

## Curriculum Vitae



### I-Personal Identity

<b>Given name</b>	Mahmoud
<b>Surname</b>	Gewaily
<b>Sex</b>	Male
<b>Date of birth</b>	4 <sup>th</sup> -January -1982
<b>Nationality</b>	Egyptian
<b>Marital status</b>	Married
<b>Place of work</b>	Department of Anatomy and Embryology, Faculty of Veterinary Medicine, Kafrelsheikh University, Egypt
<b>Current Position</b>	Associate professor of Anatomy and Embryology
<b>Address of work</b>	El-Geish Street - 33516, Kafrelsheikh, Egypt
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<b>Degrees</b>	Bachelor (BVSc) in 2004, Master (MVSc) in 2009 and Doctor (PhD) on 2014 (Veterinary Sciences)
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## **II- Academic qualifications:**

<b>September-1999 to May-2004</b>	Undergraduate student, Faculty of Veterinary Medicine, Kafrelsheikh, Tanta University-Egypt
<b>May-2004</b>	Obtained Bachelor (BVSc) degree of Veterinary Science
<b>June-2006 to June-2009</b>	Master Course Student (Anatomy and Embryology), Faculty of Veterinary Medicine, Kafrelsheikh University
<b>June-2009</b>	Obtained Master degree of Veterinary Medicine, (Kafrelsheikh University-Egypt)
<b>June-2009 to June-2014</b>	Ph.D. Course Student (Anatomy and Embryology), Faculty of Veterinary Medicine, Kafrelsheikh University, Egypt
<b>March-2012 to March-2014</b>	A member of channel system scholarship, Laboratory of Histology and Embryology, Graduate School of Medical Science, Kanazawa University, Japan
<b>June-2014</b>	Obtained PhD degree, Faculty of Veterinary Medicine, Kafrelsheikh University, Egypt

## **III-Employment History: -**

<b>June-2006 to June-2009</b>	Demonstrator, Department of Anatomy and Embryology, Faculty of Veterinary Medicine, Kafrelsheikh, Tanta University, Egypt
<b>June-2009 to June -2014</b>	Assistant Lecturer, Department of Anatomy and Embryology, Faculty of Veterinary Medicine, Kafrelsheikh University, Egypt
<b>March-2012 to March-2014</b>	Visiting Researcher, Laboratory of Molecular Biology, Graduate School of Medical Science, Kanazawa University, Japan
<b>June-2014 to December-2015</b>	Lecturer, Department of Anatomy and Embryology, Faculty of Veterinary Medicine, Kafrelsheikh University, Egypt
<b>December -2015 to May-2016</b>	Post-doctoral scholarship for 6 months in Faculty of Life Science, Kumamoto University, Japan

<b>May-2016 -June 2019</b>	Lecturer, Department of Anatomy and Embryology, Faculty of Veterinary Medicine, Kafrelsheikh University, Egypt
<b>June 2019-up to day</b>	Assistant professor, Department of Anatomy and Embryology, Faculty of Veterinary Medicine, Kafrelsheikh University, Egypt

**IV-Languages:** Fluent Arabic and English with Little French and Japanese.

**V-Theses:**

<b>Master</b>	Some Anatomical Studies on the Nasal Cavity of the One Humped Camel ( <i>Camelus dromedarius</i> ), Kafrelsheikh University, 2009.
<b>PhD</b>	Studies on the role of cell adhesion molecules in the male reproductive tissues, Kafrelsheikh University, 2014.

**VI-Conferences**

- 1- 2nd conference of Fac. Vet. Med. Kafrelsheikh University, *6-8th May 2006.*
- 2- 3rd conference of Fac. Vet. Med. Kafrelsheikh University, *10-12th May 2009*
- 3- 14th international congress of Histochemistry and Cytochemistry., *Kyoto, Japan August 26<sup>th</sup> -29th 2012*
- 4- The 40<sup>th</sup> Annual International Scientific Conference of The Egyptian Society of Histology and Cytology held in Faculty of Medicine, *Kafrelsheikh University, Kafrelsheikh, Egypt, December -2016.*
- 5- 6th Scientific Congress of African Association of Veterinary Anatomist, *Sadat University, March 2017*
- 6- 5<sup>th</sup> Scientific international Conference of the faculty of veterinary Medicine, Kafrelsheikh University, *Hurghada, Egypt. 5th -9<sup>th</sup> March 2019*

**VII-Skills and training programs:**

1. Holding **ICDL** certificate since 2009.
2. Holding international **TOEFL** certificate from IBC, Tanta branch on 16 January 2010.
3. Obtaining several training programs of **FLDP** and **IFLDC** such as:
  - a. Using of Technology in Teaching in June 2006.
  - b. Effective communication Skills in June 2006.
  - c. Teaching Preparation in March 2008.
  - d. legal and financial aspects on the university works in April 2008.



