

CURRICULUM VITAE - Adnan A. Alrubaye

Address:

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Professional Preparation

BVMS- June 2000; University of Baghdad
M.Sc.- February 2003; University of Baghdad
M.Ed.- May 2013; University of Arkansas
Ph.D.- May 2013; University of Arkansas
Professoriate Graduate Certificate- August 2011; University of Arkansas

Honors, Awards:

2019 Teaching Academy Fellow-University of Arkansas 2019
2019 John and Lois Imhoff Award for Outstanding Teaching and Student Mentorship
2019 Fulbright College Master Teacher Award
2019 The Collis Geren Award for excellence in graduate and international education
2019 2019 UA Most Outstanding Faculty Member
2018 The Provost's "Not-So-New" Faculty Commendation for Teaching Commitment
2018 Nominated for the Fulbright Master Teacher award
2017 Nominated for the Fulbright Master Teacher award
2016 The Dr. John Imhoff Outstanding Research Publication Award
2016 Most Outstanding Faculty Member Nomination
2015 The Provost's New Faculty Commendation for Teaching Commitment
2014 The University of Arkansas' Individual Diversity Award
2013 Aubrey E. Harvey Outstanding Graduate Research Award
2013-present Vice President and Secretary, University of Arkansas Chapter, Sigma Xi
2011 Delbert Swartz Fellowship for Outstanding Graduate Student
2011 Biology Graduate Students Association President
2008-2013 Iraqi Graduate Students Association President, USA.

Professional Appointments:

2019- Research Assistant Professor of Poultry Science and Biological Sciences, University of Arkansas
2016- 2019 Clinical Assistant Professor, Dept. of Biological Sciences, University of Arkansas
2013-2016 Instructor, Dept. of Biological Sciences, University of Arkansas
2013-Present Associate Director of Graduate Program in Cell and Molecular Biology, University of Arkansas

2013-2016 Post-Doctoral Researcher with Dr. Douglas Rhoads and Dr. Bob Wideman
2008-2013 Doctoral student with Dr. Douglas Rhoads
2008-2013 Teaching Assistant, Dept. of Biological Sciences, University of Arkansas

Grants (21):

Awarded

1. Alrubaye, A. A. (Co-Investigator), Rhoads, D. (Primary Investigator), "Exp 27. Whole Genome Resequencing to Identify Genetic Determinants of Resistance to Bacterial Chondronecrosis with Osteomyelitis Leading to Lameness," Sponsored by Cobb-Vantress, Inc, Awarding Organization, Industry, \$55,846.00. (January 2019 - November 2019).
2. Alrubaye, A. A. K. (Co-Investigator), "Establishing Two Language Centers at Al-Muthana University and Al-Qadisiya University in Iraq," Sponsored by IREX, Awarding Organization, Federal, \$106,000.00. (April 2019 - December 2019).
3. The University of Arkansas Teaching and Faculty Support Center Grant, \$2050, spring 2019.
4. The University of Arkansas Provost's Instructional Enhancement Grant, spring 2019, \$1478.00.
5. Evaluation of Zinpro micronutrients for protection against BCO lameness and improving bone health for broilers raised on litter flooring with bacterial challenge. Zinpro; 2/2018-12/2018; \$47,797; CoPI.
6. Evaluation of Hansen probiotics for protection against BCO lameness on wire flooring with environmental origin of infection. Chr Hansen; 3/2018-12/2018; \$38,843; CoPI.
7. Whole Genome Resequencing to Identify Genetic Determinants of Resistance to Bacterial Chondronecrosis with Osteomyelitis Leading to Lameness. Cobb- Vantress, Inc; 9/2018-8/2019; \$55,846; CoPI.
8. Evaluation of Zinpro micronutrients for protection against BCO lameness and improving bone health for broilers raised on litter flooring with bacterial challenge. Zinpro; 2/2018-9/2018; \$36,179; CoPI.
9. Evaluation of Hansen probiotics for protection against BCO lameness on litter with exposure to Staphylococcus agnetis. Chr Hansen; 2/2017-12/2017; 23,363; CoPI
10. Evaluation of Zinpro micronutrients for protection against BCO lameness and improving bone health for broilers raised on wire flooring. Zinpro; 9/1/2017-12/31/2017; \$39,461; CoPI.
11. Susceptibility to Bacteremia and Lameness in Broilers Cobb Vantress; \$100,014.90 Co-PI.
12. BCO incidence protection with Anpario supplement: incidence of lameness with and without Staphylococcus challenge, microbiome, and TER. Anpario; \$35,121; Co-PI.
13. Hatchery Heat Stress and BCO Lameness in Broilers. Cobb Vantress; \$4,661.61; Co-PI
14. Susceptibility to BCO-Lameness in Poulvac-Vaccinated vs. Unvaccinated Broilers. Zoetis; \$23,597.26; Co-PI.
15. The University of Arkansas Provost's Instructional Enhancement Grant, Spring 2016, \$1443.
16. The University of Arkansas Provost's Instructional Enhancement Grant, fall 2016, \$1200.
17. BCO incidence protection with Anpario supplement: incidence of lameness with and without Staphylococcus challenge, microbiome, and TER. Anpario Corporation; \$35,121; CoPI.

