

## CURRICULUM VITAE

**Dr. Mustafa Q. H. Beni-Domi**

**Professor of Animal Science/Reproductive Physiology & endocrinology**

Mailing Address:

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Jordan University of Science and Technology, P. O. Box 3030, Irbid 22110, Jordan  
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**PERSONAL DATA:**

Full name: Mustafa Qasim Husein Beni-Domi  
Date of birth: May 16<sup>th</sup>, 1959  
Place of birth: Kufr Al-Ma, Irbid - Jordan  
Marital Status: Married  
Nationality: Jordanian

**PRESENT ACADIMIC RANK:**

Professor of Animal Science/Reproductive Physiology and Endocrinology

**E-mail address**

[huseinmq@just.edu.jo](mailto:huseinmq@just.edu.jo)

**LANGUAGES:**

Arabic and English

**EDUCATION:**

July 1997 Doctor of Philosophy (**Ph.D**)  
Major: Animal Science  
Area of Specialization: Reproductive Physiology & endocrinology,  
University of Minnesota, St. Paul, Minnesota 55108 USA.  
Supervisor: Professor J. E. Wheaton

Dissertation:

*"Approaches to Improve Fertility of Ewes Bred using Transcervical Artificial Insemination".*

Dec. 1995 Master of Science (**M. Sc.**)  
Major: Animal Science  
Area of Specialization: Reproductive Physiology & endocrinology,  
University of Minnesota, St. Paul, Minnesota 55108 USA.  
Supervisor: Professor J. E. Wheaton

Dissertation:

*"Transcervical Artificial Insemination of Sheep during Seasonal Anestrus".*

Nov. 1983 Bachelor of Science, **B.Sc.** (Honors) Animal Husbandry  
University of Agriculture, Faisalabad, Pakistan.

### **ACADEMIC POSITIONS:**

Nov. 2007 to PRESENT	Professor, Department of Animal Production, Faculty of Agriculture, Jordan University of Science & Technology, Irbid-JORDAN.
Sep. 2013 – Sep. 2016	Director, the Consultative Center for Science and Technology, Jordan University of Science and Technology, Irbid-JORDAN.
Sep. 2009 – Sep. 2010	Visiting Professor, Department of Animal Science, College of Food, Agricultural and Natural Resource Sciences, St. Paul, Minnesota, 55108 USA.
Sep. 2005 – Sep. 2009	Chairman, Department of Animal Production, Faculty of Agriculture, Jordan University of Science & Technology, Irbid-JORDAN.
Nov. 2002 - Nov. 2007	Associate Professor, Department of Animal Production, Faculty of Agriculture, Jordan University of Science & Technology, Irbid-JORDAN.
Sep. 1997 - Nov. 2002	Assistant Professor, Department of Animal Production, Faculty of Agriculture, Jordan University of Science & Technology, Irbid-JORDAN.
Sep. 1992 – Aug. 1997	Graduate research program, University of Minnesota, St. Paul, Minnesota 55108 USA.

### **OTHER EMPLOYMENTS:**

Dec. 1988 – Sep. 1992	Supervisor of Sheep and Dairy Farm Facility, The Agricultural Research Station, Jordan University of Science and Technology, Irbid-Jordan.
Aug. 1986 – Dec. 1988	Counterpart of the European Economic Community (EEC) Sheep Project Adviser and Assistant Sheep Project Manager, Department of Projects and Planning, Jordan Cooperative Organization (JCO), Amman- Jordan.
Oct. 1986 – Feb. 1987	Assistant Sheep Project Manager and Participant of a course and practical training program on sheep and goats production, reproduction, feeding, milking and management. Jordan Livestock Development Company, Sabha, Mafraq - Jordan.
Feb. 1986 – Aug. 1986	Supervisor of Khalid Al-Malkawi Poultry Farms, Sallam and Malkawi Company, Irbid - Jordan. February 1986 to October 1986.
Dec. 1983 – Dec. 1985	Army Supply Department, Jordan Military Service, Jordan.

