



Curriculum Vitae

Dr. Elsayed M. E. Mahdy
Professor of Biochemistry & Vice Dean
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Faculty of Science – Helwan University

PERSONAL INFORMATION

Name: Elsayed Mohamed Elsayed Mahdy
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EDUCATION

May 1978	B.Sc. in biochemistry, grade very good(75.6%), Ain Shams University, Cairo, Egypt..
April 1982	M.Sc. in chemistry (Biochemistry), Al Azhar University, Cairo, Egypt.
April 1986	Ph.D. in chemistry (Biochemistry), Al Azhar University, Cairo, Egypt.

EMPLOYMENT HISTORY

1978	Administrator, Helwan University, Cairo, Egypt.
1982	Assistant lecturer, Helwan University, Cairo, Egypt.
1986	Lecturer of biochemistry, Helwan University, Cairo, Egypt
1993	Assistant Professor of biochemistry , Helwan University, Cairo, Egypt
2002	Professor of biochemistry, Helwan University, Cairo, Egypt
2008	Head of chemistry department, , Helwan University, Cairo, Egypt
2011	Vice dean for community service & environment development

PROFESSIONAL TRAINING

- Computer Applications in Chemistry (from 23 - 28/11/96 Education Program Chemical Center - Union scientific careers)
- Draft Tnimp faculty members and leaders at the University of Helwan
- Training Program Finance (the period from 13-15/8/2005).
- The training program of Legal Affairs (13-15 / 11/2005)
- Training Program credit hours (the period from 29-30/3/2006).
- The training program design the university (the period from 19-20/7/2006).
- Program the first basic course in the field of computer-funded project
Diploma in Computer Science through the Internet in the period from 13-15/9/2005.
- Attend a training course of "strategic planning" in the period from 26-28 - October 2008.
(Center for capacity development and ongoing training at the University of Helwan).
- Attend a training course of "strategic planning for higher education institutions" in the period 30-31 Aug. 2009. (The National Authority for Quality Assurance and Accreditation).
- Participation in the committees of examinations, control panel, (Chairman of the Control Division II Division Biological)
- Participation in student committees (Technical Committee leading faculty)
- Travel on a scientific mission to the Rice University Department of Biochemistry and Cell Biology, United States of America for six months from April to October 1998. And access to a training course in safety from the University of radioactive isotopes on Rice (21/5/1998)
- Create a certificate of appreciation from the Institute of preparing leaders in Helwan on the activity observed and distinguished leadership in the field of activity in the session held.

28/6/1996 to 4/7/1996.
- ICDL

RESEARCH INTERESTS

- Environmental & occupational Preventable Diseases
- Child Health & Pediatrics
- Molecular Cancer Biology
- Molecular Biology
- Medical biochemistry
- Biotechnology & Radiation Research
- New Biomarkers in most diseases
- Biochemical Genetics
- Community Medicine
- Stem Cell Biology
- NanoBiotechnology

TEACHING INTERESTS

- 1- Molecular Biology.
- 2- Immunology.
- 3- Vitamins and Coenzymes.
- 4- Hormones.
- 5- Chemistry and Metabolism of Proteins, Lipid, Carbohydrates and Nucleic acids.

CONFERENCES AND PRESENTATIONS AT PROFESSIONAL SOCIETY MEETINGS

- 1) The Annual National Conference of the Egyptian Society of Biochemistry and Molecular Biology, April 19- 20, 2007, Cairo, Egypt.
- 2) The 8th National Conference of Biochemistry and Molecular Biology & Their Role in Development and Environment. March 4-6 , 2008.
- 3) The 6th International Conference of the Medical Sciences , December 4-6, 2007, National Research Centre, Dokki, Cairo, Egypt.
- 4) The Annual National Conference of the Egyptian Society of Biochemistry and Molecular Biology, April 22- 23, 2008, Cairo, Egypt.
- 5) The 3rd International Conference of the Enviromental Sciences & Technology , April 1-3 , 2008, National Research Centre , Dokki, Cairo, Egypt
- 6) The 2nd International Conference of the Arab Society for Medical Research November 11-13, 2008, National Research Centre, Dokki, Cairo, Egypt.
- 7) The 1st International Conference of the National Authority to ensure the quality of education and accreditation entitled "standards and the road to quality assurance and accreditation" in the period from 21-22 June 2008.
- 8) The Association of Egyptian American Scholars.
- 9) The Third International Conference of Medical Research in the Arab World-Modes of

PROFESSIONAL SOCIETIES

- 1- Member of the Egyptian Chemical Society.
- 2- Member of the Egyptian Society of Biochemistry & Molecular Biology.
- 3- Member of the Egyptian Association of Immunologists.
- 4- Member of Arab Society of Medical Research
- 5- Member of the Association of Egyptian American Scholars' Conference entitled "The Role of IT and its Scientific Applications for Egypt's advancement in the 21st Century" in the period from 26-29 December 2010 Cairo & Zagazig University Egypt.