18. Susceptibility to Bacteraemia and Lameness in Broilers. Cobb Vantress; 9/13-8/15; \$16,300 CoPI.
19. The University of Arkansas Provost's Instructional Enhancement Grant, Spring 2014, \$1500+ \$500 match from the Dean of the Graduate School and International Education, Dean Kim Needy.

Courses taught (5):

General microbiology, Principles of Biology, Prokaryote Biology, Human Physiology, Invertebrate Biology.

Memberships (6):

1. American Association for the Advancement of Science AAAS (2019- present).
2. Poultry Science Association (2010-present).
3. Sigma XI Honors Research Society (2009-present).
4. American Society of Microbiology (2010-present).
5. American Society of Biochemistry and Molecular Biology (2010-present).
6. Biology Graduate Students Association Fall 2008-Spring 2013.

Publications (9):

1. Greene, E., Flees, J., Dhamad, A., Alrubaye, A., Hennigan, S., Pleimann, J., Smeltzer, M., Murray, S., Kugel, J., Goodrich, J. and Robertson (2019). Double-Stranded RNA Is a Novel Molecular Target in Osteomyelitis Pathogenesis: A Translational Avian Model for Human Bacterial Chondronecrosis with Osteomyelitis. *The American journal of pathology*, 189(10), 2077-2089.
2. Al-Rubaye A.A.K., N.S. Ekesi, S. Zaki, N.K. Emami, R.F. Wideman Jr, D.D. Rhoads. (2017). Chondronecrosis with Osteomyelitis in Broilers: Further Defining a Bacterial Challenge Model Using the Wire Flooring Model. *Poultry Science* 96:332–340. doi: 10.3382/ps/pew299
3. Al-Rubaye, A. A. K., M. B. Couger, S. Ojha, J. F. Pummill, J. A. Koon, II, R. F. Wideman, Jr. and D. D. Rhoads (2015). Genome Analysis of *Staphylococcus agnetis*, an Agent of Lameness in Broiler Chickens. *PLoS ONE* 10(11): e0143336.
4. Al-Rubaye, A. A. K.; Nnamdi S. Ekesi; Sura Zaki; Nima K. Emami; Robert F. Wideman Jr; Douglas D. Rhoads Chondronecrosis with osteomyelitis in broilers: Further defining a bacterial challenge model using the wire flooring model. *Poultry Science* 2016; doi: 10.3382/ps/pew299.
5. Wideman, R. F., Al-Rubaye, A., Kwon, Y. M., Blankenship, J., Lester, H., Mitchell, K. N. & Schleifer, J. (2015). Prophylactic administration of a combined prebiotic and probiotic, or therapeutic administration of enrofloxacin, to reduce the incidence of bacterial chondronecrosis with osteomyelitis in broilers. *Poultry science*, 94(1), 25-36.
6. Wideman Jr., R. F., Al-Rubaye, A., D. Reynolds, D. Y., Lester, H., Spencer, C., Hughes, J. M., & Pevzner, a. I. Y. (2014). Bacterial chondronecrosis with osteomyelitis in broilers: Influence of sires and straight-run versus sex-separate rearing. *Poultry science*, 93(7), 1675-1687.
7. Wideman Jr, R.F., Al-Rubaye, A., Gilley, A., Reynolds, D., Lester, H., Yoho, D., Hughes, J.M. &

