***, Wolf BO, Braun EJ, Walker BR. (2008) High blood glucose is not associated with oxidative stress or vascular dysfunction in birds. *FASEB J.* 22: 1239.24.
14. **Sweazea KL***, Kanagy NL, Walker BR. (2008) Impaired myogenic tone in overweight rats exposed to simulated sleep apnea is due to elevated iNOS-derived nitric oxide. *FASEB J.* 22: 732.4.
13. **Sweazea KL**, Kanagy NL, Walker BR*. (2007) Impaired vasoconstriction in high fat fed rats exposed to simulated sleep apnea is due to elevated iNOS-derived nitric oxide. American Heart Association, 61st Annual High Blood Pressure Research Conference, Abstract #P50.
12. **Sweazea KL***, McMurtry JP, Elsey RM, Redig P, Braun EJ. (2007) Hormonal control of metabolic substrate use by birds and reptiles. *FASEB J.* 21: 963.14.
11. **Sweazea KL** and Walker BR*. (2007) Myogenic reactivity in mesenteric arteries of high fat fed rats. *FASEB J.* 21: 964.4.
10. **Sweazea KL***, McMurtry JP, Elsey R, Braun EJ. (2006) Comparison of avian and reptilian plasma glucose and ketone body levels. *The Physiologist.* Abstract #24.10.
9. **Sweazea KL**, Walker BR*. (2006) Heme oxygenase decreases reactive oxygen species in mesenteric resistance arteries. *FASEB J.* 20: A1453.
8. **Sweazea KL**, Casotti GI, Braun EJ*. (2006) Characterization of sodium-glucose co-transporters in the avian kidney. *FASEB J.* 20: A1466.
7. **Sweazea KL**, McMurtry JP, Braun EJ*. (2006) Inhibition of fatty acid lipolysis does not affect insulin sensitivity to glucose uptake in the mourning dove. *FASEB J.* 20: A1465-A1466.
6. Braun EJ*, **Sweazea KL**. (2005) Uptake of oleic acid by avian skeletal muscle. *FASEB J.* 19: 665.13.
5. **Sweazea KL**, Braun EJ*. (2005) Substrate preference by avian skeletal muscle. *FASEB J.* 19: 665.12.
4. Braun EJ*, **Sweazea KL**. (2004) In vitro uptake of glucose by avian skeletal muscle. *FASEB J.* 18: 825.4.
3. **Sweazea KL**, Braun EJ*. (2004) Immunolocalization of glucose transporters 1 and 3 in English sparrow skeletal muscle. *FASEB J.* 18: 825.5.
2. **Sweazea KL**, Braun EJ*. (2003) Glucose transport in skeletal muscle of *Passer domesticus*, the common house sparrow. *FASEB J.* 17: 570.16.

1. **Sweazea KL**, Braun EJ*. (2002) Expression of glucose transporter-4 (GLUT4) in avian skeletal muscle. *FASEB J.* 16: 360.5.

OTHER CONFERENCES/SYMPOSIA ATTENDED

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 (7/29/25)
-2025 Yidan Prize Conference, hosted by Mary Lou Fulton College for Teaching and Learning Innovation, ASU (3/27/25-3/28/25)
-Metabolomics Symposium, ASU (2/21/25)
-Presented research poster at CHS Faculty Research Day, ASU (2/4/25)
-All Scientists Meeting, Central Arizona Phoenix Long Term Ecological Research Meeting, Scottsdale, AZ (1/17/25)

2024 -2024 College of Health Solutions Faculty Research Success Day, ASU Health Futures, Scottsdale, AZ (1/24/24)
-206th Annual Meeting of The New York Academy of Sciences (11/14/24)
-Virtual Barrett Thesis Symposium, ASU (4/19/2024)
-26th Annual All Scientists Meeting and Poster Symposium, Central Arizona Phoenix Long Term Ecological Research, Tempe, AZ

2023 -ASU Comparative Medicine Symposium, Advancing biomedical innovations and improving translational research through veterinary medicine and naturally occurring canine diseases (11/30/23)
-NIH: Culture-Centered Dietary Interventions to Address Chronic Diseases Symposium (9/28/23)
-*The Future of Evolutionary Medicine*, Frontiers Forum (9/21/23)
-Department of Defense: Taking the Pentagon to the People, information on grant funding opportunities (9/13/23)
-Presented research poster at CHS Faculty Research Day, ASU (1/25/23)
-SEEP Conference – Integrating society, ecology, evolution and plasticity to advance urban evolutionary ecology (5/22/2023-5/23/2023)

2022 -Arizona Chapter Designated Delegate, International Forum on Research Excellence (IFoRE), Sigma Xi – The Research Honor Society Annual Meeting (11/3/22)
-REMOTE Teaching Conference, ASU (4.5 h)
-Sociology, Ecology, Evolution, Plasticity (SEEP) Conference – Integrating society, ecology, evolution and plasticity to advance urban evolutionary ecology, Tempe, AZ
-24th Annual All Scientists Meeting and Poster Symposium, Central Arizona Phoenix Long Term Ecological Research, Tempe, AZ

2021 -ASU-UW Microbiomics and Metabolomics Symposium
-Arizona Chapter Designated Delegate, Sigma Xi Annual Meeting and Student Research Conference (virtual due to Covid)
-REMOTE – The Connected Faculty Summit (virtual)
-CAP LTER Twenty-third All Scientists Meeting and Poster Symposium

2020 -Arizona Chapter Designated Delegate, Sigma Xi Annual Meeting and Student Research Conference (virtual due to Covid)

-Fourth annual Evolutionary Biology Symposium, ASU

2019 -Arizona Chapter Designated Delegate, Sigma Xi Annual Meeting and Student Research Conference, Madison, WI

2018 -American Physiological Society Intersociety Conference on Comparative Physiology, New Orleans, LA
-Building Healthy Lifestyles (BHLC) annual conference: Lifestyle as Medicine, Tempe, AZ
-ASU Chapter of Sigma Xi, The Scientific Research and Honor Society annual Banquet and Symposium
-Core Facilities Symposium, ASU

2017 -Building Healthy Lifestyles (BHLC) annual conference
-ASU Chapter of Sigma Xi, The Scientific Research and Honor Society annual Banquet and Symposium

2016 -Building Healthy Lifestyles (BHLC) annual conference
-Barrett Celebrating Honors Symposium, Tempe, AZ
-ASU Chapter of Sigma Xi, The Scientific Research and Honor Society annual Banquet and Symposium

Research Grants

A. CURRENT RESEARCH SUPPORT

3. Mineral Logic Sweazea (PI) 9/1/2026-9/1/2027
Evaluation of fulvic acid supplementation for the attenuation of symptoms associated with metabolic syndrome.
CoIs: Carol Johnston (CHS), Eric Gumpricht, PhD

2. ASU Institute for Social Science Research Sweazea (PI) 1/1/2026-12/31/2026
Faculty seed grant proposal: Perception vs. Reality: Are urban-raised backyard and free-range chicken eggs safer and more nutritious than conventional eggs?
Co-PIs: Kelli Larson (School of Geographic Sciences and Urban Planning, ASU), Co-PI Jose Benito Rosales Chavez (School of Geographic Sciences and Urban Planning, ASU)

1. 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
Current Role: Co-Lead and Senior Personnel

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

17. Isagenix International Sweazea (PI) 12/15/2024-6/30/2025
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

16. 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.

15. SOLS Research Investment Initiative Deviche (PI) 5/19/2020-5/20/2021
Faculty New and Bold Proposals: Urban air pollution and the pulmonary avian microbiome
Role: Co-PI

14. Isagenix International Sweazea (PI) 3/01/2020-5/31/2023
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

13. CAP LTER IV (NSF) Sweazea (PI) 5/20/2019-8/21/2019
Evaluating the effects of urbanization on avian health and abundance near anthropogenic food sources

12. Isagenix International Sweazea (PI) 1/10/2019-3/31/2020
Exploration of a novel organometallic complex to restore gut health in rats consuming an obesogenic diet

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

10. Isagenix International Sweazea (PI) 1/9/2017-5/31/2018
Exploration of the metabolic and vascular protective effects of an organometallic complex (OMC)

9. Isagenix International Sweazea (PI) 12/9/2016-10/9/2019
Reversing Metabolic and Cardiovascular Complications

8. Mayo Clinic Angadi (PI) 2015-2016
Department of Medicine Extramural Chair Award
Aerobic interval exercise preconditioning to prevent cardiometabolic and neuropsychological complications of anthracycline-based breast cancer chemotherapy

7. Isagenix International Sweazea (PI) 10/1/2015-8/31/2016
Evaluation of the protective effects of a beet juice energy drink on vascular health

6. AmeriFlax Council Sweazea (PI) 1/1/2014-6/30/2015
Potential therapeutic benefits of flaxseeds in the treatment of type 2 diabetes symptoms

5. Isagenix International Sweazea (PI) 8/1/2013-11/30/2014
Evaluation of the Anti-aging Properties of Product B

4. USDA Sweazea (PI) 7/1/2012-12/31/2013
Almond Board of California, National Institute of Food and Agriculture
Almond Ingestion to Reduce Hemoglobin A1C in Individuals with Type 2 Diabetes

3. ASU Foundation Sweazea (PI) 2011-2012
A Non-genetic Rat Model of Type 2 Diabetes: The HFD/STZ Model

2. American Ornithologists' Union Sweazea (PI) 2011
Putative Role of Glucose as a Cryoprotective Adaptation in Birds

1. UNM School of Medicine Sweazea (PI) 2/1/2007-6/30/2007
Cardiovascular and Metabolic Diseases Program
Effects of Obesity on Vascular Function in a Model of Sleep Apnea

C. PROPOSALS IN REVIEW

USDA Seyfferth (PD) 01/01/27-12/31/31
Enhancing nutritional quality and farmer prosperity by reducing toxic metal bioaccessibility in U.S. crops
Role: Co-PD and Co-Lead of Education Team; Member of Nutrition and Analytics Team

Haleon, LLC Sweazea (PI) 01/01/27-12/31/27
The Mouth–Cardiovascular Connection: Can Toothpaste Improve Cardiovascular Health?
Co-PI: Carol Johnston (CHS)

Chewable, LLC Sweazea (PI) 01/01/27-12/37/27
Evaluation of Product A in supporting gut health in pre- and post-menopausal women.
Co-PI: Carol Johnston (CHS)

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	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