SCIENTIFIC PROJECT

Titled "Impairment of liver-kidney function at worker exposed organic solvents"

LIST OF PUBLICATIONS:

- 1- **Mostafa, A.A.; Saber, M.A.; Borai, I.H.; Mahdy, E.M.E. and Abdel Hameed, H.A. (1989);** *In-Vitro*: isolation and Fractionation of Protein In Excretory-Secretory Product Released by Adult *Schistosoma mansoni*. *Ain Shams Medical J.*, **40(4-6)**: 223.
- 2- **Abdalla, M.S.; Shafik, E. and Mahdy, E.M.E. (1989):** Effect of thermally oxidized cottonseed oil on hepatic fatty acid composition and liver functions in rats. *J. Bio. Med. Sci. Ther.*, **5(3)**: 103.
- 3- **Mostafa, A.A.; Salem, S.; El-Husseiny, S.; Mahdy, E.M.E. and El-Sherif, H.A.W. (1989):** Biochemical changes in serum 25-hydroxy vitamin D₃, 1,25 dihydroxy vitamin D₃, parathyroid hormone, calcium and phosphorus during pregnancy and lactation. *The New Egypt. J. Med.*, **3(5)**: 1813.
- 4- **Mostafa, A.A.; Maharem, T.T.M.; Mahdy, E.M.E. and Abozahra, M.M. (1990);** Microencapsular urease for artificial renal failure. *J. Bio. Med. Sci. Ther.*, **6(1)**: 324.
- 5- **Saber, M.A.; Mostafa, A. A.; Borai, I.H.; Mahdy, E.M.E, and Abdel Hameed, H.A. (1990):** The incorporation and utilization of radiolabelled leucine, thymidine and uridine by adult *Schistosoma mansoni* in-vitro. *Ain Shams Medical J.*, **41(4-6)**: 169.
- 6- **El-Husseiny, S.; Mahdy, E.M.E. (1991):** Serum estrogens changes during pregnancy and lactation. *The New Egypt. J. Med.*, **5(2)**: 24.
- 7- **Abdalla, M. S.; Sharada, H. M.; Mahdy, E. M.E. (1991):** Some toxicologic effects of capsaicin on normal and diabetic rats. *The New Egypt. J. Med.*, **5(6)**: 655.
- 8- **El-Sabbagh, M.E. and Mahdy, E.M.E. (1991):** Biochemical effects of hot red pepper and its pungent principle capsaicin on rats brain neurotransmitters. *J. Bio. Med. Sci. Ther.*, **7(5)**: 114.
- 9- **Mahdy, K.M.E.; Atia, S.M. (1992):** Effect of diabetes mellitus on serum hormone profile in lactating women. *The New Egypt. J. Med.*, **6(2)**: 537.