- Pevzner, I. (2013). Susceptibility of 4 commercial broiler crosses to lameness attributable to bacterial chondronecrosis with osteomyelitis. *Poultry Science*, 92(9), pp.2311-2325.
8. Krishnamoorthy, S., Smith, C. D., Al-Rubaye, A. A., Erf, G. F., Wideman, R. F., Anthony, N. B., & Rhoads, D. D. (2014). A quantitative trait locus for ascites on chromosome 9 in broiler chicken lines. *Poultry Science*, 93(2), 307-317 .
 9. Mandal¹, R. K. Jiang¹, T. Alrubaye, A. A., Rhoads, D. D., Wideman Jr., R. F., Zhao, J., Pevzner, I., and Kwon¹, Y. M. (2016). Bacteremia and Lameness: An investigation into blood microbiota associated with Bacterial Chondronecrosis with Osteomyelitis (BCO) in Broilers. *Scientific Reports* (2016).
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Reports (8):

1. D. Rhoads, AA Alrubaye (2019) Experiment 27. Whole Genome Resequencing to Identify Genetic Determinants of Resistance to Bacterial Chondronecrosis with Osteomyelitis Leading to Lameness. Cobb Vantress. December 2019.
 2. AA Alrubaye, S. Dridi, and DD Rhoads (2018) Experiment 25: Evaluation of Zinpro micronutrients for protection against BCO lameness and improving bone health for broilers raised on wire flooring. Zinpro Corp. March 2018.
 3. AA Alrubaye, D Koltes, and DD Rhoads (2017) Experiment 24: Evaluation of Hansen probiotics for protection against BCO lameness on litter with exposure to *Staphylococcus agnetis*. Chr Hansen December 2017.
 4. AA Al-Rubaye, D Koltes, YM Kwon, and DD Rhoads (2016) BCO incidence protection with Anpario supplement: incidence of lameness with and without *Staphylococcus* challenge, microbiome, and TER. Anpario, plc. August 2016.
 5. AA Al-Rubaye, DD Rhoads, and RF Wideman Jr. (2015) Experiment #18: Staph Administration and Probiotics. Cobb-Vantress, Inc. July 7, 2015.
 6. RK Mandal, T Jiang, RF. Wideman Jr., AA Al-Rubaye, DD Rhoads, and YM Kwon (2015). Experiment #17 Bacteremia and Lameness: An investigation into blood microbiota associated with Bacterial Chondronecrosis with Osteomyelitis (BCO) in Broilers. Cobb-Vantress, Inc. July 20, 2015.
 7. AA Al-Rubaye, DD Rhoads, and RF Wideman (2015) Experiment #17: Litter to Wire. Cobb-Vantress, Inc. July 7, 2015.
 8. AA Al-Rubaye, DD Rhoads, and RF Wideman (2015) Experiment #16: Dexamethasone Injections. Cobb-Vantress, Inc. July 21, 2015.
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Books (1):

1. McComas, W. F. (2014). *The Language of Science education*. Rotterdam, Boston, Taipei: SensePublishers. (Contributing author- Science Education Terminologies definitions).
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Research Abstracts and presentations (36):

1. Alrubaye, A.A. (invited speaker). Recent Findings on BCO Lameness, Zinpro International Conference, Chicago, August 2019.
2. Alrubaye, A.A. (invited speaker). Reduction of the presentation of lameness in broilers, Mexico, August 2019.

