

2021

Department Staff Handbook



Department Accreditation Committee
Department of Animal Production,
JUST.

5/10/2021



Jordan University of Science and Technology
Department of Animal Production

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Name	Abdullah Yousef Abdullah
Post	<i>Professor of Animal Science/Meat Science</i>
Academic career	Ph.D. <i>Massey University, New Zealand</i> 1994 M.Sc. <i>Massey University, New Zealand</i> 1989 Dip.Sc. <i>Lincoln University, New Zealand</i> 1987 B.Sc. <i>University of Baghdad, Iraq</i> 1978
Employment	<i>Professor</i> <i>Jordan University of Science and Technology</i> 1995-now
Research and development projects over the last 5 years	<ul style="list-style-type: none"> - Influence of probiotic of locally isolated <i>Bacillus subtilis</i> species administration by water on growth performance, meat characteristic, blood serum profile, small intestine histology and microbial profile in feces of broiler chicken. - Evaluate the efficacy of aromatic herbs (Hot Pepper, rosemary and Achilla Millefolium) as a supplementation to the broiler chicken diets on growth performance and meat quality
Industry collaborations	<ol style="list-style-type: none"> 1. Faculty for factory program (Part 8). 2010. A consultancy study on "Developing Probiotic supplemented broiler feeds". Suleiman Amayreh & Partners Company. 2. A study was carried out in accordance to the mandates of the grant contract number (AR27) with Gazelle Feed Co. (2018) within the Scientific Research and Technology Development in Jordan program II (SRTD II), under the management of Higher Council of Science and Technology (HCST). Title : „The effectsof using Gazelle water supplement (G33) on broiler chicken safety, meat quality and productivity when rased with no antibiotic „,
Patents and proprietary rights	-
Important publications over the last 5 years	<p>Total number is 9</p> <ol style="list-style-type: none"> 1. Abdullah Y. A. 2019. Effect of using levels of Ginger root as feed additives in broiler diets on meat characteristics. Annual Meeting of the European Federation of Animal Science. 70th. Ghent, Belgaum. (Abstr.) 2. Abdullah Y. A, K. Z. Mahmoud. 2108. Growth performance and carcass characteristics of broiler chicks fed graded levels of carob pod (<i>Ceratonia siliqua</i>). International conference on food, agriculture and animal sciences. Antalya, Turkey. (Abstr) 3. Abdullah, A. Y., M. Khalifeh, R. T. Kridli and M. S. Al Kasbi. 2017. The effects of using mix oil herbal extracts in broiler diet on growth performance and immune system. Annual Meeting of the European Federation of Animal Science. 68th. Tallinn, Estonia. (Abstr.) 4. Kridli, R. T., M. Z. Al-Sadi, A.Y. Abdullah. 2017. The effect of ginger administration on body weight and ovarian changes in pubertal female rats. Proceedings of 8th International Conference on Animal Health & Veterinary Medicine. Toronto, Canada. J Vet Sci Technol 2017, 8:5 (Suppl). (Abstr.) 5. Obeidat, B. S., M. A. Mayyas, A. Y. Abdullah, M. S. Awawdeh, R. I. Qudsieh, M. D. Obeidat, B. M. Nusairat, K. Z. Mahmoud, S. G. Haddad, F. A. Al-Lataifeh, M. Ata, M. A. Abu Ishmais and A. E. Aljamal: 2019. The potential use of layer litter in Awassi lamb diet: Its effects on carcass characteristics and meat quality. <i>Animals</i> 2019, 9, 782; doi:10.3390/ani9100782
Activities in specialist bodies over the last 5 years	<p><i>Members in the Higher committee within:</i> <i>The hashmeite Fund for Development of Jordan Badi</i> <i>Geographical Indicator for Jordanian Awassi Sheep (Awassi JO)</i></p>

