



CURRICULUM VITAE OF Dr. Sajeda M. Eidan

PERSONAL

Address: Department of Animal Production, College of Agriculture,
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Marital status: Married with PhD husband.

Date of Birth: 12/9/1970

Nationality: Iraqi

Sex: Female

Languages: Arabic and English (reading and writing)

PROFESSIONAL

I- Academic Training

A. Degree Programs:

1. B.Sc. in Animal Production, University of Baghdad, Iraq, 1992.
2. M.Sc. in Animal Production, Reproductive Physiology, University of Baghdad, Iraq, 1998.
3. PhD in Animal Production, Reproductive Physiology and Biotechnology, University of Baghdad, Iraq, 2008.

II- Professional Experience:

A. Positions Held:

Currently, Assistant Professor Department of Animal Production, University of Baghdad (September 2009 to present).

Lecturer, Department of Animal Production, University of Baghdad (October 2002 to September 2009).

- Assistant lecturer, Department of Animal Production, University of Baghdad , (October , 1998 to March 2002).
- B.Sc. Researcher, Department of Animal Resources, University of Baghdad (July, 1993 to October, 1996).

Area of Interest

1. Early detection of pregnancy and embryonic mortality in cattle and buffalo using pregnancy-specific protein B (PSPB) and Ultrasonography.
2. Improvement of semen quality and quantity using hormonal and nutritional methods in bulls, rams and goats.
3. Factors influenced spermatogenesis, puberty and testicular development in Bulls, ram and bucks.

III- Professional Activities

A. Teaching:

As a Assistant Professor in Animal Physiology, I am teaching reproductive physiology and artificial insemination courses –

practical part, and that concern with the anatomy of animal reproductive tract, semen collection and evaluation of bulls, bucks and rams as well as method conducted to improve conception rate and fertility in farm animals. These courses include pregnancy detection of cattle through rectal palpation. I am also teaching the practical part of Advance Reproductive Physiology graduate course offered in the Department of Animal Resources. At the same time, I am teaching the theory and practical part of Animal Physiology dealing with the different blood analysis methods and body organs of sheep, goats and cattle. During the last period, I am teaching "The Advance Technologies in Animal Reproduction" including embryo transfer, *In vitro* fertilization, cloning as well as early detection of pregnancy and embryo transfer using pregnancy – specific protein B (PSPB) in cattle, buffalo, sheep and goats using ELISA technique.

B. Research Program:

My research program has focused on using of hormonal treatments to improve the reproductive performance and reducing the embryonic mortalities in sheep and goats were obtained an excellent results in this field. The other side of the program is dealing with the improvement of semen quality of rams, bucks, and bulls especially that dealing with the hormonal treatment and nutritional supplementation for increasing sperm output in these species as well as the improvement of fertility and reproductive and productive performance of ewes and does using the hormonal treatments and some vitamins like A and C. Now I'm working in the

purification and characterization of some buffalo, cattle, goats and sheep placental proteins used to early pregnancy diagnosis of these animals. Two years ago, I have worked in cooperation with Professor Garth Sasser (BioTracking, LLC) for discovered a new method for early pregnancy detection in buffalo and to develop the method of early pregnancy, embryonic mortality and dystocia in Holstein cows using ELISA technique. Now we are planning to produce kits of early detection of pregnancy and embryonic mortality in cows (Day 28-30 post-mating), ewes (Day 22-26 post-mating), doe (Day 26-28 post-mating) and buffaloes (Day 22-26 post-mating) for the first time in Middle East. The early detection of pregnancy and early embryonic mortality using this kit can help owners in the management of reproduction and it aids clinicians and researchers in their investigations to establish differential diagnosis of pathologies affecting pregnancy, leading to reduce the costs of feeding and veterinary drugs and owner income consequently. During the past 15 years, I have authored more than thirteen publications (List included).

C. Other Activities:

During the past 12 years, I worked in many private and research stations of sheep and goat as consultant for improve the reproductive and reproductive performance. My work in these stations was concentrate on the improvement of twinning and fertility rates as well as semen quality. I have worked as a researcher in the Goat Breeding Station (GBS), IPA Agricultural Research center for improving the productive efficiency of both males and females. During 2004-2006, I have worked as researcher in "Al-Nasr Dairy Cattle Station", The United Company for Livestock

services for early detection of pregnancy and embryonic mortality (Day 28-30 post mating) and early prediction of dystocia in cattle using PSPB. On the other hand, I worked in the field of the extraction of reproductive hormones and analysis of blood parameters (enzymes, fructose, citric acid, total protein and fractionations). Now, I am doing a work dealing with reducing heat stress during summer to improve reproductive efficiency of small and large ruminants by use of antistress treatments suitable for the hot climate. On the same manner, during the last 3 years I have extensively working in the field of Holstein cattle's reproductive physiology, throughout the use of some placental proteins in the early pregnancy and embryonic mortality diagnosis. Now, I have many new projects in the fields of improving semen quality, libido and fertility of male and female local and Cyprus goats in the " Sheep and Goats Station", State Board of Agricultural Research, Ministry of Agriculture.