Courses Taught

Feb 11, 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*
Fall 2025	Guest Lecture on "Avian Physiology", BIO 471, SOLS, ASU *24 students* NTR 524 Chronic Inflammation in the Metabolic Syndrome, CHS *24 students enrolled* HCD 400 Decode Peer-Reviewed Research, CHS *20 students enrolled* BIO 495 Undergraduate Research, SOLS *1 student enrolled* BIO 492 Barrett Honors Directed Study, SOLS *1 student enrolled*
Summer 2025	NTR 524 Chronic Inflammation in the Metabolic Syndrome, CHS *42 students enrolled* BIO 495 Undergraduate Research, SOLS *1 student enrolled*
Feb 12, 2025	"What nature can teach us about diabetes and healthy aging", Master Class in Health Sciences Webinar, ASU-Cintana Alliance.
Spring 2025	NTR 524 Chronic Inflammation in the Metabolic Syndrome, CHS *30 students enrolled* EXW 784 Teaching Internship, CHS *13 students enrolled* NTR 599 Master's Thesis, CHS *1 student enrolled* CHS 493 Honors Thesis, CHS *1 student enrolled* BIO 495 Undergraduate Research, SOLS *1 student enrolled*
Oct 24, 2024	"High Nitrate Foods and Cardiovascular Health", Mayo Clinic Selective Guest Lecture, ASU, Downtown Phoenix campus
Fall 2024	NTR 524 Chronic Inflammation in the Metabolic Syndrome, CHS *33 students enrolled* HCD 400 Decode Peer-reviewed Research, CHS *17 students enrolled* CHS 494 Capstone, CHS *1 student enrolled* MBB 495 Undergraduate Research *1 student enrolled*
Summer 2024	NTR 524 Chronic Inflammation in the Metabolic Syndrome, CHS

	33 students enrolled
Spring 2024	NTR 524 Chronic Inflammation in the Metabolic Syndrome, CHS
	30 students enrolled
	MED 450 Leadership and Professionalism, CHS
	48 students enrolled
	NTR 599 Master's Thesis, CHS
	1 student enrolled
	CHS 494 Capstone, CHS
	1 student enrolled
Fall 2023	NTR 524 Chronic Inflammation in the Metabolic Syndrome, CHS
	28 students enrolled
	HCD 400 Interpreting Scientific Literature, CHS
	25 students enrolled
	CHS 691 Early Career Professional Development, *Guest Lecture on Mentoring*
	NTR 599 Master's Thesis, CHS
	1 student enrolled
	MBB 495 Undergraduate Research
	1 student enrolled
Summer 2023	NTR 524 Chronic Inflammation in the Metabolic Syndrome, CHS
	29 students enrolled
	BIO 360 Animal Physiology, SOLS
	248 students enrolled
Spring 2023	NTR 524 Chronic Inflammation in the Metabolic Syndrome, CHS
	28 students enrolled
	EXW/NTR 784 Teaching Internship, CHS
	6 students enrolled
	NTR 690 Reading and Conference, CHS
	1 student enrolled
	NTR 599 MS Thesis, CHS
	1 student enrolled
	CHS 494 Capstone, CHS
	1 student enrolled
	MBB 495 Undergraduate Research
	1 student enrolled
	BIO 495 Undergraduate Research
	2 students enrolled
	BIO 493 Undergraduate Honors Thesis
	1 student enrolled
Fall 2022	HCD 400 Interpreting Scientific Literature, CHS
	35 students enrolled
	NTR 524 Chronic Inflammation in the Metabolic Syndrome, CHS
	29 students enrolled
	NTR/EXW 691 Physical Activity and Nutrition Graduate Professional Development Seminar, CHS
	14 students enrolled

	BIO 495 Undergraduate Research, SOLS
	3 students enrolled
	BIO 493 Honors Thesis, SOLS
	1 student enrolled
	BIO 492 Honors Research, SOLS
	1 student enrolled
Summer 2022	BIO 360 Animal Physiology, SOLS
	244 students enrolled; 1 Honors Contract
	NTR 524 Chronic Inflammation in the Metabolic Syndrome, CHS
	36 students enrolled
Spring 2022	NTR 524 Chronic Inflammation in the Metabolic Syndrome, CHS
	43 students enrolled
	EXW/NTR 784 Teaching Internship, CHS
	7 students enrolled
	CHS 100 Optimizing Health and Performance, CHS (overload)
	39 students enrolled
	BIO 492 Honors Directed Study, SOLS
	1 student enrolled
	BIO 493 Honors Thesis, SOLS
	1 student enrolled
	BIO 495 Undergraduate Research, SOLS
	2 students enrolled
	NTR 799 Dissertation Research, CHS
	1 student enrolled
Fall 2021	EXW 780 Research Practicum – Samantha Fessler (*10-15h/week*)
	EXW/NTR 691 Topic: Physical Activity and Nutrition Graduate Seminar
	10 students enrolled
	HCD 400 Interpreting Scientific Literature, CHS
	37 students enrolled
	NTR 524 Chronic Inflammation in the Metabolic Syndrome, CHS
	44 students enrolled
	NTR 799 Dissertation Research, CHS
	1 student enrolled
	BIO 492 Honors Directed Study, SOLS
	1 student enrolled
	BIO 495 Undergraduate Research, SOLS
	3 students enrolled
Summer 2021	BIO 361 Animal Physiology Laboratory, SOLS
	51 students enrolled
	BIO 360 Animal Physiology, SOLS
	128 students enrolled
Spring 2021	NTR 100 Introduction to Nutrition Science, CHS
	96 students enrolled
	NTR 524 Chronic Inflammation in the Metabolic Syndrome, CHS
	50 students enrolled
	BIO 493 Honors Thesis, SOLS

	2 students enrolled
	CHS 493 Honors Thesis, CHS
	1 student enrolled
	NTR 791 Topic: Nutrition and Wellness, CHS
	1 student enrolled
	**Taught as Overload*
	EXW/NTR 784 Teaching Internship, CHS
	2 students enrolled
Fall 2020	NTR 524 Chronic Inflammation in the Metabolic Syndrome, CHS
	37 students enrolled
	HCD 400 Interpreting Scientific Literature
	45 students enrolled
	2 Honors Contracts
	**Taught as Overload*
	BIO 492 Honors Directed Study, SOLS
	2 students enrolled
	BIO 495 Undergraduate Research, SOLS
	1 student enrolled
	CHS 492 Honors Directed Study, CHS
	1 student enrolled
Summer 2020	BIO 360 Animal Physiology (SOLS)
	195 students enrolled
Spring 2020	NTR 524 Chronic Inflammation in the Metabolic Syndrome, CHS
	38 students enrolled
	EXW/NTR 784 Teaching Internship, CHS
	9 students enrolled
	CHS 100 Designing Your Well-Being, CHS – overload
	67 students enrolled
	**Taught as Overload*
	BIO 493 Honors Thesis, SOLS
	2 students enrolled
	BIO 495 Undergraduate Research, SOLS
	2 students enrolled
Fall 2019	HCD 400 Interpreting Scientific Literature, CHS
	39 students enrolled
	Included 1 Barrett Honors Contract
	HCD 400 Interpreting Scientific Literature, CHS
	26 students enrolled
	CHS 100 Designing Your Well-Being, CHS – overload
	68 students enrolled; FIRST TIME
	NTR 792 Research, CHS
	1 student enrolled
	BIO 591 Topic: Comparative Nutritional Physiology, SOLS – overload
	7 students enrolled
	BIO 492 Honors Directed Study, SOLS
	1 student enrolled

	BIO 493 Honors Thesis, SOLS *1 student enrolled* BIO 495 Undergraduate Research, SOLS *1 student enrolled*
Summer 2019	BIO 360 Animal Physiology (SOLS) *195 students enrolled*
Spring 2019	NTR/EXW 791, Guest Lecture on *Mentoring*, CHS NTR 524 Chronic Inflammation in the Metabolic Syndrome, Developed and implemented, CHS *28 students enrolled* BIO 492 Honors Directed Study, SOLS *1 student enrolled* BIO 493 Honors Thesis, SOLS *1 student enrolled* BIO 495 Undergraduate Research, SOLS *3 students enrolled* NTR 784 Teaching Internship, CHS *5 students enrolled; FIRST TIME*
Fall 2018	BIO 492 Honors Directed Study, SOLS *1 student enrolled* BIO 493 Honors Thesis, SOLS *2 students enrolled* BIO 495 Undergraduate Research, SOLS *3 students enrolled* NTR 290 Evidence-based Nutrition, CHS *35 students enrolled* NTR 290 Evidence-based Nutrition, CHS *39 students enrolled*
Summer 2018	BIO 360 Animal Physiology (SOLS) *45 students enrolled*
Spring 2018	NTR/EXW 791, Guest Lecture on *Mentoring*, Nutrition, ASU EVO 610 Research Areas of Evolution, Guest Lecture on *Comparative Physiology*, School of Life Sciences (SOLS) NTR 290 Evidence-based Nutrition *30 students enrolled* NTR 290 Evidence-based Nutrition *34 students enrolled* **added welcome videos for each unit of the class* BIO 492 Honors Directed Study, SOLS *2 students enrolled* BIO 493 Honors Thesis, SOLS *1 student enrolled* NTR 493 Honors Thesis, Nutrition *1 student enrolled*
Fall 2017	NTR 532 Pathophysiology and Nutrition, SNHP *9 students enrolled*

	NTR 290 Evidence-based Nutrition *29 students enrolled* BCH 392 Introduction to Research Techniques *1 student enrolled*
Summer 2017	HSC 420 Evaluation of Health Sciences Research, Session A, SNHP *45 students enrolled* BIO 360 Animal Physiology, SOLS *42 students enrolled*
Spring 2017 (Sabbatical)	BIO 492 Honors Directed Study, SOLS *1 student enrolled* BIO 493 Honors Thesis, SOLS *1 student enrolled* BIO 495 Undergraduate Research, SOLS 1 *student enrolled* BCH 392 Introduction to Research Techniques *1 student enrolled*
Fall 2016	EVO 610 Research Areas of Evolution, Guest Lecture, School of Life Sciences (SOLS) HSC 420 Evaluation of Health Sciences Research, Session A, SNHP *41 students enrolled* HSC 420 Evaluation of Health Sciences Research, Session B, SNHP *60 students enrolled* BCH 462 General Biochemistry, Guest lecture on *Diet-induced Vascular Dysfunction*, ASU CHS 101 The ASU Experience, CHS *19 students enrolled*
Summer 2016	BIO 360, Animal Physiology, SOLS *35 students enrolled* HSC 420 Evaluation of Health Sciences Research, Session A, SNHP *42 students enrolled*
Spring 2016	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 NTR/EXW 691 Physical Activity and Nutrition Graduate Seminar, "Professional Development Skills", PANW *26 students enrolled* HSC 420 Evaluation of Health Sciences Research, Session B, SNHP *60 students enrolled* HSC 320 Applied Medical/Health Care Ethics, Session B, SNHP *60 students enrolled* BDE 792 Graduate Research, Biodesign *1 student enrolled* BIO 493 Honors Thesis, SOLS

