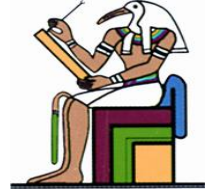




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## وحدة ضمان الجودة



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### Curriculum Vitae

#### **personal Information**

<b>Name</b>	Mohamad Warda	<b>optional photo</b>
<b>Title</b>	Professor	
<b>Date of birth</b>	27-03-1967	
<b>Place of birth</b>	Montazah - Alexandria	
<b>Citizenship</b>	Egyptian	

#### **Contact Information**

<b>Home phone</b>	(02) 26342610
<b>Work phone</b>	(02) 35682195
<b>Mobile phone</b>	01062368347
<b>E-mail (s)</b>	<a href="mailto:maawarda@eun.eg">maawarda@eun.eg</a> <a href="mailto:maawarda@hotmail.com">maawarda@hotmail.com</a>
<b>Web site (s)</b>	<a href="http://www.vet.cu.edu.eg/en/index.php/research/research-centers/94-1-prof-dr-mohamed-warda">http://www.vet.cu.edu.eg/en/index.php/research/research-centers/94-1-prof-dr-mohamed-warda</a>
<b>Current Address</b>	Cairo University Faculty of Veterinary Medicine Biotechnology Center for Services and Researches (BCSR) Cairo University – Giza 12211, Egypt.

#### **Educational Qualifications**

Ph. D., Faculty of Veterinary Medicine, Cairo University, 1998

M. Sc., Faculty of Veterinary Medicine, Cairo University, 1995

B. Sc., Faculty of Veterinary Medicine, Cairo University, 1989

#### **Academic Positions**

Professor, Biochemistry Department, Faculty of Veterinary Medicine, Cairo University, 2009



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Associate Professor, Biochemistry Department, Faculty of Veterinary Medicine, Cairo University, 2004

Lecturer, Biochemistry Department, Faculty of Veterinary Medicine, Cairo University, 1998

Assistant Lecturer, Biochemistry Department, Faculty of Veterinary Medicine, Cairo University, 1993

Demonstrator, Biochemistry Department, Faculty of Veterinary Medicine, Cairo University, 1990

### **Administrative positions**

Director of Biotechnology Center for Services and Researches

### **Thesis Title**

**M. Sc.**

Glucagon as hyperglycemic glycogenolytic hormone in one humped camel

**Ph. D.**

Osmoregulation in one humped camel

### **Areas of experience**

Biochemistry, Molecular Biology, Cell Signaling, Proteomics , Glycomics, Enzyme kinetics

### **Projects**

- **Genetically inactive PLD gene production in *Corynebacterium ovis* (C. ovis).** The project sponsored by Academy of Scientific Research. It aimed at obtaining a recombinant living attenuated vaccine against corynebacterium ovis (C. ovis) bacteria. C. ovis causes pseudotuberculosis in domestic farm animals (from 1999 to 2001). I was one of the research team that previously succeeded in **Biotechnology center-Cairo University** to produce an inactive phospholipase D enzyme from wild C. ovis analogue.
- **Genome-wide DNA Marker information transfer from cow to buffalo:** The project sponsored by Academy of Scientific Research and USDA as joint project between our Department and



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Department of Animal Science – Faculty of Agriculture – Washington State University, US (2010).

- **Running Projects:**

- **Cloning and expression of heat-stable polymerase enzyme from native thermophilic bacteria (*Thermophilus egypticus*) for commercial use:**

Thermophilic bacterial strain was natively (Sinai boiling fountain) isolated. So far, bacterial characterization and serial passage isolation in pure semisolid culture has been accomplished. Their polymerase enzyme is currently isolated. Next it will be cloned in appropriate vector for large scale expression of native Taq polymerase enzyme. The project was funded by Cairo University Grants for Excellency.