- 10- **Mahdy,E.ME.; Sharada, H.M.; Abdalla,M,S. and Shousha,W.G. (1992):** Effect of ascorbic acid on serum and liver lipid composition in normal guinea pigs. *J. Bio. Med. Sci. Ther.*, **8(2): 22.**
- 11- **Sharada,H.M.; Mahdy,E.M.E.; Abdalla, M.S. and Shousha,W.G. (1992):** Influence of ascorbic acid on serum and liver lipid composition of hypercholesterolemic guinea pigs. *J. Bio. Med. Sci. Ther.*, **8(2): 29,**
- 12- **EI-Sabbagh,M.E. and Mahdy, E.M.E. (1993):** Amylase and isoamylase activities in renal insufficiency. *The New Egypt. J. Med.*, **8(1): 44**
- 13- **Amer,K.; Mahdy, E.M.E.;Ahmed.MB. and Mahmoud ,M.S.(1993):** Some studies on the hemostatic function of professional blood donors. *The New Egypt. J. Med*, **8(2): 346.**
- 14- **Bastawy,A.M.; Mahdy, E.M.E. and Ahmed,A. (1994):** Efficacy of methionine or tryptophan on glucose homostasis in endotoxin poisons rats. *J. Bio. Med. Sci. Ther.*, **10(2): 91**
- 15- **El-Sayed M.E. Mahdy; Mohga S. Abdalla; Khaled S, Abdalla and Magdy A, Madkour(1997):** Cloning and Characterization of an Osmotin Induced Gene from *Anbrocnemon glaucum* Using Differential Display Technique. *Egypt. J. -Genet. Cytol.*, **26 : 201 - 209.**
- 16- **Mona A.M. El- Gawish, El-Sayed M.E. Mahdy,Manar N.E. Hafez and Mohamed E.A. EI-Hadidy(2000) :** Protective Effects of Natural Isoflavonc on 1 ,2 - Dimethylhydrazine Carcinogenesis in Irradiated Rats. *International J. Cancer Mol. Biol.*, **7 (4): 1527-1543.**
- 17- **Tayseer M. El-Zayat , Naglaa M. Mokhtar , Naima KH Aly and El-Saycd M. E. Mahdy (2001);** Evaluation of Serum Neopterin Level in Children with Active Rheumatic Heart Disease. *Sc. J. Aş. Med. Fac. (Girls)*, **22(1): 1111.**
- 18- **Ali Khalifa, Maha Imam, Mohga Shafik, El-Sayed Mohamed and Hosam Mostafa (2001):** Biochemical studies Based on Estimation of Tumor Markers in Patients with Metastases. *International J. Cancer Mol. Biol.*, **8 (2);1625-1634.**
- 19- **E.Mahdy; Mohga Abdallah, K. Abdallah and M. Madkour(2001):** Cloning And Characterization of a cDNA Fragment Encoding Myo-Inositol- Phosphate Synthase.*Egypt. J. Genet. Cytol.*, **30 (1) : 1-16.**
- 20- **Sohair I . Salem , El - Sayed M .E . Mahdy Amin A . Shehata , and Hisham A . Orban(2001):** Biochemical Indicators of Lead Exposure in Blood and Urine of Children , *Accepted for publication in Med. J. Cairo Univ.*(2001).
- 21- **Maha Y.Z. El -Abedin, Somaya M. Abdel Ghani , Maysa T. SaIeh.;El-Sayed M. E. Mahdy and Magda A. Amer(2001):** Serum Levels of Vascular Endothelial Growth Factor and Thrombomodulin in Children With Type 1 Diabetes Mellitus, *Sc. J. Aş. Med. Fac. (Girls)*, **22(3): 991-1002.**
- 22- **Maha Y. Zein El Abedin, Sahar S. Khattab and El-Sayed M.E. Mahdy (2001):** Angiogenic Growth Factors in Childhood Hematological Malignancies, *Sc. J, Aş. Med. Fac. (Girls)*, **22(3): 975-989.**
- 23- **Wafaa, Gh. Shousha; El Sayed, M. E. Mahdy; Hossam, M. Aboulhassan and**

- Ibrahim, I. Ibrahim** (2003): In Vitro Tests of Thyroid Function and Triple Screening Marker During Pregnancy, *Med. J. Cairo Univ.*, **71(4)**:767-771.
- 24- **Mostafa,K.El-awady; Mohammad A.; Shousha,W.Gh.; El Sayed, M. E. Mahdy and Marwat.K.** (2003): Potentially modulated genes in bladder cancer. *International J. Cancer Mol. Biol.*, **10(1)** : 1909 - 1922.
- 25- **Eman,M.G.; Essawy,G.S.; Mahdy, E.M.E and Heba,H. Abdel-Mageed** (2004); DNA fragmentation and DNA-protein cross-links as oxidative damage induced by heavy metals in rats. *J. Egypt. Acad. Soc. Environ. Develop.(C-Molecular Biology)*, **5(1)**: 59-75.
- 26- **Samia, A.A.; Wafaa,GH.Shousha; Mahdy, E,M.E ;Hala,R. Wehidy and Mohamed A. Abdel Naby** (2004): Production, purification, modification and immobilization of alkaline protease from *Basillus stercrothermophilus*. *Egypt. J. Biotechnol*, **17**: 49-59
- 27- **Alice,K. Abdel Aleem; Wafaa, Gh.Shousha; Mahdy,E.M.E. and Eman,E. Abbas** (2004): Molecular analysis of FMRI gens expression and mutation in fragile-X mental retardation syndrome. *Accepted for publication in Medical J. Cairo University* (9/5/2004)
- 28- **Abdalla S.; Mahdy, E.M.E; Soliman,M.S.A. and Ramadan,D.S.** (2005): Bicremediauon of toxic aqueous solutions by using aquatic plant *Ludurgia stolonifera* (Family:Rhizophoraceae). *El-Minia Science Bulletin* **16(1)**:87-108.
- 29- **Faten,K.Abdel Hady; A.G.Hegazi; Mahdy, E.M.E.; Wafaa,GH.Shousha and Zeinab A. EL-Shahid** (2005): Inhibitory effect of some .local medicinal plants on *In-vitro* oxidative modification of low density lipoprotein. *Accepted for publication in Egypt. Pharma. J.* (24/7/2005)
- 30- **Shabon,M.H.; El-Gawish,M.; Mahdy, E.M.E.; Wafaa,GH.Shousha and Sayed,Z.** (2005): Effect of single and fractionated dose exposure to gamma radiation on hemopietic system.. *Accepted for publication in Isotope and radiation research bulletin of MERRCAC* (16/5/2005).
- 31- **Mohamed A. Mohamed; Abdel-Hady A. Abdel-Wahab; Wafaa Gh. Shousha; Elsayed M.E. Mahdy and Heba D. Mohamed** (2006): The association of polymorphic N- Acetyltransferase (NAT2) with breast cancer risk in Egyptian women. *Arab J. Biochem. & Mol. Biol.* **1(1)**: 9-16.
- 32- **Maria Luisa Genova; Nagwa M. Abd-Elsalam; El Sayed M.E. Mahdy; Andrea Bernacchia; Marco Lucarini; Gian Franco Pedulli and Giorgi Lenaz** (2006): Redox cycling of adrenaline and adrenochrome catalysed by mitochondrial complex I. *Archives of Biochemistry and Biophysics* **447**:167-173
- 33- **Abdalla, M. S., Mahdy, E. M. E., El-Gawish, M. A. Saad, T. M., and Mohammed, A. A.** (2007): Immunostmulant and Protective Effects of Grape Seed Extract and β -Glucan Against Radiation Induced Biochemical Damage in Female Rats. *Isotope & Rad. Res.*, **39(4)**:1271-1287.
- 34- **Magda A. Mohamed., Wafaa G. Shousha., ElSaid M. Mahdy, AbdElhady M. Ghazy and Manal M. Mohamed** (2007): Biochemical