	1 student enrolled
	BIO 495 Undergraduate Research, SOLS
	1 student enrolled
Fall 2015	NTR 532/PUBH 6900 Pathophysiology and Nutrition, Nutrition program, ASU; Developed and implements, cross-listed with School of Public Health, University of Minnesota
	8 students enrolled
	NTR/EXW 691 Physical Activity and Nutrition Graduate Seminar, "Development of your research agenda". PANW
	26 students enrolled
	BIO 492 Honors Directed Study, SOLS
	1 student enrolled
	BIO 495 Undergraduate Research, SOLS
	2 students enrolled
Summer 2015	BIO 360, Animal Physiology, SOLS
	36 students enrolled
	HSC 420 Evaluation of Health Sciences Research, Session A, SNHP
	35 students enrolled
	HSC 420 Evaluation of Health Sciences Research, Session B, SNHP
	36 students enrolled
Spring 2015	NTR/EXW 791, Doctoral Seminar, Guest Lecture: *Time Management: The 24/7 Professor*, School of Nutrition and Health Promotion (SNHP)
	HSC 320 Applied Medical/Health Care Ethics, SNHP
	40 students enrolled
	HSC 420 Evaluation of Health Sciences Research, SNHP
	51 students enrolled
	BIO 493 Honors Thesis, SOLS
	2 students enrolled
	BIO 495 Undergraduate Research, SOLS
	2 students enrolled
	HSC 494 Undergraduate Research Seminar, SNHP
	1 student enrolled
Fall 2014	BCH 493 Biochemistry Honor's Thesis, Dept Chemistry and Biochemistry
	1 student enrolled
	HSC 320 Applied Medical/Health Care Ethics, SNHP
	24 students enrolled
	HSC 420 Evaluation of Health Sciences Research, SNHP
	41 students enrolled
	BIO 492 Honors Directed Study, SOLS
	1 student enrolled
	BIO 495 Undergraduate Research, SOLS
	3 student enrolled
Spring 2014	EVO 610 Research Areas of Evolution, Guest Lecture, School of Life Sciences (SOLS)
	NTR/EXW 791, Doctoral Seminar, Guest Lecture: *Women in Science*, School of Nutrition and Health Promotion (SNHP)

	HSC 320 Applied Medical/Health Care Ethics, SNHP *34 students enrolled* HSC 420 Evaluation of Health Sciences Research, SNHP *41 students enrolled* BIO 495 Undergraduate Research in my laboratory, SOLS *1 student enrolled* BIO 493 Honors Thesis, Barrett Honors College Undergraduate thesis for research in my laboratory, SOLS *1 student enrolled* BCH 492 Honors Directed Study, Dept Chemistry and Biochemistry *1 student enrolled* HON 498 Honors Research, Barrett the Honors College, ASU *3 students enrolled*
Fall 2013	HSC 420 Evaluation of Health Sciences Research, SNHP *36 students enrolled* BIO 495 Undergraduate Research in my laboratory, SOLS *1 student enrolled* HSC 492 Honors Directed Study, Barrett Honors College Undergraduate thesis research in my laboratory, SNHP *1 student enrolled*
Summer 2013	HSC 320 Applied Medical/Health Care Ethics, SNHP *24 students enrolled*
Spring 2013	HSC 320 Applied Medical/Health Care Ethics, SNHP *34 students enrolled* HSC 420 Evaluation of Health Sciences Research, SNHP *37 students enrolled* BIO 495 Undergraduate Research in my laboratory, SOLS *2 students enrolled* HSC 493 Honors Thesis, Barrett Honors College Undergraduate thesis research in my laboratory, SNHP *1 student enrolled*
Fall 2012	HSC 320 Applied Medical/Health Care Ethics, SNHP *38 students enrolled* HSC 420 Evaluation of Health Sciences Research, SNHP *47 students enrolled* BIO 495 Undergraduate Research in my laboratory, SOLS *1 student enrolled* HSC 492 Honors Directed Study, Barrett Honors College Undergraduate thesis research in my laboratory, SNHP *1 student enrolled* HSC 494 Undergraduate Research Seminar, Undergraduate research projects in my laboratory, SNHP *2 students enrolled*
Summer 2012	HSC 320 Applied Medical/Health Care Ethics, SNHP *17 students enrolled* HSC 420 Evaluation of Health Sciences Research, SNHP

	2 students enrolled (offered as a make-up class for additional students)
Spring 2012	HSC 320 Applied Medical/Health Care Ethics, SNHP
	20 students enrolled
	HSC 420 Evaluation of Health Sciences Research, SNHP
	24 students enrolled
	HSC 494 Undergraduate Research Seminar, independent research in my laboratory, SNHP
	4 students enrolled
Fall 2011	HSC 320 Applied Medical/Health Care Ethics, SNHP
	35 students enrolled
	HSC 420 Evaluation of Health Sciences Research, SNHP
	41 students enrolled
	HSC 494 Undergraduate Research Seminar, independent research in my laboratory, SNHP
	1 student enrolled
Spring 2011	HSC 420 Evaluation of Health Sciences Research, SNHP
	27 students enrolled
	HSC 320 Applied Medical/Health Care Ethics, SNHP
	26 students enrolled
Fall 2010	HSC 420 Evaluation of Health Sciences Research, SNHP
	18 students enrolled (new class, pilot of hybrid version)
	HSC 320 Applied Medical/Health Care Ethics, SNHP
	38 students enrolled
	HSC 494 Undergraduate Research Seminar, independent research in my laboratory, SNHP
	1 student enrolled
Summer 2010	HSC 420 Evaluation of Health Sciences Research: Developed hybrid version, SNHP
	HSC 320 Applied Medical/Health Care Ethics: Developed online version, SNHP
Spring 2010	NTR 394 Developed and implemented: Applied Medical/Health Care Ethics, SNHP
	4 students enrolled (pilot class); this class was later renamed HSC 320
	BIO 202 Human Anatomy and Physiology II Lecture, Applied Biological Sciences (ABS)
	27 students enrolled
	ABS 489 Undergraduate Research, ABS
	1 student enrolled
	ABS 499 Individualized Instruction, Undergraduate Research, ABS
	2 students enrolled
Fall 2009	ABS 493 Undergraduate Honors Thesis, ABS
	1 student enrolled
	ABS 499 Individualized Instruction, Undergraduate Research, ABS
	4 students enrolled
Summer2009	ABS 499 Individualized Instruction, Undergraduate Research, ABS
	1 student enrolled

Spring 2009	BIO 202 Human Anatomy and Physiology II Lecture, ABS *102 students enrolled* ABS 492 Honors Directed Study, ABS *2 students enrolled* ABS 489 Undergraduate Research, ABS *3 students enrolled*
Fall 2008	BIO 202 Human Anatomy and Physiology II; taught both the lecture and 2 laboratory sections; developed and implemented course, ABS *53 students enrolled in the lecture and 39 students combined in the laboratory sections that I taught.*
Fall 2007	Problem Based Learning Facilitator, Medical School Phase I, Human Sexuality, Reproduction/Endocrinology Block, UNM Guest Lecture, Physiology I, New Mexico Tech, Socorro, NM
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 Teaching Assistant, PSIO 601/801, ECG Lab for Medical and Physiology Graduate Students, University of Arizona, Tucson
Spring 2002	Teaching Assistant, PSIO 601/801, Renal Lab for Medical and Physiology Graduate Students, University of Arizona, Tucson Teaching Assistant, PSIO 480: Cellular, Neural and Endocrine Physiology, University of Arizona, Tucson
2001	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	2nd mentor to Dr. Taichi Suzuki, CHS, ASU
2025-2026	2nd 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

Dr. Adi Domer **-** Co-mentor: Robert Dudley, UC Berkeley (2022-2025) Postdoctoral Fellowship, "Glucose regulation in nectarivorous birds," International Human Frontier Science Program Organization (top 13% of applicants).
*Co-authored publication: #J76

C. STUDENT MENTORING

Student, *Program* (Completion Year) "Dissertation Title" [First post-graduate position]
Awards for research in my lab

C1. Chair, Doctoral Dissertations

4. ***Alex Mohr,*** *PhD Exercise and Nutritional Sciences* (2022) "Resiliency and individuality influence the trajectory of gut microbiome through nutritional, feeding, and lifestyle behavior pressures" [Postdoctoral Fellow, ASU]
   2022 CHS Outstanding University Graduate, ASU; 2022 Graduate Research Support Program Award ($2000); 2021 Evidence Analysis Library Summer Research Fellowship, Academy of Nutrition and Dietetics Foundation; 2020 GPSA Athletics Research Grant ($3482); 2020 Graduate Research Support Program Award ($2000); Fall 2019- Spring 2020 ENS Block Grant; 2019 Dr. Dolittle Travel Award, Comparative and Evolutionary Physiology section of the APS; 2019 Graduate and Professional Student Association Travel Grant ($500); 2019 Graduate Research Support Program Award ($2000); Doctoral Fellowship provided by Isagenix International, LLC (2018-2022)
   *Co-authored publications: #J39, 44, 45, 50, 51, 53, 56, 58, 59, 63, 65, 67, 69, 70, 71
3. ***Anthony Basile,*** *PhD Evolutionary Biology* (2022) "Diabetes, Diet, and Doves: Birds as a negative model for hyperglycemic complications" [Assistant Professor, SUNY Oneonta]
   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 Award, 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 Award, CEPS Section of the APS ($500); 2018 SOLS Travel Award ($500); 2018 GPSA Graduate Research Support Program Award ($1953); 2017-2019 Center for Evolution and Medicine Fellowship, ASU
   *Co-authored publications: #J44, 45, 48, 51, 52, 54, 55, 62, 63, 64, 68, 70, 71, 72, 74
2. ***Meli'sa Crawford,*** *PhD Biology* (2019) "Examining the effects of a high fat diet on the development of metabolic syndrome and gut leakiness in male Sprague-Dawley rats" [Postdoctoral Fellow with Dr. Declan McCole at UC-Riverside]
   2019 Martin Frank Minority Travel Fellowship, American Physiological Society; 2018

Caroline tum Suden/Frances Hellebrandt abstract-based award, American Physiological Society; 2018 GPSA Graduate Research Support Program Award ($2000); 2017 3rd place poster presentation at the Arizona Physiological Society conference; 2017-2018 ASU Graduate College Fellowship; 2017-2019 Initiative for Maximizing Student Development (IMSD) Fellowship, ASU; 2016 GPSA Jumpstart grant, ASU ($500); 2016 Sigma Xi Grant-in-Aid of Research award ($5000); 2016 GPSA Travel Grant, ASU ($500); 2016 Minority Travel Fellowship, American Physiological Society; 2014-2016 NSF Bridge to the Doctorate Fellowship