SYMPOSIUM AND CONFERENCES:

- 1- Participation and presentation of paper in the second Scientific Conference of Agricultural Research (Animal Production) 2-3 Nov., Baghdad, Iraq (1999).
- 2- Participation and Presentation of paper in the 5th Scientific Conference of Agricultural Research (Animal Production) , 22-24 March , Baghdad , Iraq (2003).

- 3- Participation in symposium of Advanced Technologies in Reproduction. Amman, Jordan, 12-14 October, 2007.
- 4- Participation of training course for RIA and ELISA, Amman, Jordan, 1st September – 1st October, 2007.
- 5- Participation in the lecture “Buffalo breeding in Iraq, Problems and solutions”, Ministry of Agriculture, 14th August, 2008 issued by Iraqi Animal Production Society.
- 6- Participation and Presentation of lecture "New reproductive strategies for dairy cattle in Iraq ": A symposium held by Iraq Society of Animal Production in cooperation with the Council of Baghdad Province. 11th January, 2009.
- 7- Participation as a lecturer in the training course (Embryo transfer techniques in cattle) that held in Baghdad, 14th Feb. to 3rd March, 2010 under patronage of Biotechnology Research Center, Al-Nahrain University and FAO.
- 8- Preparation the curriculum and lectures presentations and field trips concerning sheep and cattle reproduction, nutrition, feedlots schemes and management practices to owners and veterinarians behalves to Iraqi Red Meat Association (IRMA) in cooperation with USDA during October, 2010 – July, 2011.

9- Participation in International Animal Science Congress of Turkish and Relative Communities in Suleiman Demirel University, Isparta , Turkey, September, 11-14, 2012.

Training Programs:

Training courses that supervised:

Title	Organization	Location	Year
Improve the reproductive performance of Awassi sheep and local and Damascus goats	Iraqi Atomic Organization	Iraq	1999
Sheep, goat and dairy cattle nutrition and management in collaboration with USDA and Texas A&M and Michigan State Universities, USA	Iraqi Red Meat Association	Iraq	2009-2012
Iraq Agricultural Extension Revitalization (IAER) training \program in Texas A&M University, USA,	Texas A&M University, USA,	USA	2009
Ruminant Nutrition and Extension Methodology"	Iraq Agricultural Extension Revitalization Project in cooperation with Borlaug Institute, Texas A&M University, USA	Iraq	2010
Development the knowledge of Iraqi AI staff.	World Wide Sires Company, California, USA.	Iraq	2011
Embryo Transfer in Cattle	Directorate of Agricultural Extension and Training and AI Department, Ministry of Agriculture	Iraq	2013
Improving Reproductive Efficiency of Dairy Cattle	College of Agriculture, University of Baghdad	Iraq	2014

Training courses participated in with certification:

Title	Organization	Location	Year
Training program on radioimmunoassay and ELISA	University of Jordan	Jordan	2007
Embryo transfer techniques in cattle	FAO and Al-Nahrain University	Iraq	2010
Artificial Insemination and Dairy Cattle Management	World Wide Sires Company, California, USA	Iraq	2011
Embryo Transfer in Cattle	Directorate of Agricultural Extension and Training, Ministry of Agriculture	Iraq	2013
Cell Culture and Flow Cytometry Workshop.	Laboratory of Vaccines and Immunotherapeutic, Institute of Bioscience, UPM	Malaysia	2013
Training Program in Theriogenology and Cytogenetic	Laboratory of Theriogenology and Cytogenetics, Faculty of Veterinary Medicine, UPM	Malaysia	2013

Membership in societies and organizations

1. Member in Iraqi Society of Animal Production (ISAP).
2. Founder and member in Iraqi Red Meat Association (IRMA).
3. Lead Faculty (Physiology) in WebMed Central Organization, UK.
4. Member in International Veterinary Information Service (IVIS), USA.

Languages:

- Arabic - Excellent. (native)
- English - Very good.