3. Alrubaye, A. A. K., Rhoads, D., Plant and Animal Genome Conference, "Improving Bone Health and Protection against Bacterial Chondronecrosis with Osteomyelitis using Micronutrients and Genetic Selection," Scherago International, Town and Country Hotel, San Diego, CA, United States. (January 2019).
4. Rhoads, D. D., Hasan, A. (presenter), Alrubaye, A., Plant and Animal Genome, "Role of Gut Integrity and Cellular Tight Junctions in Lameness of Broiler Chickens," San Diego, CA, United States. (January 2019).
5. Alrubaye A.A., Ekesi, N., Hassan, A, Elkins, E., D. Rhoads. Improving Bone Health and Protection against Bacterial Chondronecrosis with Osteomyelitis using Micronutrients and Genetic Selection. Plant and Animal Genome Conference, 2019.
6. Greene ES, J Cook, R Liyanage, A Alrubaye, S Hennigan, J Pleimann, D Rhoads, R Wideman, S Dridi. Proteomics Analysis of Bacterial Chondronecrosis with Osteomyelitis (BCO) Lesions in Broiler Tibia. Poultry Science Association, San Antonio, TX, July 2018.
7. Greene ES, A Alrubaye, S Hennigan, J Pleimann, D Rhoads, R Wideman, S Dridi. DICER1 dysregulation and dsRNA accumulation in BCO chickens. Poultry Science Association, San Antonio, TX, July 2018.
8. Shwani A, N Ekesi, S Zaki, A Al-Rubaye, P Adkins, M Calcutt, J Middleton, and D Rhoads. Phylogenomic comparison of Staphylococcus agnetis isolates from dairy cattle mammary glands and bacterial chondronecrosis with osteomyelitis in broilers. Plant and Animal Genome XXV, San Diego, CA, January 2018.
9. Douglas Rhoads, Sura Zaki, Abdulkarim Shwani, Nnamdi Ekesi, Amer Hasan, and Adnan Alrubaye. Directed Genome Evolution to Investigate Macrophage Survival and Killing by a Staphylococcus Isolate that Induces Chondronecrosis with Osteomyelitis in Chickens.
10. A Alrubaye, D Koltes, and DD Rhoads (2017) Experiment 24: Evaluation of Hansen probiotics for protection against BCO lameness on litter with exposure to Staphylococcus agnetis. Chr Hansen December 2017.
11. Al-Rubaye A.A., S. Zalo, N. Ekesi, A. Shwani, R. F. Wideman, D. Rhoads Staphylococcus agnetis involvement in Bacterial Chondronecrosis with Osteomyelitis in Broilers. Arkansas Biosciences Institute conference, Little Rock, AR, Sep 2016.
12. Al-Rubaye A.A., S. Zalo, N. Ekesi, A. Shwani, R. F. Wideman, Y. M. Kwon, D. D. Rhoads Genetic and genomic analyses of Staphylococcus agnetis an agent of Bacterial Chondronecrosis with Osteomyelitis in Broilers. Arkansas Bioinformatics Consortium conference, Little Rock, AR, April 2016.
13. Al-Rubaye A.A. (invited speaker). 2015 US Live Production and Welfare seminar speaker Bacterial Chondronecrosis and Osteomyelitis (BCO) / Leg Problems. Nashville, Tennessee, Sep 2015.
14. A. K. Al-Rubaye, D. D. Rhoads, and R. F. Wideman, University of Arkansas. Genetic and Genome Analyses of Bacteria Cultured from Lam Broilers with Osteomyelitis. Plant and Animal Genome Conference XXIII, San Diego, CA, Jan 2015.
15. A. K. Al-Rubaye, D. D. Rhoads, and R. F. Wideman. Genetic and genome analyses of bacteria cultured from lame broilers with osteomyelitis. Poultry Science Association