*Co-authored publications: #J40, 42, 43, 44, 50, 59

1. ***Kristin Ricklefs-Johnson,*** *PhD Physical Activity Nutrition and Wellness* (2015) "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" [Postdoctoral Fellow, Mayo Clinic, Arizona; Currently employed as Director of Nutrition Research, US Dairy Council]
   2015 Graduate Research Support Program Award ($2000);2014 2nd place graduate student poster presentation, Arizona Physiological Society conference; 2014-2015 Graduate Education Dissertation Fellowship, ASU; 2014 Jumpstart Research Award, ASU ($450); 2014 Graduate Research Support Program Award, ASU ($450); 2013 AmeriFlax Council Research grant ($5000); 2013 JumpStart Research Award, ASU ($500); 2012-2013 Graduate Research Support Program Award, ASU ($2000)
   *Co-authored publications: #J23 & 32

C2. Mentor, Visiting Doctoral Scholars completing dissertation fellowships in my laboratory

2. ***Milena Figueiredo de Sousa,*** *PhD Food Science and Technology, Federal University of Goias, Brazil* (2022-2023) "Effect of consumption of a fiber formulation on morphology, lipids, glucose, and gastrointestinal hormones in adolescent male Sprague-Dawley rats" [Department Coordinator and Editor-in-Chief of a multidisciplinary health journal]
   2022-2023 Capes Scholarship, Brazil for 10 month research internship in my lab; 2024 2nd place for research presentation at the 1st Midwest Production Congress Innovation and Food Safety (CPISA), Federal University of Goiás, Brazil
   *Co-authored Publications: #J68, 73, 77
1. ***Farham Aslam,*** *PhD Department of Food Science and Human Nutrition, University of Veterinary and Animal Sciences, Lahore, Pakistan* (2015-2017; Co-mentor: Pamela Awan, CHS) "Efficacy of a snack containing white sesame seed oil at improving glucose regulation in human subjects" [Punjab Food Authority, Lahore, Pakistan]
   2015-2016 International Research Support Program Initiative to conduct his dissertation research in my laboratory
   *Co-authored publications: #J33, 37

C3. Chair, Master's Theses

18. ***Sofia Mancini,*** *MS Nutrition and Dietetics* (2025-present) "Bioaccumulation of pollutants in urban v rural eggs and the impact on nutritional composition"
    2026 Stipend provided by ASU Institute for Social Science Research for her efforts on the project
17. ***Krishna Sapariya,*** *MS Nutrition* (2025) "Cardioprotective role of genistein and exercise in the aorta of high fat diet fed mice" *)* [Nutritionist, WIC Program, New Bedford Community

Health Center]
2025 Graduate College Travel Grant ($500)

16. ***Maggie Symes,*** *MS Nutrition* (2025) "Examining the effects or oral myo-inositol on glucose metabolism in avian blood glucose metabolism and regulation in wild European starlings (*Sturnus vulgaris*)" [Dietitian, Mayo Clinic, Scottsdale, AZ]
2025 Graduate Student Government Travel Grant ($950); 2025 Novo Nordisk Award, American Physiological Society ($500); 2023 Jumpstart Grant ($750)
*Co-authored publication: #J68
15. ***Rory Lockett,*** *MS Biology* (2024) "Impact of urban stressors on the nutritional physiology of mealworms"
2024 Novo Nordisk Award, APS Summit ($500); 2023 Jumpstart Grant, GPSA, ASU ($750); Supported by ASU School of Life Sciences MS Diversity Assistantship
*Co-authored publication: #J77
14. ***Jingyu Ling,*** *MS Nutrition* (2024) "Evaluation of a novel fiber complex for the prevention of high fat diet induced metabolic syndrome" [Initial position: Registered Dietitian, Morrison Healthcare]
2023 GPSA Terminal Graduate Research and Support Program Grant, ASU ($2000)
*Co-authored publication: #J73
13. ***Adam Liang,*** *MS Nutrition* (2023) "Evolutionary mismatch education to improve diet of veterans" [Registered Dietitian, HonorHealth]
12. ***Morgan Nelson,*** *MS Biology* (2020) "Evaluation of an organometallic complex on the development of cardiovascular disease risk following a 10-week high-fat diet" [Clinical Quality and Compliance Specialist]
2019-2020 Graduate College Fellowship, ASU; 2019 Graduate Research Support Program Award ($1500); 2019 Graduate and Professional Student Association Travel Grant for EB 2019 ($500); 2018 Jumpstart Research Grant, GPSA, ASU ($500)
11. ***Kelly McCormick,*** *MS Nutrition* (2019) "Will a novel organometallic complex mitigate the effects of hypertension in rats fed a high fat diet?" [Nutrition Specialist, AM Nutrition Services]
10. ***Julia Barberes,*** *MS Nutrition* (2018) "The effects of sumac on saturated fat-induced inflammation in human vascular smooth muscle cells and isolated mesenteric arteries from rats" [Inpatient Dietitian, Mayo Clinic Hospital, Scottsdale AZ]
9. ***Deb Watson,*** *MS Nutrition* (2018) "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" [Medical student, Universidad Autonoma de Guadalajara, Mexico (class of 2021)]
2018 GPSA Jumpstart Grant ($500)
*Co-authored publication: #J62
8. ***Selicia Mayra,*** *MS Nutrition – Co-Mentor: Carol Johnston, CHS* (2017) "Comparison of high-nitrate versus low-nitrate diets on cardiovascular health in post-menopausal women" [Doctoral Student, Exercise and Nutritional Sciences Program, CHS]
2016 GPSA Jumpstart Grant, ASU ($500)
*Co-authored publication: #J41 & 45
7. ***Tana Ingram,*** *MS Nutrition and Dietetics* (2016) "Evaluation of protein glycation and antioxidant levels in birds of prey" [Registered Dietitian, Dignity Health, Weight Loss Center, Gilbert, AZ]

2015 Graduate Research Support Program Award, ASU ($2000)
*Co-authored publication: #J35

6. ***Emily Schwab,*** *MS Nutrition* (2016) "Pilot study: The synergistic effect of almond consumption and aerobic activity on the reduction of cardiovascular disease risk in sedentary adults" [Clinical Dietitian with Maricopa Integrated Health System, Phoenix, AZ]
   2015 Graduate Research Support Program Award, ASU ($1783)
   *Co-authored publication: #J36
5. ***Jessica Zuck,*** *MS Nutrition* (2016) "A comparison of the impact of temperature and glucose concentration on percent glycated serum albumin between chickens and humans" [Currently working as a Fresh Fruit and Vegetable Program Specialist with the Arizona Department of Education, Phoenix, AZ]
   2015 Graduate Research Support Program Award, ASU ($2000)
   *Co-authored publications #J31 & 35
4. ***Catherine Crinigan,*** *MS Nutrition* (2014) "Effects of a short-term high fat diet on kidney morphology and function" [Clinical Dietitian, Southern Arizona VA, Tucson, AZ]
   2014 Graduate Research Support Program Award, ASU ($2000); 2014 Sigma Xi Grant-in-Aid of Research, ASU ($200)
   *Co-authored publication: #J24
3. ***Samer Alanbagy, MD,*** *MS Nutrition* (2014) "The effects of omega-3 supplementation on markers of obesity and endothelial function in healthy subjects"
2. ***Katherine Petersen,*** *MS Nutrition* (2014) "The effects of almond consumption in subjects with type 2 diabetes: Differences between men and women" [Registered Dietitian at Banner Health, Phoenix, AZ; currently enrolled in Exercise and Nutritional Sciences doctoral program, CHS]
   2012-2013 Graduate Research Support Program Award, ASU ($2000); 2012 JumpStart Research Award, ASU ($500)
   *Co-authored publication: #J23
1. ***Catherine Jarrett,*** *MS Nutrition* (2012) "Characterization of acetylcholine-mediated vasodilation in mourning dove arteries under normoglycemic and hyperglycemic conditions" [Doctoral Student, Exercise and Nutritional Sciences program, CHS, ASU]
   2012 Novo Nordisk Travel Award, CEP Section, APS; 2010-2011 Graduate Research Support Program Award, ASU ($2000); 2010 Sigma Xi Grant-in-Aid of Research, ASU ($200)
   *Co-authored publications: #J19, 25, 29

C4. Chair, Barrett Undergraduate Honors Theses

36. ***Ayushi Setia,*** *Biomedical Sciences* (2026-present) "Exploration of risks of pollutant exposure by socioeconomic status"
35. ***Dolly Ortloff,*** *Biochemistry* (2026-present) "A comparison of resistance to albumin glycation across species"
34. ***Lea Fakih,*** *Biological Sciences* (2025-present) "Exploration of risks of pollutant exposure by socioeconomic status"
33. ***Nila Sathyan,*** *Biological Sciences* (2025-present) *SOLUR Researcher:* "*Independent Research:* Microplastics in the food chain" Thesis topic TBD
32. ***Arya Saravanan,*** *Biomedical Sciences* (2025-present) Thesis topic TBD "*Team Research:* Impact of urban substrates on the gut microbiome and bioaccumulation of pollutants in

mealworms"

31. ***Sravan Paritala,*** *Biomedical Sciences* (2025-present) Thesis topic TBD "*Team Research:* Impact of urban substrates on the gut microbiome and bioaccumulation of pollutants in mealworms"
30. ***Vylet Bertoncino,*** *Nutrition* (2025-present) "Perception v Reality: An exploration of the nutritional profile of urban v rural eggs"
29. ***Lucas Zuch,*** *Biology* (2025-present) "A comparison of the effects of genistein and treadmill exercise on high fat high sucrose diet-induced cardiovascular disease"
28. ***Sofia Valencia,*** *Biology – Co-Chair: Taben Hale, U Arizona* (2025) "Cardiac Effects of Mild Traumatic Brain Injury: Influence of Exercise and L-NAME"
27. ***Harlow Kelley,*** *Biology – Co-Chair: Tabel Hale, U Arizona* (2025) "Impact of TBI on cardiac remodeling in spontaneously hypertensive rats"
26. ***Ryan Hassen,*** *Biomedical Sciences* (2023) "Acute effects of metformin on plasma glucose regulation in mourning doves" [Research Data Support Specialist, U Arizona]
    *Co-authored publication: #J68
25. ***Avin Kreisler,*** *Biomedical Sciences* (2023) "The role of gluconeogenesis in the regulation of avian blood glucose concentration"
    *Co-authored publication: #J68
24. ***Nafis Eghrari,*** *Biomedical Sciences – Co-Chair: Rayna Gonzalez, U Arizona* (2022) "Differential expression profile of sphingosine-1-phosphate receptors in human brain vascular smooth muscle cells and endothelial cells following hypoxia plus glucose deprivation" [MD Student, Case Western Reserve University]
23. ***Asfia Numani,*** *Biological Sciences – Co-Chair: Jon Plasencia, Phoenix Children's Hospital* (2021) "Fetal growth models of cardiac size, shape and function, and prediction of congenital cardiomyopathy in fetuses with diabetic mothers" [MD/PhD Student, Mayo Clinic]
22. ***Shambhavi Mishra,*** *Biological Sciences – Co-Chair: Jon Plasencia, Phoenix Children's Hospital* (2021) "Fetal growth models of cardiac size, shape and function, and prediction of congenital cardiomyopathy in fetuses with diabetic mothers" [MS Healthcare Delivery]
21. ***Carissa McEvoy,*** *Human Nutrition* (2021) "Effects of intermittent fasting regimens on circulating markers of oxidative stress in humans: A systematic review of randomized controlled trials"
    *Co-authored publication: #J58
20. ***Rijul (Raj) Jain,*** *Biological Sciences* (2021) "Systematic review of the impact of genistein on diabetes related outcomes" [MD student, Albany Medical College]
    *Co-authored publication #J60
19. ***Michael Renner,*** *Biological Sciences* (2020) "Tibial vasodilation in mourning doves on a Western-style diet" [Certified Personal Trainer and Nutrition Coach]
    *Co-authored publications: #J52 & 55
18. ***Jason Cusimano,*** *Medical Microbiology – Co-Chair: Peter Reaven, Phoenix VA* (2020) "Investigation of whether glucocorticoids induce insulin resistance in skeletal muscle via interaction with TXNIP" [MD student, U Arizona]
17. ***Lana Kayata,*** *Biological Sciences* (2020) "Effects of an urban diet on glucose, sodium, and osmoregulation in the mourning dove (*Zenaida macroura*)" [Dental Student, Midwestern University]
    *Co-authored publication: #J55
16. ***Kasandra Rascon,*** *Biology – Co-Chair: Richard Herman, SMS* (2019) "Effects of menthol