Name	Belal Suleiman Obeidat		
Post	<i>Professor of Animal Nutrition</i>		
Academic career	Ph.D.	<i>New Mexico State University, USA</i>	2005
	M.Sc.	<i>New Mexico State University, USA</i>	2001
	B.Sc.	<i>Jordan University of Science and Technology</i>	1994
Employment	<i>Professor</i>	<i>Jordan University of Science and Technology</i>	2016-now
Research and development projects over the last 5 years	<ul style="list-style-type: none"> - Study of the effect of using sweet lupin in feeding Awassi lambs and Black Baladi kids - Using black seed meal in feeding small ruminants 		
Industry collaborations	- Participating in Faculty For Factory (FFF) project that strength the relationship between the industry and academic institutions in Jordan		
Patents and proprietary rights	-		
Important publications over the last 5 years	<ol style="list-style-type: none"> 6. Mysaa Ata, Belal S. Obeidat. 2020. The inclusion of sweet lupin grain (<i>Lupinus angustifolius</i>) improves nursing performance of lactation in Awassi ewes. <i>Small Ruminant Research</i>. 190, doi.org/10.1016/j.smallrumres.2020.106150 7. Belal S. Obeidat. 2020. The inclusion of black cumin meal improves growth performance of growing Awassi lambs. <i>Veterinary Sciences</i>. 7(2), 40; doi.org/10.3390/vetsci7020040 8. 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. <i>Tropical Animal Health and Production</i>. 52, 2157–2162 9. 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. <i>Animals</i>, 10, 379; doi:10.3390/ani10030379 10. Belal S. Obeidat, Hadil S. Subih, Mysa Ata. 2020. Protein supplementation improves performance of lambs fed low-quality forage. <i>Animals</i>. 10, 51, doi.org/10.3390/ani10010051 11. Ja'far Al-Khaza'leha, Bekele Megersab, Belal Obeidat. 2020. Constraints and risk factors contributing to young stock mortalities in small ruminants in Jordan. <i>Small Ruminant Research</i>. doi.org/10.1016/j.smallrumres.2019.106033 		
Activities in specialist bodies over the last 5 years			

Name	Hosam Jamal Al-Tamimi		
Post	<i>Professor of Animal Environmental Physiology</i>		
Academic career	Ph.D.	<i>University of Missouri-Columbia, USA</i>	<i>2003</i>
	M.Sc.	<i>New Mexico State University, USA</i>	<i>1998</i>
	B.Sc.	<i>Jordan University of Science and Technology</i>	<i>1994</i>
Employment	<i>Faculty Member</i>	<i>Jordan University of Science and Technology</i>	<i>2011-now</i>
Research and development projects over the last 5 years	<ul style="list-style-type: none"> - Dietary mitigation of heat stress in farm and laboratory animals. - Characterization of thermoregulatory patterns in farm mammals and birds. 		
Industry collaborations	-		
Patents and proprietary rights	-		
Important publications over the last 5 years	<ol style="list-style-type: none"> 1. Al-Tamimi H.J., Al-Atiyat R.M., Al-Majali A.D. and Alamiri O. 2019. Renal Efficiency underlies Adaptive Heterothermy of Heat-Stressed Hypohydrated Goats. <i>Tropical Animal Health and Production</i>, 51: 2287–2295. 2. Al-Tamimi H.J., Al-Dawood A. and Mahasneh Z. 2019. The Wolff–Chaikoff effect ameliorates heat stress in rats. <i>Animal Biotelemetry</i>, 7: 8-14. 3. Al-Tamimi H.J., Al-Dawood A., Awaisheh S.S. and Abdalla T. 2019. Resveratrol mitigates hypercholesterolemia exacerbated hyperthermia in chronically heat-stressed rats. <i>Veterinary World</i>, 12(2): 337-344. 4. Obeidat B.S., Mahmoud K.Z., Obeidat M.D., Ata M., Kridli R.T., Haddad S.G., Titi H.H., Jawasreh K.I., Al-Tamimi H.J., Subih H.S., Hatamleh S.M., Abu Ishmais M.A. and Abu Affan R. 2018. The effects of <i>Saccharomyces cerevisiae</i> supplementation on intake, nutrient digestibility, and rumen fluid pH in Awassi female lambs. <i>Veterinary World</i>, 11(7): 1015-1020. 5. Awaisheh S.S., Obeidat M.M., Al-Tamimi H.J., Assaf A.M., EL-Qudah J.M., Al-khaza'leh J.M. and Rahahleh R.J. 2016. In vitro cytotoxic activity of probiotic bacterial cell extracts against Caco-2 and HRT-18 colorectal cancer cells. <i>Milk and dairy products in human nutrition</i>, 69: 33-37. 		
Activities in specialist bodies over the last 5 years			

