

CURRICULUM VITAE

PERSONAL INFORMATION:

- Name: **Khalid Ahmed Abd El-Sadek El-Bahrawy**
- Sex: Male
- Nationality: Egyptian
- Date of Birth: 29 May 1972
- Marital status: Married
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PROFESSIONAL EXPERIENCE

2012 - Till present Associate Professor.

As an *Associate Professor* in Maryout Research Station of the Desert Research Center (DRC), Ministry of Agriculture and Land Reclamation. **My duties are:**

- **Egyptian coordinator and principal investigator (PI) for a multinational developmental research project entitled "Promotion des systèmes camelins innovants et des filières locales pour une gestion durable des territoires sahériens » in cooperation with Tunisia, Italy and France. [Until May 2015].**
- **PI for a research project entitled "Application of Assisted Reproductive Technologies (ARTs) for Artificial, Insemination in Dromedary Camelids". [Ended in early 2013]**
- Planning, conducting and reporting field and laboratory experiments and projects, applied work on environmental, productive and reproductive physiology in farm and desert animals, contribution in training courses in the field of environmental and reproductive physiology, with a laboratory experience including biochemical analysis, enzymatic activity studies, semen and ova quality evaluation and collection, extension, freezing and thawing of animal semen and oocytes.

Artificial Insemination Lab:

- **Supervision of the artificial insemination lab in Maryout Research Station since 2003 until present**, and responsible of the reproductive performance of rams, bucks and camel bulls of the herd, regular evaluation of semen quality for selected sheep, goat sires and camel bulls, supervision the camel bulls barns for nutrition and management and semen collection and preservation as a routine work.. Also responsible of any breeding programs held in the research station, and assisting in conducting different experiments held by other colleagues in the field of semen evaluation or insemination.

Physiology Department in Maryout Research Station:

- As a physiologist in the station, my colleagues and I as a whole are responsible of the herd management particularly during different physiological stages of the herd as pregnancy and

lactation of ewes or breeding season in addition to assisting in the researches currently held in the station concerning different subjects like breeding, nutrition and lactation.

2006 – 2012 (Researcher) Lecturer in the Maryout Research Station, Desert Research Center.

2000 - 2005 Assistant Lecturer in the Maryout Research Station, Desert Research Center.

1996- 2000 Researcher Assistant in the Maryout Research Station, Desert Research Center

N.B.: Desert Research Center:

Desert Research Center (DRC): It is an academic research center, belongs to Ministry of Agriculture and Land Reclamation (Egypt), supports the research activities concerning the Agricultural, Animal and Poultry Production in Egypt, particularly in desert region and newly reclaimed areas for desert and farm animals, and also conducts undergraduate training and postgraduate research.

1994 – 1996 Temporary Researcher Assistant in the Sabahia Research Station, Agriculture Research Center.

N.B.: Agriculture Research Center:

Agriculture Research Center (ARC): It is an academic department supports the research activities concerning the Animal and Poultry Production in Egypt, particularly in Delta region for farm animals, and also conducts undergraduate training and postgraduate research.

EDUCATION AND QUALICATION:

2012- Till present (Associate Professor)

- Currently I am working on several current researches either individually or in a team work. These scientific researchers are mainly concerned with reproduction in farm animals; focusing on semen examination and processing as well as semen insemination and pregnancy diagnosis in different animal species e.g. desert animals; camels and doe goats and ewes in addition to large farm animals like cattle in order to maximize the reproductively and productivity of different species. In-addition to socio-economic studies.

2005 – 2012 (Researcher) Lecturer.

- Area of scientific interest: Physiological response of semen and ova to storage by different methods under different conditions, Productivity and reproductivity of growing desert animals under hashed conditions, Early pregnancy diagnosis in desert animals, adaptation of desert animals to desert conditions during different season of the year.