on weight regain and maintenance of caloric restriction"

15. ***Courtney Wood,*** *Biological Sciences* (2019) "Novel organometallic complex mitigates liver injury caused by a 10-week high fat diet in adolescent male Sprague-Dawley rats" [MS, Medical Nutrition, ASU]
14. ***Sanna Rahman,*** *Biological Sciences – Co-Chair: Rayna Gonzalez, U Arizona* (2018) "Hypoxia plus glucose deprivation increases NF-kB activation and downstream pro-inflammatory enzyme levels in human brain VSM cells" [MD student, Creighton Univ.]
13. ***Ashlee Starr,*** *Biological Sciences* (2018) "Evaluation of OMC-mediated glucose regulation in muscle" [MD school, Midwestern U. (DPM, class of 2023)]
12. ***Lorne Lambries,*** *Health Sciences* (2018) "Impact of sumac on lowering oxidative stress as it pertains to dementia"
11. ***Arturo (Niko) Rojas,*** *Health Sciences – Co-Chair: Angela Mexas, Midwestern U* (2018) "Growing Mya-1 feline regulatory T cells for adoptive immunotherapy" [PharmD, Pacific University]
10. ***Alice Gadau,*** *Biological Sciences* (2018) "Putative vasodilatory role of insulin in birds" [PhD Student, The Rockefeller University, NY]
    2015-2018 School of Life Sciences Undergraduate Researcher (SOLUR) Fellowship, ASU
    *Co-authored publications: #J25, 43
9. ***Robyn Bartel,*** *Biological Sciences* (2017) "Lenalidomide modulates high fat diet induced inflammation in human vascular smooth muscle cells" [MD student, U. New Mexico]
8. ***Hanna Sivak,*** *Biological Sciences* (2017) "Diet-induced thermogenesis as measured by exogenous norepinephrine injections in high fat diet–fed rats: A pilot study" [MD student, Creighton U. (class of 2027)]
7. ***Liam O'Neill,*** *Biological Sciences* (2016) "High-intensity exercise preconditioning prevents downregulation of eNOS expression in the aorta following doxorubicin treatment"
    2015 Athletics Research Grant, GPSA, ASU ($3500) [MD Student, Rowan University (class of 2022)]
6. ***Noor Raad,*** *Biological Sciences* (2015) "Replacing dietary meat with fish significantly increases plasma glucose without affecting protein glycation" [Research and Community Outreach Coordinator, Memorial Sloan Kettering Cancer Center, New York, NY]
5. ***Soukaina Kouteib,*** *Biological Sciences* (2015) "The role of lipolysis in regulating plasma glucose concentrations in mourning doves"
    Spring 2015 SOLUR Fellowship, ASU
4. ***Matthew Calhoun,*** *Biochemistry* (2015) "Hepatic inflammatory response following high fat diet in adolescent male Sprague-Dawley rats"
    2013 APS Summer Undergraduate Research Fellowship
    *Co-authored publication: #J24
3. ***Anna Simperova,*** *Animal Physiology and Behavior* (2015) "Genistein-mediated diet tends to increase oxidative stress in the vasculature of ob/ob mice"
    2013-2015 School of Life Sciences Undergraduate Research Fellowship; 2014 Nominated, Undergraduate Student of the Year, SOLS
    *Co-authored publications: #J25 & 27
2. ***Tyler Liss,*** *Health Sciences* (2013) "Triglyceride accumulation following high fat, but not high sucrose, diets in young male Sprague-Dawley rats" [MD Student, U Arizona]
1. ***Christina Smith,*** *Nutrition* (2009) "The effects of advanced glycation end products and oxidative stress in the vasculature of birds"

3rd place, UG poster award competition, 2009 AZ Physiological Society
*Co-authored publications: #J12, 19

C5. Non-Thesis Research Projects

Mentored Graduate Student Non-Thesis Research Projects

3. ***Tara Hill,*** *MS Nutrition* (Completed 2022) *MS Capstone Project:* "The effects of an evolutionary mismatch narrative, during nutrition education, on ultra-processed food intake, anthropometrics, lipid profile and blood pressure"
2. ***Steven Stanley,*** *MS Medical Nutrition* (Completed 2021) *Applied Project:* "The effect of food processing on total antioxidant content" [MD Student, Creighton U. (class of 2025)]
   *Co-authored publication: #J71
1. ***Krystal Tsosie,*** *MS Applied Ethics* (2011-2012) "Seasonal regulation of glucose in birds" [PhD student, Genomics and Health Disparities, Vanderbilt University]
   *Co-authored publication: #J46

Mentored Undergraduate Student Non-Thesis Research Projects

42. ***Daniela Radashkevich,*** *Biological Sciences* (2025-present) "Examining the nutritional profile and safety of chicken eggs raised in different commercial grower systems"
41. ***Alondra Perez Flores,*** *Medical Studies* (2025-present) "Dietary preferences in urban and rural birds"
40. ***Alyssa Moise,*** *Post-baccalaureate Biological Sciences* (2025-present) "Food choice in urban and rural birds and its potential impact on physiology"
39. ***Maddelyn Gibson,*** *Biology* (2024-2025) "Do birds select different foods in urban v rural environments?"
    2025 CAP LTER Summer REU Fellowship, $4000
38. ***Matthew Babiash,*** *Biochemistry* (Summer 2025) "Exploring the link between locomotion and cancer resilience"
37. ***Gabrielle (Gale) Larson,*** *Medical Microbiology* (2021-2025) "Acute effects of metformin on plasma glucose regulation in mourning doves" [MD student, Western U. Health Sciences]
    *Co-authored publication: #J68
36. ***Clark Chee,*** *Nutrition* (Fall 2024) CHS 494 Capstone: "Comparison of the effects of genistein vs treadmill exercise on vascular outcomes"
35. ***Oliver Wellington,*** *Nutrition* (Spring 2024) CHS 494 Capstone: Learned how to stain and image tissue sections for microscopy
34. ***Maggie Symes,*** *Nutrition* (2022-2023) "Acute effects of metformin on plasma glucose regulation in mourning doves" [Clinical Dietitian, Mayo Clinic]
    *Co-authored publication: #J68
33. ***Hudda Alkahedy,*** *Nutrition* (Spring 2023) CHS 494 Capstone: "Exploration of a novel dietary fiber formulation for the prevention of metabolic syndrome"
32. ***Vivian DoleVy,*** *Biomedical Sciences* (2019-2023) *SOLUR Project:* "Effects of in vitro exposure to high glucose on oxidative stress" [MS Nursing, ASU]
31. ***Nereus Noshirwani****, Biomedical Sciences* (2020-2022) *LEAP Scholar Project:* "Ultra-processed foods and fast food restaurants: A menu and ingredient analysis" [MD Student, Burrell College of Osteopathic Medicine]
    LEAP Scholar; 2nd Place, 2022 SOLS Undergraduate Research Poster Symposium

*Co-authored publication: #J72

30. ***Kavita Singh,*** *Biological Sciences* (2020-2022) SOLUR Research project: "A systematic review of the effects of macronutrient manipulation on avian blood glucose concentration"
    2nd Place, Undergraduate Student Poster Presentation, Arizona Physiological Society conference, Glendale, AZ; Presented research at 2021 SOLS UG Research Symposium; 2020-2021 SOLUR Student
    *Co-authored publication: #J62 & 68
29. ***Angel Morales,*** *Biological Sciences* (2020-2021) "Link between level of food processing and glucose load"
    3rd place, Undergraduate Student Poster Symposium, 2021 AZ Physiological Society Conference, Glendale, AZ
    *Co-authored publication: #J70
28. ***Ellinor Hjelm,*** *Biological Sciences* (2020-2021) *SOLUR Research project*: "Total antioxidant capacity of foods based on level of processing"
    2020-2021 SOLUR Student
    *Co-authored publications: #J70 & 71
27. ***Marie Langlois,*** *Health Sciences* (Fall 2020) Honors Contract, HCD 400: "Exploring genistein for treatment of hyperglycemia in diabetes"
26. ***Faith Kyaruzi,*** *Health Sciences* (Fall 2020) Honors Contract, HCD 400: Literature search for a systematic review and meta-analysis on the relationship between urbanization and blood sugar in birds
25. ***Sarah Mathias,*** *Biological Sciences* (Fall 2020) Assisted with comparison of nutritional physiology in urban and rural birds
24. ***Monique Bertin,*** *Biological Sciences* (2018-2019) SOLUR Apprentice: Lab assistance with ecophysiology projects [MS student, U Queensland, Australia]
    2018-2019 SOLUR Apprentice
23. ***Mohamad Abdallah,*** *Biological Sciences* (2018-2019) General research assistant
22. ***William Clark,*** *Biological Sciences* (2016-2017) "Effects of urban nutrition on glucose regulation in wild mourning doves" [Wealth Management Intern]
    2017 NSF IOSP Undergraduate Summer Research Fellowship, American Physiological Society
    *Co-authored publication: #J48
21. ***Austin Lehew,*** *Biological Sciences* (2016-2017) Volunteer research assistant [MD student, Oakland Univ. (class of 2023)]
20. ***Daphne Lodes (Eagleman),*** *Biological Sciences* (2015-2017) "Effects of in vitro glucose exposure on avian vascular reactivity; Exploring the relationship between osmolarity and glucose in birds" [PhD student, U Illinois at Urbana Champaign]
19. ***Amr Nasef,*** *Health Sciences* (Spring 2017) Honor's Contract, HCD 400
18. ***Lauren Martinez,*** *Health Sciences* (Spring 2017) Honor's Contract, HCD 400
17. ***Kali Mahrer,*** *Biological Sciences* (Fall 2016) "Evaluation of the antioxidant nature of uric acid in avian arteries following high glucose exposure" [MS Biology, U. Saint Joseph]
16. ***Troy Wagner,*** *Biological Sciences* (2014-2016) "Evaluation of effectiveness of sesame seed oil at reversing complications associated with pre-diabetes" [Office Administration]
15. ***Zoha Ahmed,*** *Biological Sciences* (2013-2016) "Muscle glucose regulation in birds; High glucose impairs acetylcholine-mediated vasodilation in isolated arteries from mourning doves" [MD student, U Arizona (class of 2021)]

