

Alaa Sayed Abou-Elhamd



Personal Details

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Date of Birth: 9th October 1976

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Address: Department of Medical laboratory technology
Faculty of Medical applied sciences
Jazan University
Jazan, Saudi Arabia

Current position: Assistant professor, Department of Medical laboratory technology, Faculty of Medical applied sciences, Jazan University.

Education

- **2006 – 2010:** PhD in Biomolecular Sciences, Department of Biological Sciences University of East Anglia: Investigating the role of kelch-like 31 during vertebrate myogenesis.
- **2002 – 2005:** MSc degree in veterinary sciences, Department of Anatomy & Histology, Assiut University: Morphological studies on the accessory genital gland of donkey (*Equus Asinus*) in different seasons
- **1995– 1999:** B.Sc. degree in veterinary sciences, Assiut University, Egypt.

Academic Position:

1. **2017 until now:** Assistant professor, Department of Medical laboratory technology, Faculty of Medical applied sciences, Jazan University.
2. **2013- 2017:** Assistant professor in the department of Medical Biology, Faculty of Medicine, Jazan University, Saudia Arabia
3. **2011-2013:** Lecturer in the Department of Anatomy and Histology, Faculty of Veterinary Medicine, Assiut University.

4. **2005-2010:** Assistant Lecturer of Histology of domestic animals, Department of Anatomy and Histology, Faculty of Veterinary Medicine, Assiut University.
5. **2001-2005:** Demonstrator of Histology of domestic animals, Department of Anatomy and Histology, Faculty of Veterinary Medicine, Assiut University.
6. **1999-2001:** Demonstrator of Anatomy of domestic animals, Department of Anatomy and Histology, Faculty of Veterinary Medicine, Assiut University.

A) TEACHING ACTIVITIES SINCE 2000:

I- Lectures and Laboratories for undergraduate students:

1. Lectures on Cytology and General Histology course for the first semester-students in the faculty of Veterinary Medicine- Assiut University. This course involves:
 - A) *Cytology:*
 - B) *General Histology:*
 - a) Epithelial tissue.
 - b) Connective tissue.
 - c) Muscle tissue.
 - d) Nerve tissue.

2- Laboratories on Cytology and General Histology course for the first semester-students in the faculty of Veterinary Medicine- Assiut University, this course involve:

- Preparation of tissues for microscopic examination.
- Light microscopical examination for more than sixty histological slides for the structures previously mentioned into the lecture's course.

III- Lectures on systematic Histology course for the second semester students in the faculty of Veterinary Medicine- Assiut University.

This course involves the histomorphological features of the circulatory system (the blood vascular system and the lymphatic system) – the integumentary system – the digestive system – the respiratory system – the urinary system – endocrines – the reproductive system – the nervous system and sense organs for the different farm animals [Bovines, equines, swines, canines, ovines, caprines].

IV- Laboratories on Systematic Histology course for the second semester-students in the faculty of Veterinary Medicine- Assiut University. This course involves: Light microscopical examination of the organs comprising the previously mentioned systems.

V- Lectures on medical biology course for Level I student in the preparatory year- Faculty of medicine- Jazan University.

VI- Lectures on Basic Genetics for Level II student in the preparatory year- Faculty of medicine- Jazan University. This course involve: Mitosis & Meiosis, Basic Principles of Heredity, DNA: The Carrier of Genetic Information, DNA – Replication, DNA - Transcription Protein Synthesis, Gene Regulation, Genetic Engineering, Human Genome, Immunity, Sensatory reception, Endocrine regulation, Digestion in human.

VII- Lectures and laboratories for post - graduate students:

On various advanced studies and research works in the different branches of:

- Histology.
- Histochemistry.