## **RESEARCH INTERESTS:**

Research is conducted in the area of reproductive physiology and endocrinology with the aim of improving fertility and reproductive efficiency. Emphasis is placed on sheep and cattle. Physiology studies to investigate regulation of pituitary gonadotropin secretion and on the regulation of ovarian function. 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.

## **TEACHING ACTIVITIES and EXPERIENCE:**

### **CURRENT**

Professor of animal science at the department of animal production at Jordan University of Science and Technology.

The major area is animal production

The area of specialization is reproductive physiology and endocrinology

As a professor, duties include teaching responsibilities and research in the department of animal production at Jordan University of Science and Technology, and community services and public outreach since September 1997 to present. Classes dealing with animal physiology, physiology of reproduction, advanced endocrinology and physiology courses, production and artificial insemination in sheep and cattle for both graduate and undergraduate levels.

## **ADMINISTRATIVE and PROFESSIONAL EXPERIENCE**

### **PREVIOUS**

**September 2013 to September 2016**

**Director of the Consultative Center for Science and Technology (CCST) at Jordan University of Science and Technology (JUST), Irbid-Jordan.**

As a director of the consultative center at JUST, duties included:

- Supervising, coordinating and providing a range of services include academic, vocational, professional, and technical training courses, workshops and seminars designed to enhance knowledge and skills for the students at the graduate and post-graduate levels, employees and community personnel.
- Seeking to attract and establish more active partnerships and to expand the CCST services to reach more people and institutions by providing counselling, training, and technical assistance to build the capacity of organizations and human service systems and to engage with individuals and communities in collaborative and participatory projects.
- Providing the university staff and qualified personnel with all resources and facilities to help conducting consultations, making feasibility studies, and developing new designs.
- Writing proposals and generating fund for vocational, professional, and technical training courses from national and international organization.

- Invigorating and revitalizing the training courses and counselling policies being conducted by the Consultative Center for Science and Technology.
- Represented, negotiated, installed and signed on behalf Jordan University of Science and Technology many international agreements and consultations and various workshops held at the Consultative Center for Science and Technology.
- Collaborated with many local professional consultants and private training centers/academies and formal organizations and associations to plan, implement, and manage the training activities within the University Consultative Center.

**September 2005 to September 2009: Chairman, Department of Animal Production at Jordan University of Science and Technology (JUST), Irbid-Jordan.**

Played a leadership role in my capacity as a chairman of the Department of Animal Production (2005-2009) in policy development for graduate and undergraduate education, reviewing new programs and fostering interdisciplinary programs in collaboration with the faculty of graduate studies and graduate committees in the faculty of agriculture and the department of animal production. In addition, I have the ability to work closely with the academic departments and students and coordinate all aspects of graduate/undergraduate education and research including: admissions, programs of study, comprehensive examinations, thesis/dissertation research quality control, implementing assistantships, scholarships, and fellowship programs, appointment of graduate faculty, and curricula development and scheduling of graduate courses.

### **Highlights of Professional and Academic Experience:**

- Wide experience in teaching assigned graduate and undergraduate courses.
- Ability to organize, prepare and revise and update all course materials.
- Ability to develop course curriculum and contents.
- Ability to maintain good rapport with students and faculty.
- Sound knowledge of instructional techniques and profound knowledge of classroom functions and familiarity with student assessment practices.
- Ability to motivate students to achieve academic goals.
- Ability to monitor student's progress and provided feedbacks for improvements.
- Ability to provide assignments and homework for students.
- Ability to draft examination papers and graded student tests.
- Ability to engage students in class discussions, seminars and quizzes.
- Ability to address academic and teaching issues promptly.
- Ability to provide counseling and career services to students.
- Ability to organize faculty meetings.
- Ability to assist in college administration duties as needed.
- Ability to ensure that students followed dress, attendance, discipline and academic policies.