- Conference, Louisville, KY, July 2015.
16. Academic awakening faculty panel tomorrow for REAL world_ Center for Multicultural and Diversity Education Aug 22, 2015. Panel Discussion.
 17. A. K. Al-Rubaye, D. D. Rhoads, and R. F. Wideman, University of Arkansas. Genetic and genome analyses of bacteria cultured from lame broilers with osteomyelitis. Gut Health Symposium, St Louis, Mo, Nov 2014.
 18. A A. Al-Rubaye, K. Estill, R.F. Wideman, D.D. Rhoads. 16S rRNA Based Diagnosis and Whole Genome Sequencing of Bacteria Cultured from Lame Broilers with Osteomyelitis. South Central Branch of American Society of Microbiology conference, Fayetteville, AR, September 2014.
 19. A A. Al-Rubaye, K. Estill, R.F. Wideman, D.D. Rhoads. 16S rRNA Based Diagnosis and Whole Genome Sequencing of Bacteria Cultured from Lame Broilers with Osteomyelitis. Poultry Science Association Conference, Corpus Christi, TX, July 2014.
 20. A A. Al-Rubaye. 16S based diagnosis of bacteria involved in BCO in Chickens. Cell and Molecular Biology Seminar Series, University of Arkansas, Fayetteville, Feb 2014.
 21. A A. Al-Rubaye. 16S based diagnosis of bacteria involved in BCO in chickens. Sigma XI Society Seminar, University of Arkansas, Fayetteville, Feb 2014.
 22. A A. Al-Rubaye, S Ojha, R.F. Wideman, D.D. Rhoads. Molecular Identification of Bacteria Involved in Lameness in Broiler. Plant and Animal Genome Conference XXII, San Diego, CA, Jan 2014.
 23. A A. Al-Rubaye, S Ojha, R.F. Wideman, D.D. Rhoads. Molecular Identification of Bacteria Involved in Lameness in Broiler. Poultry Science Association Conference, San Diego, CA, July 2013.
 24. A A. Al-Rubaye, S Ojha, R.F. Wideman, D.D. Rhoads. Molecular Identification of Bacteria Involved in Lameness in Broiler. Plant and Animal Genome Conference, San Diego, CA, Jan 2013.
 25. A A. Al-Rubaye, S Ojha, R.F. Wideman, D.D. Rhoads. Molecular Identification of Bacteria Involved in Lameness in Broiler. From Abstract to Contract Graduate school posters competition, FEB 2013.
 26. A A. Al-Rubaye, S Ojha, R.F. Wideman, D.D. Rhoads. Molecular Identification of Bacteria Involved in Lameness in Broiler. Plant and Animal Genome Conference, San Diego, CA, Jan 2013.
 27. A.A. Al-Rubaye, NB Anthony, GF Erf, RF Wideman, DD Rhoads. Investigation of Three Candidate Genes Related to Pulmonary Hypertension Syndrome in the Chicken using Quantitative PCR. Plant and Animal GENOME (PAG XX), San Diego, CA, Jan 2012.
 28. A.A. Al-Rubaye, NB Anthony, GF Erf, RF Wideman, DD Rhoads. Investigation of Three Candidate Genes Related to Pulmonary Hypertension Syndrome in the Chicken using Quantitative PCR. Poultry Science Association Conference, St. Louis, MO, July 2011.
 29. A.A. Al-Rubaye, NB Anthony, GF Erf, RF Wideman, DD Rhoads. Investigation of Three Candidate Genes Related to Pulmonary Hypertension Syndrome in the Chicken using Quantitative PCR. University of Arkansas Graduate School Posters Competition, Fayetteville, AR, Feb 2011.
 30. A.A. Al-Rubaye, NB Anthony, GF Erf, RF Wideman, DD Rhoads. Investigation of Three Candidate Genes Related to Pulmonary Hypertension Syndrome in the Chicken using

- Quantitative PCR. Plant and Animal GENOME, San Diego, CA, Jan 2011.
31. A.A. Al-Rubaye, NB Anthony, GF Erf, RF Wideman, DD Rhoads. Investigation of Three Candidate Genes Related to Pulmonary Hypertension Syndrome in the Chicken using Quantitative PCR. Poultry Science Association, Denver, CO, July 2010.
 32. A.A. Al-Rubaye, NB Anthony, RF Wideman, and DD Rhoads. Using Quantitative PCR to Investigate Three Candidate Genes Related to Pulmonary Hypertension in the Chicken. Plant and Animal Genome, San Diego, CA, Jan 2010.
 33. A.A. Al-Rubaye, S Krishnamoorthy, N Anthony, GF Erf, RF Wideman, DD Rhoads. Genetic Analysis of Pulmonary Hypertension and Ascites in the Chicken. USDA NC1170 workshop, San Diego, CA, Jan 2010.
 34. Candace .D. Smith, A.A. Al-Rubaye, N.B. Anthony, G.F. Erf2, R.F. Wideman, Douglas .D. Rhoads. Using Quantitative PCR To Investigate Three Candidate Genes Related To Pulmonary Hypertension In The CHICKEN. Plant and Animal Genome Conference San Diego, CA Jan 2009.
 35. Sriram Krishnamoorthy, A.A. Al-Rubaye, Nyoman Fitri, Candace Smith³, J.Russell Burks, Anna Leu, N.Brooke Peeples, Allison Chinn, Patrick Greenburg, Gisela F. Erf, Robert F. Wideman. Pulmonary arteriole hypertension in the chicken: Genetic and histopathological similarities to human. ABI conference. Little Rock, AR Sep. 29 2010.
 36. A.A. Al-Rubaye Investigation of Four Candidate Genes Related to Pulmonary Hypertension Syndrome in the Chicken using Quantitative PCR. Poultry Genomics workshop, Plant and Animal Genome (PAG XX), San Diego, CA, Jan 2012.