Name	Kamel Zuhdi Mahmoud		
Post	<i>Professor in Poultry Sciences</i>		
Academic career	Ph.D.	<i>North Carolina State University - Raleigh</i>	2000
	M.Sc.	<i>University of Nebraska – Lincoln</i>	1995
	B.Sc.	<i>Jordan University - Amman</i>	1990
Employment	<i>Professor</i>	<i>Jordan University of Science and Technology</i>	2000-now
Research and development projects over the last 5 years	Improving education and employment prospects for Jordanian and Syrian youth in the agri-food sectors through a connected and inclusive entrepreneurship programme. <i>NUFFIC, iCRA, Advance Consulting, LMNS, JUST</i>		
Industry collaborations	<ol style="list-style-type: none"> 1. Provide management and nutritional and managerial advices to local farms in Jordan. 2. Educational lectures about different poultry topics especially nutritional management to different national agencies and public gatherings: Jordan University of Science and Technology (students), Agricultural Engineers Association (Amman and Irbid), and National Center for Agricultural Research and Technology Transfer (Amman). 3. Feed additive evaluation for the following companies: <ul style="list-style-type: none"> ➤ Al-Ghad Technology for Feed additives Co. Ltd., Koufor Yoba, Jordan ➤ Biochem Zusatzstoffe Handels-und Produktionsges. Lohne, Germany ➤ Animal Wellness Product (AW.P), Reggio Emilia – Italy 		
Patents and proprietary rights	-		
Important publications over the last 5 years	<ol style="list-style-type: none"> 1. Al-Tamimi, H., Mahmoud, K., Al-Dawood, A., Nusairat, B., Khalaf, H.B. 2019. Thermotolerance of broiler chicks ingesting dietary betaine and/or creatine. <i>Animals</i>, 9(10), 742 2. Obeidat, B.S., Mahmoud, K.Z., Obeidat, M.D., ...Ishmais, M.A.A., Affan, R.A. 2018. The effects of <i>Saccharomyces cerevisiae</i> supplementation on intake, nutrient digestibility, and rumen fluid pH in Awassi female lambs. <i>Veterinary World</i>, 11(7), 1015 3. Al-Nabulsi, A.A., Osaili, T.M., Mahmoud, K.Z., ...Shaker, R.R., Holley, R.A. 2017. Modeling the combined effect of NaCl and pH against <i>Cronobacter</i> spp. using response surface methodology. <i>Journal of Food Safety</i>, 37(2), e12303 4. Mahmoud, K.Z., Obeidat, B.S., Al-Sadi, M.Z., Hatahet, S.R. 2017. Effect of <i>Bacillus subtilis</i> supplementation and dietary crude protein level on growth performance and intestinal morphological changes of meat type chicken. <i>Livestock Science</i>, 195, 99 5. Obeidat, B.S., Mahmoud, K.Z., Maswadeh, J.A., Bsoul, E.Y. 2016. Effects of feeding <i>Atriplex halimus</i> L. on growth performance and carcass characteristics of fattening Awassi lambs. <i>Small Ruminant Research</i>, 137, 65 		
Activities in specialist bodies over the last 5 years			