- e. Credit hours in May 2008.
  - f. Essential Job Ethics in May 2008.
  - g. Quality Standards in the teaching process in January 2009.
  - h. Methods of Scientific Research in May 2009.
  - i. How to use global databases in October 2009.
  - j. Management of time and meetings in September,2014
  - k. University Leadership in October,2014
  - l. organization of conferences in June 2015
4. Attendance of training program of staff members on ICTT skills [organized by central Unit of ICT Training (CUITT), Improving Higher Education Workforce, Supreme Council of Universities] such as:
- a. Typing (2007).
  - b. Basic concepts of IT (2007).
  - c. Using computer and managing files (2007).
  - d. Word processing (2007).
  - e. Spreadsheets (2007).
  - f. Introduction to PC maintenance and protection (2007)
  - g. Advanced Power (May 2014).
  - h. Excel program (August 2017).
  - i. Power Point (August 2017).
5. Participant in the Scientific Symposium entitled "Leptospirosis; Silent danger" hold in the Faculty of Veterinary Medicine, Kafrelsheikh University on March-2014.
6. Participant in the Scientific Symposium entitled "Pig Influenza" hold in the Faculty of Veterinary Medicine, Kafrelsheikh University on March-2014.
7. Participant in Confocal electron microscope (CEM) workshop held in Graduate School of Medicine, Kumamoto University, Japan, May 2018.
8. Participant in workshop on Two photon Laser Scanning microscopy (TPLSM) held in Graduate School of Medicine, Kumamoto University, Japan, May 2018.
9. Participant in the Seminar on "Programed cell death (Apoptosis)", held in Faculty of Life Science, Kumamoto University, Japan, June,2018.
10. Participant in the Seminar on "Leukemia" held in The International Research Center of Medical Science (IRCMS), Kumamoto University, Japan, July 2018.

### **VIII-Missions and Scholarships:**

1. Scientific mission (Channel system program) in the lab of Molecular biology, Department of Histology and Embryology, Graduate School of Medical Science, Kanazawa University, Japan for studying PhD from March 2012 to March 2014.
2. Postdoctoral fellowship in the Graduate School of Medical Science, Kumamoto University for six months, Japan (from December 2015-May 2016).
3. Short term fellowship in the Graduate School of Medical Science, Kumamoto University, Japan to carry out the STDF project (25465) “Molecular mechanism of spermatogenesis by the endocrine and paracrine factors and cell adhesion molecules” (from May to September 2018).

### **IX-Research Area of Interest**

- Anatomy, Histology and Embryology
- Molecular biology of reproductive system.
- Factors affecting spermatogenesis and male fertility.
- Fish and poultry molecular biology

### **X-Technical experiences:**

#### **1. Histology**

- Morphological knowledge
- Histochemistry
- Immunohistochemistry
- Immunofluorescence
- Lectin Histochemistry
- Electron microscopy (SEM, TEM)
- Pre-embedding immunoreaction method

#### **2. Molecular biology**

- Isolation and purification of RNA and DNA

- Polymerase chain reaction (PCR)
- DNA Sequence
- cDNA library construction
- SDS-polyacrylamide gel electrophoresis
- Western blotting
- Immunoprecipitation
- Molecular cloning