- Ram and bull semen processing and handling procedures (collection, evaluation, dilution and freezing).
- Methods of insemination (Vaginal, cervical and intrauterine, transcervical artificial insemination in particular).
- Semen collection, handling, evaluation and processing for immediate insemination.
- Semen freezing techniques and cryopreservation of embryos.
- Artificial insemination with fresh, cooled and frozen semen of sheep, goats and cattle.
- Monitoring the hormonal profiles of the estrous cycle of sheep, goats and cattle using different estrous synchronization protocols.
- Improving fertility of ewes using different estrous synchronization protocols and frozen-thawed semen.
- Examining the effect of seasonal anestrus on fertility of ewes using exogenous hormones.
- Pregnancy diagnosis in sheep using ultrasonography procedures.
- Radioimmunoassay procedures of several hormones including. Progesterone; Estradiol; Testosterone; ovine, bovine and equine LH; ovine, bovine and equine FSH; alpha- and beta-inhibin peptide.
- Radiolabeling and Radioiodination of ovine, bovine and equine LH; ovine, bovine and equine FSH; alpha- and beta-inhibin peptide.

### **Techniques and Skills:**

- Semen collection, processing, handling and storing of sheep and cattle.
- Transcervical artificial insemination of sheep.
- Artificial insemination of sheep and cattle.
- Breeding soundness examination of male sheep, goats and cattle.
- The induction or synchronization of an ovulatory estrus in female sheep, goats, horse and cattle.
- Radioimmunoassay procedures of several peptide and steroid hormones.
- Several peptide and steroid radioiodination.
- Preparation of intravaginal progesterone sponges.
- Pregnancy diagnosis using ultrasonography.
- Ability to use several computer applications, including Excel, SAS and MS word.

### Research Projects and Grants funded:

Project Number	Project Title	Amount Funded (USD)
130/99	The use of hormones in raising the fertility rate in the sheep. A research project to develop the Jordanian Badia No. (130/99), backed by the Supreme Council for Science and technology.	32,485
19990117	Transervical artificial insemination of Awassi ewes for fall lambing	5,904
19990202	Cyclic patterns of Awassi ewes treated with either naturally occurring or synthetic progesterone	5,920
19980082	Effect of royal jelly treatment out-of-season on ovarian and endocrine responses of Awassi ewes	4,025
20000025	Effect of addition of royal jelly on survival and post-thaw motility of ram spermatozoa	2,880
20010059	Effect of royal jelly on duration of estrus and endocrine responses of Awassi ewes synchronized using CIDR-G with or without PMSG	4,237
20010060	Effect of PMSG at or before PGF $2\alpha$ injection on reproductive parameters in artificially inseminated or naturally mated Awassi ewes	4,237
20020088	Effect of progesterone and dopamine agonist (Bromocriptine) on reproductive responses of Awassi ewes	5,650
20040014	Effect of progesterone treatment post mating on pregnancy rate of Awassi ewes synchronized using CIDR-G	1,412
20050117	The effect of a 4-day progesterone treatment with or without eCG on reproductive performance of Awassi ewe bred out-of-season	4,138
20070190	The effect of breeding time and vaginal PH on sex determination in sheep	4,944

### Graduate Students Advised:

- **Co-Adviser:** Thesis title: The effect of a single dose royal jelly administration on reproductive performance of Awassi ewes (completed March 2009). Liqaa J. M. Al-Harbeed. MS, Animal Production.