- Alterations Induced in Tomato in Response to Fusarium Oxysporum Infection: Purification and Characterization of an Acidic β -1,3-Glucanase Research. *Journal of Agriculture and Biological Sciences*, **3(6)**: 939-949.
- 35- **Ehab A.Raof , Wafaa Gh.Shousha , El-Sayed M.E.Mahdy and Soheir S.Maklad (2007)**: Serodiagnosis of human intestinal schistosomiasis. *The Egyptian journal of Immunology*. **14 (1)**: 55-62.
- 36- **Magda A.Mohamed , Wafaa Gh.Shousha , El-Sayed M.Mahdy , Abd El-Hady M.Ghazy and Manal M.Mohamed (2007)**: Biochemical alterations induced in tomato in response to fusarium oxysporum infections purification and characterization of an acidic β -1,3 – glucanase. *Research of Agriculture and Biological Sciences.*, **3 (6)**: 939-949.
- 37- **Samia A. Ahmed., El-Sayed M. E. Mahdy., Om-Kolthom Hassan, Nabie, A. Saleh, and Hossam A. Goda., (2008)**: Studies on the Actability of Immobilized Bacillus acidocaldarius alpha-amylase. *Australian Journal of Basic and Applied Sciences*, **2(3)**: 466-474.
- 38- **Ussama, Z. Said, Helen, N. Saada, El-Sayed, M. E. Mahdy, Wafaa Gh. Shousah and Shereen M. Shedid (2008)**: Wheat Germ Oil Attenuates Gamma Radiation Induced Skeletal Muscles Damage in Rats. *The Egyptian Journal of Biochemistry & Molecular Biology*, **26(2)**: 101-118.
- 39- **Mona, K. Farag, Wafaa Gh. Shousha, Hala T. El-Bassyouni, El-Sayed M. Mahdy, Sara, M. Ahmed. (2008)**: Predictive Value of Biochemical Markers in Pregnancy induced Hypertension. *The Egyptian Journal of Biochemistry & Molecular Biology*, **26(2)**: 49-66.
- 40- **Afaf, S. fahmy , Mohamed O. El-Badry , Heba Allah Zein , Wafaa G Shousha and El-Sayed M.E.Mahdy (2008)**: Purification and characterization two alkaline phosphatases from camel small intestine. *The Egyptian journal of Biochemis Molecular Biology.*, **26 (1)**: 31-54.
- 41- **Hanaa H.Ahmed , El-Sayed M.E.Mahdy ,Wafaa Gh.Shousha and Mustafa K.El-Sayed(2008)**: Emerging of nutraceutical combinations in Ehrlich ascites carcinoma bearing mice. *Accepted for publication in Medical J.Cairo Univ.* 1/3/2008.
- 42- **Helen N.Saada , Khaled Sh.Azab , El-Sayed M.E.Mahdy ,Wafaa Gh.Shousha and Noura M.Thabet(2008)**: The Impact of 1,3- β -D-glucan supplemented with zin bisglycinate on γ -radiation – induced damage in rats' lymphoid tissues. *Accepted for publication in Egyptian Journal for Radiation Sciences and Applications.* 10/2/2008.
- 43- **Amr E. Hakim, Walaa H. Salama, El Sayed M. Mahdy and Shmed F. Wahby.(2009)**: Assessment of the Phospholipase A₂ Patterns of Some Egyptian Snakes Venoms. *Bull. NRC, Egypt* **33, W**: 181-191.