- **Virulence genotyping of native *Klebsiella species* isolated from various neonatal intensive care units by multiplex PCR**

The genus **Klebsiella** belongs to the tribe Klebsiellae with 7 species that demonstrated similarities in DNA homology. *K. pneumoniae* is responsible for most human infections. They are opportunistic pathogens found in the environment and in mammalian mucosal surfaces. **It** has been implicated in neonatal bacteremia, especially among premature infants and in neonatal intensive care units. Increasingly, the organism is being isolated from patients with neonatal septicemia. In collaboration with Faculty of Medicine at Cairo University, our research team has just started genotyping of different isolates.

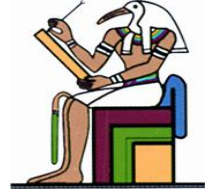
- **Isolation and molecular characterization of genetically-engineered dromedary heat shock proteins**

The molecular structural and functional studies of heat shock proteins (Hsp 20, 27) from one humped camel will be resolved for the first time. The tissue-derived specific mRNA of these Hsps will be isolated and reversely transcribed into the corresponding cDNA. The prepared cDNA of these proteins will be prepared and being cloned and in mammalian expression system. The resulting tagged-proteins will be isolated for further structural and functional studies. Structural and functional elucidation will help in understanding their extra-protection role against cellular protein misfolding in this animal with extreme desert conditions of overheat and dehydration. This is a joint



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project between our research team and Prof. Naim at Biochemistry Department – Veterinary Medical School – Hanover. The Project is funded by German Exchange Services (DAAD)

○ **Development of novel biomarkers for early detection of HCV-related hepatocellular carcinoma (HCC) using lymphocytic proteomic screening**

It is a joint project with members of Biochemistry Department and National Cancer Institute at Faculty of Medicine – Cairo University and Cancer.

Since Egypt is a land with great endemic history of HCV infection with consequent development of malignant hepatoma, we are aiming in this project at developing a non-invasive technique that early detects or predicts HCC. We are using two-dimensional gel electrophoresis of homogenized Ficoll-separated monocytes from suspected blood samples to screen the over-and/or down expressed protein spots for further characterization as novel biomarker for disease recognition.

### **Awards**

● **جوائز ومنح ومهمات علمية دولية**

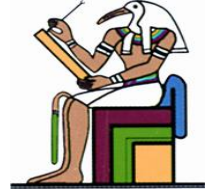
1- **Deutscher Akademischer Austauschdienst (DAAD) fellowship** (1995 – 1998) to obtain the Ph.D. (Justus-Liebig University – Germany).

2- **Max-Delbrueck Centre (MDC) for molecular medicine Post-doctoral fellow** (1998 – 1999, Berlin – Germany).



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3- **Royal Society of Science fellowship at Medical Research Council** (Cambridge – United Kingdom, 1999 - 2000).

4- **Iowa University Scholar at College of Pharmacy, University of Iowa – United States (2001 - 2003)**  
<http://www-heparin.rpi.edu/>

5- **Korean Research Foundation at Mitochondrial Signaling Laboratory, Department of Physiology and Biophysics, College of Medicine, Inje University, Busan-Korea**

Visiting Associate Professor (**August 2005 – 2007**).

6- **Alexander von Humboldt fellow at Chemie und Biotechnologie Department; Technischen Universität München (TUM)- Germany (August 2007 – 2008).**

For decades **TUM** is known place for chemistry pillars, including **Nobel Prize winner** since Hans Fischer (Nobel Prize Laureate in Chemistry 1930). While Alexander von Humboldt fellowship is annually granted for < 250 internationally recognized scientists that especially selected to enrich innovation in German scientific community.

➤ The Egyptian Universities Honored Incentive for recognized international publications (2009, 2013).