2000 - 2005 Ph.D. Faculty of Agriculture, Department of Animal and Fish production, Alexandria University. The project entitled: "Reproductive studies on desert animals: Studies on the artificial insemination of the dromedary camels." The practical work involved different laboratory techniques including, different methods of collecting semen from dromedary camels (Electric ejaculation & artificial vagina collection), evaluation techniques of physical parameters for semen as motility and concentration and abnormalities, evaluation techniques of biochemical parameters for semen & seminal plasma, different types of semen extenders applicable for camel semen preservation, and different methods of sperm preservation by different cooling and freezing programs.

1994 - 2000 M.Sc. Faculty of Agriculture, Animal Production Department, University of Alexandria, Egypt. My thesis was entitled "Studies On The Reproductive Physiology Of Farm Animals: Effect Of Season On Barki Ram Semen Freezability Under Desert Environmental Conditions". The study involved learning different skills including, semen collection, storage, processing and examination by light microscopy and new semen collection techniques and a biochemical study including photometer and electrophoresis technique.

**1990 - 1994 B.Sc. Faculty of Agriculture, Animal Production Department, University of Alexandria,
Egypt.:** Grade: V. Good with honor, ranking 2nd class of the Animal and Fish Production Dept.

TEACHING EXPERIENCE

- As an Associate Professor in the Maryout Research Station of the DRC, Ministry of Agriculture and Land Reclamation, Egypt, I participate in the training courses held by the Desert Research Centre for newly graduated cultivators in the newly reclaimed areas providing them with guidance and advices for animal production projects. I also participate in the presentation of AI lab and the semen processing to the undergraduate students during their visits to Maryout Station from various universities in Egypt, Michigan university visit to Egypt.
- In cooperation of the Ag-link organization with DRC, I act as a lecturer in the AI program given to the small breeders to update their knowledge by new technologies for reproduction.
- Lecturer in the international training course organized by the Afro-Asian Rural Development Organization (AARDO) entitled "Desertification studies in Egypt" held by the desert research center during October 2007, November 2008, November 2009 and November 2010 in Cairo, Egypt.

LANGUAGE SKILLS

ENGLISH Read: VG, Spoken: VG, Written: VG **FRENCH** Read: F, Spoken: F, Written: F
 (VG = Very Good, F = Fair) (VG = Very Good, F = Fair)

COMPUTER SKILLS

Competent with a variety of software packages for word processing (MS Word), spreadsheets (MS Excel) and power point presentation. Competent with internet

TRAINING COURSES:

- ***Bull Selection and Technology of Freezing Semen: (November 2000).*** In November 2000, held by El-Haram Reproductive Research Institute which belongs to Agriculture Research Center – Ministry of Agriculture and Land Reclamation. The course was about methodology of semen freezing and selection of bulls for AI programs.
- ***Improvement of Camel Production: (March 2002).*** During the period from 4/3/2002 to 15/3/2002, held in Rabat, Morocco, under the supervision of International Center for Advanced Mediterranean Agronomic Studies (CIHAM), Mediterranean Agronomic Institute of Zaragoza (IMAZ) and the Institute Agronomique et Veterinaire Hassan II of Morocco (IAV Hassan II) with the contribution of the European Commission (DGI). The course was tackled different subjects about camel production like nutrition, anatomy, physiology, reproduction, health.
- ***Avian, Fish and Rabbit diseases (Treatment and Curing): (March 2006)*** During the period from 12-16 March, 2006, held in Maryout Research Station, Desert Research Center. The course throws the light on different subjects such as health and diseases and curing of different avian species, rabbit and fish.
- ***Work shop on environmental pollutants, fertility and protection: (August 2007).*** During the period from 18 to 21 August 2007. held in Institute of Graduate Studies (IGSR), Alexandria University, Egypt in cooperation with Charite and Hohenheim Universities, Germany.
- ***Training Course on IVF in Cattle, (Oocyte Maturation and Evaluation): (March 2010)*** During the period from 23 to 25 March 2010. In the Embryo Transfer laboratory, Faculty of Agriculture,

Cairo University.

