

## **Belal Suleiman Obeidat, PhD**

Professor of Animal Nutrition

Department of Animal Production

Jordan University of Science and Technology

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### **EDUCATION:**

- Doctor of Philosophy in Animal Science – January 2005  
Research emphasis in Ruminant Nutrition (Dissertation Title: Effects of locoweed (*Oxytropis sericea*) consumption and swainsonine exposure on nutrient metabolism of sheep). Department of Animal and Range Sciences, New Mexico State University, Las Cruces, New Mexico 88001, USA.
- Master of Science in Animal Science – August 2001  
Research emphasis in Ruminant Nutrition (Thesis Title: Performance and metabolic characteristics of multiparous Angus and Brahman cows grazing in the Chihuahuan desert). Department of Animal and Range Sciences, New Mexico State University, Las Cruces, New Mexico 88001, USA.
- Bachelor of Agriculture in Animal Production – June 1994  
Department of Animal Production, Faculty of Agriculture, Jordan University of Science and Technology (JUST), P.O Box 3030, Irbid 22110, Jordan.

### **PRESENT POSITION:**

- Vice-Dean of Faculty of Agriculture, JUST, P.O Box 3030, Irbid 22110, Jordan – September 2017 to September 2021.
- Director of Agricultural Research and Training Station at Jordan University of Science and Technology, April 2019 September 2021.
- Department Head, Department of Animal Production, Faculty of Agriculture, JUST, P.O Box 3030, Irbid 22110, Jordan – September 2016 to September 2017.
- Professor of Ruminant Nutrition and Livestock Production, Department of Animal Production, Faculty of Agriculture, JUST, P.O Box 3030, Irbid 22110, Jordan – January 2016.

- Associate Professor of Ruminant Nutrition and Livestock Production, Department of Animal Production, Faculty of Agriculture, JUST, P.O Box 3030, Irbid 22110, Jordan – January 2010 to January 2016.

### **PREVIOUS POSITIONS:**

- Visiting Associate Professor, Department of Animal and Food Sciences, College of Agricultural Sciences & Natural Resources, Texas Tech University, Box 42141, Lubbock, Texas 79409, USA – September 2011 to August 2013.
- Department Head, Department of Animal Production, Faculty of Agriculture, JUST, P.O Box 3030, Irbid 22110, Jordan – September 2009 to September 2011.
- Assistant Professor of Ruminant Nutrition and Livestock Production, Department of Animal Production, Faculty of Agriculture, JUST, P.O Box 3030, Irbid 22110, Jordan – January 2005 to January 2010.
- Graduate Teaching and Research Assistant in the Department of Animal and Range Sciences, New Mexico State University, Las Cruces, New Mexico 88001, USA – January 2000 – December 2004.
- Lab Technician in the Department of Animal Production, Faculty of Agriculture, JUST, P.O. Box 3030, Irbid 22110, Jordan - September 1995 – August 1999.

### **ORGANIZATIONS:**

- Agricultural Engineering Association, Amman, Jordan (June 1994 to present).
- American Society of Animal Science (September 1999 – December 2004).
- Gamma Sigma Delta.
- Member in Sam Steel Society – New Mexico State University – 2001 to 2005.
- Member in New Mexico Alumni Association – New Mexico State University – 2001 to 2005.

### **AWARDS and HONORS:**

- Winner of the Association of Agricultural Engineers Award for Authorship, Scientific Research and Agricultural Extension for the 7<sup>th</sup> call of the year 2020 within the Field of the Best Applied Scientific Research in the Field of Animal Production entitled “The Inclusion of Black Cumin Meal Improves Growth Performance of Growing Awassi Lambs”. Awarded in January 9, 2023.
- Recognized among the list of the top 2% of influential and cited scientists at the level of the world according to the Stanford University and Elsevier publisher for the year 2022.

- Khalil Al Salem Prize for Scientific Research and Agriculture Extension. The Best Scientific Research in Plant production and Prevention, Animal Production and Prevention or Nutrition and Food Processing, 2019.
- Award of the Distinguished Arab Researcher. Association of Arab Universities. 2015.
- The Arab Fund Fellowship Program, The Distinguished Scholar Award. The Arab Fund for Economic and Social Development, Kuwait, 2011.
- Teaching and Research Assistantship, Department of Animal and Range Sciences, New Mexico State University, Las Cruces, NM, USA. Jan. 2000 – Dec. 2004.
- Gamma Sigma Delta Distinguished Graduate Student Award, College of Agriculture and Home Economics/New Mexico State University, NM, USA. 2001.
- Doctoral Fellowship, Jordan University of Science and Technology, Jordan. August 2001 – December, 2005.

## **EDUCATIONAL ACTIVITIES:**

- **Texas Tech University – Co-Teaching (September 2012 – August 2013)**  
**Visiting Scientist**

ANSC 3301: Principles Of Nutrition  
ANSC 3305: Applied Animal Nutrition  
ANSC 5100: Graduate Seminar  
ANSC 5313: Nutritional Biochemistry in Animals

- **Jordan University of Science and Technology**  
Professor (January 2016 – Present), Department of Animal Production.

### **Undergraduate Courses**

AP 200: Farm Animal Products (For Non Animal Production and Nutrition and Food Technology Students)  
AP 304: Animal Nutrition Laboratory  
AP 206: Introduction to Animal Science  
AP 232: Feeds and Feeding  
AP 300: Feed Analysis and Ration Formulation  
AP 312: Dairy Cattle Production  
AP 333: Range Animal Nutrition  
AP 413: Beef Cattle Production  
AP 416: Meat Science  
AP 435: Ruminant Nutrition  
AP 491: Seminar  
VM 323: Animal Nutrition (Veterinary Medicine College)

### **Graduate Courses**

AP 713: Forage Evaluation

AP 712: Advanced Animal Physiology 2 (Participate in teaching the digestive system)  
AP 714: Advanced Ruminant Nutrition

- **New Mexico State University**

Graduate Teaching Assistant (Jan. 2000 – Dec. 2004), Department of Animal and Range Sciences.