### **XI-Publication**

1. M.A. Dawood, **M.S. Gewaily**, H. Sewilam, The growth performance, antioxidative capacity, and histological features of intestines, gills, and livers of Nile tilapia reared in different water salinities and fed menthol essential oil, *Aquaculture* (2022) 738122. doi.org/10.1016/j.aquaculture.2022.738122
2. F. Esam, M.M. Khalafalla, **M.S. Gewaily**, S. Abdo, A.M. Hassan, M.A. Dawood, Acute ammonia exposure combined with heat stress impaired the histological features of gills and liver tissues and the expression responses of immune and antioxidative related genes in Nile tilapia, *Ecotoxicology and Environmental Safety* 231 (2022) 113187. doi.org/10.1016/j.aquaculture.2022.738122.
3. T. Ismail, E. Hegazi, E. Nassef, O.A. Habotta, **M.S. Gewaily**, The Optimized Inclusion Level of Bacillus Subtilis Fermented Azolla Pinnata In Nile Tilapia (Oreochromis Niloticus) Diets: Immunity, Antioxidative Status, Intestinal Digestive Enzymes and Histomorphometry, And Disease Resistance, preprint (2022). doi.org/10.21203/rs.3.rs-1119713/v1.
4. F. Magouz, H. Abu-Ghanima, A.I. Zaineldin, **M.S. Gewaily**, A. Soliman, A.A. Amer, E.M. Moustafa, E.M. Younis, A.-W.A. Abdel-Warith, S.J. Davies, Dietary Bacillus subtilis relieved the growth retardation, hepatic failure, and antioxidative depression induced by ochratoxin A in Thinlip Mullet (Liza ramada), *Aquaculture Reports* 22 (2022) 100984. doi.org/10.1016/j.aqrep.2021.100984
5. M.M. Khalafalla, N.F. Zayed, A.A. Amer, A.A. Soliman, A.I. Zaineldin, **M.S. Gewaily**, A.M. Hassan, H. Van Doan, W. Tapingkae, M.A. Dawood, Dietary Lactobacillus acidophilus ATCC 4356 Relieves the Impacts of Aflatoxin B1 Toxicity on the Growth Performance, Hepatorenal Functions, and Antioxidative Capacity of Thinlip Grey Mullet (Liza



- ramada)(Risso 1826), Probiotics and Antimicrobial Proteins (2022) 1-15.  
[doi.org/10.1007/s12602-021-09888-z](https://doi.org/10.1007/s12602-021-09888-z).
6. **Gewaily MS**, Noreldin AE, Dawood MAO, Hegazy YM, Kassab M (2021) The Distribution Profile of Glycoconjugates in the Testis of Brown-Banded Bamboo Shark (*Chiloscyllium punctatum*) by Using Lectin Histochemistry. *Microsc. Microanal.* doi:10.1017/S1431927621012113
  7. Dawood, Mahmoud AO, Mohammed F. El Basuini, Sevdan Yilmaz, Hany MR Abdel-Latif, Zulhisyam Abdul Kari, Mohammad Khairul Azhar Abdul Razab, Hamada A. Ahmed, Mahmoud Alagawany, and **Mahmoud S. Gewaily**. "Selenium nanoparticles as a natural antioxidant and metabolic regulator in aquaculture: a review." *Antioxidants* 10, no. 9 (2021): 1364.
  8. **Gewaily MS**, Kassab M, Aboelnour A, Almadaly EA, Noreldin AE (2021) Comparative Cellular Localization of Sugar Residues in Bull (*Bos taurus*) and Donkey (*Equus asinus*) Testes Using Lectin Histochemistry. *Microsc Microanal.* doi:10.1017/S1431927621012939
  9. Magouz F.I., Shehab El-Din M.T., Amer A.A., **Gewaily M.S.**, El-Dahdoh W.A., Dawood M.A.O. (2021). A blend of herbal essential oils enhanced the growth performance, blood bio-immunology traits, and intestinal health of Nile tilapia (*Oreochromis niloticus*), *Annals of Animal Science*, DOI: 10.2478/aoas-2021-0066
  10. Ali, M.F., Soliman, A.A., **Gewaily, M.S.**, Abdel-Kader, T.Y., Amer, A.A., Zaineldin, A.I., Al-Asgah, N.A., Younis, E.M., Abdel-Warith, A.W.A., Sewilam, H. and Dawood, M.A., 2021. Isatis phytogetic relieved atrazine induced growth retardation, hepato-renal dysfunction, and oxidative stress in Nile tilapia. *Saudi Journal of Biological Sciences*. <https://doi.org/10.1016/j.sjbs.2021.08.072>.
  11. Shukry, Mustafa, Sarah Albogami, **Mahmoud Gewaily**, Asem A. Amer, Ali A. Soliman, Saad M. Alsaïad, Ahmed M. El-Shehawi, and Mahmoud AO Dawood. "Growth performance, antioxidative capacity, and intestinal histomorphology of grey mullet (*Liza ramada*)–fed dietary zinc nanoparticles." *Biological Trace Element Research* (2021): 1-10. <https://doi.org/10.1007/s12011-021-02844-6>.
  12. Ismail T, Hegazi E, Nassef E, Shehab El-Din MT, Dawood MAO, Abdo SE, **Gewaily MS**, Gut immune-related gene expression, histomorphometry and hematoimmunological assays in Nile tilapia (*Oreochromis niloticus*) fed *Aspergillus oryzae* fermented olive cake, *Fish and Shellfish Immunology* (2021), <https://doi.org/10.1016/j.fsi.2021.07.006>.

