

**Mohammed El-Sayed Rizk Abu El-Magd (El-Magd MA)**  
**Associate Professor of Anatomy & Embryology and Specialist of Animal Biotechnology**

Dept. Anatomy, Fac. Vet. Med, Kafrelsheikh Univ.  
 Kafrelsheikh, 33516, Egypt  
 Phone : 01068160301  
 Email : mohrizk73@yahoo.com  
 Born 26-2-1973 in Kafrelsheikh, Egypt  
 Married, 2 children (Mariam and Adam)



**Field of Specification**

- **Veterinary Anatomy and Embryology**
- **Animal Biotechnology:**  
 Transgenic animal, Gene mutations, Viral vector manipulation, IVM, IVF, ET, ICSI, Oocyte microinjection, Gene transfer, Gene therapy, Stem cell, Tissue culture and Animal cloning.
- **Molecular Biology:**  
 DNA, RNA extraction, PCR, RFLP-PCR, SSCP-PCR, Real time-PCR, Gene isolation and cloning, In situ hybridization, Northern, Western blotting, Microarray, Immunohistochemistry.

**Education/Degrees**

<b>Sep 2005 - Nov 2009</b>	PhD. Thesis title "The function and regulation of chick Ebf genes in somites development" got from Royal Veterinary College, London Univ., UK.
<b>Dec 1996 - Jun 2000</b>	MvSc. Thesis title "Early organogenesis and histogenesis of caprine stomach" got from Fac. Vet. Med. Kafrelsheikh, Tanta Univ., Egypt.
<b>Sep 1991 - Jul 1996</b>	BvSc. Very Good grade. got from Fac. Vet. Med. Kafrelsheikh, Tanta Univ., Egypt.

**Professional Experience**

<b>April 2016 till now</b>	Acting Head of Anatomy Department Fac. Vet. Med. Kafrelsheikh Univ.
<b>Jan 2016 till now</b>	Assistant Professor of anatomy and embryology. Fac. Vet. Med. Kafrelsheikh Univ.
<b>Jan 2011 till now</b>	Deputy Manager of Molecular Biology Lab. Fac. Vet. Med. Kafrelsheikh University.
<b>Jan 2010 to Jan 2016</b>	Lecturer of anatomy and embryology. Fac. Vet. Med. Kafrelsheikh Univ.
<b>Sep 2005 to Nov 2009</b>	PhD student. Royal Veterinary College, London Univ., UK
<b>Jul 2000 to Sep 2005</b>	Assistant lecturer. Dept. Anatomy, Fac. Vet. Med., Tanta Univ.
<b>Dec 1996 to Jun 2000</b>	Demonstrator. Dept. Anatomy, Fac. Vet. Med., Tanta Univ.