**Undergraduate Courses**

ANSC 304: Feeds and Feeding  
ANSC 363: Meat Technology  
ANSC 402: Animal Science Seminar  
ANSC 414: Sheep and Wool Production  
ANSC 416: Beef Production  
ANSC 422: Animal Nutrition

**Graduate Courses**

ANSC 507: Laboratory Techniques in Nutrition

**RESEARCH INTERESTS:**

- Increasing the productivity of ruminant animals from sources of animal proteins (meat) and milk to maintain food security.
- Factors affecting intake and utilization of nutrients of livestock animals.
- Nutritional and management factors that improve sheep and goats' production efficiency.
- Using alternative feeds in livestock diets.
- Studying factors affecting the innate immune responses of dairy calves.

**RESEARCH GRANTS AND FUNDS:**

1. From waste to use: olive trees by-products in Black goats' diet. **(Funded, \$48,000, Principal Investigator (PI)). Source: Scientific Research Support Fund, The Ministry of Higher Education and Scientific Research, Amman, Jordan**
2. Effect of *Saccharomyces cerevisiae* supplementation on nursing performance of Awassi ewes. **(Funded, \$11,900, PI). Source: JUST.**
3. Effect of feeding pomegranate seed pulp and coconut flesh by-products on nursing performance of Awassi ewes. **(Funded, \$7,700, PI). Source: JUST.**
4. Using pomegranate by products in feeding small ruminants. **(Funded, \$12,200, PI). Source: JUST.**
5. Effect of feeding olive leaves on nursing performance of Awassi ewes and growth of their lambs. **((Funded; \$9,000, PI). Source: JUST.**
6. Effect of using olive leaves as an alternative feedstuff in feeding Awassi lambs on growth performance and carcass characteristics **((Funded; \$7,560, PI). Source: JUST.**

7. The effect of feeding olive leaves on performance of lactating Baladi goats (black mountain) and growing kids. **(Funded; \$15,470, Coauthor). Source: Scientific Research Support Fund, The Ministry of Higher Education and Scientific Research, Jordan.**
8. Using chickpea grains in feeding small ruminants. **(Funded; \$8,500, Coauthor). Source: National Agricultural Research Center**
9. Effect of using faba bean (*vicia faba* L.) as alternative feedstuff in feeding Awassi lambs on growth performance and carcass characteristics. **(Funded, \$7,500, PI). Source: JUST.**
10. Study of the effect of using sweet lupin in feeding Awassi lambs and Black Baladi kids. **(Funded, \$14,000, PI). Source: JUST**
11. Using black seed meal in feeding small ruminants. **(Funded, \$13,860, PI). Source: JUST**
12. Study of medicinal properties of hemp seed oil supplementation in female rats fed high-fat diet. **(Funded, \$8500, PI). Source: JUST**
13. Alternative feeds: Effects on nursing Awassi ewes and their suckling lambs. **(Funded, \$9,000; PI). Source: JUST**
14. Effect of feeding dried distillers grains with solubles on nursing Awassi ewes and their suckling lambs. **(Funded, \$9,000; PI). Source: JUST**
15. Study of medicinal properties of Ginger (*Zingiber officinale* Rosc) supplementation in rats fed high-fat diets. **(Funded, \$14,000; PI). Source: JUST**
16. Effect of feeding dried distillers grain with solubles on growth performance and carcass characteristics of growing Awassi lambs. **(Funded, \$8,500; PI). Source: JUST**
17. Effect of forage source on nursing performance of Awassi ewes and growth performance of growing lambs. **(Funded, \$12,000; PI). Source: JUST**
18. Effects of selected nonconventional feedstuffs on growth performance and carcass characteristics of growing Awassi lambs. **(Funded, \$9,000; Coauthor). Source: JUST**
19. Effect of feeding sesame meal on nursing performance of Awassi ewes and growth performance of their lambs. **(Funded, \$12,850; PI). Source: JUST**
20. Effect of feeding *Atriplex halimus* L. on milk yield and composition and on lamb growth rate of Awassi ewes. **(Funded, \$11,900; PI). Source: JUST**
21. Effect of yeast supplementation (*Saccharomyces cerevisiae*) on growth performance and carcass characteristics of fattening Awassi lambs **(Funded, \$13,400; PI). Source: JUST**
22. Effect of feeding *Atriplex halimus* L. on growth performance and carcass characteristics of fattening Awassi lambs **(Funded, \$9,250; PI). Source: JUST**
23. Understanding the nutritional value of Chaffhaye **(Funded; \$42,500; coauthor; USA). Source: Texas Tech University.**
24. Effect of methionine supplementation on digestibility and growth of Awassi lambs fed finishing diets **(Funded, \$5,300; PI). Source: JUST**