PUBLICATIONS:

Books

- 1- The march of the artificial insemination in Iraq (1955-2014), (Arabic and English Languages), Ministry of Agriculture Publisher, 2014.
- 2- Buffalo Production (Arabic language), University of Baghdad Publisher, 2018.
- 3- Normal Values of Different Animal Species (English language), University of Baghdad Publisher, 2018.
- 4- Evaluation of Artificial Insemination activities for cattle in Iraq: Survey study. 2015.
- 5- Buffalo Breeding in Iraq: Analytical Study for Prospective and Perspective. 2017.

Chapters in Books

- 1- Ectopic pregnancy: Diagnosis, Prevention and Management. In: Obstetrics, InTech Open, 2017.
- 2- Uterine Prolapse. In Bubaline Theriogenology, IVIS, 2018.

Research Papers

Eidan, S.M. 1998. Effect of some hormonal treatments on reproductive performance in goat. M.Sc. Thesis, College of Agriculture, University of Baghdad.

Hamra, A.H.; Al-Haboby, A.H. and **Eidan, S.M.** 1999. Effect of some hormonal treatments on reproductive performance in goat , Iraqi J. Agric. (Special Issue) , 4 (6) : 152-162. Proc.

2nd Sci. Conf., (Animal Production) , 2-3 Nov. Baghdad ,
Iraq.

Ishak , M.A. ; **Eidan, S.M.** ; Nasir , A.E ; Issa , I. A. 2002 . Some factors affecting calving interval in herd of Friesian cows in Iraq . Iraqi J. Agric. Sci., 33 (2): 189-194.

Eidan, S.M. 2002 . The correlations between semen characteristics and enzyme activity as affected by vitamin A deficiency in Awassi rams. Iraqi J. Agric. Sci., 33 (6): 261-266.

Al-Khazraji , A.A. ; Hobi , A.A. and **Eidan, S.M.** 2002 . The chemical analysis of *Urtica dioica* and its effect on serum proteins in broilers . Iraqi Agric. J., 7 (6): 42-49.

Abdulkareem, T.A. ; **Eidan, S.M.** ; Hamra , A.H. and Al-Haboby , A.H. 2003. Effect of post – mating gonadotropin injection on serum proteins in Iraqi goats. Iraqi J. Agric. (Special Issue) , 8 (6) : 88-94. Proc. 5th Sci. Conf. , Animal Production , 22-24 Feb., Baghdad , Iraq.

Al-Haboby, A.H.; Abdulkareem, T.A. and **Eidan, S.M.** 2004. Morphometric observation on the epididymis of Awassi ram lambs Associated with vitamin A supplementation. J. Sc. Tech., 5 (1) : 145-161.

Abdulkareem, T.A. ; Al-Haboby , A.H. ; **Eidan, S.M.** and Hobi , A.A. 2004. Sperm abnormalities associated with vitamin A

deficiency in rams . Small Ruminant Research , ,57 : 67 – 71.

Alkass, J.E.; Abdulkareem, T.A. and **Eidan, S.M. 2004.** Reproductive performance of Iraqi Awassi ewes in response to treatment with equine chorionic gonadotropin. J. Agric. Invest. 2 : 74 – 77.

Ishak , **M.A., Eidan, S.M.** ; Magid , S.A. and Ibrahim , F.F. **2005 .** Changes in certain seminal attributes and sexual activity of Holstein – Friesian bulls in response to vitamin C supplementation. Iraqi J. Agric., 9 : 187-194.

Eidan, S. M. 2008. Quantitative determination of pregnancy-specific protein B (PSPB) using ELISA technique and its applications for early diagnosis of pregnancy, embryonic mortality and dystocia in Holstein cows. PhD dissertation, College of Agriculture, University of Baghdad.

Abdulkareem, T.A., Al-Sharifi, S.A.M., **Eidan, S.M. 2009.** Improving some of the reproductive and productive performance of Iraqi buffaloes using improved nutritional regimen. 6th Asian Buffalo Congress, Lahore, Pakistan, 27-30 October, 2009.

Abdulkareem, T.A.; Al-Sharifi, S.A.M.; Ishak, M.A.; **Eidan, S.M.;** Alnimr, M.A.; Passavant, C.W.; Branen, J.R. And Sasser, R.G **2011.** Early pregnancy diagnosis of Iraqi riverine buffaloes using BioPRYN enzyme-linked immunosorbent

assay for PSPB and progesterone assay. *Reprod. Dom. Anim.*, 46: 455 – 462.

Abdulkareem, T.A., Al-Sharifi, S.A.M., **Eidan, S.M.** and Al-Amily, H.J. 2011. Testicular measurements and sexual activity of Awassi rams and their crosses with D'man sheep. *Dirasat Agric. Sci.*, 38: 23-27.