- **Primary Adviser:** Thesis title: *The effect of breeding time and vaginal pH on sex determination in sheep.* (Completed May 2008). **Isam Al-Shorman.** MS Animal Production.
- **Primary Adviser:** Thesis title: A comparison between a 4-day and a 12-day Fluorogestone acetate treatment with or without eCG on reproductive performance of ewes bred out-of-season (completed January 2006). **Dia Abu-Ruman.** MS Animal Production.
- **Co-Adviser:** Thesis title: Effect of melatonin and fluorogestone acetate administration on reproductive responses in ewes (completed June 2005). **Jaffar M. Khazaleh.** MS, Animal Production.
- **Primary Adviser:** Thesis title: Effect of progesterone treatment post-mating on pregnancy rate of Awassi ewes synchronized using CIDR-G (completed August 2004). **Jomana Fawzi Adel Hijazi.** MS Animal Production.
- **Primary Adviser:** Thesis title: Effect of progesterone and dopamine agonist (bromocriptine) on reproductive responses of Awassi ewes (completed April 2004). **Jaffar Shahir Issa.** MS Animal Production.
- **Primary Adviser:** Thesis title: Time of ovulation in progesterone-primed or non-primed Awassi ewes synchronized using GnRH-PGF2 $\alpha$  with or without royal Jelly (completed January 2003). Ghied Al Rabadi. MS Animal Production.
- **Primary Adviser:** Thesis title: Effect of royal jelly on duration of estrus and endocrine responses of Awassi ewes synchronized using CIDR-G with or without PMSG (completed January 2003). Hassan Ghozlan. MS Animal Production.
- **Co-adviser:** Thesis title: Endocrinological study of subfertility in Awassi rams (completed August 2001). Hassan Al Omary. MS, DVM student.

#### **Graduate Students Examination Committees:**

- Rasha Tbaileh. MS, Animal Production. Thesis title: The effect of equine chorionic gonadotropin route of administration on reproductive performance of ewes (completed May 2008). Advised by R. T. Kridli.
- Mohammed Sawalha. MS, Animal Production. Thesis title: The use of melatonin or progesterone to advance puberty in Awassi ewe lambs (completed May 2008). Advised by R. T. Kridli.
- Maisa Abbas Saleh Ata. MS, Animal Production. Thesis title: Effect of forage level in high concentrate diets on growth performance of growing Awassi lambs. (completed July 2007). Advised by S. G. Haddad.



- Ibraheem Obeidat. MS, DVM. Thesis title: The effect of bull exposure at the time of artificial insemination on oxytocin levels and pregnancy rates in dairy cattle (completed May 2007). Advised by Dr. M. M. Ababneh
- Abdurrahman Baker Mohammad Hasan. MS, DVM. Thesis title: Cold preservation of equine semen in electrolyte free solution (completed June 2006). Advised by Dr. M. M. Ababneh.
- Jaffar M. Khazaleh. MS, Animal Production. Thesis title: Effect of melatonin and fluorogestone acetate administration on reproductive responses in ewes (completed June 2005). Advised by R. T. Kridli and M. Q. Husein.
- Mahmood K. Masaideh. MS, Animal Production. Thesis title: Sexual activity and puberty in purebred and crossbred Awassi lambs (completed June 2005). Advised by R. T. Kridli.
- Hassan Ahmad Yousef Muhdi. MS, Animal Production. Thesis title: The use of melatonin and progestin to advance the breeding season in sheep (completed January 2005). Advised by R. T. Kridli.
- Rawad Wasfi Sweidan. MS, Animal Production. Thesis title: Effect of castration on growth rates and carcass characteristics on fattening Awassi lambs. (completed September 2003). Advised by S. G. Haddad.
- Said S. Al-Khatib. MS, Animal Production. Thesis title: Effect of administering increasing dosage of royal jelly on estrus synchronization and pregnancy rate in Awassi ewes. (Completed August 2003). Advised by R. T. Kridli.
- Hazim M. Younis. MS, Animal Production. Thesis title: The effect of adding fat in fattening rations for Awassi lambs (completed January 2003). Advised by S.G. Haddad
- Tamrat Degefa Geleto. MS, DVM. Thesis title: Postpartum uterine involution in goat in Jordan (completed January 2003). Advised by M. M. Ababneh.
- Dia Idden M. Al-Wadi. MS Animal Production. Thesis title: Soybean meal as a source of ruminally undegradable protein to improve postpartum reproductive performance of Awassi ewes (completed January 2003). Advised by S. G. Haddad.
- "Mohammed Ghassan" Al-Molla. MS Animal Production. Thesis title: Effect of royal jelly (RJ) on the induction of puberty in winter-born Awassi ewe lambs (Completed December 2002). Adviser: Dr. R. T. Kridli.
- Mohammed Al-Ashram. MS, DVM. Thesis title: Some studies on bull semen and effect of addition of antioxidant (ascorbic acid) on semen parameters (completed August 2002). Advised by Dr. H. Mansour and Alaa Addeen Zain.
- Azam Nasry Al-Yaqoub. MS Animal Production. Thesis title: Effect of the method of rearing on sexual activity and libido of Awassi ram lambs (completed May 2002). Advised: Dr. R. T. Kridli.
- Hassan Al Omary. MS, DVM. Thesis title: Endocrinological study of subfertility in Awassi rams (completed August 2001). Advised by Dr. M. M. Ababneh and M. Q. Husein.