25. The effect of partial replacement of barley grains by *Prosopis juliflora* pods on growth performance, nutrient intake, digestibility and carcass characteristics by Awassi lambs fed finishing diet (**Funded, \$5000; PI**). **Source: JUST**
26. Effect of replacing soybean meal with sesame meal on nursing Awassi ewes and weaned male lambs (**Funded, \$10,700; PI**). **Source: JUST**
27. Effects of feeding sesame hulls on growth performance and nutrient digestibility of Black Baladi kids (**Funded, \$4,800; PI**). **Source: JUST**
28. Effect of replacing soybean meal with xylose-treated soybean meal on performance of nursing Awassi ewes and fattening lambs (**Funded, \$8,900; PI**). **Source: JUST**
29. Effects of feeding sesame hulls on growth, digestibility, and carcass characteristics of Awassi lambs (**Funded, \$6,600; PI**). **Source: JUST**
30. Effect of replacing barley grain by *Prosopis juliflora* pods on growth performance, nutrient digestibility, and meat quality of Black goat kids fed finishing diets with two different levels of energy (**Funded, \$16,900; coauthor**). **Source: JUST**
31. Effect of calcium salts of fatty acids supplementation on performance of lactating dairy cows (**Funded, \$9,000; PI**). **Source: JUST**
32. Effects of feeding *Prosopis juliflora* pods on milk yield and composition and on lamb growth rate of Awassi ewes (**Funded, \$9,500; PI**). **Source: JUST**
33. Effects of feeding poultry layer litter on growth performance and carcass characteristics of Awassi lambs (**Funded, \$9,000; PI**). **Source: JUST**

## **GRADUATE STUDENT COMMITTEES:**

**Chaired: total = 20**

*In Progress = 3*

1. Maha Al-Jbour, M.Sc. (Co advisor). Animal Science, JUST
2. Miran Alwaked, M.Sc. Animal Science, JUST
3. Rana Ababneh, M.Sc. Animal Science, JUST

*Completed = 17*

1. Manal Qadorah, M.Sc. Animal Science, JUST, (Graduated in January 2023). Thesis Title: Effect of feeding pomegranate seed pulp and coconut flesh by-product on nursing performance of Awassi ewes.
2. Nael Ismael, M.Sc. Animal Science, JUST, (Graduated in December 2021). Thesis Title: Effect of using olive leaves as an alternative feedstuff in feeding Awassi lambs on growth performance and carcass characteristics. Published in Italian Journal of Animal

- Science, 2023; 22:1, 214-221, DOI: 10.1080/1828051X.2023.2179429.
3. Nawras Shboul, M.Sc. Animal Science, JUST, (Graduated in January 2021). Thesis Title: The effect of feeding faba beans on growth performance and carcass characteristics of Awassi lambs. Published in Veterinary World, 2022; 15(4): 906-910.
  4. Ahmed Aljamal, M.Sc. Animal Science, JUST, (Graduated in January 2020). Thesis Title: Using alternative feedstuffs in feeding small ruminants. Published in Italian Journal of Animal Science, 2021; 20, 426-432,
  5. Tasneem Abu Ghazal, M.Sc., Nutrition and Food Science, JUST, (Graduated in December 2018). Thesis Title: Study of medicinal properties of hemp seed oil supplementation in female rats fed high-fat diet. Accepted to be published in Agriculture, 2023.
  6. Safaa Hatamleh, M.Sc., Animal Science, JUST, (Graduated in December 2018). Thesis Title: Effects of feeding dried distillers grain with solubles on growth performance and carcass characteristics of growing Awassi lambs. Published in Animals, 2019; 9, 954; doi:10.3390/ani9110954.
  7. Mohammed Aloueedat, M.Sc., Animal Science, JUST, (Graduated in December 2018). Thesis Title: Effects of using some alternative feeds on nursing Awassi ewes and their suckling lambs. Published in Animals, 2019; doi.org/10.3390/ani9090684.
  8. Sharaf Al-Shdaifat, M.Sc., Animal Science, JUST, (Graduated in August 2017). Thesis Title: Effect of feeding dried distillers grain with solubles on nursing Awassi ewes and their suckling lambs. Published in Italian Journal of Animal Science. 2019; 18:522-529.
  9. Hamza Dagher, M.Sc., Animal Science, JUST, (Graduated in April 2017). Thesis Title: Effects of selected nonconventional feedstuffs on growth performance and carcass characteristics of growing Awassi lambs; Co advisor. Published in Italian Journal of Animal Science. 2019; 18:777-785.
  10. Jumana A. Maswadeh, M.Sc., Animal Science, JUST, (Graduated in August 2015). Thesis Title: Effect of feeding *Atriplex halimus* L. on growth performance and carcass characteristics of fattening Awassi lambs. Published in Small Ruminant Research. 2016; 137:65-70.
  11. Mohammad A. Mayyas, M.Sc., Animal Science, JUST, (Graduated in August 2011). Thesis Title: Effects of feeding poultry layer litter on growth performance and carcass characteristics of Awassi lambs. Published in Small Ruminant Research. 2016; 137:24-27.
  12. Mustafa M. Shdaifat, M.Sc., Animal Science, JUST, (Graduated in April 2011). Thesis Title: Effects of feeding *Prosopis juliflora* pods on milk yield and composition and on lamb growth rate of Awassi ewes. Published in Small Ruminant Research. 2013; 111:50-55.
  13. Bardees T. Telfah, M.Sc., Animal Science, JUST, (Graduated in January 2010). Thesis Title: Effects of Calcium Salts of fatty acids supplementation on performance of lactating dairy cows and Awassi ewe lambs. Published in Livestock Science. 2012; 150:391-396.
  14. Baha'a Q. Oqaily, M.Sc., Animal Science, JUST, (Graduated in July 2009). Thesis Title:

- Effects of feeding sesame hulls on performance and carcass characteristics of Awassi lambs. Published in *Small Ruminant Research*. 2010; 91:225-230.
15. Firas F. Al-Gharaybeh, M.Sc., Animal Science, JUST, (Graduated in April 2009). Thesis Title: Effects of feeding sesame hulls on growth performance, nutrient digestibility, and carcass characteristics of Black goat kids. Published in *Asian-Australasian Journal of Animal Science*. 2011; 24:206-213.
  16. Ibrahim A. Alawneh, M.Sc., Animal Science, JUST, (Graduated in December 2007). Thesis Title: Effects of replacing soybean meal with xylose-treated soybean meal on performance of nursing Awassi ewes and fattening lambs. Published in *Italian Journal of Animal Science*. 2010; 62:332-337.
  17. Fatima A. Al-Lataifeh, M.Sc., Animal Science, JUST, (Graduated in August 2006). Thesis Title: The effect of partial replacement of barley grains by *Prosopis juliflora* pods on growth performance, nutrient intake, digestibility, and carcass characteristics of Awassi lambs fed finishing diets. Published in *Animal Feed Science Technology*. 2008; 146:42-54.

