



Brief Overview

Hany Marei, Ph.D., Head of Cytology and Histology Department, Mansoura University, Egypt

Hany Marei, Ph.D. is a full professor since 2005, and he worked as the Head of Cytology and Histology Department, Faculty of Veterinary Medicine, Mansoura University, Mansoura, Egypt (1996 - May 2015). From May 2015 he moved to Qatar where he works as a project manager for one of the state-of-the-art Biomedical Research Center (BRC) at Qatar University (QU). His research interest lies in the field of gene expression, pathway analysis, and genetic profiling of stem cells. He published several papers (PLOS, Genomics, Molecular Cancer) on genetic profiling of adult human olfactory bulb neural stem cells (OBNSCs) and Glioblastoma Cancer stem cells. He also published many papers about the therapeutic potential of human olfactory bulb neural stem cells (ONNSC) for neurodegenerative and traumatic diseases including Alzheimer's, Parkinson's (PD) and spinal cord injury (SCI). He developing pre-clinical models to use OBNSC in the treatment of AD, PD and SCI. He is specially interested in exploring the molecular mechanism underlying Alzheimer's disease (AD), and identification of common and rare variants (SNPs) associated with AD. After arrival to QUBRC, he finished a systematic review articles article (under publication in Genomics) about "Rare and common variants associated with Alzheimer's diseases", and also he prepared a book chapter (under with Bentham Science Publishers (eBook series "Frontiers in Clinical Drug Research-Alzheimer Disorder; Vol. 4" . He is currently working on several systematic review and meta-analysis studies about genomic sequences associated with AD. He has a very good experience and training in working with recent genomic analysis tools such as PLINK, STATA, IMPUT 2, and Galaxy which enable him to do analysis for genome wide association studies (GWAS), and whole genome (WGS), and exome (WES) sequence on available and planned genotyping and sequencing using high throughput genotyping and next generation sequencing platforms .



Dr Marei earned a BVSc in Veterinary Medicine in Alexandria University, Egypt and earned his PhD in Electron Microscopy, immunohistochemistry through a channel system program between Faculty of Veterinary Medicine, Suez Canal University, Egypt, and Virginia-Maryland Regional College of Veterinary Medicine, Virginia Tech., USA. He obtained training at Institute of Anatomy and Cell Biology, Catholic University, Italy during 2011.

After that, he worked as Professor in Mansoura University, Egypt since 2005. Since 2009 he is working intensively in the field of stem cells biology. During this period Dr. Marei published several articles on gene expression profiling of adult human olfactory bulb neural stem cells, including embryonic neural stem cells, and dopaminergic neurons, effects of overexpression of hNGF on proliferation and differentiation potential of NSC. Dr. Marei demonstrated potential applications of adult human neural stem cells in several animal models of human injuries including AD, PD, and SCI. Currently; he has ongoing pre-clinical trial on the use of OBNSC for AD, PD, and SCI. Also, he is the manager of ISO 17025 international accreditation project for the molecular biology unit at the central lab of Faculty of Veterinary Medicine, Mansoura University, Egypt.

Dr. Marei is an editorial board member for: American Journal of Current Genetics, Accounts of Biotechnology Research, Journal of Pediatric Oncology, and Journal of Cytology and Tissue Biology. He is a reviewers in several international indexed journals such as Journal of Tissue Engineering and Regenerative Medicine, BMC Veterinary Research, and others. He is also a member for promotion of professor and associate professor at the Supreme Council of Universities, Egypt. He had defended more than 20 master and PhD thesis in Cytology and Histology, and reviewers for more than 100 papers in the field of Biology, Histology, Genetics, and Cytology.

Qatar University Biomedical Research Center (May 2015-present)

Currently, Dr. Marei is the Project Manager of Qatar University Biomedical Research Center (QUBRC). He oversees nine state-of-the-art labs dealing with three main areas of Biomedical researches (Metabolic diseases, Infectious diseases, and drug discovery). Since he arrived to Qatar in May, 2015 he has prepared three review articles about "**Amyloid Beta Cascade**", "**Microbiome associated with disease and health conditions**", and "**Rare and common variants associated with Alzheimer's disease**". These three papers are under publication now. Currently, he is preparing a major research proposal about "**Decoding the genomic sequences associated with Alzheimer's disease in Arab Population**", as the first study to implement the whole genome (WG) and whole exome (WE) sequencing protocol on the large scale in Middle East and Arab Countries. He is also preparing a major "**Meta-analysis study about the genetic polymorphism in Alzheimer's Disease genes**" at the level of high throughput WGS and WES. He is also involved now in the development of "**Alzheimer's Disease model in Zebrafish**", and in "using the three-dimensional bio printing and induced pluripotent stem cells to develop multicellular nervous tissue organoid for drug testing against Alzheimer's Disease" using different therapeutic approached such as anti-beta secretase, Nano molecules, siRNS AD gene knockdown, genome editing, stem cell-based therapy and immunotherapy using anti-amyloid and anti Tau antibodies.