## **PROFESSIONAL ACTIVITIES (since arrival at JUST University)**

### **Reviewer of manuscripts for the following Journals:**

- Theriogenology
- Small Ruminant Research
- Reproduction in Domestic Animals
- Reproduction Nutrition Development
- Jordan Journal of Agricultural Sciences
- American Journal of Animal and Veterinary Sciences
- Iranian Journal of Applied Animal Science
- Asian-Australasian Journal of Animal Sciences

### **Book Reviewer:**

- Dairy Cattle Production (Course number 2448), Al-Quds Open University, first edition 2002.
- Sheep Production (Course number 2446), Al-Quds Open University, second edition 2004.

### **Chairpersons for international scientific meetings:**

- Chairperson for scientific oral presentation sessions of the 15th AAAP ANIMAL SCIENCE CONGRESS. Concurrent Session 5, Physiology and Health Care on the 26th November 2012, 15:30 to 17:30 pm Room No. 215, Learning Center (LC) 4 Thammasat University (Rangsit Campus), Bangkok/Pathum Thani, Thailand.
- Chairperson for scientific oral presentation sessions of the 58th annual meeting of the European association for Animal Production. 2007. Dublin, Ireland.
- Chairperson for scientific oral presentation sessions of the 6th scientific day of the Faculty of Agriculture, 2006. Jordan University of Science and Technology. Irbid – Jordan.

### **Committee Participation**

**Several Departmental and College and University Committees including:**

- Member and/or head of the Department of Animal Production Council (from September 1997 to PRESENT).
- Member of the Quality Committee for Scientific Centers at Jordan University of Science and Technology 2015/2016.
- Member of the Consultative Center for Science and Technology Council at Jordan University of Science and Technology 2013, 2014, 2015, 2016.
- Member of the disciplinary committee of faculty members at Jordan University of Science and Technology 2014/2015, 2015/2016.
- Member of the Committee of Graduate Studies in the Faculty of Graduate Studies at Jordan University of Science and Technology 2012/2013.
- Member of the Jordan University of Science and Technology Council 2011/2012.
- Rapporteur and a member of many faculty promotion committees for associate professor and professorship at JUST and other universities 2000 to 2016.
- Chairman of the graduate Studies Committee/Department of Animal Production 2005 to 2009.
- Member of the Commission on the Status Study Plans and Course Description of the Faculty of Agriculture/Ajloun National University (Bachelor of Science in Animal Production/Specialty: Dairy Production), for the Year 2006 Award of the Agricultural Engineers Association.
- Member of the Commission on the Status Study Plans and Course Description of the Faculty of Agriculture/Ajloun National University (Bachelor of Science in Animal Production/Specialty: Poultry Production), for the Year 2006 Award of the Agricultural Engineers Association.
- Member of the Animal Care and Use Committee (ACUC) at Jordan University of Science and Technology (2005 to 2009).
- Member of the Commission (Reviewer) in the first World Conference on diseases of sheep and goats productivity. College of Veterinary Medicine / Jordan University of Science and Technology. 23-25/ 10/1999.
- Member of the Animal Production Council, Ministry of Agriculture Amman-Jordan for 4 years (2005-2009).
- Member of the Faculty of Agriculture Council for 7 years.
- Rapporteur of the graduate Studies Committee/Department of Animal Production. For 6 years.
- Rapporteur of the student Affairs Committee/Department of Animal Production & Faculty of Agriculture for 4 years.
- Rapporteur of the research Committee/Department of Animal Production & Faculty of Agriculture for 4 years.