#### **Advisor Committee Member = 17**

1. Ali Abdo, M.Sc. Climate Change, Jerash University, Graduated in 2022.
2. Nouh Abu Farah, M.Sc. Animal Science, The University of Jordan, Graduated in 2022.
3. Saa'da Alzoubi, M.Sc. Animal Science, JUST, Graduated in 2021.
4. Wala Alyounis, M.Sc. Animal Science, JUST, Graduated in 2017
5. Sofian S. Kolib. M.Sc. Animal Science, JUST, Graduated in 2015
6. Mohammed Z. Al-Sadi, M.Sc. Animal Science, JUST, Graduated in 2014
7. Amjad Meqdadi, M.Sc. Animal Science, JUST, Graduated in 2013
8. Leqa'a Al-Harbeed, M.Sc., Animal Science, JUST, Graduated in 2009
9. Yaser Hasan, M.Sc., Animal Science, University of Jordan, Graduated in 2008
10. Rasha'a M. Tbaileh, M.Sc., Animal Science, JUST, Graduated in 2008
11. Basheer M. Nusairat, M.Sc., Animal Science, JUST, Graduated in 2008
12. A'amal Al-Doiri, M.Sc., Animal Science, JUST, Graduated in 2006
13. Areej Hazaymeh, M.Sc., Animal Science, JUST, Graduated in 2006
14. Mohammad Obeidat, M.Sc., Animal Science, JUST, Graduated in 2006
15. Ja'afar M. Al-Khaza'leh, M.Sc., Animal Science, JUST, Graduated in 2005
16. Marwan A. Al-Hijazeen, M.Sc., Animal Science, JUST, Graduated in 2005
17. Alia A. Al-Jamal, M.Sc., Animal Science, JUST, Graduated in 2005



## **SERVICES ACTIVITIES AND COMMITTEES:**

### **To the Department of Animal Production:**

1. Department Head (Sep. 2009 to Sep. 2011)
2. Director of Graduate Studies Committee (Sep. 2009 to Sep. 2011)
3. Departmental Council (Jan. 2005 to present)
4. Director of Curriculum Development Committee (Sep. 2013 to Sep. 2014)
5. Member of Students Affaires Committee
6. Member of Scientific Research Committee
7. Member of Graduate Studies Committee
8. Advising of Undergraduate Students
9. Advising and supervising of Graduate Students

### **To the College of Agriculture:**

1. Faculty Council (2006/2007; Sep. 2009 to Sep. 2011; Sep. 2013 to Sep. 2014; Sep 2016 to Sep 2021)
2. Member of Graduate Studies Committee (many years)
3. Member of Sports Committee (Many years)
4. Member of Scientific Research Committee (Many years)

### **To the University:**

1. Member of Animal Care and Use Committee (Sep. 2009 to Sep. 2011; Sep. 2015 to present)
2. Member of Faculty of Graduate Studies Council (Sep. 2018 to Sep. 2021)
3. Member of University Council (Sep. 2022 to present)

### **To the Community:**

1. Participating in lectures in Ministry of Agriculture (National Center for Agricultural Research and Extension)
4. Participating in Training Courses in Ministry of Agriculture (National Center for Agricultural Research and Extension)
5. Publications in Jordanian Union Farmers Journal

6. Member of Evaluating and Registry Feedstuffs Committee in Ministry of Agriculture
7. Member of Permanent Feedstuffs Committee in Jordan Institution for Standards & Metrology
8. Participating in Faculty For Factory (FFF) project that strength the relationship between the industry and academic institutions in Jordan

### **RESEARCH**

1. Guest Editor (Special Issue "The Use of Agro-Industrial By-Products in the Diets of Ruminants"  
Journal: Animals MDPI (Scopus; Q1). 2022.

### **Peer Reviewer:**

#### ***To Journals***

1. PLOS ONE
2. Scientific African
3. Cogent Food and Agriculture
4. Journal of Animal Science
5. Ruminants
6. Journal of Agriculture and Food Research
7. Pharmaceuticals MDPI
8. Animal Feed Science and Technology
9. Sustainability MDPI
10. Foods MDPI
11. Livestock Science (Awarded Certificate of Reviewing in Recognition of the review made for the Journal, July 2014)
12. Animals MDPI
13. Agronomy MDPI
14. All Life
15. Heliyon Journal
16. Veterinary and Medicine Science
17. Animal Biotechnology
18. Agriculture MDPI
19. Veterinary Sciences MDPI
20. Natural and Applied Sciences Series

21. Journal of Applied Animal Research
22. Nutrition Research
23. Animal Production Science
24. Molecules MDPI
25. Small Ruminant Research (Awarded Certificate of Outstanding Contribution in Reviewing, within the top 10<sup>th</sup> percentile of reviewers for the Journal, February 2015)
26. Annals of Microbiology
27. Journal of the Science of Food and Agriculture
28. Czech Journal of Animal Science
29. Spanish Journal of Agricultural Research
30. Tropical Animal Health and Production
31. Jordan Journal of Agricultural Sciences
32. Jordan Journal of Biological Sciences
33. Archives Animal Breeding
34. Journal of Animal Research and Technology
35. African Journal of Biotechnology
36. Agricultural Science Research Journal
37. Iranian Journal of Applied Animal Science
38. Italian Journal of Animal Science
39. Journal of Agricultural Science and Technology
40. Springer Plus
41. Open Veterinary Journal
42. Egyptian Journal of Animal Production
43. International Conference on Agriculture and Biological Sciences (ABS2015)