13. Abumandour, M., Shukry, M., Lashen, S., Kassab, M., Kandyle, R., **Gewaily, M.**, El-Mansi, A., El Askary, A., Hamoda, H., & Farrag, F. (2021). Posthatching ultrastructural development of the oropharyngeal cavity roof in five age-stages of *Coturnix coturnix* (Linnaeus, 1758). *Microscopy Research and Technique*, 1–21. <https://doi.org/10.1002/jemt.23885>
14. Ahmed E. Noreldin, **Mahmoud S. Gewaily**, Islam M. Saadeldin, Hammed A. Tukur, Asmaa F. Khafaga, Yaser H. Elewa. Osteoblast activating peptide (OBAP) exhibits a specific distribution in the mouse ovary and has a potential role in regulating ovarian steroids and local calcium regulation. *Am J Transl Res* 2021;13(6):5796-5814
15. **Mahmoud S. Gewaily**; Safaa E. Abdo; Eman M. Moustafa; Marwa F. AbdEl-kader; Ibrahim M. Abd El-Razek; Mohamed El-Sharnouby; Mohamed Alkafafy; Sayed Haidar Abbas Raza; Mohammed F. El Basuini; Hien Van Doan; Mahmoud A. O. Dawood. Dietary Synbiotics Can Help Relieve the Impacts of Deltamethrin Toxicity of Nile Tilapia Reared at Low Temperatures *Animals* 2021, Volume 11, Issue 6, 1790
16. Abdel-Wahab A. Abdel-Warith, Elsayed M. Younis, Nasser A. Al-Asgah, **Mahmoud S. Gewaily**, Shaimaa M. El-Tonoby, and Mahmoud A. O. Dawood (2021). "Role of Fucoidan on the Growth Behavior and Blood Metabolites and Toxic Effects of Atrazine in Nile Tilapia *Oreochromis niloticus* (Linnaeus, 1758)." *Animals* 11(5): 1448.
17. Safaa E. Abdo, **Mahmoud S. Gewaily**, Haitham G. Abo-Al-Ela, Rafa Almeer, Ali A. Soliman, Azza H. Elkomy, Mahmoud A.O. Dawood (2021). "Vitamin C rescues inflammation, immunosuppression, and histopathological alterations induced by chlorpyrifos in Nile tilapia." *Environmental Science and Pollution Research*: 1-14. doi.org/10.1007/s11356-021-12711-5
18. Mahmoud A. O. Dawood, Mohamed F. Ali, Asem A. Amer, **Mahmoud S. Gewaily**, Mona M. Mahmoud, Mohamed Alkafafy, Doaa H. Assar, Ali A. Soliman, Hien Van Doan (2021). "The influence of coconut oil on the growth, immune, and antioxidative responses and the intestinal digestive enzymes and histomorphometry features of Nile tilapia (*Oreochromis niloticus*)." *Fish Physiology and Biochemistry*: 1-12 doi.org/10.1007/s10695-021-00943-8.
19. **Mahmoud S. Gewaily**, Mustafa Shukry, Marwa F. Abdel-kader, Mohamed Alkafafy, Foad A. Farrag, Eman M. Moustafa, Hien Van Doan, Mohamed F. Abd-Elghany, Ahmed F. Abdelhamid, Azhar Eltanahy and Mahmoud A. O. Dawood (2021). Dietary *Lactobacillus plantarum* Relieves Nile Tilapia (*Oreochromis niloticus*) Juvenile from Oxidative Stress,