## International Publications

1.	Somia H. Abd allah, Sally M. Shalaby, Eman Abd-Elbary, Ayman A. Saleh, <b>Mohammed Abu El-Magd</b> , 2015. Human peripheral blood CD34+ cells attenuate oleic acid-induced acute lung injury in rats. <i>Cytotherapy</i> , 17(4):443-453.
2.	Mustafa Shukry, Tarek Kamal, Radi Ali, Foad Farrag, Essam Almadaly, Ayman A Saleh, <b>Mohammed Abu El-Magd</b> . 2015. Pinacidil and levamisole prevent glutamate-induced death of hippocampal neuronal cells through reducing ROS production. <i>Neurological Research</i> . 37, 916-923. DOI: <a href="http://dx.doi.org/10.1179/1743132815Y.0000000077">http://dx.doi.org/10.1179/1743132815Y.0000000077</a>
3.	Magdy E. Mahfouz, Mona M. Hegazi, <b>Mohammed A. El-Magd</b> and Enas A. Kasem, 2015. Metabolic and molecular responses in Nile tilapia, <i>Oreochromis niloticus</i> during short and prolonged hypoxia. <i>Marine and Freshwater Behaviour and Physiology</i> , 48 (5), 319 <a href="http://dx.doi.org/10.1080/10236244.2015.1055915">http://dx.doi.org/10.1080/10236244.2015.1055915</a>
4.	<b>El-Magd MA</b> , Ayman A. Saleh, Reda M. Abd El-Aziz, Mohammed F. Salama, 2015. The effect of RA on the chick <i>Ebf1-3</i> genes expression in somites and pharyngeal arches. <i>Development Genes Evolution</i> , 224: 245-253.
5.	<b>El-Magd MA</b> , Steve Allen, Imelda McGonnell, Ali A. Mansour, Anthony Otto, Ketan Patel, 2015. <i>Shh</i> regulates chick <i>Ebf1</i> gene expression in somite development. <i>Gene</i> , 554(1): 87-95.
6.	<b>Mohammed Abu El-Magd</b> , Abeer Zaki, Khalid Kahilo, Mohammed Barakat, Ibrahim Hassan, 2015. Effect of SNPs in Prolactin Promoter on Milk Traits in Egyptian Buffalo. <i>J Adv Dairy Res</i> , 3: 128-131.
7.	<b>El-Magd, M.A.</b> , Saleh, A.A., Farrag, F., Abd El-Aziz, R.M., Ali, H.A. and Salama, M.F., 2014. Regulation of Chick <i>Ebf1-3</i> Gene Expression in the Pharyngeal Arches, Cranial Sensory Ganglia and Placodes. <i>Cells Tissues Organs</i> . 199 (4): 278-93.
8.	Abou-Easa K, <b>El-Magd MA</b> , Tousson E, Amin Hassanin, Shukry M, Salama M, 2014. Pineal gland plays a role in gonadal development after eyelids separation in puppies. <i>Int. J. Morphol.</i> , 33(1):7-18.
9.	Saleh, A. A., Amber, K., <b>El-Magd, M. A.</b> , Atta, M. S., Mohammed, A. A., Ragab, M. M., and Abd El-Kader, H., 2014. Integrative Effects of Feeding <i>Aspergillus awamori</i> and fructooligosaccharide on Growth Performance and Digestibility in Broilers: Promotion Muscle Protein Metabolism. <i>BioMed Research International</i> , 8.
10.	Abo-Al-Ela, H. G., <b>El-Magd, M. A.</b> , El-Nahas, A. F., and Mansour, A. A., 2014. Association of a novel SNP in exon 10 of the <i>IGF2</i> gene with growth traits in Egyptian water buffalo ( <i>Bubalus bubalis</i> ). <i>Trop Anim Health Prod</i> , 46(6):947-952.
11.	<b>EL-Magd, MA</b> , Haitham G. Abo-Al-Ela, Abeer F. El-Nahas, Ayman A. Saleh and Ali A. Mansour (2014). Effects of a novel SNP of <i>IGF2R</i> gene on growth traits and expression rate of <i>IGF2R</i> and <i>IGF2</i> genes in gluteus medius muscle of Egyptian buffalo. <i>Gene</i> 540(2), 133-139.
12.	<b>El-Magd, MA</b> , Ahmed Sayed-Ahmed, Ashraf Awad, Mustafa Shukry (2013). Regulation of chick early B-cell factor-1 gene expression in feather development. <i>Acta Histochem</i> 116, 577-82.
13.	<b>EL-Magd, MA</b> ; Haitham G. Abo-Al-Ela, Abeer F. El-Nahas and Ali A. Mansour (2013). SNPs of the <i>MyoD</i> and <i>MyoG</i> genes and their association with growth traits in Egyptian water buffalo ( <i>Bubalus bubalis</i> ). <i>Indian Journal of Applied Research</i> 3 (12): 63-69.
14.	<b>EL-Magd, MA</b> ; Allen, S; McGonnell, I.; Otto, A; Patel K (2013). <i>Bmp4</i> regulates chick <i>Ebf2</i> and <i>Ebf3</i> gene expression in somite development. <i>Development Growth and Differentiation</i> 55, 710-722.
15.	<b>El-Magd-MA</b> ; Abbas H; El- kattawy AM and Mokhbatly A (2013). Novel polymorphisms of the <i>IGF1R</i> gene and their association with average daily gain in Egyptian buffalo ( <i>Bubalus bubalis</i> ). <i>Journal of Domestic Animal Endocrinology</i> 45: 105-110.