### ***To Agencies***

1. Member of the International Scientific Evaluation Panel for the PRIMA (Partnership For Research and Innovation in the Mediterranean Area) calls: 2018 and 2019.
2. Vice Chairman of the Agricultural and Veterinary Sciences Sector Committee, Scientific Research Support Fund, The Ministry of Higher Education and Scientific Research, Jordan, December 2020 to December 2022.
3. Member of a committee in International Fund for Agricultural Development Project (Challenges of using Alternatives feeds in small ruminant feeding: Suggested procedures and programs aims to develop and increasing using alternative feeds) 2020-2022.
4. Chair of a committee in Accreditation and Quality Assurance Commission for Higher Education Institutions (Developing and modernizing the fields of knowledge of the College

of Agriculture specializations). June 2022.

### CONDUCTED WORKSHOPS:

1. International Fund for Agricultural Development (IFAD): Challenges of using Alternatives feeds in small ruminant feeding: Suggested procedures and programs aims to develop and increasing using alternative feeds (28/01/2019).
2. International Fund for Agricultural Development (IFAD) and Ministry of Agriculture: The Use of Agricultural Residues and Alternative Feeds in Animal Nutrition (16-18/04/2019).

### PUBLICATIONS:

Journal Articles (Peer Reviewed; Total = 80; According to Scopus: Q1 (35), Q2 (38), Q3 (5), non-Scopus (2))

1. **Belal S. Obeidat.** 2023. Effect of *Saccharomyces cerevisiae* supplementation during the suckling period on performance of Awassi ewes. *Tropical Animal Health and Production.* <https://doi.org/10.1007/s11250-023-03555-x>. 50, 140.(**Scopus; Q2**)
2. **Belal S. Obeidat.** 2023. Effect of feeding pomegranate seed pulp on Awassi lambs' nutrient digestibility, growth performance, and carcass quality, *Veterinary World*, 16(3): 588–594. (**Scopus; Q1**)
3. Nael Ismail, **Belal S. Obeidat.** 2023. Olive leaves as alternative feed for finishing lambs: evaluation of feed intake, nutrients digestibility, growth performance, and carcass quality. *Italian Journal of Animal Science*, 22:1, 214-221, DOI: 10.1080/1828051X.2023.2179429. (**Scopus; Q1**)
4. Tasneem S. Abu Ghazal, Hadil S. Subih, **Belal S. Obeidat**, Mofleh S. Awawdeh. 2023. Hemp seed oil effects on female rats fed a high-fat diet and modulating adiponectin, leptin, and lipid profile. *Agriculture.* 13(2), 449; <https://doi.org/10.3390/agriculture13020449>. (**Scopus; Q2**)
5. Mohammad D. Obeidat, Basheer M. Nusairat, **Belal S. Obeidat.** 2022. Growth performance and carcass traits of two commercial broiler strains fed diet supplemented with essential oils. *Heliyon.* 8: e12094. (**Scopus; Q1**)
6. Mohammad D. Obeidat and **Belal S. Obeidat.** 2022. Fattening performance and carcass traits of two fat tailed sheep breeds. *Tropical Animal Health and Production.* 54: 375. <https://doi.org/10.1007/s11250-022-03364-8>. (**Scopus; Q2**)
7. **Obeidat, B.S.,** Shdaifat, M.M., Aloueedat, M.K., Ata, M. 2022. The effects of feeding chickpea grains on the lactating performance and blood metabolites of ewes. *Tropical Animal Health and Production.* 54, 340. <https://doi.org/10.1007/s11250-022-03337-x> (**Scopus; Q2**)