Abdulkareem, T.A., Al-Sharifi, S.A.M., **Eidan, S.M.** and Sasser, R.G. 2011. Productive and reproductive performance of Iraqi buffalo as influenced of pre-mating and pre-calving concentrate supplementation. *Pakistan Vet. J.*, 32

Abdulkareem, T.A.; **Eidan, S.M.**; Ishak, M.A.; Al-Sharifi, S.A.M.; Alnimr, M.A.; Passavant, C.W.; Branen, J.R. And Sasser, R.G **2012**. Pregnancy- specific protein B (PSPB), progesterone and some biochemical attributes concentrations in the fetal fluids and serum and its relationship with fetal and placental characteristics of Iraqi riverine buffalo (*Bubalus bubalis*) . *Anim. Reprod. Sci.*, 130: 33-41.

Eidan, S. M., Khalaf, S.S., Ishak, M.M., Passavant, C.W. Abdulkareem, T.A., and Sasser, R.G. **2012**. Early pregnancy detection of dystocia of Holstein cows using BioPRYN enzyme-linked immunosorbent assay for PSPB. Accepted in International Congress of Animal Reproduction, Vancouver, Canada.

Abdulkareem, T.A., **Eidan, S.M.**, Al-Sharifi, S.A.M., Ishak, M.A., Alnimr, M.A., Passavant, C.W. Branen, J.R. and Sasser, R.G. 2012. Assessment of plasma profile of pregnancy specific protein B (PSPB) and progesterone in Iraqi riverine buffalo (*Bubalus bubalis*) throughout gestation and post-partum periods. Accepted in International Congress of Animal Reproduction, Vancouver, Canada.

Eidan, S. M., Abdulkareem, T.A., Jabor, M.M., Shareef, M.A., 2012. Effect of different dietary protein levels on productive performance and some blood characteristics of Iraqi buffaloes. International Animal Science Congress of Turkish and Relative Communities, Isparta, 11-13 September. pp. 240-251.

Abdulkareem, T.A., Eidan, S.M., **Mahmoud, F.A. and Al-Anbari, N.N.** 2012. Influence of propolis extract treatment on some blood mineral levels of Turkish Awassi lambs. Diyala Agricultural Science Journal, 4: 9-16.

Eidan, S.M., **Khalaf, S.S.**, Ishak, M.A., Abdulkareem, T.A., Sasser, R.G., Passavant, C.W., Alnimer, M.A. 2012. Early pregnancy detection of Holstein cows using BioPRYN enzyme-linked immunosorbent assay for PSPB and the progesterone assay. International Animal Science Congress of Turkish and Relative Communities, Isparta, 11-13 September.

Abdulkareem, T.A., Eidan, S.M., Al-Maliki, L.A., Al-Saidy, F.K., Khudair, A.K. 2012. Effect of Concentrate diet on milk

production in Iraqi buffaloes: Extension trial. 3rd Annual Iraqi buffalo Congress, 20 Dec. pp.13-23.

Abdulkareem, T.A., **Eidan, S.M.**, Al-Maliki, L.A., Al-Saidy, F.K., Mahdi, M.R. 2013. Reproductive performance of Iraqi Awassi ewes owned by producers and extension farms in response to flushing and estrous synchronization regimes. (Submitted to the 1st Scientific Conference for Animal Production and Technology, Iraq, Nov., 10-11th).

Abdulkareem, T.A., **Eidan, S.M.**, Al-Maliki, L.A., Al-Saidy, F.K., Mahdi, M.R. 2014. Reproductive performance of Iraqi Awassi ewes owned by producers and extension farms in response to flushing and estrous synchronization regimes. The Iraqi J. Agric. Sci., 45 (3): 328-334.

Eidan, S.M., Abdulkareem, T.A., Ibrahim, F.F., Heraish, K.F. 2015. Effect of post foot and mouth disease infection on some semen attributes and blood biochemical parameters in Friesian-Holstein bulls. (Submitted to Al-Anbar J. Vet. Sci.).

Abdulkareem, T.A., Abdulrahman, Y.T., Al-Rawi, H.M.A. and **Eidan, S.M.** 2015. Early pregnancy detection of Iraqi female camel (*Camelus dromedarius*) using different methods. 7th Balkan Animal Science Conference (BALNIMALCON), Sarajevo, Bosnia and Herzegovina, 3-6th June, 2015.

Eidan, S.M., Abdulkareem, T.A. and Sultan, O.A.A. 2015. Effect of adding manganese to Tris extender on some post-cryopreservation semen characteristics of Holstein bulls. 7th

Balkan Animal Science Conference (BALNIMALCON),
Sarajevo, Bosnia and Herzegovina, 3-6th June, 2015.