- Member of the library Committee/Department of Animal Production for 2 years.
- Member of the social Committee/Department of Animal Production & Faculty of Agriculture for 2 years.
- Education Committee/Department of Animal Production for 1 year.
- Consultation Committee/Department of Animal Production for 1 year.
- Science and Education Committee/Department of Animal Production & Faculty of Agriculture for 1 year.

### **Other Activities:**

- Convener and instructor of many training courses and workshops in enhancing reproductive efficiency and in freezing semen and artificial insemination and pregnancy diagnosis of sheep and cattle held at the Consultative Center for Science and Technology at Jordan University of Science and Technology Irbid, Jordan, 2013-2016.
- Convener and Coordinator of many training courses and workshops in enhancing reproductive efficiency of ruminants for the Ministry of Agriculture and Badia projects at Mafraq, Kura, Ramtha, Jordan Valley, 1998-2015.
- Convener and Coordinator many training courses in freezing semen and artificial insemination and pregnancy diagnosis for Ministry of Agriculture personnel 1998-2015.
- Participated in arbitration Agricultural Engineers Association Award competition for scientific research and beacon for 2008/2009, 2017/2018.
- A lecturer on "reproduction management in sheep and goats" in a workshop entitled "Modern methods of raising sheep and goats" within the animal and pasture resources research, which was held at the National Center for Agricultural Research Program and transfer of Technology, during the period of 4-5/ 2/2007.
- A lecturer on reproduction in goats in a workshop entitled "Goat administration" within Livestock Research and range land which was held at the National Center for Agricultural Research Program and transfer of Technology, during the period of 8-9/ 3/2006.
- A lecturer on "Reproduction management in sheep" in the workshop of the regional work of the project, which was held at the Agricultural Center for Research and Training and guidance on 26/7/2006 in Sikhra- Ajloun.
- A Lecturer at the workshop entitled "estrus synchronization and enhancing the twinning percentage in sheep and goats." Agricultural Engineers Association. Amman-Jordan 8/2001.

- Seminar at the second Conference of Biotechnology in Jordan, "reality and prospects" scientific paper entitled "Artificial insemination of ewes using frozen semen dissolved: gonadotropin effect of the plasma on the rate of pregnancy outside of the breeding season." Al-Bayt University, Jordan. 23-24 / 03/1999.
- A Lecturer at the workshop entitled "genetic improvement and mating in small ruminants: IVF cycle in the genetic improvement." Agricultural Guidance and Information Directorate. National Center for research and technology transfer. Ministry Of Agriculture. Spot-Jordan. 28-30 / 10/1997.

### **HONORS AND AWARDS:**

- 2017 The Jordanian Agricultural Engineers Association Professional Expert Award, in the field of Animal Production.
- 2009 The Arab Organization for Agricultural Development (AOAD) Prize for Scientific innovation in Agricultural Field Award for the research entitled "A new strategy for superior reproductive performance of ewes bred out-of-season utilizing progestagen supplement prior to withdrawal of intravaginal pessaries".
- 2009 The distinguished scholar award of the Arab Fund Fellowship Program, Kuwait.
- 2002 The Hisham Hijjawi Award for Applied Sciences in the Field of Agriculture, Amman - Jordan.
- 1995 Gamma Sigma Delta Distinguished Graduate Students Award. University of Minnesota, St. Paul, MN USA.
- Sep. 1992-Aug. 1997: Master and Doctoral Fellowship. Jordan University of Science and Technology, Irbid-Jordan.
- 1983 Honor of the Degree of B. Sc., Faculty of Animal Husbandry. University of Agriculture, Faisalabad - Pakistan.