8. **Belal S. Obeidat**, Mysaa Ata, Fatima Al-Lataifeh. 2022. Influence of Corn Stover on the Growth and Blood Parameters of Awassi Lambs Fed a Concentrate Diet. *Italian Journal of Animal Science*. 21:1, 702-707, DOI: 10.1080/1828051X.2022.2057242. (**Scopus; Q1**)
9. Al Shabuol NL, **Obeidat BS**. 2022. Feeding of faba beans (*Vicia faba* L.) enhances the growth performance of lambs, *Veterinary World*, 15(4): 906-910. (**Scopus; Q1**)
10. **Belal S. Obeidat**, Mysaa Ata, Hadil S. Subih. 2022. Impacts of substituting soybean meal with cold extraction sesame meal on growth accomplishment and health in growing Awassi lambs. *Tropical Animal Health and Production*. 54:116. <https://doi.org/10.1007/s11250-022-03116-8> (**Scopus; Q2**)
11. **Obeidat, B.S.** 2022. The performance and carcass characteristics of Black Baladi kids fed diets with graded quantities of sweet lupin grain (*Lupinus angustifolius*). *Veterinary Sciences*. 9:20. (**Scopus; Q1**)
12. **Belal S. Obeidat**, Rami T. Kridli. 2021. Olive cake in livestock nutrition. *Jordan Journal of Agricultural Sciences*. 17, 185-194. (**non-Scopus**).
13. **Belal S. Obeidat**, Rami. T. Kridli, Mysaa Ata, Kamel, Z. Mahmoud, Pawel M Bartlewski. 2021. Nutrient intake, in vivo digestibility, growth performance and carcass quality of growing lambs fed concentrate diets containing sweet lupin grain (*Lupinus angustifolius*). *Small Ruminant Research*. 204. 10.1016/j.smallrumres.2021.106510
14. M. Atal and **Belal S. Obeidat**. 2021. The impact of lamb diets containing either barley or corn on growth performance and carcass quality. *Veterinary World*. 14, 1487-149.
15. Ahmed E. Aljamal, **Belal S. Obeidat**, Mohammed D. Obeidat. 2021. Lactation performance of Awassi ewes fed diets containing either *Atriplex halimus* L. or olive cake. *Italian Journal of Animal Science*. 20, 426-432 (**Scopus; Q2**).
16. **Belal S. Obeidat**. 2021. The inclusion of black cumin meal improves carcass characteristics of growing Awassi lambs. *Veterinary World*. 14(1):237-241. (**Scopus; Q1**).
17. Mysaa Ata, **Belal S. Obeidat**. 2020. The inclusion of sweet lupin grain (*Lupinus angustifolius*) improves nursing performance of lactation in Awassi ewes. *Small Ruminant Research*. 190, [doi.org/10.1016/j.smallrumres.2020.106150](https://doi.org/10.1016/j.smallrumres.2020.106150) (**Scopus; Q2**).
18. **Belal S. Obeidat**. 2020. The inclusion of black cumin meal improves growth performance of growing Awassi lambs. *Veterinary Sciences*. 7(2), 40; [doi.org/10.3390/vetsci7020040](https://doi.org/10.3390/vetsci7020040) (**Scopus; Q1**).
19. Mofleh S. Awawdeh, Hamzeh. K. Dager, **Belal. S. Obeidat**. 2020. Dietary inclusion of alternative feedstuffs had no negative effects on hematological and biochemical parameters of growing Awassi lambs. *Tropical Animal Health and Production*. 52, 2157–2162 (**Scopus; Q2**).
20. Ja'far Al-Khaza'leh, Rami Kridli, **Belal Obeidat**, Shahera Zaitoun, Anas Abdelqader. 2020. Effect of maternal water restriction on sexual behavior, reproductive performance and reproductive hormones of male rat offspring. *Animals*, 10, 379; [doi:10.3390/ani10030379](https://doi.org/10.3390/ani10030379) (**Scopus; Q1**).

21. **Belal S. Obeidat**, Hadil S. Subih, Mysa Ata. 2020. Protein supplementation improves performance of lambs fed low-quality forage. *Animals*. 10, 51, doi.org/10.3390/ani10010051 (**Scopus; Q1**).
22. Ja'far Al-Khaza'leha, Bekele Megersab, **Belal Obeidat**. 2020. Constraints and risk factors contributing to young stock mortalities in small ruminants in Jordan. *Small Ruminant Research*. doi.org/10.1016/j.smallrumres.2019.106033 (**Scopus; Q2**).
23. Mohammad D. Obeidat, **Belal S. Obeidat**, Basheer Nusairt, Rolan Al-Shareef. 2020. Fattening performance and carcass traits of Baladi and Shami-Baladi kids. *Veterinary World*. 13:21-25 (**Scopus; Q1**).
24. Safa' M. Hatamleh, **Belal S. Obeidat**. 2019. Growth performance and carcass traits responses to dried distillers' grain with solubles feeding of growing Awassi ram lambs. *Animals*, 9, 954; doi:10.3390/ani9110954 (**Scopus; Q1**).
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Submitted Manuscript (Total = 8)

1. Mysa Ata, **Belal S. Obeidat**. Effects of replacing soybean meal with sesame meal on carcass characteristics and meat quality in growing lambs.
2. **Belal S. Obeidat**, Ja'far Al-Khaza'leh, Ahmed M. Alqudah. Black cumin meal (*Nigella sativa*) as an alternative feed resource during the suckling period of Awassi ewes: assessments of performance and health
3. **Belal S. Obeidat**, Milton G. Thomas. Assessing the influence of feeding olive leaves on the productivity and economic viability of growing Awassi lambs.
4. Hadil S. Subih, **Belal S. Obeidat**, Rami T. Kridli, Mohammad D. Obeidat, Sana M. Janakat, Rasha I. Qudsieh, Basma Shdaifat, Amina Izbeidat, Wessam Al-Khashroom, Mohammad Mayyas. Metabolic and reproductive parameters in young female rats subjected to feed restriction and/or ginger oil administration.
5. Fatima Al-Lataifeh, **Belal S. Obeidat**, Mofleh S. Awawdeh, Mysaa Ata. Selenium Supplementation to Awassi Lambs Did Not Improve Their Growth Performance.
6. Fatima A. Al-Lataifeh, **Belal S. Obeidat**, Mysaa Ata. Performance, rumen fluid pH and blood metabolites of lambs fed whole or ground barley grain.
7. Ja'far Al-Khaza'leh, **Belal S. Obeidat**. Sex effect on growth performance, carcass characteristics, meat quality and blood metabolites of growing Awassi lambs.
8. Mustafa Alshdaifat, Ugur Serbester, **Belal S. Obeidat**, Murat Gorgulu. Fish Oil Supplementation as an Omega-3 Fatty Acid Source during Gestation: Effects on the Performance of Awassi Ewes and Their Offspring.

Manuscripts in Preparation (Total = 18)

1. **Belal S. Obeidat**. Effect of feeding olive cake on growth performance and carcass characteristics of Black kids.