CV Prof. Dr. Hany El-Sayed Marei

Detailed CV:

Hany El-Sayed Marei, M.V.Sc, Ph.D.

Editor:

- **Senior Editorial Board (SEB) Member of the American Journal of Current Genetics**
- **Editorial Board Member of Accounts of Biotechnology Research.**
- **Editorial Board Member of Journal of Pediatric Oncology**
- **Journal of Cytology and Tissue Biology**
- **International Journal of Zoological Investigations.**
- **Henry Journal of Cytology and Histology**
- **Henry Journal of Cytology and Histology**
- **Cancer Biology & Treatment**

Promotion Committees in Arab Countries:

- **Reviewed Promotion file for King Abdul-Aziz University, Saudi Arabia.**
- **Reviewed Promotion file for El Basra University, Iraq.**

Reviewer for International Indexed Journals:

- **Journal of Tissue Engineering and Regenerative Medicine**
- **BMC Veterinary Research**
- **Cell Biology International**

Positions:

- **Project Manager, QUBRC, Qatar.**
- **PI for Lab Accreditation ISO 15189 Project.**
- **Professor, Head of Cytology and Histology Department,**
- **Manager of Quality Assurance and Accreditation Unit**
- **Manager of Central Veterinary Diagnostic lab**
- **Former Manager of E-Learning Unit**
- **PI for Neural Stem Cells Project (STDF-funded).**
- **PI for Lab Accreditation ISO 17025 Project.**
- **PI of DVM and ISO 9001 Accreditation Project.**



CV Prof. Dr. Hany El-Sayed Marei

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EDUCATION

- **Virginia-Maryland Regional Collage of Veterinary Medicine, Virginia Tech, USA (May. 1992 - May. 1994)**

Ph.D. in Cytology Histology

Dissertation: A histological approach to the myoendocrine cells of the heart.

- **Joint between Virginia-Maryland Regional Collage of Veterinary Medicine, Virginia Tech, USA and Suez Canal University, Ismailia, Egypt (Nov. 1990 - May 1992)**

Assistant Lecturer of Cytology and Histology

- **Suez Canal University, Ismailia, Egypt (June. 1986- May 1990)**

Demonstrator of Cytology and Histology

Master of Veterinary Medical Sciences in Cytology and Histology

- **Alexandria University, Collage of Veterinary Medicine (Sept. 1980 - June 1985)**

Bachelor of Veterinary Medicine (ranking 5th)

Sequence: Veterinary Medicine, Cytology and Histology

Minor: Electron Microscopy and Immunohistochemistry

TEACHING EXPERIENCE/AWARDS

- **Director for Central Lab for Veterinary Molecular Diagnosis, 2012 till present**
- **Manager of E-Learning Unit, Faculty of Veterinary Medicine, Mansoura University, Egypt, 2008- 2012**
- **Department Head of Cytology and Histology (March. 2005-present)**

Professor (Feb. 2005-present) Cytology and Histology Department, Mansoura University, Egypt

Courses Taught:

Histology for Clinical Pharmacy (Faculty of Pharmacy, Mansoura University, Egypt).

Cytology and Histology for Veterinary Students (Faculty of Veterinary Medicine, Mansoura University, Egypt).

- **Assistant Professor of Cytology and Histology**

Faculty of Veterinary Medicine, Mansoura University (Oct. 1999- Feb 2005)

- **Acting as a Department Head of Cytology and Histology (Aug. 2000 - Mar. 2005)**

Lecturer of Cytology and Histology (Aug. 1996 Oct. 1999)

Faculty of Veterinary Medicine Mansoura University, Egypt

Lecturer of Cytology and Histology (Oct. 1994 - Aug. 1996)

Faculty of Veterinary Medicine Suez Canal University, Egypt

- **Assistant Lecturer of Cytology and Histology (May 1992 - May. 1994)**

Virginia-Maryland Regional Collage of Veterinary Medicine, Virginia Polytechnic Institute and State University, Blacksburg, Virginia, USA.



Course Taught:

Practical Histology for first year veterinary medical students at Virginia-Maryland Regional Collage of Veterinary Medicine, Virginia Polytechnic Institute and State University, Blacksburg, Virginia, USA

• **Assistant Lecturer of Cytology and Histology** (Aug. 1990 - Aug. 1992)

Faculty of Veterinary Medicine Suez Canal University, Egypt

• **Demonstrator of Cytology and Histology** (Nov. 1986- Aug. 1990)

Faculty of Veterinary Medicine Suez Canal University, Egypt

RESEARCH PRESENTATIONS AND PUBLICATIONS

Published Books:

Headlines of Cytology and Histology, Publisher Mansoura University, Year of Publication year 2001

Practical Histology, Published, Mansoura University, Year 2001

Published Papers:

1. Osman, A.H.K., Abuzeid, S.M., Eidaroos, H. and **Marei, H.E.S.** (1990): Histogenesis of the uterus of the Egyptian water buffalo (*Bos bubalis* L.). *Zagazig Vet, J.* 18 (3): 167-180
2. Smith, S.A., Caceci, T., **Marei, H.E.S.** and El-Habback, H.A. (1995): Observations on rodlet cells found in the vascular system and extravascular space of angelfish (*Pterophyllum Scalare Scalare*). 4. **International J. Fish Biology** 46: 241- 254
3. **Marei H.E.S.** (1996). Distribution of ANP-producing cells in the heart of *Oreochromis niloticus*: An ultrastructural and immunohistochemical study. *Assiut Vet. J* 35 (70), 234-265.
4. **Marei H. E.S.** and Osman A.H. K. (1996). An ultrastructural and immunohistochemical study of the chicken's endocrine heart. *Assiut Vet. J.* 35 (70), 176-187.
5. **Marei H.E.S.** (1997). The effects of seasonal variation on the structure of the seminiferous epithelium and the testicular interstitial gland cells of goat. *Egypt.J. Histol.* 21 (1), 75-88
6. **Marei H.E.S.** and H. A. EL. Habback (1997). Ultrastructure of the luminal immunocompetent cells of the chicken's air Passageways. *Cairo Vet. Med. J.*, 47(2), 277-289
7. **Marei H. E.S.** (1998). Prenatal differentiation of the epididymal ductal epithelium in camels. *Cairo Vet.Med. J.*, 47 (2), 277-289
8. El- Habback H.A and **Marei H. E.S.** (1998). The possible origin and function of rodlet cell: In *Oreochromis Niloticus*. *Egypt. J. Histol.* 20 (1), 135-150



9. Youssef G. A. and **Marei H. E.S.** (1999). Immunohistochemical localization of S-I00 protein and its subunits in bovine exocrine glands. *Zagazig Vet. Med. J.*, 26 (3), 161-175
10. **Marei H. E.S.** and El-Gawad M.A, (2001). Differentiation of ciliated cells in the terminal bronchioles of neonatal calves. *European Journal of Morphology* 39 (5): 269-276
11. **Marei H. E.S.** and El- Habback, H.A (2002) Ultrastructure of the non-ciliated bronchiolar epithelial (Clara) cells in the lungs of neonatal rabbits. *Mansoura Medical Veterinary Journal* 4 (2): 169-183
12. **Marei H. E.S.** (2002) Fine structure and immunohistochemical localization of cardiac hormones (ANP) in the right atrium and hypothalamus of white rat. *European Journal of Morphology* 40 (1): 37-41
13. **Marei H. E.S.** (2003) Ultrastructure of mitochondria-rich cells in the gill epithelium of oreochromis niloticus. *Mansoura Medical Veterinary Journal* 5 (1): 1-2
14. El- Habback, H.A; Emara, S. A. and Marei H. E.S. (2003) Light and electron microscopic studies on the posterior kidney of Oreochromis niloticus. *Mansoura Medical Veterinary Journal* 5 (1): 111-132
15. **Marei H. E.S.** and El- Habback, H.A. (2003) Ultrastructural and immunohistochemical localization of ANP-producing cells in the heart of rabbits. *Mansoura Medical Veterinary Journal* 5 (2): 1-23
16. **Marei H. E.S.** (2003) Structure of the spleen of the Nile tilapia (*Oreochromis niloticus*): light and electron microscopic studies. *Mansoura Medical Veterinary Journal* 5 (1): 154-133
17. Osman AH, Yuge S, Hyodo S, Sato S, Maeda S, **Marei H E S**, Caceci T, Birukawa N, Urano A, Nature K, Naruse M, Takei Y (2004) Molecular identification and immunohistochemical localization of atrial natriuretic peptide in the heart of the dromedary camel (*Camelus dromedaries*). *Comp Biochem Physiol A Mol Integ. Physiol.* 2004 Dec; 139(4):417-24.
18. [Abd-Elmaksoud A](#), [Sayed-Ahmed A](#), [Mohamed SE](#), [Mohamed K](#), [Marei HE](#). (2008) Morphological and glycohistochemical studies on the epididymal region of the Sudani duck (*Cairina moschata*). *Res Vet Sci.* 2008 Jun 27.