16.	Elmasry E, Omar H, Abdel Razek F, <b>El-Magd MA</b> (2013): Preliminary studies on habitat and diversity of some sea urchin species (Echinodermata: Echinoidea) on the southern Levantine basin of Egypt. The Egyptian Journal of Aquatic Research; 39:303-311.
17.	Sayed-Ahmed A, Abd-Elmaksoud A, Elnasharty M, <b>El-Magd MA</b> (2012). In situ hybridization and immunohistochemical localization of leptin hormone and leptin receptor in the seminal vesicle and prostate gland of adult rat. Acta Histochem 114(3):185-91.
18.	El-Gendy SA, Derbalah A, <b>El-Magd ME</b> (2012). Macro-microscopic study on the toepad of ostrich (Struthio camelus). Vet Res Commun 36(2):129-38.
19.	<b>Mohammed Abu El-Magd</b> (2011). The function and regulation of chick Ebf genes in somite development. 1st ed.; Lambert Academic Publishing, ISBN: ISBN-10: 3846590886   ISBN-13: 978-3846590881.
20.	<b>Mohammed Abu El-Magd</b> (2013). Buffalo myogenic genes and their association with growth traits. 1st ed.; Lambert Academic Publishing, ISBN: ISBN-10: 365943700X; ISBN-13: 978-3659437007.

### Projects/Grants

Title of the project	Role in the project	Funded by	Status	Budget (EGP)
Isolation and identification of some Egyptian buffalo genes related to growth of muscle and mammary gland tissues	Principle investigator (PI)	STDF (Targeted call)	Finished	1861600
Novel biotechnological approach to increase meat production of native (baladi) chicken through inhibition of Myostatin activity	PI	Kafrelsheikh Univ.	Finished	70000
Preparation of Molecular Biology Lab	CoPI	STDF (Capacity building project)	Finished	5000000
Marker Assisted Selection for Improving Reproductive Efficiency in Egyptian Buffaloes	Researcher A(RA)	STDF	Still	1000000
Genetic and biotechnological approaches for increase disease resistance in Nile tilapia	CoPI	STDF	Still	1000000

### Scientific awards and scholarship

1	The National Incentive Prize for Agricultural Sciences Academy of Scientific Research and Technology - ASRT	2015
2	Best talk award in the sixth scientific conference, Faculty of Veterinary Medicine, Alex University, Egypt "Production of double-muscle transgenic animals as a novel biotechnological tool for increasing meat production in Egypt".	20-22 Nov 2012
3	Best talk award in the 3rd Scientific Congress of African Association of Veterinary Anatomists, Cairo, Egypt "New trends in scientific research through application of Biotechnology"	19-20 Mar 2012

4	Best talk award in the 2 <sup>rd</sup> Scientific Congress of African Association of Veterinary Anatomists, Cairo, Egypt, "The function and regulation of chick Ebf1 gene in somite development"	20-21 Mar 2010
5	Kafrelsheikh University award for international publication, (2 international research papers)	2013
6	Kafrelsheikh University award for international publication, (4 international research papers)	2014
7	Kafrelsheikh University award for international publication, (4 international research papers)	2015
8	Kafrelsheikh University award for international publication, (1 international research papers)	2016
9	Full PhD scholarship to Royal Veterinary College, London Univ., UK from the Egyptian Ministry of Higher Education call 2004-2005.	Sep 2005 - Nov 2009