- **Training course on ICSI applications in equine:** (January 2011). During the period from 19 to 23 January 2011. In the ICSI laboratory, Faculty of veterinary science, Bari Univ., Italy

CONFERANCES & MEETINGS:

- **Physiological Response to Environmental Conditions (2004).** During 28-31 July 2004, held in El-Arish , Egypt by the Society of Physiological Sciences and Their Applications (SPSA). in association with Faculty of Environmental Agricultural Sciences, Suez Canal University.
- **International Scientific Camel Conference: (2006).** During 9-11 May 2006, held in El-Qaseem University in El-Qaseem region, KSA.
- **Bibliotheca Alexandrina 1st assembly of names (2008).** During 2-3 November 2008, held in Bibliotheca Alexandrina, Alexandria, Egypt.
- **The Second Conference of the International Society of Camelid Research and Development (2009).** Held in Djerba, Tunisia, during the period of 12-14 March 2009.
- **The second meeting for EU project preparation as the Egyptian coordinator (2009),** in Institut des Régions Arides (IRA), Mednine, Tunisia, during the period of 23-27 September 2009.
- **The International camel symposium (2010)** "Linking Camel Science and Development for Sustainable Livelihoods" in The Kenya Agriculture Research Institute (KARI), Garissa, Kenya, 7-11, June, 2010.
- **Scientific visit to the faculty of veterinary, University of Bari, Italy, (2011)** , during the period between 16 to 23 January 2011, for a tailored training course for ICSI system, monitoring PhD activities of Italian student as a member of advisory committee, preparing for international developmental project with University of Naples, University of Bari, Cairo University and Desert Research Center.
- **The International camel conference (2011).**the school of oriental and African studies [soas, london] camel cultures: historical traditions, present threats, and future prospects during the period of 23-24, May, 2011.
- **Sustainability of camel populations and production Conference (2013)**" During the period of 17th to 20th of Febrauary, 2013, King Faisal University, El Ehsaa, Saudi Arabia.

AWARDS:

- Awarded a post doctor mission for research grant to study embryo freezing and embryo transfer in Langston university, Oklahoma state , USA funded by U.S.-EGYPT SCIENCE & TECHNOLOGY JOINT FUND PROGRAM , JUNIOR SCIENTIST DEVELOPMENT VISITS **(Canceled for the lack of fund).**
- **Awarded a research project fund as a PI** of 567,000 LE (approximately 100,000 \$) for a research project entitled "Application of Assisted Reproductive Technologies (ARTs) for Artificial, Insemination in Dromedary Camelids" from the Agriculture Research Developing Fund (ARDF) in December 2009.
- **Egyptian coordinator for an international research project** 4.5 million LE (600,000 Euros) in cooperation with Tunisia, France, Italy submitted to the European union EU entitled "Promotion des systèmes camélins innovants et des filières locales pour une gestion durable des territoires sahéariens –**funded by** Cross-border cooperation within the framework of the Instrument European Neighbourhood and Partnership Instrument (ENPI).January 2011.

SPECIAL ACTIVITIES & RELEVANT INFORMATION:

- **Member in the advisory committee for an Italian student (Mr. Davaid Monaco):** registered for PhD degree in the faculty of veterinary, University of Bari, (Practical stage of work under my full supervision in Maryout Research Station during the period of May to September 2010 in the AI camel laboratory.
- **Member in advisory committee for an Egyptian student (Mr. Ahmed Kamel):** in the field of animal physiology and animal husbandry registered for Msc. degree in Cairo university and Alexandria University.
- **Member in advisory committee for an Egyptian student (Mr. Hassan Shafeey):** in the field of Agriculture extension registered for PhD degree in Alexandria University.
- **Associate Member in advisory committee for Egyptian student (Mr. Ibrahim Samir** in the field of animal physiology and animal husbandry registered for PhD degree in Alexandria University).
- **Member in the International Cooperation and Technical support unit (ICTS) in the DRC** for international scientific relations and fundraising opportunities, organizing and facilitating international workshop, collaborative work with public and private sectors, with experience in project formulation, technical development and budget allocation, execution, monitoring and proposal writing.
- **In the Preparatory stage** for the submission for the achieving of full professor degree during the academic year 2016/2017.
- Member of organizing committee of the international training course organized by the Afro-Asian Rural Development Organization (AARDO) entitled "Desertification studies in Egypt" held by the DRC in during November 2010.
- I am innovative, having the ability to judgment and ability to plan and organize activities; to work under pressure and in multidisciplinary and cultural teams.
- I am assisting in the technical work for bull semen collecting and processing in a scientific cooperation protocol between the Desert Research Center (DRC) represented in the artificial insemination lab of Maryout Research Station and the New Land Agriculture Service Project (NALSP) and the West Nubareia Rural Development Project (WNRDP). The projects aim to spread frozen semen doses of high genetic value (for Holstein Bulls) for livestock breeders in newly reclaimed areas.
- Assisted in the technical work for the innovation of a female camel dummy for camel semen collecting process, as a novel easy method for dromedary camel semen collection.

MEMBERSHIP:

- *Society of Physiological Sciences and Their Applications (SPSA).*
- *Society of Farmers for Rural Development (SFRD).*
- *International Society of Camelid Research and Development (ISOCARD)*
- *Egyptian Society of camel Sciences (ESCS).*

PUBLICATIONS

El - Bhrawi, K. A. (2000). Studies on the Reproductive Physiology of Farm Animals: Effect of Season on Barki Ram Semen Freezability Under Desert Environmental Conditions. **Msc. Thesis**, Fac. Agric. Alex. Univ. Egypt.

El - Bhrawi, K.A. (2005). Reproductive Studies on Desert Animals: Sexual Behaviour and Semen Characteristics and Freezability of Male Dromedary Camels. **Ph.D.Thesis**, Fac. Agric. Alex. Univ. Egypt.

1. **El-Bahrawy, K.A.**, El-Hassanein, E. E., Fathelbab, A., Zeitoun, M. M. and Yassen, A. M. (2004). Desert Climatic Effects on Freezability and Some Biochemical Constituents of Barki Ram semen. J. Agric. Sci. Mansoura Univ., 29(6):3123 – 3133.
2. El-Hassanien, E. E., **El-Bahrawy, K. A.** , Fateh El-bab, A. Z. and Zeitoun, M. M. (2004). Sexual Behavior and Semen Physical Traits of Desert Male Camels in Rut. J. Egypt. Vet. Med. Assoc., 64(4):305 – 321, June 2004.
3. **El-Bahrawy, K. A.** , El-Hassanien, E. E., Fateh El-bab, A. Z. and Zeitoun, M. M. (2006). Semen Characteristics of the Male Camel and its Freezability after Dilution in Different Extenders. International Scientific Camel Conference, 9-11 May, El-Qaseem, KSA. 2006.
4. **El-Bahrawy, K. A.** and **El-Hassanein, E. E.** (2009). Effect of Different Mucolytic Agents on Viscosity and Physical Characteristics of Dromedary Camel Semen . The Second Conference of the International Society of Camelid Research and Development. Djerba, Tunisia, 12-14 March 2009.(Abstract.)
5. **El-Bahrawy, K. A.** and **El-Hassanein, E. E.** (2009). Effect of Different Mucolytic Agents on Viscosity and Physical Characteristics of Dromedary Camel Semen. Alex. J. Agric. Res., Vol.54,No.3,pp.1-6.
6. **El Bahrawy, K. A.** (2009). The role of assisted reproductive technologies (ART) for saving of genetic resources and conservation of endangered mammalian species. Expert paper in : Training and Study Visit on Desertification, International training course , Afro-Asian Rural Development Organization (AARDO), Desert Research Center, Egypt, P. 72-78
7. **El-Bahrawy , K. A.** (2010). Modified methodology for viscosity elimination and cryopreservation of dromedary camel semen under different glycerol levels. The International camel symposium, Garissa, Kenya, 7-11, June (Abstract).
8. **El-Bahrawy, K. A.** (2010). Effect of Seminal Plasma Centrifugation for Viscosity Elimination on Cryopreservation of Dromedary Camel Semen. Nature and Science, Vol.8 (9):196 - 202
9. El-Hassanein, E. E., **El-Bahrawy, K. A.** Zaghloul, A. A. (2010). Artificial insemination and ovulation induction in dromedary she-camel. Nature and Science, Vol. 8 (9):203 – 208.
10. **El-Bahrawy, K. A.**, El-Hassanein, E. E., Kamel, Y. M. (2010). Comparison of gentamicin and ciprofloxacin in dromedary camels semen extender. World Journal of Agriculture Sciences. 6(4):419-424.
11. **El-Bahrawy, K. A.** (2010). Cryopreservation of dromedary camel semen supplemented with α -Amylase enzyme. Journal of Camel Practice and Research , Vol 17 No 2, p 211-216.
12. **El-Bahrawy K.A.** and El Hassanein . E.E. (2011). Seasonal Variations of Some Blood and Seminal Plasma Parameters, Protein Pattern and Fatty Acids Profile of Male Dromedary Camels. American-Eurasian J. Agric. & Environ. Sci., 10 (3): 354-360, 2011..
13. **El-Bahrawy, K. A.** (2011). Old World Camels Reproduction: Nature, Current Technologies and Future Prospects. Proceeding of camel cultures: historical traditions, present threats, and future prospects conference, The School of Oriental and African Studies (SOAS) 24-25 May 2011, London, UK.