2. **Belal S. Obeidat**, Miran Alwaked. The effects of feeding olive leaves and *Saccharomyces cerevisiae* supplementation on growth performance and carcass characteristics of Awassi lambs.
3. **Belal S. Obeidat**, Rana Ababneh. Effects of feeding olive leaves on lactating performance of Awassi ewes.
4. Mustafa M. Shdaifat, **Belal S. Obeidat**, Fatima Al-Lataifeh, Mohammed D. Obeidat, Mohammad K. Aloueedat. The effect of feeding olive leaves on performance of lactating Baladi goats (black mountain) and growing kids.
5. Ja'far Al-Khazaleh, **Belal S. Obeidat**. The inclusion of black cumin meal (NS) improves nursing performance of lactation in Awassi ewes.
6. B. M. Nusairat, D. Joardar, **Belal S. Obeidat**, S. Majeed and J. Brake. Impact of corn particle size, phytate content of soybean meal, and phytase inclusion in feed on broiler growth performance, phosphorus digestibility, and bone health.
7. Manal H. Qadorah, **Belal S. Obeidat**. Effect of feeding pomegranate seed pulp and coconut flesh by-product on nursing performance of Awassi ewes.
8. Mustafa M. Shdaifat, **Belal S. Obeidat**, Mohammad K. Aloueedat, Mysaa Ata. Effects of feeding chickpeas grains on growth performance of Awassi lambs.
9. **Belal S. Obeidat**, Nawras Al Shabuol. Feeding faba beans (*Vicia faba* L.) enhances carcass characteristics and meat quality of lambs.
10. Kishor K Gautam, **Belal S Obeidat**, Clayton J Cobb, Bill L Miller, Jill A Davidson, Kelly L Perfield, Sara J Trojan, Michael L Galyean, Michael A. Ballou. Influences of plane of nutrition and ionophore type on the performance and rumen metabolism of Holstein calves during the preweaned and grower phases.
11. **Obeidat, B. S.** Effect of protein or energy supplementation on performance, intake, digestibility, N balance and rumen fluid pH of Awassi lambs fed low quality forages.
12. **Obeidat, B.S.** Intake, nutrient digestibility and N balance in Awassi ewe lambs offered energy diets.
13. K.K. Gautam, **B.S. Obeidat**, M.A. Ballou. Effect of enzyme or both probiotics and prebiotics (synbiotics) supplementation on nutrient digestibility and fecal characteristics of adult mixed breed dogs.
14. K. K. Gautam, **B.S. Obeidat**, S. J. Trojan, J. O. Satri, M. L. Galyean, and M. A. Ballou. Nutritive value, ruminal fermentation characteristics, and in situ disappearance of Chaffhaye®, alfalfa, and prairie grass hay-based diets fed to dairy steers.
15. **Obeidat, B.S.**, C.A. Loest, P. J. Defoor, and J. E. Sawyer. Effects of corn flake weight on nutrient intake and retention and serum metabolites by finishing heifers.
16. **Obeidat, B. S.** and M. S. Awawdeh. Effect of partial replacement of soybean meal with urea on performance of Awassi lambs.
17. **Obeidat, B.S.**, Löest, C.A., Thelen, T.M. Strickland, J.R., Sawyer, J.E., Taylor, J.B., Hallford, D. M. Effects of various exposure routes of swainsonine serum constituents, rumen characteristics, and nutrient metabolism of sheep.

18. Abdullah, A.Y., **B.S. Obeidat**, M.M. Muwalla, S.K. Matarneh and M.A. Abu Ishmais. Growth performance, carcass and meat characteristics of Black Goat kids fed *Prosopis juliflora* pods.

Conferences and Scientific Meetings (Total = 38)

1. **Obeidat, B.S.** 17-20/11/2022. The inclusion of pomegranate seed pulp improves growth performance and carcass characteristics of growing Awassi lambs. Antalya/Turkey
2. Sadeh Q Alzoubi, Mohammad D Obeidat, Basheer M Nusairat, **Belal S Obeidat**. 17-20/11/2022. Effects of fermented soybean meal on growth performance, carcass and meat quality traits, and intestinal morphology of two commercial broiler strains. Antalya/Turkey.
3. **Obeidat, B.S.**, Aloueedat, M.K., and Awawdeh, M.S. 26-30/8/2019. Effects of feeding alternative feeds on nursing performance of Awassi ewes and their suckling lambs. 70<sup>th</sup> Annual Meeting of the European Federation of Animal Science. Ghent/Belgium.
4. Awawdeh, M.S., **Obeidat, B.S.**, and Dager, H.K. 26-30/8/2019. Alternative feedstuffs had no effects on haematological and biochemical parameters of Awassi lambs. 70th Annual Meeting of the European Federation of Animal Science. Ghent/Belgium.
5. Obeidat, M.D. and **Obeidat, B.S.** 26-30/8/2019. Growth performance and carcass traits of two fat-tailed sheep breeds. 70th Annual Meeting of the European Federation of Animal Science. Ghent/Belgium.
6. **Belal S. Obeidat**, Ahmed E. Aljamal, Mohammed D. Obeidat. 3-7/10/2018. The effects of replacing barley grain with *Atriplex halimus* L. or olive cake on growth performance and carcass characteristics of Awassi lambs. International Conference on Food, Agriculture and Animal Sciences. Belek-Antalya/Turkey.
7. **Obeidat, B. S.**, H. S. Subih, J. B. Taylor. 3-6/2/2018. Feeding alfalfa hay improves nursing performance of Awassi ewes and performance of growing lambs when used as a source of roughage compared with wheat straw. Southern Section Meeting of American Association of Animal Science. Fort Worth, Texas/ USA.
8. **Obeidat, B. S.**, Aljamal A. E. 28/08/2017 – 01/09/2017. Replacement of soybean meal with sesame meal improves lactating performance of Awassi ewes. 68th Annual Meeting of the European Federation of Animal Science. Tallinn-Estonia.
9. **Obeidat, B. S.** 29/08/2016 – 02/09/2016. Effects of olive cake feeding and *Saccharomyces cerevisiae* supplementation of Awassi lambs. 67th Annual Meeting of the European Association for Animal Production. Belfast-North Ireland.
10. **Obeidat, B.S.**, Sh.N. Shdaifat, S.S. Kolib. 08-12/04/2015. Intake, nutrient digestibility and N balance in Awassi ewe lambs offered energy diets. International Congress of Agriculture, Food Science and Gastronomy, Antalya-Turkey.
11. **Obeidat, B.S.**, A.Y. Abdullah, M.A. Mayyas. 22-25/09/2014. Effects of feeding poultry layer litter on growth performance and carcass characteristics of Awassi lambs.