### Conferences and Presentations

1	<b>EL-Magd, MA</b> ; Advanced biotechnological approaches in veterinary medicine. The Proceedings of the fourth scientific conference, Faculty of Veterinary Medicine, Kafrelsheikh University, Egypt, 12-14 May. 2016.
2	<b>EL-Magd, MA</b> ; Production of double-muscléd transgenic animals as a novel biotechnological tool for increasing meat production in Egypt. The Proceedings of the sixth scientific conference, Faculty of Veterinary Medicine, Alex University, Egypt, 20-22 Nov. 2012 ( <b>got the prize of the best talk</b> ).
3	<b>EL-Magd, MA</b> ; Application of a novel biotechnological tool to produce double-muscléd transgenic Tilapia nilotica. Symposium on the future hopes for the development of fisheries, Faculty of Agriculture, Kafrelsheikh Univ, 10/5/2012.
4	<b>EL-Magd, MA</b> ; New trends in scientific research through application of Biotechnology. The Proceedings of the 3rd Scientific Congress of African Association of Veterinary Anatomists, Cairo, Egypt, 19-20 March. 2012: ( <b>get the prize of the best talk</b> ).
5	<b>EL-Magd, MA</b> ; The function and regulation of chick Ebf1 gene in somite development. The Proceedings of the 2 <sup>rd</sup> Scientific Congress of African Association of Veterinary Anatomists, Cairo, Egypt, 20-21 March. 2010: ( <b>get the prize of the best talk</b> ).
6	Mechanism controlling Ebf gene expression in neural crest cells and skeletal muscles. 20 <sup>th</sup> Head Group Meeting, Institute of Child Health, UCL, London, UK, 2008 ( <b>Poster</b> ).
7	Regulation of chick Ebf genes expression in somites. Internal series of Royal Veterinary College seminar, London University 2007.
8	The 29 <sup>th</sup> annual scientific conferences of Egyptian anatomical society. 17 <sup>th</sup> November 2005 Ain Shams University, Cairo, Egypt.
9	The 1 <sup>st</sup> scientific congress, fac. Vet Med Kafr El-Sheikh, Tanta University. 6- 8 May 2004 Kafrelsheikh, Egypt.

### Training courses

1. Complete (6 months) training course in Medical statistic, Royal Veterinary College (RVC), London University, (Oct. 2007 to April 2008).
2. Training Course on the Electron Microscope (SEM, TEM) Electron Microscope Centre, Faculty of Science, Cairo University, Egypt (1 week in March 2004).
3. ICDL, Tanta University; and authenticated from UNESCO, 2004.
4. Programs of FLDP (Faculty and Leadership Development Project) from the National

center for faculty leadership development.

5. TOT1 (Preparatory stage): 40 hrs (8 hrs each day from 25 to 29 Nov. 2012).
6. Trainer for the following programs: scientific research, international publication, competitive projects and leadership of research team.

### **Membership of Professional Societies**

- 1- American Association of Clinical Anatomists (AACA)
- 2- European Association of Veterinary Anatomists (EAVA)
- 3- African Association of Veterinary Anatomists (AAVA)
- 4- The Egyptian Anatomical Society (EAS)

### **Reviewer at the following journals**

1. Cells Tissues Organs
2. Gene
3. Anatomia, Histologia, Embryologia
4. Current Medicinal Chemistry
5. Reproduction in domestic animals
6. Evidence-Based Complementary and Alternative Medicine
7. African Journal of Biotechnology
8. Biodiversitas (Journal of Biological Diversity)
9. Life sciences
10. Veterinary World
11. Dairy, Veterinary & Animal Research
12. Advances in Dairy Research

### **Editorial member at the following Journals:**

1. Journal of Veterinary Sciences  
<http://www.symbiosisonlinepublishing.com/veterinary-sciences/editorialboard.php>
2. Advances in Dairy Research  
<http://www.esciencecentral.org/journals/editorialboard-advances-in-dairy-research-open-access.php>  
[http://www.esciencecentral.org/editor/Mohammed El Sayed Rizk Abu El Magd/](http://www.esciencecentral.org/editor/Mohammed_El_Sayed_Rizk_Abu_El_Magd/)
3. Journal of Dairy, Veterinary & Animal Research  
<http://medcraveonline.com/JDVAR/editorial-board>
4. International Journal of Veterinary Science and Research  
<http://www.peertechz.com/Veterinary-Science-Research/editorialboard.php>
5. International Journal of Biotechnology Applications  
<http://bioinfopublication.org/journal.php?opt=azjou&jouid=BPJ0000218&detail=editorial#>
6. Annals of Veterinary and Animal Science  
[http://www.naturepub.org/navas/Editorial\\_Board](http://www.naturepub.org/navas/Editorial_Board)