### **PROFESSIONAL SOCIETIES and MEMBERSHIPS:**

- 2013–2018: Chairman of the Board of clan, president of Beni-Domi clan council, Community Social Work, Kufr Al-Ma, Irbid - Jordan.
- 2015 Al-Emdad Association for Needy Care, Kufr Al-Ma, Irbid - Jordan
- 2004 Al-korah Educational Forum, Al-korah, Irbid - Jordan.
- 1995 Gamma Sigma Delta Honor Society, USA.
- 1992 American Society of Animal Science, USA.
- 1984 Jordanian Agricultural Engineers Association, Jordan.

## PUBLICATIONS

### Referred Journal Articles:

1. **M.Q. Husein**, and J. S. Issa. **2018**. Effect of progesterone and dopamine agonist (bromocriptine) on reproductive responses of Awassi ewes. *American J. Anim. Vet. Sci. (Submitted)*.
2. **M.Q. Husein**, and G. J. Al-Rabadi. **2017**. Time of ovulation in progesterone-primed or non-primed Awassi ewes synchronized using GnRH-PGF2 $\alpha$  with or without royal Jelly. *Theriogenology (Submitted)*.
2. **M.Q. Husein**, J.E. Wheaton and L.A. Adams. **2017**. The effect of progesterone supplement on fertility of seasonally anestrous ewes. *Jordan J. Agri. Sci (Submitted)*.
3. 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. *Reprod. Dom. Anim.* 48(2):223-230.
4. Al-Omari H.Y., Ababneh M.M. and **Husein M.Q.** **2012**. Endocrine response tests for fertility assessment in Awassi rams in Jordan. *Jordan J. Agri. Sci.*, 8(2): 166-179.
5. **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 15<sup>th</sup> AAAP animal Science Congress. 26-30 Nov. 2012. Asian-Aust. J. Anim. Sci (supplement) 2220-2225.*
6. 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. *S. A. J. Anim. Sci.*, 39 (supplement 1): 15-18.
7. **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. *Theriogenology*, 69: 376-383.
8. Kridli R. T., **Husein M. Q.** and Abdullah A. Y. **2008**. The effect of face color and lactation status on reproductive performance in Awassi ewes treated with fluorogestone acetate sponges and eCG. *10th World Conference on Animal Production, World Association for Animal Production, Cape Town, South African; 11/2008. Volume: Number 4/ pp 57.*
9. **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-of-season. *American J. Anim. Vet. Sci.*, 2(3): 55-61.
10. **Husein M. Q.**, M. M. Ababneh, and D. S. Abu-Ruman. **2007**. The effects of short or long term FGA treatment with or without eCG on reproductive performance of ewes bred out-of-season. *American J. Anim. Vet. Sci.*, 2(1): 23-28.
11. Kridli R.T., **M. Q. Husein**, and A. Y. Abdullah. **2007**. Induction of oestrus in Awassi ewes in the Jordanian Badia using intravaginal progestagen sponges and eCG. In: *Improving desert resource management. A book on Research in Jordan's Badia by R. Dutton and M. Shahbaz. London UK. Chapter 32.*