19. **Marei HES**, Althani A, Afifi N, Michetti F, Pescatori M, et al. (2011) Gene Expression Profiling of Embryonic Human Neural Stem Cells and Dopaminergic Neurons from Adult Human Substantia Nigra. PLoS ONE 6(12): e28420. doi:10.1371/journal.pone.002842024. \
20. **Marei HES**, Ahmed A-E, Michetti F, Pescatori M, Pallini R, et al. (2012) Gene Expression Profile of Adult Human Olfactory Bulb and Embryonic Neural Stem Cell Suggests Distinct Signaling Pathways and Epigenetic Control. PLoS ONE 7(4): e33542. doi:10.1371/journal.pone.0033542
21. **Hany E.S. Marei**, **Abd-Elmaksoud Ahmed** (2012) Transcription factors expressed in embryonic and adult olfactory bulb neural stem cells reveals distinct proliferation, differentiation and epigenetic control. DOI information: 10.1016/j.ygeno.2012.09.006
22. **Hany E.S. Marei**, Althani A, Afifi N, Camilla Bernardini, Fabrizio Michetti, Marta Barba Mario Pescatori, Giulio Maira, Emanuela Paldino, Luigi Manni, Patrizia Casalbore, and Carlo Cenciarelli (2013) Over-expression of hNGF in Adult Human Olfactory Bulb Neural Stem Cells Promotes Cell Growth and Oligodendrocytic Differentiation. PLoS ONE (accepted for publication).
23. **Marei HE**, Farag A, Althani A, Afifi N, Abd-Elmaksoud A, Lashen S, Rezk S, Pallini R, Casalbore P, Cenciarelli C. (2015) [Human Olfactory Bulb Neural Stem Cells expressing hNGF Restore Cognitive Deficit in Alzheimer's Disease Rat Model.](#) J Cell Physiol. 2015 Jan;230(1):116-30. doi: 10.1002/jcp.24688.
24. **Marei HE**, Samah Lashen, Amany Farag, Asma Althani, Nahla Afifi, Abd-Elmaksoud A, Shaymaa Rezk, Roberto Pallini, Patrizia Casalbore, and Carlo Cenciarelli (2014) Human Olfactory Bulb Neural Stem Cells [Mitigates Movement Disorders in a Rat Model of Parkinson's disease.](#) J Cell Physiol. 2014 Dec 23. doi: 10.1002/jcp.24909. [Epub ahead of print].
25. Abd-Elmaksoud A, Shoeib MB, **Marei HE** (2014) Localization of S-100 proteins in the testis and epididymis of poultry and rabbits. Anat Cell Biol. 2014 Sep;47(3):180-7. doi: 10.5115/acb.2014.47.3.180. Epub 2014 Sep 23.



26. Carlo Cenciarelli, **Marei HE**, Manuela Zonfrillo, Pasquale Pierimarchi, Emanuela Paldino, Patrizia Casalbore, Armando Felsani, Angelo Luigi Vescovi, Giulio Maira, and Annunziato Mangiola (2014) PDGF Receptor Alpha Inhibition Induces Apoptosis in Glioblastoma Cancer Stem Cells Refractory to Anti-Notch and Anti-EGFR Treatment. *Mol Cancer*. 2014 Nov 8;13:247. doi: 10.1186/1476-4598-13-247.
27. **Marei HE**, and Asmaa Althani (2015) Common and rare variants associated with Alzheimer's disease. (Accepted, *Journal of Cellular Physiology*), 2015
28. **Marei HE**, Asma Althani, Shima Rezk, Nahla Afifi, Abd-Elmaksoud A, Amany Farag, Samah Lashen, Roberto Pallini, Patrizia Casalbore, and Carlo Cenciarelli (2014) Adult Human Olfactory Bulb Neural Stem for cell based therapy of Spinal Cord Injury in rat (*Accepted for Publication in Spinal Cord*, 2015).
29. Asmaa Althani, **Marei HE**, Wedad S Hamdi, Nasrallah GK, Mohamed El Zowalaty, Souhaila Al Khdor, Maha Al Asmakh, and Hassan Abdel-Aziz (2015) Human microbiome and its association with health and diseases. *PLOS ONE* (Under Publication).

Book Chapters:

Marei HE, Asmaa Althani, Mohamed El Zowalaty, Carlo Cenciarelli (2015) Recent perspective about the amyloid cascade hypothesis and stem cell-based therapy in the treatment of Alzheimer's disease (Accepted for publication as a book chapter with Bentham Science Publishers (eBook series "Frontiers in Clinical Drug Research-Alzheimer Disorder; Vol. 4").

Theses Supervision:

Master Thesis

1. Ontogeny of Primary Immune Organs in Some Chickens Breeds Ontogeny of thymus and spleen in Camel's (Faculty of Veterinary Medicine, Mansoura University, Egypt). **Finished.**
2. Effects of seasonal variation on the histological structure of the accessory male glands of the camel (*Camelus dromedaries*). (Faculty of Veterinary Medicine, Mansoura University, Egypt). **Finished.**
3. Pre- and post-hatching development of Harderian gland and Bursa of Fabricius in Chicken. (Faculty of Veterinary Medicine, Mansoura University, Egypt). **Finished.**
4. Histological Studies of the Digestive System of *Oreochromis niloticus* using Virtual Microscopy. (Faculty of Veterinary Medicine, Mansoura University, Egypt). **Finished.**
5. Effects of seasonal variation on the histological structures of gonads in *Oreochromis niloticus*. (Faculty of Veterinary Medicine, Mansoura University, Egypt). **Finished.**