Eidan, S.M., Abdulkareem, T.A. Al-Maliki, L. A., Al-Saidy, F.K., Al-Hassani, N.K.H. and Madhi, R.M. 2015. Effect of whole cottonseed on milk production of Iraqi buffaloes: Extension trial. 5th Scientific Conference for Developing Iraqi Buffalo, April, 23rd, Baghdad, Iraq.

Eidan, S.M., Abdulkareem, T. A. and Sultan, O. A. 2015. Influence of adding manganese to Tris extender and post-cryopreservation semen attributes of Holstein bulls. International Journal of Applied Agricultural Sciences, 1: 26-30.

Abdulkareem, T. A., **Eidan, S. M.,** Al-Saidi, F. K., Al-Hassani, N. K. and Jabbar, K. S. 2015. Effect of feed blocks on improving milk yield and lambs weight of Iraqi Awassi sheep and increasing milk and meat produced for consumers: Extension trial. Journal of Market Researches and Consumer Protection, 7(2): 291-308.

Eidan, S. M., Al-Zaidi, O. H., Ibrahim, F. F., Al—Timimi, B. A. R. and Lateef, W. E. 2015. Effect of adding catalase and glutathione reduce to Tris extender on freezing ability of Holstein bulls following different cryopreservation periods. The Iraqi J. Vet. Med., 39 (2): 19-24.

Eidan, S. M. and Al-Jashami, A. S. 2016. Effect of ovulation synchronization with Ovsynch program on reproductive performance and blood parameters in Holstein cows. Al-Anbar

J. Vet. Sci., 9 (2): 31-44.

Eidan, S. M. 2016. Effect on post-cryopreserved semen characteristics of Holstein bulls of adding combinations of vitamin C and either catalase or reduced glutathione to Tris extender. Anim. Reprod. Sci., 167: 1-7

Eidan, S.M., Ibrahim, F. F., Abdulkareem, T.A. and Heraish, K.F. 2017. Effect of post foot and mouth disease infection on some semen attributes and blood biochemical parameters in Friesian-Holstein bulls. International Journal of Nature and Science, 8(3): 557-560.

Hussein, A. K., Ibrahim, S. S., **Eidan, S. M.** and Abdulkareem, T. A. 2017. Effect of dietary flaxseed and sesame seed supplementation on plasma lipid profile of Awassi lambs. Al-Anbar J. Vet. Sci., 10 (1): 123-130.

Eidan, S. M., Khalil, R. I. and Ali, Z. H. 2017. Effect of melatonin implantation on Semen quality Holstein bulls:1- Ejaculate volume and Total normal morphology sperm. Al-Anbar J. Vet. Sci., 10 (1): 145-153.

Eidan, S. M., Khalil, R. I. and Ali, Z. H. 2017. Effect of melatonin implantation on semen quality Holstein bulls:2- Total number of motile sperm and integrity plasma membrane. Al-Anbar J. Vet. Sci., 10 (1): 154-167.

- Eidan, S. M.**, Sultan, O.A. A., Ibrahim, F. F., Hurish, K. F. and Naseer, H. H. 2017. Effect of adding Manganese chloride and Co-enzymes (α -lipoic acid and Q10) on post-cryopreservation semen quality characteristics of Holstein bulls. *The Iraqi J. Vet. Med.*, 41 (2): 86-93.
- Mohsin, A. S. and **Eidan, S. M.** 2019. Effect of adding antioxidants to Tris extender on cooling and post-cryopreservative semen characteristics of Holstein bulls. 2. *Salvia officinalis* aqueous extract. *Biochem. Cell Arch.*, 19 (1): 1157-1164.
- Al Dulaimy, M. T., **Eidan, S. M.** and Al Azzawi, S. H. 2019. Genetic polymorphism of heat shock protein gene (HSP90AA1) and association with characteristics of heat tolerance in bulls. *Biochem. Cell. Arch.*, 19 (1): 1605-1611.
- Mahmood, N. M., **Eidan, S. M.** and Khalil, R. I. 2019. Effect of melatonin hormone long-term cryopreserved semen Holstein bulls: 1. Individual motility, live sperms and plasma membrane integrity of sperm. *Biochem. Cell. Arch.*, 19 (1): 1423-1428.
- Mahmood, N. M., **Eidan, S. M.**, Khalil, R. I., Ibrahim, F. F., Latif, W. W. and Shihab, T. A. 2019. Effect of melatonin hormone long-term cryopreserved semen Holstein bulls: 2. Characteristics of Semen Holstein bulls. *Biochem. Cell. Arch.*, 19 (1): 1429-1434.