- 44- **Hanaa H. Ahmed, Gamal A. Elmegeed, El-Sayed M.E. Mahdy, Wafaa Gh. Shousha and Enas A.(2009):** Efficacy of Newly Synthesized Melatonin Derivatives as Antiosteoporotic Agents in Ovariectomized Rats. *Journal of Applied Sciences Research* **5(3)**: 263-282.
- 45- **Hanaa H. Ahmed, Gamal A. Elmegeed, El-Sayed M.E. Mahdy, Mervat M. Abd-Elhalim, Wafaa Gh. Shousha and Reham W. Shafic. (2010):** Potent neuroprotective role of novel melatonin derivatives For management of central neuropathy induced by acrylamide in rats. *European Journal of Medicinal Chemistry* **45**: 5452-5459.
- 46- **Galal H. Elgemeiea, Elsayed M. Mahdy, Mona A. Elgawish, Mohammad M. Ahmed, Wafaa G. Shousha, and Mohammad E. Eldin. (2010):** A New Class of Antimetabolites: Pyridine Thioglycosides as Potential Anticancer Agents. *Z. Naturforsch.* **65 c**: 577 – 587.
- 47- **Azza M. Mohamed, Mohga S. Abdallah, Maha Z. Rizk, Elsayed M.E. Mahdy, Abdel-Razik H. Farrag and Mohamed R. Mohamed. (2010):** Alleviation of dimethylnitrosamine-induced liver injury and fibrosis by supplementation of *Fortunella margarita* and *Anabasis articulate* extracts in rats. *Accepted for publication in International Journal of Toxicology*.
- 48- **Abulyazid I., Elsayed M.E. Mahdy and Ragaa M. Ahmed (2010):** Biochemical Studies for the Effect of Henna (*Lawsonia inermis*) on *Candida albicans*. *Accepted for publication in European Journal of Medicinal Chemistry* 5 October 2010.
- 49- **Saad M. EL -Gendy , Hayat Ibrahim , Elsayed Mahdy, H.F . Gomaa, Ahmed M . Rashad and Mohamed Hessien (2010):** Molecular Changes in Maspain and Bax Genes in Nitrosamine Induced Hepatocarcinogenesis. *Asian Journal of Medical Sciences* **2(5)**: 201-210.
- 50- **Abulyazid I., Elsayed M.E. Mahdy and Ragaa M. Ahmed (2010):** Biochemical study for the effect of henna (*Lawsonia inermis*) on *Escherichia coli*. *Arabian Journal of Chemistry*. In press.
- 51- **Hanaa H. Ahmed, Wagdy KB.Khalil, Wafaa G Shousha, El-Sayed M.El-Sayed, Emad F.Eskander, Rehab E .Selim (2010):** Molecular Genetic and Biochemical Evaluation of Ghrelin Hormone As A Novel Signal of Gonadal Function in Adult Male Rats. *Journal of The Arab Society for Medical Research*,**5(2)**:89-100.
- 52- **Nadia, H. Abd El-Nasser, El-Sayed, M. Mahdy, Wafaa, Gh. Shousha, Gehad, H. El Sayed (2010):** Purification and Partial Characterization of Extracellular Cellulase Free Xylanase from *Streptomyces rochei*. *Journal of Applied Sciences Research*, **6(9)**:1373-1378.
- 53- **H.H. Ahmed, F.M. Metwally, E-S.M. Mahdy, W.G. Shousha, S.S. Ramadan (2011):** Clinical value of serum hepatocyte growth factor, B-cell lymphoma-2 and nitric oxide in primary breast cancer patients. *Accepted for Publication in European Review of Medical and Pharmacological Sciences* May 4, 2011.
- 54- **Abd-Al-Aziz H. Abd-Al-Aziz, Elsayed M.E. Mahdy, Hanaa A. Amer , Wafaa G. Shoshah and Omyma M. EL Shishtawy (2011):** Autocrine

growth regulation of keloid and normal human dermal fibroblasts. *Nature and Science*, **9(4)**: 138- 143.