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6. Genomic and Immunohistochemical Study for Assessment of Therapeutic Potential of Human Olfactory Bulb Neural Stem Cells in Spinal Cord Rat Model. (Faculty of Veterinary Medicine, Mansoura University, Egypt). **Expected defense date 2012.**

PhD Thesis

1. Differentiation of Cattle's mesenchymal stem cell: Electron Microscopy, Immunohistochemical and Molecular Studies. (Faculty of Veterinary Medicine, Mansoura University, Egypt). **Expected defense date 2013**

2. Genomic and Immunohistochemical Study for Assessment of Therapeutic Potential of Human Olfactory Bulb Neural Stem Cells in Alzheimer's Rat Model. (Faculty of Veterinary Medicine, Mansoura University, Egypt). **Finished**

3. Genomic and Immunohistochemical Study for Assessment of Therapeutic Potential of Human Olfactory Bulb Neural Stem Cells in Parkinsonian's Rat Model (Faculty of Veterinary Medicine, Mansoura University, Egypt). **Finished**

4. Histological Evaluation for The Use of Nanotubes Impregnated Human Olfactory Bulb Neural Stem Cells for TMT- induced Neurodegeneration in Rats. (Faculty of Veterinary Medicine, Mansoura University, Egypt). **Finished**

5. Potentialities of Neural Stem Cell-based Therapy in Spinal Cord Injury of Rats : Immunohistochemical Study. (Faculty of Veterinary Medicine, Mansoura University, Egypt). **Finished**

6. Immunohistochemical Assessment of Neural Stem Cell-based Therapy in Alzheimer. (Faculty of Veterinary Medicine, Mansoura University, Egypt). **Finished.**

7. Immunohistochemical Assessment of Neural Stem Cell-based Therapy in Parkinsonian. (Faculty of Veterinary Medicine, Mansoura University, Egypt). **Finished.**

8. Differentiation of Cattle s Mesenchymal Stem Cells Electron Microscopy Immunohistochemical and Molecular Studies. (Faculty of Veterinary Medicine, Mansoura University, Egypt). **Expected defense date 2015.**

9. Analysis of Multilineage Differentiation Potential of naive Human Olfactory Bulb Neural Stem Cells in Response to Overexpression of Chondroitinase ABC gene. **Expected defense date 2016.**

10. Analysis of Multilineage Differentiation Potential of Human Olfactory Bulb Neural Stem Cells in Response to Overexpression of Human Nerve Growth Factor and Chondroitinase ABC gene. **Expected defense date 2016.**

11. Differentiation of Human Olfactory Bulb Neural Stem Cells to Neurons. Gene Expression and Immunocytochemical Studies. **Expected defense date 2016.**

12. Differentiation of Human Olfactory Bulb Neural Stem Cells to Astrocytes. **Expected defense date 2016.**



Funded Projects:

A. Educational Enhancement Projects:

1. "Enhancement of Education and Development of Distance Learning Resources for Image-Based (Histology, Pathology, Radiology) Sciences.

code number C-024-L0. The project was kindly funded by HEEPF (Higher Education Enhancement Project Fund, Egypt). The allocated budget for this project was about \$ 38 000 and aimed primary at development of distance learning resources for some courses in the veterinary curriculum. You can reach the final outcomes about this project from this site: www.vetmansoura.com.

2. Title of the Project: Enhancement of Veterinary Undergraduate Students Assessment System "

Funding Agency: Program of Continuous Improvement and Qualification for Accreditation in HEI (PCIQA)

Fund Approved 1000 000 LE (\$ 145 000).

Duration: 24 months

Start Year: 2006-2007

3. Title of the Project: Continuous Improvement and Qualification of Faculty of Veterinary Medicine, Mansoura University for Accreditation"

Funding Agency: Program of Continuous Improvement and Qualification for Accreditation in HEI (PCIQA)

Fund Approved 4000 000 LE (\$580000).

Duration: 24 months

Start Year: 2010-2013

B. Stem Cell Research Project:

4. Title of the Project: Adult Human Olfactory Bulb Neural Stem Cells for Cell-based Therapies in The Central Nervous System"

Funding Agency: Science and Technology Development Fund (STDF)

Fund Approved 1000 000 LE (\$ 145 000).

Duration: 36 months

Start Year: 2009

End Year: 2014

C. Lab Accreditation and ISO Projects:

5. Title of the Project: Accreditation of Molecular Biology Unit Standards at the Central lab of Faculty of Veterinary Medicine, Mansoura University According to ISO 17025

Fund Approved 1000000 LE (\$145000)

Start Year: 2014

End Year: 2016



6. Title of the Project: Development of Human Resources Units and its Accreditation according to ISO 9001 Standards and Development of Joint Doctor of Veterinary Medicine (DVM)-like Bachelor's Degree according to American Veterinary Medical Association (AVMA) Standards.