- Immunosuppression, and Inflammation Induced by Deltamethrin and *Aeromonas hydrophila*. *Front. Mar. Sci.* 8:621558. doi: 10.3389/fmars.2021.621558
20. Almadaly EA, Ashour MA, Elfeky MS, **Gewaily MS**, Assar DH, Gamal IM (2021) Seminal plasma and serum fertility biomarkers in Ossimi rams and their relationship with functional membrane integrity and morphology of spermatozoa. *Small Ruminant Research* 196: 106318 106318.
21. Mustafa Shukry, Saqer S Alotaibi, Sarah M Albogami, Nora Fathallah, Foad Farrag, Mahmoud AO Dawood, **Mahmoud S Gewaily** Garlic Alleviates the Injurious Impact of Cyclosporine-A in Male Rats through Modulation of Fibrogenic and Steroidogenic Genes. *Animals* 2021; 11(1): 64.
22. Dawood, M.A., **Gewaily, M.S.**, Monier, M.N., Younis, E.M., Van Doan, H., Sewilam, H., 2020. The regulatory roles of yucca extract on the growth rate, hepato-renal function, histopathological alterations, and immune-related genes in common carp exposed with acute ammonia stress. *Aquaculture* 534 (2021) 736287.
23. Dawood, M.A., Abdel-Razik, N.I., **Gewaily, M.S.**, Sewilam, H., Paray, B.A., Soliman, A.A., Abdelhiee, E.Y., Aboubakr, M., Van Doan, H., El-Sabagh, M., 2020.  $\beta$ -Glucan improved the immunity, hepato-renal, and histopathology disorders induced by chlorpyrifos in Nile tilapia. *Aquaculture Reports* 18, 100549.
24. Dawood, M.A., **Gewaily, M.S.**, Soliman, A.A., Shukry, M., Amer, A.A., Younis, E.M., Abdel-Warith, A.-W.A., Van Doan, H., Saad, A.H., Aboubakr, M., 2020. Marine-Derived Chitosan Nanoparticles Improved the Intestinal Histo-Morphometrical Features in Association with the Health and Immune Response of Grey Mullet (*Liza ramada*). *Marine Drugs* 18(12), 611.
25. **Gewaily MS**, Abumandour MMA. Gross morphological, histological, and scanning electron specifications of the oropharyngeal cavity of the hooded crow (*Corvus cornix pallescens*). *Anat Histol Embryol.* 2020; 00:1–12. <https://doi.org/10.1111/ahe.12602>
26. Dawood, M.A., El-Shamaa, I.S., Abdel-Razik, N.I., Elkomy, A.H., **Gewaily, M.S.**, Abdo, S.E., Soliman, A.A., Paray, B.A., Abdelkhalek, N., 2020. The effect of mannanoligosaccharide on the growth performance, histopathology, and the expression of immune and antioxidative related genes in Nile tilapia reared under chlorpyrifos ambient toxicity. *Fish & Shellfish Immunology* 103, 421-429

27. Dawood, M.A., Metwally, A.E.-S., Elkomy, A.H., **Gewaily, M.S.**, Abdo, S.E., Abdel-Razek, M.A., Soliman, A.A., Amer, A.A., Abdel-Razik, N.I., Abdel-Latif, H.M., 2020. The impact of menthol essential oil against inflammation, immunosuppression, and histopathological alterations induced by chlorpyrifos in Nile tilapia. *Fish & Shellfish Immunology* 102, 316-325.
28. Dawood, M.A., Abd El-Kader, M.F., Moustafa, E.M., **Gewaily, M.S.**, Abdo, S.E., 2020. Growth performance and hemato-immunological responses of Nile tilapia (*Oreochromis niloticus*) exposed to deltamethrin and fed immunobiotics. *Environmental Science and Pollution Research*, 1-10. doi.org/10.1007/s11356-020-07775-8.
29. Dawood, M.A., Abdo, S.E., **Gewaily, M.S.**, Moustafa, E.M., SaadAllah, M.S., Abd El-Kader, M.F., Hamouda, A.H., Omar, A.A., Alwakeel, R.A., 2020. The influence of dietary  $\beta$ -glucan on immune, transcriptomic, inflammatory and histopathology disorders caused by deltamethrin toxicity in Nile tilapia (*Oreochromis niloticus*). *Fish & Shellfish Immunology* 98, 301-311.
30. **Gewaily, M.S.**, Hadad, S.S., Shoghy, K.M. (2020). Gross, histological and scanning electron morphological studies on the nasal turbinates of one humped camel (*Camelus dromedarius*). *BIOSCIENCE RESEARCH*, 2019 16(S1-2): 107-120.
31. Dawood, M.A., Moustafa, E.M., **Gewaily, M.S.**, Abdo, S.E., Abd El-Kader, M.F., Saad Allah, M.S., Hamouda, A.H., 2020. Ameliorative effects of *Lactobacillus plantarum* L-137 on Nile tilapia (*Oreochromis niloticus*) exposed to deltamethrin toxicity in rearing water. *Aquatic Toxicology* 219, 105377.
32. **Mahmoud S Gewaily**, Mohamed Kassab, Foad A Farrag, Essam A Almadaly, Mustafa S Atta, Ahmed Abd-Elmaksoud, Tomohiko Wakayama: Comparative expression of cell adhesion molecule1 (CADM1) in the testes of experimental mice and some farm animals. *Acta Histochemica* 2020;122(1):151456.
33. Mohamed M. A. Abumandour and **Mahmoud Saad Gewaily**: Gross morphological and ultrastructural characterization of the oropharyngeal cavity of the Eurasian hoopoe captured from Egypt. *Anatomical Science International* ,2019, *Anat Sci Int* (2019) 94:172-179. DOI 10.1007/s12565-018-0463-9.
34. Foad A. Farrag, Samah A. Lashein, Essam A. Almadaly, **Mahmoud S. Gewaily**, Mustafa S. Atta, Tarek K. Abo-Zaid, and Mohamed A. Kassab: Morphological and Immunohistochemical Study on the Testis of Brown-Banded Bamboo Shark (*Chiloscyllium*