## Published genes on GenBank databases:

Gene	Accession	Gene	Accession	Gene	Accession	Gene	Accession
DGAT1(1)	JQ045621	MyoD1	KC107776	GHR5_Sal	KF957985	LPR_Man	KF976427
DGAT1(2)	KC107771	FST	KC107777	GHR5_Fay	KF957986	MYOD1	KF976428
DGAT1(3)	KC415277	aLA(1)	KC107778	GHR5_Man	KF957987	PAX7	KF976429
Myf6	KC107762	aLA(2)	KC415276	GHR5_RIR	KF957988	PIT1_Dok	KF976430
IGF-1(1)	KC107767	MyoG	KC107779	GHR5_Hub	KF957989	PIT1_Sal	KF976431
IGF-1(2)	KC668318	OPN(1)	JQ045622	GHSR7_Dok	KF957990	PIT1_Hub	KF976432
IGF1R(1)	KC107772	OPN(2)	JQ045624	GHSR7_Sal	KF957991	PIT1_Ins	KF976433
IGF1R(2)	KC415271	OPN(3)	KC415282	GHSR7_Ins	KF957992	PIT1_Man	KF976434
IGF1R(3)	KC415272	MyHC(1)	KC107768	GHSR7_Man	KF957993	SS_Dok	KF976435
IGF2	KC107769	MyHC(2)	KC107774	GHRL_Dok	KF976408	SS_Sal	KF976436
IGF2R(1)	KC107775	MyHC(3)	KC107766	GHRL_Sal	KF976409	SS_Hub	KF976437
IGF2R(2)	KC415273	LAP3	KC415278	GHRL_Hub	KF976410	SS_Ins	KF976438
GH	KC107770	LF	KC415279	GHRL_Ins	KF976411	SS_Man	KF976439
GHR.1	KC107765	ACACA	KC107764	GHRL_Man	KF976412	TSH-Dok	KF976440
GHR.2	KC415270	MBL1	KC415281	IGF1_Dok	KF976413	TSH-Sal	KF976441
Cyp19(1)	KF957994	GH4_Dok	KF957972	IGF1_Sal	KF976414	TSH-Hub	KF976442
Cyp19(2)	KF957995	GH4_Sal	KF957973	IGF1_Hub	KF976415	TSH-Ins	KF976443
Cyp19(3)	KF976406	GH4_Hub	KF957974	IGF1_Ins	KF976416	TSH-Man	KF976444
Cyp19(4)	KF976407	GH4_Ins	KF957975	IGF1_Man	KF976417	16SrRNA	KF938589
TSHR(1)	KC107763	GH4_Man	KF957976	IGF2_Dok	KF976418	qPit1	KT757372
TSHR(2)	KC415275	GH7_Dok	KF957977	IGF2_Sal	KF976419	qLPR	KT634295
XI	KF957996	GH7_Sal	KF957978	IGF2_Hub	KF976420		
PRL	KC415283	GH7_Hub	KF957979	IGF2_Ins	KF976421		
PRLR	JQ045623	GH7_Ins	KF957980	IGF2_Man	KF976422		
LP(1)	JQ045625	GH7_Man	KF957981	LPR_Dok	KF976423		
LP(2)	KC415280	GH10_Sal	KF957982	LPR_Sal	KF976424		
LPR	KC415274	GHR5_Dan	KF957983	LPR_Hub	KF976425		
Myf5	KC107773	GHR5_Dok	KF957984	LPR_Ins	KF976426		

## Thesis supervision

24 theses (8 PhD and 16 Master) from Sept. 2011 till now.