Other activities:

December 2011- until now: Reviewer in the Journal of advanced veterinary research. <http://www.advetresearch.com/>

November 2012- until now: Reviewer Anatomia, Histologia, Embryologia. [http://onlinelibrary.wiley.com/journal/10.1111/\(ISSN\)1439-0264](http://onlinelibrary.wiley.com/journal/10.1111/(ISSN)1439-0264)

Conferences and Meeting attendance:

- 1- 2nd International conference of substance abuse research center: Addiction prevention: Research update (26- 27 January 2016), Jazan University, Jazan, Saudi Arabia.
- 2- 1st National workshop on Khat Biomedical research (10th Feb 2015). Substance abuse research center, Jazan University, Jazan, Saudi Arabia.
- 3- 35th Scientific conference of the Egyptian society of histology and cytology (29th of December 2011) Ain Shams university/ Cairo/ Egypt.
- 4- 14th Scientific congress (30th November -2nd December 2010) Faculty of Veterinary Medicine / Assiut University / Egypt.
- 5- 16th International Society of Developmental Biologists Congress (6 – 10 Sept 2009) Edinburgh/Scotland/UK (present poster).
- 6- 27th Alternative Muscle Club (AMC) Meeting (24th – 26th June 2009) University of Manchester /Manchester/UK (Oral presentation).

- 7- Muscle Cell Development Meeting (7th of July 2008) King's College London/ London/ UK (present poster, which published Abou-Elhamd *et al.*, Mechanism of Development 126, S195-S238, 2009).
- 8- 11th Scientific congress (5-7 December 2004) Faculty of Veterinary Medicine / Assiut University / Egypt.
- 9- 10th Scientific congress (17th -19th December 2002) Faculty of Veterinary Medicine / Assiut University / Egypt.

TRAINING COURSES AND WORKSHOPS

1. Training course and workshop on cell culture techniques and their application in molecular biology (March 15- 17/ 2004) in the molecular biology research unit of Assiut University / Egypt.
2. Intensive training course on application of biotechnology (August 28-31/ 2005) in Department of biotechnology - Institute of graduate students and research- Alexandria University / Egypt.
3. Workshop on the basic principles and techniques of PCR (27-29/ 9/ 2005) in the molecular biology research unit of Assiut University/ Egypt.

Publications:

1. **Alaa Sayed Abou-Elhamd**, Mahmoud Abd-Elkareem, Ahmed El-Zuhry Zayed (2017): Morphogenesis of lingual papillae of one-humped Camel (*Camelus dromedarius*) during prenatal life: A light and scanning electron microscopic study. *Anatomia Histologia Embryologia*, 2017;00:1–8. <https://doi.org/10.1111/ahe.12321>
2. Mohammad Rashad Fath El-bab, **Alaa Sayed Abou-Elhamd**, Mahmoud Abd-Elkareem (2017): How the Structure of the Sweat Glands of Camel Symphonizes their Reliable Function. *Journal of Animal Health and production*, 5 (1) 19- 23.
3. Mohammad Rashad Fath El-bab, **Alaa Sayed Abou-Elhamd** (2016): Special cutaneous vascular elements in one humped camel (*Camelus dromedarius*). *Journal of Advanced Veterinary and Animal Research*, 2016 3 (2) 1-6.
4. Nasser S. Abou Khalil, **Alaa S. Abou-Elhamd**, Salwa I. A. Wasfy, Ibtisam M. H. El Mileegy, Mohamed Y. Hamed, and Hussein M. Ageely (2016): Antidiabetic and Antioxidant Impacts of Desert Date (*Balanites aegyptiaca*) and Parsley (*Petroselinum sativum*) Aqueous Extracts: Lessons from Experimental Rats. *Journal of Diabetes Research*. Volume 2016, Article ID 8408326, 10 pages.