Name	Mustafa Qasim Husein Beni-Domi		
Post	<i>Professor of Animal Science/Reproductive Physiology & endocrinology</i>		
Academic career	Ph.D.	<i>University of Minnesota, USA</i>	1997
	M.Sc.	<i>University of Minnesota, USA</i>	1995
	B.Sc.	<i>University of Agriculture, Faisalabad-Pakistan</i>	1983
Employment	<i>Professor</i>	<i>Jordan University of Science and Technology</i>	2007-
	<i>Director</i>	<i>Consultative Centre for Science & Technology</i>	<i>present</i>
	<i>Visiting Professor</i>	<i>University of Minnesota, USA</i>	2013-2016
Research and development projects over the last 5 years	<ul style="list-style-type: none"> - Research dealing with reproductive physiology and endocrinology of farm animals with the aim of improving fertility and reproductive efficiency - Other research emphasis is placed on artificial insemination and semen cryopreservation in sheep and cattle and monitoring hormonal profiles among farm animal species using radioimmunoassay procedures. 		
Industry collaborations	-		
Patents and proprietary rights	-		
Important publications over the last 5 years	<p>Total number is 9</p> <ol style="list-style-type: none"> 1. Husein M. Q., and E. M. Al-Shorman. 2012 The effect of breeding time and vaginal pH on sex determination in sheep. Proceedings of the 15th AAAP animal Science Congress. 26-30 Nov. 2012. Asian-Aust. J. Anim. Sci (supplement) 2220-2225. 2. M. M. Ababneh, I. N. Obeidat, M. Q. Husein, A. Talafha. 2013. Effect of acute bull exposure around the time of Artificial Insemination on serum oxytocin and progesterone concentrations and pregnancy rates in dairy cows. <i>Reprod. Dom. Anim.</i> 48(2):223-230. 3. Husein M. Q., and M. M. Ababneh. 2008. A new strategy for superior reproductive performance of ewes bred out-of-season utilizing progestagen supplement prior to withdrawal of intravaginal pessaries. <i>Theriogenology</i>, 69: 376-383. 4. Al-Omari H.Y., Ababneh M.M. and Husein M.Q. 2012. Endocrine response tests for fertility assessment in Awassi rams in Jordan. <i>Jordan J. Agri. Sci.</i>, 8(2): 166-179. 5. Kridli R.T., A. Y. Abdullah and M. Q. Husein. 2009. The effect of breed type and location status on reproductive performance in Awassi ewes. <i>S. A. J. Anim. Sci.</i>, 39 (supplement 1): 15-18. 6. Husein M. Q., M.M. Ababneh, and J.F. Hijazi. 2007. The effect of post-mating progesterone supplement on pregnancy and lambing rates of ewes bred out-ofseason. <i>American J. Anim. Vet. Sci.</i>, 2(3): 55-61. 		
Activities in specialist bodies over the last 5 years	<i>Jordan Journal of Agricultural Sciences</i>		<i>Reviewer</i>
	<i>Reproduction in Domestic Animals</i>		<i>Reviewer</i>
	<i>Asian-Australasian Journal of Animal Sciences</i>		<i>Reviewer</i>

Name	Serhan George Haddad		
Post	<i>Professor of Animal Science</i>		
Academic career	Ph.D.	<i>University of Nebraska, USA</i>	<i>1996</i>
	M.Sc.	<i>University of Nebraska, USA</i>	<i>1994</i>
	B.Sc.	<i>The University of Jordan</i>	<i>1990</i>
Employment	<i>Professor</i>	<i>Jordan University of Science and Technology</i>	<i>2016-now</i>
Research and development projects over the last 5 years	Appointed Dean of Research in 2016, and Vice President of Jordan University of Science and Technology. These appointments had me overlook the development of strategic university goals/performance indicators, accreditation and quality assurance, and an overhaul of the research infrastructure and regulations, which led to a significant increase in external research funding (~15M USD), an improved publication per faculty member (from 0.5 to 1), and doubling of the citations per faculty and an immense improvement in the university ranking.		
Industry collaborations	<p>- Permanent member of the Feeds Committee and the Feedstuff Registration Committee (Ministry of Agriculture). Chairperson of the Permanent Committee for the Jordanian standards of animal feedstuffs (Jordanian Institution for Standards and Metrology). Preparation of several animal husbandry projects (lamb feedlots, sheep farms, dairy cattle farms for the private investors). Permanent member of the Feeds Committee and the Feedstuff Registration Committee (Ministry of Agriculture). Chairperson of the Permanent Committee for the Jordanian standards of animal feedstuffs (Jordanian Institution for Standards and Metrology).</p>		
Patents and proprietary rights	-		
Important publications over the last 5 years	<ol style="list-style-type: none"> 1. B. S. Obeidat, M. A. Mayyas, A. Y. Abduallah, M. S. Awawdeh, R. I. Qudsieh, M. D. Obeidat, B. M. Nusairat, K. Z. Mahmoud, S. G. Haddad, F. A. Al-Lataifeh, M. Ata, M. A. Abu Ishmais and A. E. Aljamal. The potential use of layer litter in Awassi lamb diet: Its effects on carcass characteristics and meat quality. Submitted. 2. Belal S. Obeidat, Rami T. Kridli, Kamel Z. Mahmoud, Mohammed D. Obeidat, Serhan G. Haddad, Hadil S. Subih, Mysaa Ata, Ahmed E. Al-Jamal, Tasneem Abu Ghazal, Jáfar Mansur Al-Khazáleh. 2019. Replacing Soybean Meal with Sesame Meal in the Diets of Lactating Awassi Ewes Suckling Single Lambs: Nutrient Digestibility, Milk Production, and Lamb Growth. <i>Animals</i>. 9(4), 157; doi.org/10.3390/ani9040157. 3. Belal S. Obeidat, Kamel Z. Mahmoud, Mohammad D. Obeidat, Mysaa Ata, Rami T. Kridli, Serhan G. Haddad, Hosam H. Titi, Khaleel I. Jawasreh, Hosam J. Altamimi, Hadil S. Subih, Safaa M. Hatamleh, Majdi A. Abu Ishmais and Ruba Abu Affan. 2018. The effects of <i>Saccharomyces cerevisiae</i> supplementation on intake, nutrient digestibility, and rumen fluid pH in Awassi female lambs. <i>Veterinary World</i>. 11:1015-1020. 		
Activities in specialist bodies over the last 5 years	<p>Consultat for <i>Oie</i></p> <p>Active member of several joined committes with the Ministry of Agriculture, and Assocaition of Agricultural Scienceists.</p>		