Thesis title	Institute
Identification of molecular markers associated with fertility traits in buffalo-cows	Animal and Poultry Production, Faculty of Veterinary Medicine, Moshtohor, Benha University
Comparison between herbal, and mesenchymal stem cells therapies for hepatocellular carcinoma in rat	Department of Biochemistry, Faculty of Science, Tanta University
Molecular approach for increase meat production of Egyptian buffalo	Department of Biochemistry, Faculty of Veterinary Medicine, Kafrelsheikh University.
In vitro production of double muscled transgenic Egyptian buffalo	
Genetic approaches for increasing disease resistance in Nile tilapia fish	
Effect of genetic polymorphisms on the expression of some myogenic genes and proteins in Egyptian buffaloes	Department of Biochemistry, Fac. of Vet. Med., Moshtohor, Benha University
Increase meat production of Egyptian chickens through inhibition of Myostatin activity	Department of Physiology, Fac. of Vet. Med., Moshtohor, Benha University

Molecular based remediation of cotton worm	Department of Biology, Faculty of Science, Ein Shams University
Isolation and purification of some genes and their relationship with muscle metabolism	Department of Biochemistry, Faculty of Veterinary Medicine, Kafrelsheikh University.
Identification of GH gene in blood and tissues of low and high meat yielding Egyptian buffaloes	
Histomorphological and molecular studies on the early development of skeletal muscles in El-Salam chickens	Department of Anatomy, Fac. of Vet. Med., Edfina, Alexandria University
Identification of Some SNPs Associated with Meat Production in Egyptian Water Buffalo	Dept. of Animal Production, Faculty of Veterinary Medicine, Kafrelsheikh University.
Isolation and identification of SNPs in GH gene in Egyptian chicken breeds and their association with productivity	
Identification of Some SNPs Associated with Milk Production in Egyptian Water Buffalo	Dept. of Animal Production, Fac. of Vet. Med., Kafrelsheikh University.
Physiological studies on the effect of myostatin gene and its inhibitors on muscle growth and function in Egyptian buffaloes	Dept. of Physiology, Fac. of Vet. Med., Kafrelsheikh University.
Bacteriological assessment of some meat products	Dept. of Meat Hygiene, Fac. of Vet. Med., Kafrelsheikh University.
Post-hatching development of muscles in Nile tilapia	Department of Anatomy, Faculty of Veterinary Medicine, Benha University
Effect of green tea polyphenol epigallocatechin gallate on development of cardiovascular system of chick embryo	Dept. of Molecular Biology, El-Sadat Institute of Biotechnology, El-Sadat University.
Genetic approaches for increasing disease resistance in Nile tilapia fish	Department of Biology, Faculty of Science, Tanta University
Effect of genetic polymorphisms on the expression of some lactogenic genes and proteins in Egyptian buffaloes	Department of Biochemistry, Fac. of Vet. Med., Kafrelsheikh University.
A Study on Polyol Profile as a Possible Early Index for Progression to Hepatocellular Carcinoma in Diabetic Patients Infected with Hepatitis C Virus	Department of Biochemistry, Faculty of Pharmacy, University of Suez Canal
Molecular and biochemical Effect of lead toxicity on rat testis	Department of Biochemistry, Fac. of Vet. Med., Kafrelsheikh University.
Detection of SNPs associated with increase meat production in Egyptian chicken	Dept. of Animal Production, Fac. of Vet. Med., Kafrelsheikh University.

## Others

1. Giving 16 workshops + training courses on basic techniques in molecular biology (including; PCR, RT-PCR, real time PCR, Gene cloning) and 3 workshops + training courses stem cell from October 2010 till now.
2. Production of E-learning course on Veterinary Embryology. Kafrelsheikh Univ. (2013)
3. Meeting with Noor EL donia Channel  
[http://www.youtube.com/watch?v=XnIuG87QQjc&feature=channel\\_video\\_title](http://www.youtube.com/watch?v=XnIuG87QQjc&feature=channel_video_title)
4. Meeting with OnTV Channel  
<http://www.youtube.com/watch?v=eXwmRc9EuxQ>