جوائز محلية:

جائزة الدولة التشجيعية ٢٠٠٣ - ٢٠٠٤

جائزة الاشراف على افضل رسالة ماجستير على مستوى الكلية 2010

جائزة الاشراف على افضل رسالة دكتوراة على مستوى الكلية 2013



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### Professional Qualifications

#### Conferences

- - Glycome and proteome as post-genomic tools used for medical application and biomarkers development. Cairo University-Japan international scientific forum (March 11<sup>th</sup> -15<sup>th</sup>, 2013).
  - Proteomics as compiled post-genomics insight for development of novel biomarkers: Challenges and tidings in debate. Lecture addressed at German University in Cairo, *Humboldt Kolleg: Pharmaceutical and Biotechnological Therapies Conference. Alexander von Humboldt Foundation, Germany and the German University in Cairo; 28 Sept-1 Oct 2012*  
[www.avh-kolleg2012-guc.info](http://www.avh-kolleg2012-guc.info).
  - Mammalian glycomics as a way for new pharmaceutical drugs: Evaluation of dromedary intestinal heparin. *Lecture addressed at German University in Cairo, Humboldt Kolleg: Pharmaceutical and Biotechnological Therapies Conference. Alexander von Humboldt Foundation, Germany and the German University in Cairo; 28 Sept-1 Oct 2012*  
[www.avh-kolleg2012-guc.info](http://www.avh-kolleg2012-guc.info)
  - Glycoproteomics as compiled post-genomics insight for novel biomarkers development: Challenges and tidings in debate- *9th international Meeting of Biochemistry and Biotechnology and their role in development and environment. Lecture seminar and Keynote speaker 3-6th March 2012.*
- - 13<sup>th</sup> Liposome –Workshop 1999 (March 24 – 28, 1999) Oberjoch / Allgaeu, Freiburg – Germany. D Homeostasis and function correlates in dromedary camel (Camelus dromedaries)
  - 3<sup>rd</sup> international Congress of Federation of African Societies of Biochemistry & Molecular Biology (November 14 – 16, 2000). Erythrocyte membrane of one humped camel: characterization of lipid composition, potential use for liposome preparation and application in gene transfection.
  - 1<sup>st</sup> meeting of American Society for Matrix Biology, University of Texas, MD Anderson Cancer center, Houston,



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Texas, USA, November 6 -9, 2002: Structural and functional characterization of heparan sulfate from mouse tissues.

- 40<sup>th</sup> Annual M.I.K.I. Meeting April 12 – 14, 2002, University of Illinois at Chicago: Heparan sulfate characterization from different mice tissues.
- 224<sup>th</sup> American Chemical Society National Meeting, August 18 – 22, 2002, Boston, MA, USA: Do quantitative and qualitative differences in organ tissue distribution of heparan sulfate in mice solve some mysteries of protein expression? (Addressed by Bob Linhardt)

### **Training courses**

**I organized, planned, supervised and directed several national and/or international training courses and workshops in the field of:**

**Glycomics**

**Proteomics**

**Transcriptomics**

**Stem cell and tissue engineering researches**

**Molecular biology and DNA manipulations**

**Protein separation and characterization**

**Nanotechnology**

**Biotechnology**

- **Selected Training courses:**

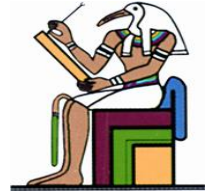
- **Selected Recent Training Courses:**

- As a director of Biotechnology Center for Services and Researches, I have recently (2013) organized 3 successive workshops on “Nanotechnology: Biomedical applications and possible threats” and the 1st workshop on “Bioinformatics gates Veterinary Biotechnology upgrade” at my Biotechnology center (BCSR). These workshops have several international attendants.