Name	Khaleel Ibrahim Za'l Jawasreh		
Post	<i>Professor of Animal Breeding</i>		
Academic career	Ph.D.	<i>Baghdad University, Iraq</i>	2003
	M.Sc.	<i>Baghdad University, Iraq</i>	2000
	B.Sc.	<i>Mousol University, Iraq</i>	1997
Employment	<i>Professor</i>	<i>Jordan University of Science and Technology</i>	<i>2011-now</i>
Research and development projects over the last 5 years	<ul style="list-style-type: none"> - <i>Genomic Evaluation of Awassi Sheep for some Productive and Reproductive Traits</i> - <i>Producing of FecB- Callipyge Awassi sheep Line (the first phase to produce the FecB generation)</i> - <i>Determination of the mutation(s) in some genes that may cause Microtia in Awassi sheep</i> - <i>Deferential expression of the heat shock proteins (HSPs) in some carcass cuts of broiler as affected by some feed additives</i> - <i>Improving the productivity of Awassi Sheep at Small holders fields</i> - <i>Genetic Evaluation of Awassi Sheep for some growth traits</i> 		
Industry collaborations	-		
Patents and proprietary rights	-		
Important publications over the last 5 years	<ul style="list-style-type: none"> - <i>Total number is 26</i> - <i>Amani Zain; Jawasreh et al., 2020. G1 Point Mutation in Growth Differentiation Factor 9 Gene affected Litter Size in Sudanese Desert Sheep. Accepted in Veterinary world 2020.</i> - <i>Jawasreh, K.I.Z; Al-Omari, H. A. Duplication in ECR near HMX1 and a SNP in GATA6 Genes Regulate Microtia in Awassi Sheep. Genes 2020, 11, 597</i> - <i>A Sara Mohammad , Romaz Ahmed Khaleel Jawasreh et al. 2020. Genetic Polymorphisms of Fecundity Genes in Watish Sudanese Desert Sheep. Veterinary world, 2019, 13(4):614-621, (Scopus quartile Q2)</i> - <i>Khaleel Jawasreh, Ahmad Al Amareen and Pauline Aad. 2019. Effect and Interaction of β-Lactoglobulin, Kappa Casein, and Prolactin Genes on Milk Production and Composition of Awassi Sheep. Animals, 2019, 9(6), 382; https://doi.org/10.3390/ani9060382 (Scopus quartile Q1)</i> - <i>Jawasreh, K.I., Alamareen, A.H., Obeidat, M.D., Aad, P.Y. 2019. Growth performance and meat characteristics of the first awassi-rambouillet callipyge backcross. Animals, 9(8),517</i> 		
Activities in specialist bodies over the last 5 years			