12. Alnimer M.A., and **M. Q. Husein. 2007**. The effect of progesterone and oestradiol benzoate on fertility of artificially inseminated repeat-breeder dairy cows during summer. *Reprod. Dom. Anim.* 42: 363-369.
13. **Husein M. Q.**, and H.A. Ghozlan. **2007**. The effect of royal jelly and/or equine chorionic gonadotropin on reproductive responses of seasonally anestrous Awassi ewes induced to estrus using progesterone. *Jordan J. Agri. Sci.*, 3(1): 41-51.
14. Ababneh M.M., Alnimer M. A. and **Husein M. Q. 2007**. Effect of Post Insemination Progesterone Supplement on Pregnancy Rates of Repeat Breeder Friesian cows. *Asian-Asian-Aust. J. Anim. Sci.*, 20(11):1670-1676).
15. **Husein M.Q.** and Haddad S.G. **2006**. A new approach to enhance reproductive performance in sheep using royal jelly in comparison with equine chorionic gonadotropin. *Anim. Reprod. Sci.* 93 24-33.
16. Kridli R. T., **M. Q. Husein**, Muhdi H. A. and Al-Khazaleh J. M. **2006**. Reproductive performance of hormonally-treated anestrous Awassi ewes. *Anim. Reprod.*, 3(3): 347-352.
17. Haddad S. G., **Husein M. Q.** and Sweidan R.W. **2006**. Effects of castration on growth rate and carcass characteristics of fattening Awassi lambs. *Small Rumin. Res.* 65: 149-153.
18. **Husein M. Q.**, Ababneh M. M. and Haddad S. G. **2005**. The effects of progesterone priming on reproductive performance of GnRH-PGF<sub>2α</sub>-treated anestrous goats. *Reprod. Nut. Dev.* 45: 689-698.
19. Ababneh M. M., **Husein M. Q.** and Zuhdi K. **2005**. Effect of Recombinant Bovine Somatotropin on Pregnancy Rate and Hormonal Profile in Estrous-Synchronized Awassi sheep, 2005. *6<sup>th</sup> International Sheep Veterinary Congress. Greece*, 17-21 June, Proceedings, pp: 119-120.
20. Haddad S. G. and **Husein M. Q. 2004**. Effect of dietary energy density on growth performance and slaughtering characteristics of fattening Awassi lambs. *Livest. Prod. Sci.* 87: 171-177.
21. **Husein M. Q.** and Kridli R.T. **2003**. Effect of progesterone prior to GnRH-PGF<sub>2α</sub> treatment on induction of estrus and pregnancy of Awassi ewes. *Reprod. Dom. Anim.* 38: 228-232.
22. Kridli R. T., **Husein M. Q.** and Humphrey W. D. **2003**. Effect of royal jelly and GnRH on estrus synchronization and pregnancy rate of ewes using fluorogestogen acetate sponges. *Small Rumin. Res.* 49(1):25-30.
23. **Husein M. Q.** and Kridli R.T. **2002**. Reproductive responses following royal jelly treatment administered orally or intramuscularly into progesterone treated Awassi ewes. *Anim. Reprod. Sci.* 74(1-2): 45-53.
24. **Husein M. Q.** and Kridli R.T. **2002**. Reproductive responses of Awassi ewes treated with either naturally occurring progesterone or synthetic progestagen. *Asian-Aust. J. Anim. Sci.*, 15(9):1257-1262.

25. Abdullah A. Y., **Husein M. Q.** and Kridli R. T. **2002**. Protocols for estrus synchronization of Awassi ewes under the Badia conditions. *Asian-Aust. J. Anim. Sci.* 15(7): 957-962.
26. Haddad S. G. and **Husein M. Q.** **2001**. Nutritive value of lentil and vetch straws as compared with alfalfa hay and wheat straw for replacement ewe lambs. *Small Rumin. Res.* 40: 255-260.
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2. **M.Q. Husein**, J.E. Wheaton and L.A. Adams. **2012**. The effect of progesterone supplement on fertility of seasonally anestrous ewes. *International Food, Agricultural and Gastronomy Congress.* Antalya-Turkey. Book of Abstracts pp 252-253.
3. **Husein M.Q.**, Ababneh M. M. and Ghozlan H.A. **2008**. Induction of Pregnancy and Lambing in Barren Ewes Using Progesterone Supplement. The international Conference on Agricultural research. 28-31/8/2008. Athens-Greece.
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