14. Rateb S.A., El-Hassanein E.E., El-Koumy A.G., **El-Bahrawy K.A.** and Zahraa R. Abo El-Ezz. (2011). Manipulation of Reproductive Hormones Disorder in Sub-Fertile Male Dromedary Camels Using Exogenous Gonadotropic-Releasing Hormone (GnRH). World Journal of Agricultural Sciences, Volume 7 Number (3):280-285.
15. Zaghloul A. A., Afaf A. Al-Hameed, **El-Bahrawy K. A.** (2011). Effect of drinking saline water and water deprivation on semen quality and some blood parameters of Barki rams. Egyptian Journal of Basic and Applied Physiology. July, Vol.(10), 2011.
16. **Bahrawy K. A.**, El-Hassanein E. E., Rateb S. A. (2011). Effect of collection frequency, extender and thawing temperatures on the motility recovery of cryopreserved dromedary camel spermatozoa. Mansoura University Journal of Agriculture Science. Vol.(3), No(2):73-82; 2012.
17. Rateb S.A., El-Hassanein E.E., El-Koumy A.G., **El-Bahrawy K.A.** and Zahraa R. Abo El-Ezz. (2012). Improving Behavioral and Semen Characteristics of Sub-Fertile Male Camels (*Camelus dromedaries*) During the Breeding Season Using Gonadotropic-Releasing Hormone. The Ninth Scientific Conference of the Society of Physiological Sciences and Their Applications, Hurgada, Egypt, Egyptian Journal of Basic and Applied Physiology. 11(2):281-291..
18. **Bahrawy K. A.**, Salama O. Rateb S. A. Zaghloul, A. A. (2012). Aspects of Reproduction and Hormones Pattern in Post-Partum Dromedary She-Camels (*Camelus dromedaries*) in the North-West Coast of Egypt. The Ninth Scientific Conference of the Society of Physiological Sciences and Their Applications, Hurgada, Egypt, Egyptian Journal of Basic and Applied Physiology. 11(2):271-279.
19. D. Monaco, G.M. Lacalandra, E.E. El-Hassanein, S. Rateb, O. Salama and **K.A. El-Bahrawy.** (2012). Effect of a Controlled Intravaginal Drug Releaser (CIDR) and GnRH Administration on Ovarian Follicular Dynamics of Female Dromedary Camel During Seasonal Anestrus Period. Third International Conference of the Society of Camelid Research and Development. 29th January to 1st February, Masqat, Sultanate Oman.P. (123-124).
20. D. Monaco, G.M. Lacalandra, E.E. El-Hassanein, S. Rateb, O. Salama and **K.A. El-Bahrawy.** (2012). Effect of Controlled Intravaginal Drug Releaser (CIDR) and PMSG on Ovarian Activity of Primiparous and Pluriparous Dromedary Camel During Seasonal Anestrus Period. Third International Conference of the Society of Camelid Research and Development. 29th January to 1st February, Masqat, Sultanate Oman.P. (125-126).
21. Monaco D., Fatnassi M., Padalino B., Kchira B., El Bahrawy K., Rateb S., Khorchani, T., Hammadi M., Lacalandra G.M. The experimental semen collection centres for dromedary camels in Egypt and Tunisia: current situation and future developments. 11th Congress of the Italian Society of Animal Reproduction, June 19--22, 2013, Ustica, Italy.
22. Rateb, S.A.; Zaglol, A.A.; M.A. Khalifa and **El-Bahrawy, K.A.** (2012). Recent Advances and Modern Assisted Reproductive Technologies in Camels: A Review . International Workshop on Recent Strategies in Animal Production, November 5-7, 2012, Egypt, Pp. 181-192
23. Monaco D., Lacalandra G.M., **El-Bahrawy K.A.** (2013). Ovarian monitoring and effects of Controlled Intravaginal Drug Releaser (CIDR) on vaginal environment and follicular activity in dromedary camels, during non breeding season, in Egypt. Emir. J. Food Agric. 25 (4): 296-300
24. Russo R, Monaco D, Rubessa M, **El Bahrawy KA**, El-Sayed A, Martino NA, Beneult B, Ciannarella F, Dell'Aquila ME, Lacalandra GM, Filioli Uranio M_ (2013). Confocal fluorescence assessment of bioenergy/redox status of dromedary camel oocytes before and after in vitro maturation. The conference of " sustainability of camel populations and production" 17th to 20th of February, 2013, King Faisal University, El Ehsaa, Saudi Arabia.
25. Accogli G, Monaco D, **El Bahrawy KA**, El-Sayed A, Ciannarella F, Beneult B, Lacalandra GM, Desantis S (2013). Pregnancy induces changes in sialoglycoproteins expressed of dromedary