Fund Approved 4000000 LE (\$580000).

Start Year: 2014

End Year: 2017

Workshops and Training for Quality Assurance and Accreditation:

- Three days' workshop August 2009, about Peer Reviewers.
- Work shop at Faculty of Physical Education and Sports, February 2009 about how to prepare self-evaluation report and Strategic planning.
- Three Certificates from Egyptian National Authority for Quality Assurance and Accreditation (External Reviewing, Self-Evaluation, Curriculum Maps and Indented Learning Outcomes), December 2013.

PRESENTATIONS

1. Title of presentation: Ultrastructure and immunohistochemical studies of the avian endocrine heart. Marei, H.E., T. Caceci, A.H.K. Osman (Oral presentation)

Place and Time: The 5th research day held in Virginia-Maryland Regional College of Veterinary Medicine, May 24-25, Blacksburg, Virginia, USA (1993)

2. Title of presentation: A histological approach to the camel's endocrine heart. **Marei, H.E.**, T. Caceci, A.H.K.

Place and Time: The scientific conference of the American Association of Veterinary Anatomists (AAVA) held in College of Veterinary Medicine, Minnesota University, Maniaaples , USA on July, 1993, (Oral presentation)

3. Title of presentation: Ultrastructure and immunohistochemical studies of the avian endocrine heart. **Marei, H.E.**, T. Caceci, A.H.K.

Osman.

Place and Time: The first scientific conference on electron microscopy held in El-Ismailia, EGYPT on September 13-15, 1995. (Oral presentation)

4. Title of presentation: Distribution of ANP-producing cells in the heart of Oreochromis niloticus: An ultrastructure and immunohostochemical studies. **Marei, H.E.**

Place and Time: The 19th Scientific Conference of the Egyptian Society of Histology and Cytology held in Faculty of Dentistry, Cairo University on 28 December 1995. (Oral presentation)

5. Title of presentation: An ultrastructure study on the chicken's leukocytes. **Marei, H.E.**

Place and Time: The 20th Scientific Conference of the Egyptian Society of Histology and Cytology held in Woman's College of Arts, Science and Education program, Ain Shams University on 26 December 1996. (Oral presentation)



6. Title of presentation: The possible origin and function of rodlet cells in *Oreochromis niloticus*. El-Habback H.A., **Marei, H.E.**, El-Bargeesy G.

Place and Time: The 21st Scientific Conference of the Egyptian Society of Histology and Cytology held in Faculty of Medicine, Al-Azhar University on 26 December 1997. (Oral presentation)

7. Title of presentation: Ultrastructure of luminal immunocompetent cells of the chicken's air passages. **Marei, H.E.**, El-Habback H.A.

Place and Time: The 22nd Scientific Conference of the Egyptian Society of Histology and Cytology held in Guest House-Ain Shams University on 14 December 1998. (Oral presentation)

8. Place and Time: The first International Scientific Conference organized by Faculty of Veterinary Medicine, Mansoura University held on May 9, 1999. (Oral presentation)

9. Place and Time: The 23rd Scientific Conference of the Egyptian Society of Histology and Cytology held in Guest House-Ain Shams University on 14 December 1999. (Oral presentation)

10. Place and Time: The 24th Scientific Conference of the Egyptian Society of Histology and Cytology held in Faculty of Medicine, Cairo University on 15 February 2001. (Oral presentation)

11. Title of presentation: Post-hatching development of *Oreochromis niloticus* retina. **Marei, H.E.**

Place and Time: The Second International Scientific Conference organized by Faculty of Veterinary Medicine, Mansoura University in cooperation with University of Rome: Tor Vergata: Rome-Italy, University of Sassari-Sassari-Italy held on April 8-9, 2001. (Oral presentation)

12. Place and Time: The 25th Scientific Conference of the Egyptian Society of Histology and Cytology held in Department of Histology, Faculty of Medicine, Zagazig University on January, 3 2002.

13. Title of presentation: Ultrastructure of Mitochondria-rich cells in the gill epithelium of tilapia (*Oreochromis niloticus*). **Marei, H.E.**

Place and Time: The 26th Scientific Conference of the Egyptian Society of Histology and Cytology held in Department of Histology, Faculty of Medicine, Suez Canal University on January, 9 2003. (Oral presentation)

14. Title of presentation: Ultrastructure of the nonciliated bronchiolar epithelial (Clara) cells in the lungs of neonatal rabbits. **Marei, H.E.**, El-Habback, H. A.