Teaching conferences, presentations, and invited Speaker (10):

1. Alrubaye, A. A. K. (Presenter), K. Z., The UA 2019 Teaching Camp, "Teaching with Technology/Effective Use of Blackboard," The Teaching and Faculty Support Center, Eureka Springs, United States. (August 2019).
2. Alrubaye, A. A. K., TIPS for Teaching with Technology presentation, "Academic Tools & Workflows on the iPad," The UA Teaching Innovation and Pedagogical Support (TIPS) team, Teaching and Faculty Support Center, Fayetteville. (April 2019).
3. Invited by the UA Director of Academic Tech and Innovation to deliver two workshops for all UA faculty: TIPS for Teaching with Technology Workshop, 2018.
4. Invited by the Arkansas Tech University (ATU): Bacterial Chondronecrosis and Osteomyelitis in Broilers: Etiology, Induction, Diagnosis and Mitigation, 2017.
5. Invited by the Wally Cordes Teaching and Faculty Support Center, University of Arkansas. Using Conventional Communication Technologies to Promote Students' Learning Experiences, 2016.
6. Invited by the Wally Cordes Teaching and Faculty Support Center, University of Arkansas. Building Your Interactive Syllabus: Branding Your Course and Increasing Students' Engagement, 2016.
7. Invited by the Wally Cordes Teaching and Faculty Support Center, University of Arkansas. Using Conventional Communication Technologies to Promote Students' Learning Experiences, 2016.
8. Attended the "Teaching Professor Technology Conference", New Orleans, LA, 2015.
9. Lecture series to two Iraqi universities, University of Karbala & University of Wasit.

10. All Faculty Luncheon, March 10, 2015- Challenges of teaching large courses and suggestions for improving student engagement, by Theron G. Roberts and Adnan A. Alrubaye.

Current Research Efforts:

Bacterial Chondronecrosis with Osteomyelitis leading to Lameness: Our research group is investigating the causes, epidemiology, transmission, and prevention of bacterial infections BCO lameness in chickens. We use a wire flooring system developed by Dr. Robert Wideman and the bacterial challenge with *Staphylococcus agnetis* to induce lameness. We have worked with several industry partners to try to identify feed additives that can help reduce the incidence of BCO lameness in broilers.

Poultry Research Experience:

Molecular microbiology, molecular genetics and genomics in eukaryotes- modes of gene regulation, structure and evolution; growth regulation and developmental gene expression programs in animals.

Using 16S ribosomal RNA to identify bacterial species that cause Bacterial Chondronecrosis and Osteomyelitis in broiler.

Genetics of ascites susceptibility in the chicken.

Broiler osteomyelitis diagnosis and prevention.

Broiler gut health

Broiler bone physiology and diseases

Broiler handling

Broiler disease safety

Personnel safety

Broiler feeding

Broiler management

Broiler necropsying

Broiler vaccination

Broiler blood and tissue sample collection

Broiler disease diagnosis

Technical and Specialized laboratory skills:

Basic laboratory skills: Autoclave, buffer and media preparation, use of common laboratory equipment: fluorimeter, spectrophotometer, centrifuge, etc.

General Microbiology lab: Media preparation, Bacterial culture diagnosis, various bacterial diagnostic tests.