5. Hussein M. Ageely, **Alaa S. Abou-Elhamd** (2015): Morphological and apoptotic changes in the kidney of rats after Khat extract administration. *International Journal of Advanced life Sciences (IJALS)*. 8 (2): 145-152.
6. **Alaa Abou-Elhamd**, Abdulmajeed Fahad Alrefaei, GiFay Moka, Carla Garcia-Morales, Muhammad Abu-Elmagd, Grant N. Wheeler, Andrea E. Münsterberg (2015): Khl31attenuates β -catenin dependent Wnt signalling and regulates embryo myogenesis. *Developmental Biology*. 402: 61- 71.
7. Abdelalim Gad-allah, **Alaa Sayed Abou-Elhamd**, Mohammed Elmehrzy Abdelmonem, Ahmed El-zuhry Zayed (2015): Early prenatal development of the tongue in one-humped camel (*Camelus Dromedarius*): a light and scanning electron microscopic study. *Journal of International Academic Research for Multidisciplinary*. 3 (5): 309- 319.
8. Hussein M. Ageely, Mostafa M. El-Nagar, Ahmed Abouelmagd, **Alaa S. Abou-Elhamd**, Mohamed E. Kelany, and Bhagyashree R. Patil (2014): Khat extract mediated morphological and histochemical alterations in rat liver. *International Journal of Advanced Research*. 2 (11): 971-980.
9. Enas A. Abd El Hafez; **Alaa S. Abou-Elhamd** and Ahmed H. S. Hassan (2014): Effects of administration of Melatonin on the harderian gland of sheep. *J Interdiscipl Histopathol*; 2(1): 19-25.
10. Enas A .AbdElHafez, Doaa M. Mokhtar, **Alaa Sayed Abou-Elhamd**, and Ahmed Hassan S. Hassan (2013): Comparative Histomorphological Studies on Oesophagus of Catfish and Grass Carp. *Journal of Histology*.
11. **Alaa S. Abou-Elhamd**, Ahmed O. Salem, Aziza A. Selim (2013): Histological and Morphometrical Studies on the Ampulla of the Deferent Duct of Donkey (*Equus Asinus*) in Different Seasons. *Journal of Advanced Veterinary Research* 3:135-141.
12. **Abou-Elhamd, A. S.**, Salem, A. O. and Selim, A. A. (2013). Histomorphological studies on the prostate gland of donkey "EQUUS ASINUS" during different seasons. *Journal of Histology*.
13. **Abou-Elhamd, A. S.**, Salem, A. O. and Selim, A. A. (2012). Histological and Histochemical Studies on the Ampulla of the Deferent Duct of Donkey (*Equus asinus*). *Journal of Advanced Veterinary Research* 2:261-270.
14. **Abou-Elhamd A.**, Cooper O., Münsterberg A., 2009: Khl31 is associated with skeletal myogenesis and its expression is regulated by myogenic signals and Myf-5. *Mech Dev*. 2009 Jul 28.
15. Fath Elbab, M. R., **Abou-Elhamd A.**, 2011: *Histology, Part I*, 1st Edition. Egyptian book house. 2011/10746.
16. Fath Elbab, M. R., **Abou-Elhamd A.**, 2011: *Fundamentals of Histology, Part I*, 1st Edition. Egyptian book house. 2011/10745

Techniques:**Cell Biology:**

- Cell transfection
- Mammalian tissue culture
- Western blot
- Immunohistochemistry
- Luciferase Assay

Molecular Biology

- DNA and RNA preparation
- PCR
- Transformation
- Mini-preps, midi-preps, maxi-preps
- RNA probe synthesis
- Cloning and sub-cloning

Embryology

- Easy culture
- DNA microinjection and electroporation
- Surgical manipulations
- Whole mount *In situ* hybridisation
- Cryosectioning

Histological Techniques:

- Sectioning.
- Processing for staining.
- Scanning Electron Microscopy.

Transferable skills

- Time management and organizational skills
- Communication skills – verbal and written
- I am able to working independently and as part of a team.
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Personal Statement:

My past experience as demonstrator and assistant lecturer in the department of Anatomy and Histology and in the present as assistant professor develop my skills to work with group and more patients with my colleagues and students. During my master thesis I learned most of the histological techniques for sectioning and staining as well as scanning electron microscopy.

During the course of my PhD I have had to develop my skills both technically and personally. I have developed an organized approach to my work which has been essential. I have developed by skills during the surgical manipulations of the embryos and during embryo electroporation and the luciferase assay to adjust the suitable conditions for each technique.

I have had extensive opportunities to develop my communication skills. I have regularly presented my work in lab meetings. I have also produced two scientific reports (first year report and second year transfer report) during this time which has helped me refine my report writing skills.

During my study I assisted in the supervision of 2 undergraduate summer students project and I involved in training of a postgraduate student which give me more technical experience and with additional transferable skills in communication and teaching.

After finishing my PhD I was in a supervision committee of two PhD students and one MSc student.

My experience over the past years has allowed me to develop my technical skills in numerous areas including Cell, Developmental and Molecular Biology as well as in Histology, and I am looking forward to learning new techniques and approaches to further develop my skills as a scientist

Referees

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