2014-2016 School of Life Sciences Undergraduate Research (SOLUR) Fellowship, ASU; 2015-2016 Ralph A. Fisher Jr. Scholarship, School of Life Sciences
*Co-authored publication: #J29

14. ***Marc Girard,*** *Bioinformatics, U Poitiers, France* (Summer 2014) "Role of dietary carotenoids in reducing tissue oxidative stress in ducks" [LIMS Consultant, INFOGENE, Region de Lyon, France]
Summer Research Fellowship from U. Poitiers to gain research experience in my lab
*Co-authored publication: #J39
13. ***Katerine Diaz Marin,*** *Dietetics and Nutrition, Florida International U* (Summer 2013) "Role of muscle in avian glucose regulation" [MS/RD, Florida International University]
2013 STEP-UP Summer Undergraduate Fellowship, American Physiological Society
12. ***Danielle Alder*****,** *Nutrition* (2013) Research assistant for USDA funded Almond grant
11. ***Sean Rayle,*** *Kinesiology* (Fall 2013) "Protein glycation in birds"
10. ***Scott Ghormley,*** *Biological Sciences* (2013) General laboratory assistance
9. ***Tiffany Juan,*** *Bioengineering* (2011-2013) "Pathophysiological consequences of schistosome infections in doves" [Direct Care Worker, Alarys Home Health, AZ]
*Co-authored publication: #J25
8. ***Amanda Caskey,*** *Nutrition* (Fall 2012) "Role of diet in glucose regulation across species"
7. ***Corey Frahm,*** *Health Sciences* (2012-2013) "The controversial role of leptin in birds" [PharmD, U Arizona]
6. ***Diana Soweiden,*** *Health Sciences* (2011-2012) 'Effects of acute exposure to high glucose on tissue oxidative stress" [MD school, Midwestern Univ]
5. ***Carolina Pusec,*** *Physiology, U Arizona* (Summer 2011) "Endothelial nitric oxide synthase expression in avian arteries" [MD, U Illinois, Chicago]
*Co-authored publication: #J19
4. ***Natalie Gentry (Rodriguez),*** *Nutrition* (2009-2011) "Stress-mediated alterations of avian glucose homeostasis" [Nursing school, Brookline College, Phoenix]
2010 APS/NIDDK Minority Travel Fellowship, Experimental Biology conference
*Co-authored publication: #J17
3. ***Mateja Lekic,*** *Applied Biological Sciences* (2009-2011) "Mechanisms of high fat diet-mediated impairment of vascular reactivity" [MD Student, U Arizona]
3rd place, UG poster award competition, 2010 Arizona Physiological Society conference
*Co-authored publications: #J8 & 19
2. ***Maggie Garvin,*** *Nutrition* (2009-2010) "Comparison of glucose concentrations across birds, mammals, and reptiles" [Naturopathic Medical School, SCNM, AZ]
1. ***Richard Sparr****, Applied Biological Sciences* (2009-2010)"Putative role for insulin in glucose excretion in birds" [Quality Coach, Western Governor's Univ.]
*Co-authored publications: #J16 & 34

A. STUDENT COMMITTEES

Student, *Program, Unit - Mentor* (Completion Year) "Thesis Title" *Awards for research in my lab* [First post-graduate position] Co-authored publications

D1. Doctoral Dissertation Committees

30. ***Aysegul Acet,*** *Exercise and Nutritional Sciences – Mentor: Shu Wang, CHS* (2/26-present) TBD Dissertation

29. ***Busayo Aladun,*** *Exercise and Nutritional Sciences – Mentor: Min-Hyun Kim, CHS* (12/24-present) "The role of hypothalamic *JMJD3* in regulating energy homeostasis"
28. ***Kinta Schott,*** *Exercise and Nutritional Sciences – Mentor: Floris Wardenaar, CHS* (4/23-present) TBD Dissertation topic
27. ***Mollie Peters,*** *Evolutionary Biology – Mentor: Ken Buetow, SOLS* (2025) "Recursion and its applications to characterizing metabolic circuits in healthy and failing hearts"
26. ***Karen Moreno****, Exercise and Nutritional Sciences – Mentor: Pamela Swan, CHS* (2025) "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"
25. ***Emily (Oliver) Dow,*** *Exercise and Nutritional Sciences – Mentor: Carol Johnston, CHS* (2025) "The effects of a 12-week resistance exercise program on biomarkers of intestinal permeability, cognition, and mood state in healthy adults"
24. ***Adrian Moreno Borrallo,*** *Biology, University of Strasbourg, France – Mentor: François Criscuolo, U Strasbourg, France* (2024) "Glucose and glycation in birds: phylogenetic and ecological factors, physiological mechanisms and individual fitness links"
23. ***Sarah Polekoff,*** *Biology – Mentor: Pierre Deviche, SOLS* (2024) "Effects of urban living on oxidative stress and behavior in house finches (*Haemorhous mexicanus*)"
22. ***Samantha Fessler,*** *Exercise and Nutritional Sciences – Mentor: Carol Johnston, CHS* (2024) "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"
    *Co-authored publication: #J59
21. ***Daniel Jackson,*** *Biology – Mentor: Kevin McGraw, SOLS* (2023) "Urban evolution in Arizona cardinals"
20. ***Bukola Obayomi,*** *Biology – Mentor: Debra (Page) Baluch, SOLS* (2023) "Investigating tyramine's role in the mouse uterine horn"
19. ***Jennifer Hesterman,*** *Neuroscience – Mentor: Joshua LaBaer, Biodesign* (2022) "Detecting autoantibodies as biomarkers of Type 1 diabetes"
18. ***Eric Bartholomae,*** *Exercise and Nutritional Sciences – Mentor: Carol Johnston, CHS* (2022) "Nitrogen balance and protein intake at the RDA in underactive male vegans"
17. ***Paniz Jasbi,*** *Exercise and Nutritional Sciences – Mentor: Carol Johnston, CHS* (2022) "Mass spectrometry-based metabolomics: Considerations for laboratory testing"
    *Co-authored publications: #J48, 51, 59, 65, 69
16. ***Pierce Hutton,*** *Biology – Mentor: Kevin McGraw, SOLS* (2021) "The 'beauty sleep' hypothesis: Plumage ornaments as sexually selected indicators of sleep phenotype"
    *Co-authored publication: #J47
15. ***Emily Webb,*** *Biology – Mentor: Kevin McGraw, SOLS* (2021) "Where have the carotenoids gone? Physiology of carotenoid absorption and distribution in birds"
14. ***Latoya Campbell,*** *Biology – Mentor: Jin Liu, Mayo Clinic* (2021) "Apoliprotein A6 function in adipose tissue"
13. ***Shelbi Peck,*** *Biology – Mentor: Page Baluch, SOLS* (2021) "The pursuit of parenthood: Expanding horizons of reproductive physiology and assisted reproductive technologies"
12. ***Selicia Mayra,*** *Exercise and Nutritional Sciences – Mentor: Carol Johnston, CHS* (2020) "High-nitrate salad increased plasma nitrates/nitrites and brachial artery flow-mediated dilation in postmenopausal women: a controlled feasibility study"
    *Co-authored publications: #J41 & 45

11. ***Lakshmi Madhavpeddi,*** *Clinical Translational Science – Mentor: Taben Hale, U Arizona* (Fall 2018) Comprehensive exam committee: "The role of prenatal stress in contributing to later cardiovascular disease"
10. ***Shelley Valle,*** *Biology – Mentor: Pierre Deviche, SOLS* (2018) "Consequences of negative energy balance on avian reproductive physiology: Endocrine and Metabolic Mediators"
9. ***Jacob Campbell,*** *Biology – Mentor: Jon Harrison, SOLS* (2018) "Physiological and genetic mechanisms underlying variation in anoxia tolerance in *Drosophila melanogaster*"
8. ***Jessica Knurick,*** *Physical Activity Nutrition and Wellness – Mentor: Carol Johnston, CHS* (2015) "Effects of postmeal walking on postprandial glucose control and oxidative stress" *Co-authored publication: #J30
7. ***Scott Davies,*** *Biology – Mentor: Pierre Deviche, SOLS* (2014) "Investigating the influence of food on reproductive physiology and gonad growth: Urbanization as a natural experiment" *Co-authored publication: #J17
6. ***Sarah Wherry,*** *Physical Activity Nutrition and Wellness – Mentor: Pamela Swan, CHS* (2014) "Effectiveness of a Wii® intervention on balance, muscular fitness, and bone health in middle-aged women"
5. ***Giselle Pereira Pignotti,*** *Physical Activity Nutrition and Wellness – Mentor: Sonia Vega-Lopez, CHS* (2013) "The efficacy of nopales (*Opuntia Spp*) on lipoprotein profile and oxidative stress among moderately hypercholesterolemic adults"
4. ***Elizabeth Sussman,*** *Physical Activity Nutrition and Wellness – Mentor: Carol Johnston, CHS* (2013) "Selenium supplementation and cardiovascular outcome markers in hemodialysis patients: A randomized, controlled trial"
3. ***Laurie Black,*** *Physical Activity Nutrition and Wellness – Mentor: Glenn Gaesser, CHS* (2013) "Effects of a fat/sugar supplemented diet, with and without exercise training, on endothelial function, blood pressure, and markers of cardiovascular risk"
2. ***Sarah Kuzmiak,*** *Kinesiology – Mentor: Wayne Willis, SOLS* (2012) "Mitochondrial physiology in avian and mammalian skeletal muscle" *Co-authored publication: #J15
1. ***H. Bobby Fokidis,*** *Biology – Mentor: Pierre Deviche, SOLS* (2010) "From the brain to the barrio: Energy and stress interact to facilitate the urbanization of Sonoran Desert birds" *Co-authored publications: #J13 & 16