Specialized Techniques: PCR, gel electrophoresis (agarose, acrylamide).

DNA extraction from blood, RNA extraction, cDNA isolation, qPCR.

Computer Skills: experienced with gene browsers NCBI & UCSC, and Primer3.

National service:

1. Member of NC1170 Genetic improvement of Poultry (2017-present).

2. Member of NRSP8 Poultry Genome (2020-present).
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University service:

1. Elected to serve as a member of the Cell and Molecular Biology Program Advisory Committee, fall 2017-2019.
 2. Biological Sciences Departmental committees: Graduate Studies Committee.
 3. Elected Sigma XI Vice President, The International Honor Society of Scientific and Engineering Research- U of A Sigma XI Chapter, Fall 2015.
 4. Training underrepresented students as part of the iBridge program in collaboration with the Center for Multicultural and Diversity Education (Aug 2014, Aug 2015)
 5. Biology Graduate Students Association President, Aug 2010-May 2011.
 6. Iraqi Scholarship Graduate Students Association President, August 2009-2011.
 7. Cohort leader- New graduate students orientation- August 2010-2019.
 8. New Teaching Assistants orientation organized by the U of A graduate school- Fall 2012, 2019.
 9. All University Commencement Marshal, 2013-2019.
 10. Adopt-A-Professor Program: Faculty advisor to two resident halls at the University of Arkansas.
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Scientific Judging (8):

1. 3 Minutes Graduate Research competition-Graduate School & International Education 2016, 2017, 2018.
 2. From Abstract to Contract- Graduate School Posters Competition Fall 2014
 3. South Central Branch of American Society of Microbiology conference, Fayetteville, AR, September 2014.
 4. Poultry Science Association Conference (July 13-17, Corpus Christi, TX). Judging ten oral presentations.
 5. North West Arkansas Regional Science and Engineering Fair, Spring 2009-2019.
 6. INBRE Conference judging 2010-2018.
 7. Kingston Science fair, Kingston, AR, FEB 2011.
 8. Fayetteville High School Science Fair, 2009-2013.
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International and graduate recruiting experience:

1. International Recruiting trips to Iraq, Saudi Arabia, Kuwait, UAE, Oman, & Jordan.
2. Visiting Iraqi Universities-Iraq, December 2013- December 2014 to recruit Graduate students from the following institutions:
University of Karbala, University of Babylon, University of Kufa, University of Maisan, University of Wasit, University of Qadisiya
3. Attended the EducationUSA conference in Irbil, Iraq, April 2014, to recruit students from the following institutions:
University of Salahaddin-Erbil, University of Sulamani, University of Koya, American University of Sulaimani, University of Duhok,

4. Iraq Dec 2014: Received an invitation from the University of Karbala to give scientific and teaching methodologies lectures and to help activate the MOU signed with the University of Karbala. During this trip, I visited and recruited graduate students from the following institutions:
 5. University of Karbala, University of Basrah, University of Wasit.
 6. Visiting the following agencies to promote partnerships and recruit graduate students:
 7. AMIDEAST-HQ, Saudi Arabian cultural mission (SACM), Embassy of the United Arab Emirates (UAE), Embassy of the Republic of Indonesia, Embassy of Malaysia, Embassy of the State of Kuwait, Embassy of Oman, Embassy of the Arab Republic of Egypt, and Embassy of the Republic of Iraq, July 2019.
 8. Visiting the following universities in Oman, Kuwait, Jordan September 2019
 - The Sultan Qaboos University, the Omani Research Council, and the University of Nizwa in Oman.
 - The Kuwait University in Kuwait
 - The Yarmouk University and the Jordanian University for Science and Technology in Jordan.
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Professional teaching development (30):