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- Planning, organizing and major participant the 2nd training course together with Medical Syndicate entitled: "Molecular diagnosis of human genetic and communicable diseases ", January 27th -31th, 2013.
- Organizer and major participant in theoretical and practical sessions of the workshop entitled: Molecular diagnosis of poultry diseases; 20-23 January, 2013. The Workshop is the first collaboration between Biotechnology Center- directed by myself- and the Unit of Diagnosis and Treatment of Poultry Diseases at Faculty of Veterinary Medicine –Cairo University. (The workshop sponsored by Pfizer pharmaceuticals-Veterinary Division).
- 1<sup>st</sup> training course in collaboration with medical syndicate entitled: Basic techniques in Molecular Biology: Gates to better understand Biotechnology 9<sup>th</sup> -12<sup>th</sup> September, 2012.
- **Selected Old Training Courses:**
  - Established and organized the training program entitled: "Principals and Applications of Biotechnology" that was held at the National Research Centre, Cairo, Egypt on October 4-22, 2009. This program is currently half-annually repeated since my initiative.
  - As representative of Biochemistry department, I planned and organized in collaboration with BCSR – Faculty of Veterinary Medicine, Cairo University- the 1<sup>st</sup> and 2<sup>nd</sup> training courses on "recent analytical methods of biochemical parameters, nucleic acids and applications of PCR" (July 2004 and July 2005).

### Computer Skills

With considerable skills in most basic software used by scientific communities, I mastered the following software:

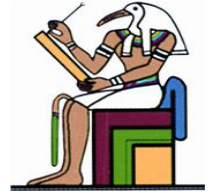
- ✓ **GraphPad Prism** for scientific graphing, comprehensive curve fitting (nonlinear regression), understandable





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statistics, and data organization.

- ✓ **Ultra ChemDraw** for stereochemistry, atom numbering, structure & style templates and full color drawing,
- ✓ Free available software related to **drug discovery and designing in silico and Virtual Screening**
- ✓ **Mendeley** software tool for publishing and managing bibliographies
- ✓ **EndNote** software tool for publishing and managing bibliographies
- ✓ **BioEdit** for sequence alignment
- ✓ **MEGA** integrated software tool for conducting sequence alignment
- ✓ **PyElph** software for gel images analysis and phylogenetics
- ✓ Many other software tools for data analyses, gene sequence alignment, primer designing e.g. **Pubmed-based** free available software...etc.

### • Language skills:

- Arabic: Mother language
- English: Excellent
- German: Excellent
- Korean: Very little

### Professional Memberships

- Arabian Molecular Biotechnology Association (**FOUNDER**)
- Arabian Stem Cells and Molecular Biology
- Egyptian Society of Biochemistry and Molecular Biology
- American Society for Matrix Biology (Previous membership)
- Korean Proteomics Association



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### **Other activities**

#### • **Assignment:**

I was selected by Cairo University to represent our Faculty for Cairo University Central laboratories. This official assignment enabled me to know all the equipments and instrumentations not only in our Faculty (including the Biotechnology Center) correspondent for central lab.

#### • **Social activities:**

- The **founder** of Arabian Molecular Biotechnology Association.
- The **founder** of Al-Deyaa family league social and scientific activities among Middle East Students.
- The **founder** of Molecular Biology Students Workshop. This annual activity is held every year in March since 2005. It aims at screening and selecting the talent students among the native community in the field with giving them the chance to improve their practical and communication skills. The workshop motivates the future scientist to prove their creativity and enthusiasm to solve scientific problems.
- The **initiator** and main organizer of faculty journal club since 2003.

The Journal club is now half-monthly held in Cairo University Staff members club to discuss with junior researchers and young faculty staffs their possible facing problems and choice the best way of solution.

### **List of publications**

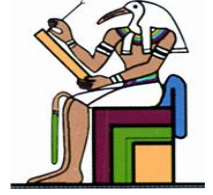
**Selected international publications related to Biochemistry, drug discovery and biotechnology:**

I focused on published international publications that are listed in the below hyperlink.