Place and Time: The 26th Scientific Conference of the Egyptian Society of Histology and Cytology held in Department of Histology, Faculty of Medicine, Suez Canal University on January, 9 2003. (Oral presentation)

15. Title of presentation: Electron microscopic studies of hepatic eosinophils in wild and interleukin-5 transgenic mice. **Marei, H.E.**

Place and Time: The 26th Scientific Conference of the Egyptian Society of Histology and Cytology held in Department of Histology, Faculty of Medicine, Suez Canal University on January, 9 2003. (Oral presentation)



16. Title of presentation: The immune system of fish. **Marei, H.E.**

Place and Time: The third International Scientific Conference organized by Faculty of Veterinary Medicine, Mansoura University in cooperation with University of Rome: Tor Vergata: Rome-Italy, University of Sassari-Sassari-Italy held on April, 29-30 2003. (Oral presentation)

17. Place and Time: The fourth International Scientific Conference organized by Faculty of Veterinary Medicine, Mansoura University in cooperation with University of Rome: Tor Vergata: Rome-Italy, University of Sassari-Sassari-Italy held on May 2 2004. (Oral presentation)

18. The 27th Scientific Conference of the Egyptian Society of Histology and Cytology. January, 9 2005.

19. Place and Time: The 28th Scientific Conference of the Egyptian Society of Histology and Cytology, 2006. (Oral presentation)

20. Place and Time: The 29th Scientific Conference of the Egyptian Society of Histology and Cytology, 2007. (Oral presentation)

21. Place and Time: The 30th Scientific Conference of the Egyptian Society of Histology and Cytology, 2008.

22. Title of presentation: Use of Learning Content Management System (LCMS) for Veterinary Education. **Marei, H.E.**

Place and Time: Faculty of Veterinary Medicine, Mansoura University held on May, 2009.

23. Title of presentation: How to write a Research Proposal. **Marei, H.E.** (Oral presentation)

Place and Time: Faculty of Veterinary Medicine, Mansoura University held on April 2010. (Oral presentation)

24. Title of presentation: Developing of E Courses and Multimedia. **Marei, H.E.**

Place and Time: Faculty of Veterinary Medicine, Mansoura University held on May 2010. (Oral presentation)

25. Title of presentation: Academic Standards of Post-graduate Programs. **Marei, H.E.**

Place and Time: Faculty of Veterinary Medicine, Mansoura University held on October, 2010. (Oral presentation)

26. Title of presentation: Isolation and Culture of Neural Stem Cells. **Marei, H.E.**

Place and Time: Faculty of Veterinary Medicine, Mansoura University held on December, 2010.

27. Title of presentation: Immunophenotyping and FISH of Neural Stem Cells. **Marei, H.E.**

Place and Time: Faculty of Veterinary Medicine, Mansoura University held on December, 2010. (Oral presentation)

28. Title of presentation: RT-PCR and DNA microarray for studying Gene Expression Profile of Neural Stem Cells. **Marei, H.E.**

Place and Time: Faculty of Veterinary Medicine, Mansoura University held on January, 2011. (Oral presentation)

29. Place and Time: Workshop on Stem Cell, Institute of Anatomy and Cell Biology, Università Cattolica del S. Cuore, Largo F. Vito, 1 Roma, Italy on January, 2011.

30. Place and Time: Workshop on use of Nanotechnology in Medicine, by Faculty of Medicine, Mansoura University held on May, 2011. (Attendance only)



31. Place and Time: 7th Annual Conference for Faculty of Veterinary Medicine, Mansoura University, Hurgada August 2012.

31. Title of presentation: Gene Expression Profile of Neural Stem Cells. **Marei, H.E.**

Place and Time: Mansoura University Regenerative Medicine Program (MURM, From Bench to Bedside, Mansoura 27-28th November, 2012, Satellite events (Alexandria 29th Nov- 1st December, 2012) (Oral presentation)

32. Title of presentation: Recent Advances in Stem Cell Research and Regenerative Medicine. **Marei, H.E.**

Place and Time: 8th Conference, Faculty of Veterinary Medicine, Mansoura University, Hurgada, September 2014, (Oral presentation)

33. Title of presentation Over-expression of hNGF in adult human olfactory bulb neural stem cells promotes cell growth and oligodendrocytic differentiation.

Place and Time: The Qatar Foundation Annual Research Conference 2014 (ARC'14), 18-19 November, 2014 at the Qatar National Convention Centre (QNCC). (Oral presentation)