D2. Master's Thesis Committees

19. ***Brittany Blake,*** *Applied Biological Sciences – Mentor: Heather Bateman, CISA* (8/25-present) "Paradoxical stewardship and social-ecological traps in urban bird provisioning"
18. ***Tiffany Peterson,*** *Nutritional Sciences – Mentor: Shu Wang, CHS* (8/25-present) Thesis TBD
17. ***Joshua Altmann,*** *Nutritional Sciences – Mentor: Min-Hyun Kim, CHS* (8/25-present) Thesis TBD
16. ***Allyson Deimeke****, Nutrition – Mentor: Carol Johnston, CHS* (2023) "The cognitive effects of maqui berry extract and fish oil in adults with type 2 diabetes"
15. ***Ciara Lundy,*** *Nutritional Science – Mentor: Carol Johnston, CHS* (2022) "Relationships between erythrocyte osmotic fragility and vitamin C nutriture in adults with or without type 2 diabetes"
14. ***Hunter Kleinschmidt,*** *Biology – Mentor: Stavros Kavouras* (2021) "The influence of dietary food moisture on hydration status in adults"

13. ***Bethany Weigand,*** *Nutrition – Mentor: Natasha Tasevska, CHS* (2021) "Exploring the association of dietary sugars and advanced glycation end products"
12. ***Jeffrey Patterson,*** *Nutrition – Mentor: Haiwei Gu, CHS* (2020) "Integrative metabolomics reveals the effects of nitrate-rich diets on vascular function: A secondary data analysis"
11. ***Katy Argo,*** *Nutrition – Mentor: Corrie Whisner, CHS* (2019) "Gut microbiome diversity and community structure following dietary genistein treatment in a murine model of cystic fibrosis"
10. ***Noel Ugarte,*** *Nutrition – Mentor: Carol Johnsthon, CHS* (2019) "Assessing the relationship between cobalamin deficiency and methylation capacity in a vegetarian population"
9. ***Elizabeth Journey,*** *Nutrition – Mentor: Corrie Whisner, CHS* (2017) "Changes in weight status and the intestinal microbiota among college students"
8. ***Elizabeth McElaney,*** *Nutrition – Mentor: Carol Johnston, CHS* (2016) "Almond consumption during a walking intervention in relation to heart rate recovery"
   *Co-authored publication: #J36
7. ***Kathryn Earhart (Bratrud),*** *Nutrition – Mentor – Carol Johnston, CHS* (2015) "Vitamin C and the Common Cold in the Asthmatic Population"
6. ***Kelly Cosgrove,*** *Nutrition – Mentor: Carol Johnston, CHS* (2015) "The impact of adherence to a vegan diet on acid-base balance: A randomized controlled trial in healthy college students"
5. ***Lindsay Gnant (Stubbs),*** *Nutrition – Mentor: Carol Johnston, CHS* (2014) "The effect of vitamin C supplementation on sICAM-1 in asthmatic study participants"
   *Co-authored publication: #J45
4. ***Emily Medved,*** *Nutrition – Mentor: Carol Johnston, CHS* (2012) "Effects of vinegar on colonic fermentation and glycemia"
3. ***Jennifer Vranish,*** *Physiology – Mentor: Eldon Braun, U. Arizona* (2011) " Isolation of putative osmoreceptor from avian GI tract"
2. ***Kimberly Hostetter,*** *Physiology – Mentor: Eldon Braun, U Arizona* (2011) "Glucose and insulin expression patterns in avian pancreata"
1. ***Claire Anthony (Regnitz),*** *Physiology – Mentor: Eldon Braun, U Arizona* (2010) "Avian resistance to glycation"
   *Co-authored publication: #J49

D3. Undergraduate Thesis Committees

15. ***Hrishita Sharma,*** *Nutrition – Mentor: Carol Johnston, CHS* (Completed 2024) "Mouthwash, nitric oxide, and blood pressure"
14. ***Dean Drake,*** *Nutrition – Mentor: Kevin McGraw, SOLS* (Completed 2022) "Predictors of plasma protein levels in house finches: The roles of urbanization, molt, disease status, and body condition"
13. ***Kathryn DePinto,*** *Biological Sciences – Mentor: Kevin McGraw, SOLS* (Completed 2021) "Back to the future: Does previously grown ornamental coloration in male house finches reveal mate quality at the time of pair formation?"
12. ***Matthew Siegel,*** *School of Molecular Sciences – Mentor: Taben Hale, U Arizona* (Completed 2021) "The impact of different normalization methods on Western Blot results"
11. ***Shayna Bauer,*** *Biological Sciences – Mentor: Carol Johnston, CHS* (Completed 2021) "The potential effect of vinegar ingestion on alleviating depression through restored gut microbiome composition"
10. ***Jacqueline Moreno,*** *Biological Sciences – Mentor: Kevin McGraw, SOLS* (Completed 2019)

"Food choice and health status of birds"

9. ***Lauren Schaper,*** *Biological Sciences – Mentor: Kevin McGraw, SOLS* (Completed 2019) "Bird-feeder cleaning lowers disease severity in rural but not urban birds"
8. ***Laura Stokes,*** *Biochemistry – Mentor: Boris DeCourt, Biodesign* (Completed 2018) "The influence of extracellular mitochondria on neuroinflammation"
7. ***Brooke Sykes,*** *Biological Sciences – Mentor: Kevin McGraw, SOLS* (Completed 2016) "Urban-rural variation in color and parasites in female house finches"
6. ***Chandan Saini,*** *Psychology – Mentor: Kevin McGraw, SOLS* (Completed 2017) "The effects of artificial light at night on immune development in a precocial bird"
5. ***Timothy Panknin,*** *Health Sciences – Mentor: Siddhartha Angadi, CHS* (Completed 2017) "Cardioprotective effects of high intensity interval training following Doxorubicin"
4. ***Joan Hearns,*** *Nutrition – Mentor: Pamela Swan, CHS* (Completed 2016) "Is it hunger or hormones? Association of plasma ghrelin levels with eating behaviors and weight cycling history in obese and overweight women"
3. ***Alexander Funk,*** *Conservation Biology and Ecology - Mentor: Pierre Deviche, SOLS* (Completed 2015) "Evaluating the influence of urbanization on quail physiology and responses to stress"
   *Co-authored publication: #J47
2. ***Stephanie Helland,*** *Nutrition – Mentor: Carol Johnston, CHS* (Completed 2014) "Effects of novel functional foods on wellness indicators in college students"
1. ***Janine Faraj,*** *Biological Sciences – Mentor: Aparna Sertil, U Arizona, Phx* (Completed 2014) "Differential activation of unfolded protein response in two metastatic osteosarcoma cell lines following hypoxic and chemotherapeutic stress"

B. High School Trainees Since Employment at ASU

Karthik Uppaluri **(Fall 2013)** ***Research Paper, "***Correlation of plasma glucose concentrations and dietary habits across species of animals at the Phoenix Zoo."

APS Career Resources Trading Cards – Karen Sweazea

https://www.lifescitrc.org/resource.cfm?submissionID=11486

SERVICE

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
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)
2013-2018	American Society for Nutrition (ASN)

A. PROFESSIONAL SERVICE

Journal Editorial Roles

2026-pres Invited member of the Editorial Board of *Scientific Reports*, Springer Nature UK
2016-pres Invited member of the Editorial Board of the *American Journal of Physiology – Regulatory, Integrative and Comparative Physiology*

General Professional Service

2025-present Science and Research Advisor, One Medicine Group, Scottsdale, AZ
2025 Peer Reviewer, WM Keck Foundation research proposal
2025 Judge, undergraduate and graduate poster presentations at the All Scientists Meeting for the Central Arizona Phoenix, Long Term Ecological Research project
2023-2024 Special Issue Editorial Team, *Topic: Urbanization and Avian Physiology*, Frontiers in Physiology
2023-present Invited, Review Editor, Frontiers in Nutrition, Nutrition and Metabolism
2023-present Invited, Review Editor, Frontiers in Physiology
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 Frontiers in Ecology and Evolution
2020-present Invited, Academic Editor, Journal of Nutrition and Metabolism
2019 Invited Ad hoc peer reviewer for a grant submitted to FWF Austrian Science Fund
2019-2020 International and Scientific Committee for the 2020 International Symposium on Avian Endocrinology (ISAE), Edinburgh, Scotland. (postponed due to Covid)
2019 Invited Ad hoc peer reviewer for a grant submitted to FWF Austrian Science Fund
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 13th annual Western Alliance to Expand Student Opportunities (WAESO), ASU, Tempe
2017 Invited Ad hoc peer reviewer for 2 grants submitted to The Research Foundation - Flanders (Fonds Wetenschappelijk Onderzoek - Vlaanderen, FWO), Belgium
2013 Judge, 2013 Spirit of Innovation Challenge, Conrad Foundation.
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

2026 Judge, Scholander Abstract Submissions, CEPS Intersociety meeting, Orlando, FL

2025 Judge, Scholander Poster Session, APS Summit, Baltimore, MD

2023-2025 Programming Committee, Comparative and Evolutionary Physiology Section

2019-2025 Elected, Awards Chair, Comparative and Evolutionary Physiology Section

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 NSF Integrative and Organismal Systems Physiology Brainstorming Summit to discuss mentoring and undergraduate training in research and professional development skills

2018 Online instructor, APS 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

2017 Online instructor for the APS 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

2015 Online instructor for the APS 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 APS 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 & Caroline tum Suden/Frances Hellebrandt Professional Opportunity Award applications

2015

- WIPC Facebook/Twitter Subcommittee/Coordinator
- Reviewed Bodil-Schmidt Neilson Distinguished Mentor and Scientist Award &

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 Meeting Mentor for a graduate minority travel fellow (R. Rodriguez-U California, Merced), Experimental Biology Conference

2010-2015 Comparative and Evolutionary Physiology (CEP) Section Treasurer

2010-2012 Elected, Communications Committee

2010 Co-Organizer, Career Workshop, 2010 APS Intersociety Comparative and Evolutionary meeting.

2010 Judge, Student Travel Award, APS Intersociety Meeting

2009, 2014 Judge, Caroline tum Suden/Frances Hellebrandt Professional Opportunity Awards

2006-2009 Trainee Advisory Committee: Comparative and Evolutionary Physiology Section Representative; Judge, Early Career Professional Service Award; Trainee Needs Assessment Survey Subcommittee; Liaison 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

Since promotion to Associate Professor in 2015

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-pres Sigma Xi Committee on Qualifications and Membership