- punctatum*). Alexandria Journal of Veterinary Sciences 2018; 57(1):126-134.
35. Foad A. Farrag, **Mahmoud Gewaily**, Ahmed Abd-Elmaksoud and Mohamed Kassab: Comparative glycoconjugates histochemistry of proventriculus of chicken, ducks, and geese. Alexandria Journal of Veterinary Sciences, 2017; 53: 88-94.
36. **Mahmoud S. Gewaily**, Masoud H. Fayed, Foad A. Farrag: Architectural and Functional Specifications of the Intrinsic Muscles of the Forelimb of the Egyptian Baladi Goats (*Capra hircus*). Alexandria Journal of Veterinary Sciences 2017; .55(1): 110-124.
37. Essam A. Almadaly, Mohamed E. El-Sharawy, Mostafa S. Atta, Foad A. Farrag, **Mahmoud S. Gewaily** and Islam M. Saadeldin: Desalted and lyophilized seminal plasma increases protein tyrosine-phosphorylation of frozen-thawed bull spermatozoa incubated with a cell-permeable cyclic AMP (cAMP) analog (cBiMPS). Japanese Journal of Veterinary Research, 2017; 65(3):113-126.
38. Mohamed M. A. Abumandour and **Mahmoud Saad Gewaily** (2016): Morphological studies on the gills of puffer fish (*Lagocephalus sceleratus*, Gmelin, 1789). Int. J. Morphol., (2016)34(3):817-829.
39. K.F. Abou-Easa, Alaa E. Ghazy and **Mahmoud S. Gewaily** (2015). Characterization of Behavior and Niche of Bovine Marrow Stem Cells In vitro. Global Veterinaria 14 (6): 922-928, 2015. ISSN 1992-6197. DOI: 10.5829/idosi.gv.2015.14.06.95210.
40. Tomohiko Wakayama, Hiroki Nakata, Tewarat Kumchantuek, **Mahmoud Saad Gewaily**, and Shoichi Iseki (2015): Identification of 5-bromo-2'-deoxyuridine-labeled cells during mouse spermatogenesis by heat-induced antigen retrieval in lectin- and immunohistochemistry. J Histochem Cytochem. 2015 Mar; 63(3):190-205. doi: 10.1369/0022155414564870.
41. **Mahmoud S. Gewaily**, Ali A Mansour, Masoud H Fayed, Tomohiko Wakayama and Shoichi Iseki (2014) Immunohistochemical expression of membrane protein palmitoylated6 (MPP6) in mice testis. Kafrelsheikh Vet. Med. J. Vol. 1, 2014; 19-194 .
42. **Mahmoud S Gewaily**, Atef Hasan, Mohamed Kassab and Ali A Mansour (2014) Gross anatomical and ultra-structural microscopic studies on the nose of the dromedary camel (*Camelus dromedarius*) Kafrelsheikh\_Vet. Med. J. Vol. 2, 2014; 203-224.