PROFESSIONAL EXPERIENCE

- Professional Experience in the processing and examination of animal tissues for transmission electron microscopy, scanning electron microscopy, and freeze- fracture techniques.
- Dr. Marei had participated in managing and coordination of the electron microscope Research unit in Virginia-Maryland Regional College of Veterinary Medicine, Virginia Polytechnic Institute and State University, Blacksburg, Virginia, USA (1992-1994).
- Good technical experience in microtomy, ultratomy as well as cryostat sectioning.
- Professional experience in histochemistry and immunohistochemistry both at the light microscopic and electron microscopic level.
- Dr. Marei had got a professional experience in the application of E learning and blended learning at the level of Egyptian Veterinary Medical Collages during his work as a project manager for one of the HEEPF projects. (2005-present).
- Currently Dr. Marei is preparing and developing distance learning resources (CD_ROM, multimedia presentations and web sites for three image-based (Histology, Pathology and Radiology) Veterinary courses. With an ultimate objective to establish distance learning resources the entire veterinary curricula (about 27 preclinical and clinical courses).
- Dr. Marei maintain and practice consultancy to many staff members in many Egyptian universities concerning the application and implementation of e and blended learning for enhancement teaching of the entire veterinary medical courses.
- Professional experience in the application of Learning Content Management System (LCMS) and establishment of online courses for the first time in the field of veterinary medical curriculum.
- Good Knowledge of computer work (Window XP, Microsoft Word, Excel, Access, PowerPoint, Adob Photoshop, Flash, Animation, 3D Studio, Java, web design, LCMS (ATutor, Moodle, WebCT, Internet and others).
- Experience in Neural Stem Cells Isolation, and Culture.
- Experience in Immunophenotyping, RT-PCR, and DNA microarray.
- Experience in developing animals models of Alzheimer's, Parkinson's and Spinal Cord Injury.



- Accreditation of Research Lab and Institutes. ISO 15189.
- Strategic planning for Research and Educational Institutes.
- DNA microarray and bioinformatics.
- Genotyping, whole exome and whole genome sequencing software and meta-analysis (PLINK, IMPUTE2, Galaxy, STATA etc.)

COMMUNITY SERVICE:

- Presentation in City Information Center about challenge facing the new biology such as cancer and viral diseases (December 2001, 2009).
- Presentation in City Information Center about gene therapy and genetic engineering (July 2002, 2006, 2010).
- Many articles in local journal about the role of Veterinary Medicine in community service.
- How to Develop Multimedia Presentation, Faculty of Veterinary Medicine, Mansoura University (2009).
- How to write a Research Project, Faculty of Veterinary Medicine, Mansoura University (2009).
- Strategic planning for Educational Institutes, Faculty of Veterinary Medicine, Mansoura University (2010).
- Participation in more than 100 workshops, lectures, and meetings in different fields such as Genomic, genetic, Accreditation, R&D initiatives.

PROFESSIONAL AFFILIATIONS:

- American Association of Veterinary Anatomists (AAVA)
- Egyptian Society of Cytology and Histology (ESCH)
- Faculty Counsel Member
- Leader of Magic Family at College of Veterinary Medicine, Mansoura University.
- Member of the higher committee for research and postgraduate studies, Faculty of Veterinary Medicine, Mansoura University.
- Manager of E-Learning Unit at Faculty of Veterinary Medicine, Mansoura University, Egypt.
- Peer-Reviewed for CIQAAP (Continuous Enhancement and qualification of accreditation project), Mansoura University, Egypt.

AWARDS AND HONORS

- First Place Award of Excellence in Scientific Research, Ministry of Higher Education, Egypt (2012)
- Mansoura University Encouraging Award (*May 2004*)
- Man of the year 2014 nominated by Faculty Counsel, Faculty of Veterinary Medicine, Mansoura University, Egypt
- Marquis Who's Who, 2013

SPECIAL SKILLS

Computers: Microsoft Window

- Teach and work extensively on several desktop publishing and graphic design packages including Adobe Photoshop, Adobe Acrobat, Anfy Java, Flash, 3D Max Studio, Apycom, FrontPage, Dreamweaver, LCMS (Atutor, Moodle, WebCT).



- Teach and work extensively on a variety of software packages, including Microsoft PowerPoint, Microsoft Excel, Microsoft Access, Microsoft Word, Multimedia Builder, Flash, Adobe Photoshop and Prezi and others.

Internet and Web Design

- Work on Dreamweaver 4.0 & Flash 5.0 Web Design packages
- Workshop on new media and HTML Web Design, (*Spring 2005*) Cairo University, Egypt.
- Attended several on-line Internet courses (*Oct. 1995 - present*)
- Attended a full-time one-week course on Internet (*May 2005*) at the Regional Information Technology Institute (*RITI*)

Grant Proposal Writing:

- Two-day workshop on Successful Grant Proposal Writing, (*October 2005*), Mansoura University, Egypt

Languages

- Excellent spoken and written Arabic (mother tongue)
- Excellent spoken and written English
- A little knowledge of Italian.

PERSONAL DATA

- Date of Birth: 06/16/1962
- Nationality: Egyptian
- Marital Status: Married with two kids

PROMOTION COMMITTEE FOR ASSISTANCE PROFESSORS AND PROFESSORS

- Reviewer for more than 100 papers.
- Evaluation Committee for 20 Assistant Professors and Professors.
- Reviews for five projects about Stem Cells.

REFERENCES

- **Dr. Thomas Caceci**

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