International Mesopotamia Agriculture Congress, Diyarbakir-Turkey.

12. Obeidat, M.D., A.Y. Abdullah, R.T. Kridli, **B.S. Obeidat**. 22-25/09/2014. Evaluation of birth weight, weaning weight, and preweaning ADG for Awassi Charollais straightbred and crossbred lambs. International Mesopotamia Agriculture Congress, Diyarbakir-Turkey.
13. **Obeidat, B.S.**, K.K. Gautam, and M.A. Ballou. 08-12/07/2013. Neither enzymes nor pre/probiotics supplementation influenced nutrient digestibility or fecal characteristics of dogs. ADSA-ASAS Joint Annual Meeting, Indianapolis/Indiana-USA.
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16. Gautam, K.K., C.J. Cobb, **B.S. Obeidat**, M.L. Galyean, B.L. Miller, J.A. Davidson, K.L. Perfield, T.A. Brooks, M.A. Ballou. 15-19/7/2012. Influence of ionophore source and a proprietary nutrition supplement on the performance and rumen metabolism of Holstein calves previously fed a high plane of milk replacer. ADSA-AMPA-ASAS-CSAS-WSASAS Joint Annual Meeting, Phoenix/Arizona-USA.
17. **Obeidat, B.S.**, C.J. Cobb, M.D. Sellers, A.R. Pepper-Yowell, D.L. Hanson, T.J. Earleywine, M.A. Ballou. 15-19/7/2012. Plane of nutrition during the pre- and post-weaned periods influences the innate immune activity of Holstein calves. ADSA-AMPA-ASAS-CSAS-WSASAS Joint Annual Meeting, Phoenix/Arizona-USA.
18. Ballou, M. A., M. D. Sellers, D. L. Hanson, A. R. Pepper-Yowell, C.J. Cobb, **B.S. Obeidat**. 15-19/7/2012. Innate immunological or metabolic status prior to an oral Salmonella typhimurium challenge is not predictive of a heightened acute phase response in weaned Jersey calves. ADSA-AMPA-ASAS-CSAS-WSASAS Joint Annual Meeting, Phoenix/Arizona-USA.
19. Cobb, C.J., D.L. Hanson, M.D. Sellers, A.R. Pepper-Yowell, **B.S. Obeidat**, M.A. Ballou. 15-19/7/2012. Indoor group housing does not influence performance or measures of innate immune activity of Holstein calves during the neonatal, weaning, and commingling periods. ADSA-AMPA-ASAS-CSAS-WSASAS Joint Annual Meeting, Phoenix/Arizona-USA.
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21. Nightingale, C.R., M.D. Sellers, A.R. Pepper-Yowell, D.L. Hanson, C.J. Cobb, **B.S. Obeidat**, M.A. Ballou. 15-19/7/2012. Acute phase response intensity is related to the

- metabolic and immunologic statuses of early postpartum dairy cattle. ADSA-AMPA-ASAS-CSAS-WSASAS Joint Annual Meeting, Phoenix/Arizona-USA.
22. Pepper-Yowell, A.R., D.L. Hanson, M.D. Sellers, C.J. Cobb, **B.S. Obeidat**, M.A. Ballou. 15-19/7/2012. Pathophysiological response to an oral Salmonella typhimurium challenge is influenced by the inoculum dose in newborn colostrum-fed Jersey calves. ADSA-AMPA-ASAS-CSAS-WSASAS Joint Annual Meeting, Phoenix/Arizona-USA.
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  24. Sellers, M.D., C.J. Cobb, D.L. Hanson, A.R. Pepper-Yowell, **B.S. Obeidat**, M.A. Ballou. 15-19/7/2012. Indoor vs. outdoor housing during the neonatal, weaning, and commingling periods influences innate immune responses in single-housed Holstein calves. ADSA-AMPA-ASAS-CSAS-WSASAS Joint Annual Meeting, Phoenix/Arizona-USA.
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## PROFESSIONAL DEVELOPMENT

1. Training course in Statistical Analysis using SPSS, Academic Development and Quality Assurance Center, JUST, January 2014.
2. Training course in Development of Curriculum and Study Plan, Academic Development and Quality Assurance Center, JUST, January 2014
3. Training Course in Lab Safety. Department of Animal and Food Sciences, Texas Tech University, TX, USA, January 2012.
4. Training Course on Analysis Using HPLC. The Veterinary and Agriculture Drugs Company. Amman, July 1997.
5. Training Course in using Unicam Solar 939 Atomic Absorption Spectrophotometer



systems and Unicam HPLC device, JUST, July 1998.

6. Training course in Testing and Evaluation (University Examinations), Academic Development and Quality Assurance Center, JUST, July 2005.
7. Training course in Modern University Instructional Methods, Academic Development and Quality Assurance, JUST, June 2006.

## PROFESSIONAL SKILLS

1. Conducting animal production (Sheep, goats, beef cattle and dairy cows) and metabolism studies.
2. Preparing animals for studies that need special surgeries such as ruminal and abomasal cannulation.
3. Collection of samples including blood, ruminal digesta (i.e., rumen and abomasum), fecal, urinary and milk samples.
4. Training undergraduate and graduate students on different laboratory techniques including proximate analysis, detergent system (ANKOM Fiber Analyzer), and bomb calorimeter.
5. Conducting in situ and in vivo experiments.

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Date of Birth: February 1, 1972  
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