1. Faculty Mentor for New Graduate Student Orientation, Aug 2017
2. The Northwest West Arkansas Science Fair- Poster's Display and Safety.
3. Teaching Camp 2017, August 6, 7, 8. Theme: ENGAGING STUDENTS TO INCREASE LEARNING, by JAY HOWARD.
4. Baum Teaching Workshop, Teaching and Faculty Support Center, Aug 2017
5. McGraw-Hill Education: Improved Engagement Readiness Professional Development Webinar
6. TFSC event: Experiential Learning: Integrating Service and Research Opportunities into a Course Experience Speaker: Jennie Popp, Associate Dean, Honors College
7. Invited by Pearson to attend the Pearson Teaching with Technology conference, Miami, FL. Fully expense covered teaching summit. The main focus was on using the Mastering Biology.
8. TFSC Lunch discussion: Student Success: Conversational Learning, Mentoring, and Retention Technology.
9. McGraw-Hill Education: Improved Engagement Readiness Professional Development Webinar
10. Baum Teaching Workshop, Teaching and Faculty Support Center, Aug 2017
11. The University of Arkansas Annual Teaching Camp- Aug 07-09, 2016, Theme: Making Changes in Teaching and Student Learning.
12. April 2016 Not-So-New Faculty Lunch Discussion Sponsored by the Wally Cordes Teaching and Faculty Support Center
13. "The Academic Integrity Culture at UA; Honesty Up or Honesty Down? A look at our students' Academic Integrity understanding and attitudes", April 2016.
14. Baum Teaching Workshop: Sponsored by the University of Arkansas Teaching Academy and the Office of the Provost, Aug 18.

15. TFSC lunch discussion: Accommodating Students with Disabilities in the Classroom, Speaker: Katy Washington, Director Center for Educational Access, Nov 2016.
 16. All Faculty Lunch Discussion, Sponsored by the Wally Cordes Teaching and Faculty Support Center, Title: Why You're A-game Matters for Student Learning, Speaker: Dr. Tricia Seifert.
 17. Faculty Enrichment Series, title: Solving the Puzzle Together: Teaching Students on the Autism Spectrum. Speakers: Dr. Aleza Greene.
 18. Faculty Enrichment Series: Solving the Puzzle Together: Teaching Students on the Autism Spectrum. Speakers: Dr. Aleza Greene, Director of the Autism Support Program and Dr. Katy Washington: Director of the Center for Educational Access
 19. University of Arkansas Teaching Camp, 2015, 2016, 2017, 2019.
 20. University of Arkansas, the Academic Integrity Culture at UA; Honesty Up or Honesty Down? A look at our students' Academic Integrity understanding and attitudes, April 2016.
 21. University of Arkansas, Winter Teaching Symposium, January 8, 2015. Best Practices for Student Engagement, by Kate Mamiseishvili and Michael Hevel.
 22. University of Arkansas , New Faculty Luncheon, February 3, 2015 Who we are and who we want to be, by Mark Boyer.
 23. University of Arkansas, All Faculty Luncheon, March 10, 2015.
 24. University of Arkansas All Faculty Workshop, March 12, 2015 Bb Tools at the U of A: Aligning students wants, faculty use, and tool purpose, by Cheryl Murphy.
 25. University of Arkansas New Faculty Luncheon, February 3, 2015- Who we are and who we want to be, by Mark Boyer.
 26. University of Arkansas New Faculty Luncheon, How Faculty Communicate What they Value to Students March 3, 2015, by Paul Calleja.
 27. University of Arkansas All Faculty Workshop, Bb Tools at the U of A: Aligning students wants, faculty use, and tool purpose March 12, 2015, by Cheryl Murphy.
 28. University of Arkansas Baum Teaching Workshop, Thursday, August 21, 2014 It Takes a Workshop: How Workshops Influenced My Teaching, by Manuel Rossetti.
 29. University of Arkansas New Faculty Luncheon, September 3, 2014. Poster Presentations from Summer Teaching Camp 2014: Engaging Students Online and Engaging Students through Assessment.
 30. University of Arkansas New Faculty Luncheon, November 5, 2014 Constructivist Teaching Methods, by John Pijanowski.
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Media Appearances and Interviews (5):

1. <https://news.uark.edu/articles/48083/alrubaye-dawson-franklin-receive-collis-r-geren-awards>
2. https://news.uark.edu/articles/48372/fulbright-college-announces-2019-annual-faculty-teaching-and-research-awards?utm_source=Newswire&utm_medium=email2019-06-13&utm_campaign=fulbright-college-announces-2019-annual-faculty-teaching-and-research-awards

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