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(<http://www.ncbi.nlm.nih.gov/sites/entrez?db=pubmed&cmd=search&term=mohamad%20warda>)

**Mohamad Warda**, Abdelbary Prince, Hyoung Kyu Kim, Nagwa Khafaga, Tarek Scholkamy, Robert J. Linhardt, Han Jin. Proteomics of old world camelid (**Camelus dromedarius**): Better understanding the interplay between homeostasis and desert environment. **Journal of Advanced Research**; In press. Available online 26 March 2013

<http://www.sciencedirect.com/science/article/pii/S2090123213000350>

1. Kim HK, Park WS, **Warda M**, Park SY, Ko EA, Kim MH, Jeong SH, Heo HJ, Choi TH, Hwang YW, Lee SI, Ko KS, Rhee BD, Kim N, Han J. Beta adrenergic overstimulation impaired vascular contractility via actin-cytoskeleton disorganization in rabbit cerebral artery. **PLoS One**.7(8):e43884. 2012.
2. Ko JH, Ibrahim MA, Park WS, Ko EA, Kim N, **Warda M**, Lim I, Bang H, Han J. Cloning of large-conductance Ca(2+)-activated K(+) channel alpha-subunits in mouse cardiomyocytes. **Biochem Biophys Res Commun**. Nov 6; 389 (1):74-9. 2009.
3. **Warda M**, Zhang F, Radwan M, Zhang Z, Kim N, Kim YN, Linhardt RJ, Han J. Is human placenta proteoglycan remodeling involved in pre-eclampsia? **Glycoconj J**. 25(5):441-50. 2008.
4. Park WS, Ko JH, Kim NR, Son YK, Kang SH, **Warda M**, Jung ID, Park YM, Han J. Increased inhibition of inward rectifier K<sup>+</sup> channels by angiotensin II in small-diameter coronary artery of isoproterenol-induced hypertrophied model. **Arterioscl Throm Vasc Biol** 27(8):1768-75, 2007.
5. Park WS, Son YK, Kim NR, Ko JH, Kang SH, **Warda M**, Earm YE, Jung ID, Park YM, Han J. Acute hypoxia induces vasodilation and increases coronary blood flow by activating inward rectifier K(+) channels. **Pflugers Arch** 454(6):1023-30. 2007
6. **Mohamad Warda**, Kim HK, Kim N, Youm JB, Kang SH, Park WS, Khoa TM, Kim YH, Han J. Simulated hyperglycemia in rat cardiomyocytes: a proteomics approach for improved analysis of cellular alterations. **Proteomics**. 7(15):2570-90. 2007
7. Kim HK, Park WS, Kang SH, Warda M, Kim N, Ko JH, Prince Ael-B, Han J. Mitochondrial alterations in human gastric carcinoma cell line. **Am J Physiol Cell Physiol**. 293(2):C761-71. 2007.
8. Cuong DV, **Warda M**, Kim N, Park WS, Ko JH, Kim E, Han J. Dynamic changes in nitric oxide and



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mitochondrial oxidative stress with site-dependent differential tissue response during anoxic preconditioning in rat heart. *Am J Physiol Heart Circ Physiol*. 293(3):H1457-65. 2007.

9. Young Nam Kim, Hyoung Kyu Kim, **Mohamad Warda**, Nari Kim, Won Sun Park, Ab del Bary Prince , Dae Hoon Jeong , Dae Shim Lee , Ki Tae Kim, Jin Han, Toward a better understanding of preeclampsia: Comparative proteomic analysis of preeclamptic placentas. *Proteomics* Volume 1 Issue 12, Pages 1625 – 1636, 2007

10. Mitochondrial Ca<sup>2+</sup>-activated K<sup>+</sup> channels more efficiently reduce mitochondrial Ca<sup>2+</sup> overload in rat ventricular myocytes. Kang SH, Park WS, Kim N, Youm JB, **Warda M**, Ko JH, Ko EA, Han J. *Am J Physiol Heart Circ Physiol*. 293(1):H307-13. 2007.

11. Park WS, Son YK, Kim N, Youm JB, **Warda M**, Ko JH, Ko EA, Kang SH, Kim E, Earm YE, Han J. Direct modulation of Ca(2+)-activated K(+) current by H-89 in rabbit coronary arterial smooth muscle cells. *Vascul Pharmacol*. 46(2):105-13. 2007

12. **Warda M**, Gouda EM, El-Behairy AM, Mousa SZ. Conserved and non-conserved loci of the glucagon gene in old ruminating ungulates. *Z Naturforsch [C]*. 61(1-2):135-41. 2006world.