Name	Mohammad Diya' Talal Obeidat
Post	<i>Associate Professor of Animal Breeding</i>
Academic career	Ph.D. <i>Texas A&M University, USA</i> 2013 M.Sc. <i>Jordan University of Science and Technology</i> 2006 B.Sc. <i>Jordan University of Science and Technology</i> 2003
Employment	<i>Associate Professor Jordan University of Science and Technology</i> 2022-now
Research and development projects over the last 5 years	- Direct and maternal heterosis in Awassi-Chios crossbred sheep - Fattening performance and carcass traits of two fat tailed sheep breeds
Industry collaborations	-
Patents and proprietary rights	-
Important publications over the last 5 years	Total number is 9 1. Obeidat MD , Obeidat BS, Nusairat B, Al-ShareefR (2020) Fattening performance and carcass traits of Baladi and Shami-Baladi kids, <i>Veterinary World</i> , 13(1): 21-25. Q2 . 2. Khaleel I. Jawasreh, Ahmad Hasen Alamareen, Mohammad Diya Obeidat and Pauline Y. Aad. 2019. Growth Performance and Meat Characteristics of theFirst Awassi–Rambouillet Callipyge Backcross. <i>Animals</i> . 9:517-529. Q1 . 3. Mohammad D Obeidat , Hosam Al-Tamimi, Basheer Nusairat, Belal S Obeidat. 2019. Effect of breed and density on growth performance and carcass traits of two broiler breeds. <i>International Congress on Agriculture and Forestry Research</i> . Marmaris, Turkey. 4. Belal S. Obeidat, Rami T. Kridli1, Kamel Z. Mahmoud, Mohammed D. Obeidat , Serhan G. Haddad, Hadil S. Subih, Mysaa Ata, Ahmed E. Al-Jamal, Tasneem Abu Ghazal and Jáfar Mansur Al-Khazáleh. 2019. Replacing Soybean Meal with Sesame Meal in the Diets of Lactating Awassi Ewes Suckling Single Lambs: Nutrient Digestibility, Milk Production, and Lamb Growth. <i>Animals</i> . 9:157-166. Q1 . 5. M.D. Obeidat , A.Y. Abdullah, S. Kolib, B.S. Obeidat, K. Jawasreh & H.S. Subih. 2019. Pre-weaning growth performance and carcass traits of Awassi and Chios-Awassi lambs. <i>South African Journal of Animal Science</i> . 49:140-146. Q2
Activities in specialist bodies over the last 5 years	

Name	Basheer Mahmoud Nusairat		
Post	<i>Assistant Professor of Poultry Nutrition</i>		
Academic career	<i>Ph.D.</i>	<i>North Carolina State University, USA</i>	<i>2015</i>
	<i>M.Sc.</i>	<i>Jordan University of Science and Technology</i>	<i>2008</i>
	<i>B.Sc.</i>	<i>Jordan University of Science and Technology</i>	<i>2002</i>
Employment	<i>Assistant Professor</i>	<i>Jordan University of Science and Technology</i>	<i>2018-now</i>
Research and development projects over the last 5 years	<ul style="list-style-type: none"> - Investigating feed additives in poultry nutrition including minerals and vitamins, enzymes, probiotics, phytochemicals, and synbiotic compounds - Investigating feed form in poultry nutrition 		
Industry collaborations	-		
Patents and proprietary rights	-		
Important publications over the last 5 years	<p>Total number is 17</p> <ol style="list-style-type: none"> 1. <u>Dinabandhu Joardar</u>, D., K. A. Livingston, F. W. Edens, B. M. Nusairat, R. Qudsieh, M. L. Livingston, and J. Brake. 2020. Effect of Limestone Particle Size and Potassium Supplementation on Live Performance, Blood Physiology and Breast Muscle Myopathy of Male Broiler Chickens. <i>Front. Vet. Sci.</i> doi: 10.3389/fvets.2020.603284 (Accepted) 2. Majeed, S., B. M. Nusairat, D. Joardar, R. I. Qudsieh, F. Edens, J. Broomhead, M. Lanahan, and J. Brake. 2020. Corn-expressed phytase influence on broiler growth performance. <i>Intl. J. Poult. Sci.</i> 19: 330-337 3. Arguelles-Ramos, M., B. M. Nusairat, R. Qudsieh, and J. Brake. 2019. Effect of phytase inclusion in broiler breeder diets during early lay on fecal and egg characteristics. <i>Brazilian J. of Poult. Sci.</i> 22 (1): 001-006 4. Al-Tamimi, H., K. Z. Mahmoud, A. Al-Dawood, B. M. Nusairat, and H. Bani Khalaf. 2019. Thermotolerance of Broiler Chicks Ingesting Dietary Betaine and/or Creatine. <i>Animals</i> 9(10): 742 5. Obeidat, B. S., M. A. Mayyas, A. Y. Abdullallah, M. S. Awawdeh, R. I. Qudsieh, M. D. Obeidat, B. M. Nusairat, K. Z. Mahmoud, S. G. Haddad, F. A. Al-Lataifeh, M. Ata, M. A. Abu Ishmais, and A. E. Aljamal. 2019. The potential use of layer litter in Awassi lamb diet: Its effects on carcass characteristics and meat quality. <i>Animals.</i> 9(10): 782 		
Activities in specialist bodies over the last 5 years			