oviduct. The conference of “ sustainability of camel populations and production” 17th to 20th of February, 2013, King Faisal University, El Ehsaa, Saudi Arabia.

26. **El-Bahrawy, K. A.**, Khalifa, M.A. and S. A. Rateb (2013). Recent advances in dromedary camel reproduction: an egyptian field experience. The conference of “ sustainability of camel populations and production” 17th to 20th of February, 2013, King Faisal University, El Ehsaa, Saudi Arabia.
27. Shafey, H.; Sohair A. Azmy; Osman, S. A. ; Gawish, H.; **El-Bahrawy, K. A.** (2013). Factors affecting camel breeders’ knowledges and their acceptability to related modern technologies in some districts of matrouh governorate. Camel cultures: historical traditions, present threats, and future prospects’ 29–30 April 2013. The School of Oriental and African Studies (SOAS) London, UK.
28. M. T. Badawy, B. Faye, T. Khorchani, **K.A. El Bahrawy**, G.M. Lacalandra. (2013). Improving camels productivity for sustainable development in the Mediterranean South Basin countries (Egypt and Tunisia): The ENPI-CBC-MED project “PROCAMED”. The scientific conference of camel research and production. 17-19 April, 2013, Khartoum, Sudan.
29. Accogli G, Monaco D , **El Bahrawy KA**, El-Sayed A, Ciannarella , Beneult B, Lacalandra GM, Desantis S (2013). Morphological and glycan features of the dromedary oviduct epithelium. IX CONGRESSO NAZIONALE, Associazione Italiana Morfologi Veterinari, Abstract delle comunicazioni scientifiche, Roma, 2013.

REFERENCES:

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