13. **Warda M**, Toida T, Zhang F, Sun P, Munoz E, Xie J, Linhardt RJ. Isolation and characterization of heparan sulfate from various murine tissues. *Glycoconjugate J* 23(7-8):555-63. 2006.

14. Kim N, Kim H, Youm JB, Park WS, **Warda M**, Ko JH, Han J. Site specific differential activation of ras/raf/ERK signaling in rabbit isoproterenol-induced left ventricular hypertrophy. *Biochim Biophys Acta*. 1763(10):1067-75. 2006.

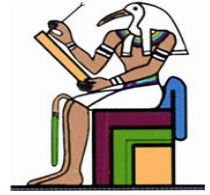
15. Kim NR, Lee YS, Kim HK, Joo H, Youm JB, Park WS, **Warda M**, Han J. Potential biomarkers for ischemic heart damage identified in mitochondrial proteins by comparative proteomics. *Proteomics*. 6(4):1237-49. 2006.

16. Cuong D, Kim NR, Youm JB, Joo H, **Warda M**, Lee JH, Park WS, Kim TH, Kang SH, Kim HK, Han J. Nitric oxide-cGMP-protein kinase G signaling pathway induces anoxic preconditioning through activation of ATP-sensitive K<sup>+</sup> channels in rat hearts. *Am J Physiol-Heart Circ Physiol*. 290(5):H1808-17. 2006.



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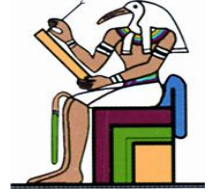
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17. **Warda M**, Linhardt RJ. Dromedary glycosaminoglycans: Molecular characterization of camel lung and liver heparan sulfate. *Comp Biochem Physiol B Biochem Mol Biol.* 143(1): 37-43. 2006.
18. Son YK, Park WS, Kim SJ, Earm YE, Kim NR, Youm JB, **Warda M**, Kim EY, Han J. Direct inhibition of a PKA inhibitor, H-89 on Kv channels in rabbit coronary arterial smooth muscle cells. *Biochem Biophys Res Commun.* 341(4): 931-937. 2006.
19. Park WS, Kim NR, Youm JB, **Warda M**, Ko JH, Kim SJ, Earm YE, Han J. Angiotensin II inhibits inward rectifier K<sup>+</sup> channels in rabbit coronary arterial smooth muscle cells through protein kinase  $\alpha$ . *Biochem Biophys Res Commun.* 341(3): 728-735. 2006.
20. Park WS, Son YK, Kim NR, Youm JB, Joo H, **Warda M**, Ko JH, Earm YE, Han J. The protein kinase A inhibitor, H-89, directly inhibits K<sub>ATP</sub> and Kir channels in rabbit coronary arterial smooth muscle cells. *Biochem Biophys Res Commun.* 340(4): 1104-1110. 2006.
21. Joon Yong Chung, Nari Kim, Hyun Joo, Joe Boum Youm, Park WS, Sang Kyoung Lee, **Warda M**, Han J. Tissue microarrays in biomedical research. *Bioinformatics and Biosystems.* 1, 28-37. 2006.
22. Vongchan P, **Warda M**, Toyoda H, Toida T, Marks M, Linhardt RJ. Structural characterization of human liver heparan sulfate. *Biochimica et Biophysica Acta*, 1721: 1-8. 2005.
23. **Warda M**, Gouda EM, Toida T, Chi L, Linhardt RJ. Isolation and characterization of raw heparin from dromedary intestine: evaluation of a new source of pharmaceutical heparin. *Comp Biochem Physiol.* 136(4):357-65. 2003.
24. **Warda M**, Mao W, Toida T, Linhardt RJ. Turkey intestine as a commercial source of heparin? Comparative structural studies of intestinal avian and mammalian glycosaminoglycans. *Comp Biochem Physiol B Biochem*



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*Mol Biol*, 134: 189–97. 2003.