11/12/16 Sigma Xi Diversity Task Force, Annual meeting, Atlanta, Georgia

2014-2024 President, ASU Chapter of Sigma Xi

2013 Special Awards Judge, Intel International Science and Engineering Fair, Phoenix

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

Summary (2015-2026 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; Antioxidants and Redox Signaling; Applied Physiology, Nutrition, and Metabolism; Arab Gulf Journal of Scientific Research; Avian Biology; Biology; BMC Veterinary Research; Comparative Biochemistry and Physiology; Conservation Physiology; Current Biology; Environmental Research; European Journal of Pharmacology; Experimental Biology and Medicine; Food & Function; Food Research International; Frontiers in Cardiovascular Medicine; Frontiers in Immunology; Frontiers in Nutrition; Frontiers in Nutrition and Metabolism; Frontiers in Physiology; Global Ecology and Conservation; IBIS; International Journal of High School Research; International Journal of Molecular Sciences; Italian Journal of Animal Science; International Journal of Sports and Exercise Medicine; Journal of Animal Physiology and Animal Nutrition; Journal of Comparative Physiology; Journal of Developmental Origins of Health and Disease; Journal of Enzymology and Metabolism; Journal of Experimental Biology; Journal of Medicinal Food; Journal of Neurophysiology; Journal of Nutrition; Journal of Nutrition and Metabolism; Journal of Ornithology; Journal of the Science of Food and Agriculture; MDPI – Antioxidants; MDPI – Nutrients; MDPI – Pharmaceutics; Microcirculation; Microvascular Research; Molecular and Cellular Biochemistry; Molecular Biology Reports; Molecules; Nutrition Research; Obesity; Pharmaceutical Biology; Physiological and Biochemical Zoology; Physiological Reports; PLOS ONE; Poultry Science; Preventing Chronic Disease; Public Health Nutrition; The Auk: Ornithological Advances; Urban Ecosystems; Zoology

MentorNet Online Mentoring Program

04/10-11/10 **N. Bobbit**, Portland State University. I also served as his McNair Scholar Mentor, Portland State University, Oregon, Summer 2010.
07/09-03/10 **R. Franklin**, Syracuse University
08/08-05/09 **A. George**, Colorado State University

B. SERVICE TO EXTERNAL COMMUNITY

2026 Junior high science fair mentor, 1st place in Life Sciences at school competition and Phoenix competition, 2nd place at AZ Science and Engineering Fair
2025 Junior high science fair mentor, 1st place at school and 2nd place city competitions
2023 External Tenure and Promotion Reviews for peer institutions
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
2014 Invited to mentor undergraduate summer research fellows, 2016-2019 BUILDing SCHOLARS (**Bu**ilding **I**nfrastructure **L**eading to **D**iversity: **S**outhwest **C**onsortium of **H**ealth-**O**riented education **L**eaders and **R**esearch **S**cholars) NIH-funded program, University of Texas-El Paso.
2013 Faculty leader, STEM in the Middle, ASU Preparatory Academy, Phoenix, AZ. *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, U Arizona, Phoenix
2011 Developed and Led a Physiology Understanding (PhUn) Week Event for 2nd graders, Kyrene de los Niños Elementary School, Tempe, AZ, 11/9
2009 Volunteer, Arizona Science and Engineering Fair
2008 Judge, Central NM Science and Engineering Research Challenge
2007 Intel International Science and Engineering Fair, Albuquerque, NM
Fall 2007 Co-Coordinator, PhUn Week event, Bosque High School, Albuquerque, NM
2005, 2007 Rio Rancho High School Research Expo (grades 9-12), NM
2002 Volunteer, Scanning Electron Microscopy Outreach Program

Media/Outreach

2026 Interviewed by ASU News about my research, "Flying with Diabetes"
3/12/25 Interviewed by ASU News for collaborative study: "New study explores the link between diet, blood sugar and cancer risk across species"
3/6/25 Press release featured research: "College of Health Solutions faculty and students analyze almost 2,000 foods, producing unexpected results"
10/14/24 Interviewed by ASU News about a student in my class who served as Miss Navajo Nation: "College of Health Solutions medical nutrition student aims to give back to her Navajo community"
https://news.asu.edu/20241014-health-and-medicine-asu-college-health-solutions-

	student-give-back-navajo-community
3/28/24	Interviewed for collaborative research by ASU News: "Intermittent fasting shows promise in improving gut health, weight management"
1/10/24	Interviewed for a story on bird physiology for the ASU State Press: "A bird's eye view: How avian studies teach humans about their bodies"
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.
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.
5/31/19	Collaborative research featured in ASU News: "Why women should focus on leafy greens even more after menopause"
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 https://ispyphysiology.com/2015/08/12/look-to-the-sky-for-lessons-in-high-blood-sugar/
11/18/14	Interviewed by ASU News about research: "Treating diabetes one meal at a time"
4/22/14	Featured in ASU News for receiving the 2014 Dale J. Benos Early Career Professional Service Award from the American Physiological Society
9/18/13	Interviewed about mentoring and student success for ASU News: "Professor helps students advance health discoveries"
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
9/25-12/25	Promotion and Tenure Committee, CHS
12/24-2/25	Ad hoc Annual Review committee, CHS
11/25/24	Sun Devil Day, Recruitment event, CHS
08/19/24	CHS Graduate Orientation, CHS
04/19/24	Attended CHS 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
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
2020-2022	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
Spring 2016	Judge, *Downtown Discovers*, Barrett Honors Student Poster Presentations, Downtown Campus, ASU
Fall 2015	College of Health Solutions Student Engagement Team, ASU
2015-2017	Non-tenure Eligible Personnel Committee, CHS

Fall 2013	Met with families and students at the CHS 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 Strategic Identity/planning process meetings/tasks
2024	ENS Program Admission and Course Change Subcommittee
09/08/23	Participated in *Identity Stories*
08/25/23	Participated in *Nutrition Identity Language Stories*
11/18/22	Tempe Barrett Expo retention and recruitment event, Represented CHS
11/16/22	*Up Beet* zoom meeting student retention event
11/09/22	Participated in the ENS Prospective International Student Event
11/02/22	Participated in Tempe Transfer Day tabling event, CHS recruitment
10/27/22	Participated in the ENS Prospective International Student Event
10/25/22	*Up Beet* 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 ▪ 7-year Academic Program Review ▪ Co-Chaired subcommittee to align course outcome measures with Academic Program Assessment and program learning objectives; eliminated progressive exam as it was not aligned; Created rubrics for Dissertation Proposal and Defense to align with program learning objectives and outcomes ▪ Co-chaired a subcommittee to create a Basic Translational Science Research Methods course to meet the needs of incoming students ▪ Eliminated GRE requirement for admissions to increase accessibility ▪ Revised academic program Bylaws and 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
2016	Promotion and Tenure ad hoc committee
Fall 2016	Presented Workshop for faculty, "Working with Honors Students"

2015-2017 Annual Review Committee Member, Tenure Track Faculty
Fall 2015 Chair, Ad hoc Personnel Multi-year Contract Renewal Committee
Fall 2015 Ad hoc Personnel NEW Multi-year Contract Committee
Fall 2015 Probationary Faculty Review Committee
Fall 2015-2016 Coordinator, Undergraduate Seminar Series, Nutrition Program
2014-2017 Conducted Peer Reviews of Teaching
Spring 2015 Nutrition Bylaws Revision Committee
2014 Personnel Advisory Committee, Nutrition Program
2014 Personnel Advisory Committee, Health Sciences Program
2014 PANW Comprehensive Exam Committee
2013 Curriculum Committee, Health Sciences Program
2012 Online Technology Committee to improve Blackboard
2012-2014 Graduate Student (ad hoc) Committee, Nutrition Program
2011 Master's Competency (ad hoc) Committee, Nutrition Program
2009 The Center for Healthy Lifestyles Strategic Planning Unit, ASU Downtown
2008 Member, Healthy Lifestyles Research Center Development Committee
2008 Member, Health Sciences undergraduate degree Program Proposal Committee
2003-2004 Graduate Student Rep. Resources Committee, Physiological Sciences, U Arizona
2002-2003 Graduate Student Rep. Program Committee, Physiological Sciences, U Arizona
2001-2005 Preceptor for first year students, Physiological Sciences Program, U Arizona

PROFESSIONAL DEVELOPMENT

Leadership/Service

2026 Performance Management: Conducting Performance Reviews
2026 Coaching Skills for Leaders and Managers, Unlock your team's potential, LinkedIn Learning
2026 The Manager's Guide to Difficult Conversations, LinkedIn Learning
2026 ASU Check-In For Managers Training
2026 ASU Your Duty to Report
2026 Preventing Discrimination and Harassment Training, ASU
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
2025 Equity Circle, CAP LTER 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 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 Sigma Xi International Forum on Research Excellence Conference: *Linking Science Communication Research to Practice Through Diversity and Inclusion', 'The Story Collider: Science Communication Through Personal Storytelling', 'Research Impact: How to make a difference through science policy and communication', 'The Time is Now: A Critical Need for Diversifying the STEM Professoriate seminar', 'Addressing Racism in the Academy', ' Innovative & Culturally Responsive Models for Student Preparedness & Success' , 'Equity & Inclusivity in STEM Environment: What Does it Mean & How Do We Achieve', '8 Steps to Promoting Resilience & Well-being for a Sustainable World'*
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 AZ Chapter Designated Delegate, Sigma Xi Annual Meeting & Conference
2021 Microaggressions and Implicit Bias training, ASU
2021 Theatre of the Oppressed
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 (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: *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 UNM Faculty Mentoring Development Program: *Leadership Skills and Opportunities: How to Build a Research Team Module; Helping Mentees Obtain and Manage Grant Funding Module*
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 review training, 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 ASU: Manage Your Stress and Be Your Best Workshop

Research

2026 Annual Fire Safety Refresher, ASU
2026 Information Security Training, ASU
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 Social and Behavioral Research Best Practices, 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, CAP LTER 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
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, U. 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 VA CITI training: *Cultural Competence in Research; Native Americans in Research; VA ORD Biosecurity 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, Tempe, AZ
2022 24th Annual All Scientists Meeting and Poster Symposium, CAP LTER, 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 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 ASU Teaching and Learning with Generative AI online class: *Module 6: Integrating Generative AI with Teaching and Learning; Module 5: Evaluating Outputs from Generative AI; Module 4: Designing prompts for Generative AI; Module 3: Ethics and the Responsible Use of Generative AI; Module 2: Awareness of Generative AI Applications; Module 1: Fundamentals of Generative AI; Introductory materials/resources*
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 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
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 University of New Mexico Faculty Mentoring Development Program: *Benefits of Informal Mentoring; Understanding Diversity Among Mentees; Achieving Work-Life Balance; Communicating Effectively with Mentees; Rewards and Challenges of Mentoring; Defining Mentoring from the Beginning & Rewards and Challenges of Mentoring*
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 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: Understanding Teaching in the Online Environment, 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
2004 Completed the U Arizona Women in Science and Engineering High School Mentoring Program