25. **Warda M**, Zeisig R. Phospholipid- and fatty acid-composition in the erythrocyte membrane of the one-humped camel [*Camelus dromedarius*] and its influence on vesicle properties prepared from these lipids.

*Dtsch Tierarztl Wochenschr* Jan;108(1):36, 2001.

26. Abdel-Fattah M, Amer H, Ghoneim MA, **Warda M**, Megahed Y. Response of one-humped camel (*Camelus dromedarius*) to intravenous glucagon injection and to infusion of glucose and volatile fatty acids, and the kinetics of glucagon disappearance from the blood. *Zentralbl Veterinarmed A*. Oct;46(8):473-81. 1999.

### ➤ Review articles:

- A matter of life, death and diseases: Mitochondria from a proteomic perspective. **Mohamad Warda**, Hyoung Kyu Kim, Nari Kim, Kyung Soo Ko, Byoung Doo Rhee and Jin Han. *Expert Rev Proteomics*. Feb;10(1):97-111. 2013.
- Patents related to dengue virus infection **Mohamad Warda**, Robert J Linhardt, Rory M Marks *Expert Opinion on Therapeutic Patents*. 12: 1127-1143. 2002.

## International Patents

### براءة اختراعات (عالمية)

●

#### I- Mitochondrial enoyl coenzyme A hydratase 1 as marker for diagnosing stomach cancer

**Inventors:** Won Sun Park, Jae-Hong Ko, Na Ri Kim, Jin Han, Hyoung Kyu Kim, **Mohamad Warda**.

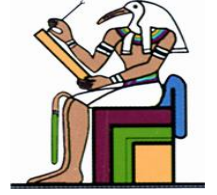
United States Patent: USPC Class: 435 25 US

<http://www.freshpatents.com/Mitochondrial-enoyl-coenzyme-a-hydratase-1-as-marker-for-diagnosing-stomach->



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[cancer-dt20080904ptan20080213816.php](http://cancer-dt20080904ptan20080213816.php)

**Importance:** The invention relates to mitochondrial protein that can be used as a marker for diagnosing stomach cancer. This comprises mitochondrial enoyl coenzyme A hydratase 1.

### II- Biomarker and composition for diagnosis of preeclampsia

United States Patent Application 20090226908

#### **Inventors:**

Park Won Sun, Kim Na Ri, **Warda Mohamad**, Han Jin.

Application Number: 12/218218 Publication Date: 09/10/2009

<http://www.freepatentsonline.com/y2009/0226908.html>

**Importance:** The invention relates to a biomarker and a composition for diagnosis of preeclampsia. In accordance, it affords a biomarker for diagnosis of preeclampsia using an enzyme selected from the group consisting of placental chondroitin 4-O-sulfotransferase 1 (C4ST), chondroitin 6-sulfotransferase (C6S), heparan sulfate 6-O-sulfotransferase 1 (HS6S), and dermatan/chondroitin sulfate 2-sulfotransferase (CS-2OST), or uronic acid-2-sulfate (UA2S).

Note: I have more than 7 national (Egyptian) patents, that I think it is not important to be included.

#### • **Gene Discovery and New Sequence citation in Gene bank:**

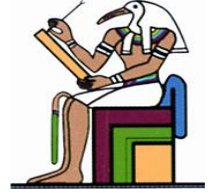
The resolved cDNA sequence of Camelus dromedarius glyceraldehyde-3-phosphate dehydrogenase gene had been installed by our team group.

ACCESSION EU331417 VERSION EU331417.1 GI:163961166



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<http://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nuccore&id=163961166>

### ***Publications statistic***

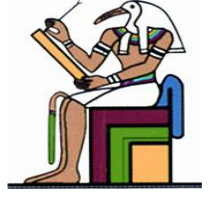
Journal's Publication		Conference's Publication		Authors			Total
Local	International	Local	International	Single	Shared		
					Internal	External	
More than 10 and not listed here	٣٠	4	8	25	5	?	>40





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