

# *Curriculum Vitae*

## **Mahmoud AbdElhaleim Mahmoud Mohamed**

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### **Personal details:**

Date of Birth: July-1965-Cairo, Egypt

Marital Status: Married, have three daughters

**Education:** **1994-1998 PhD.,** Agriculture Biochemistry " Biochemical studies on water pollution"; Cairo University & Massachusetts University , Amherst Massachusetts, , USA. **1988-1991 M.Sc.,** Agriculture Biochemistry " Biochemical studies on lead pollution" Cairo University. Egypt . **1991-1994 B.Sc.(Hons),** Agriculture Biochemistry , Cairo University.

### **Career to Date:-**

- 1- Biochemistry Department , Faculty of Agriculture, Cairo University, Giza, Egypt, Demonstrator,1988-92 ; Associate lecturer, 1991-94 ; Lecturer, 1994-98; Associate professor, 1998-2003; Professor, 2008 – to date
- 2- Chemistry Department , Taif University, Faculty of Science, KSA, Visitor Professor 2009 - 2015

### **Fellowships:**

- 1- Egyptian government fellowship to conduct my PhD at Massachusetts University , Amherst Massachusetts, , USA. (1995-1998 ).

- 2- Egypt-US scientific technology research fellowship, 2001-2003 , Cairo University & US- ARS laboratories , Tifton, Georgia , USA
- 3- Egypt-US scientific technology research fellowship, 2003-2006 , Cairo University - ARS , Tifton, Georgia , USA.

**Research areas:** Biological properties of natural products and biological properties of synthetic organic compounds and Monitoring of water pollutants

### Memberships:

1-American chemical society 2000- to date. 2-Egyptian society of Biochemistry and Biotechnology 2000- to date 3-Arbitrators member of the scientific committees for promotions of faculty members at Egyptian universities, 2013-2015.

### List of Publications:

- 1- **Mohamed, M.A.**, Osman, M.A, Ghally.Y and Afify. A.M.R. "Biochemical Studies on Lead Pollution ". Fourth National Conference of Biochemistry. Sponsored by Egyptian Academic Scientific Researches.1992.
- 2- **Mohamed, M.A.**, Osman, M.A, Ghally. Y and Afify. AM.R "Effects of Some Natural Chelating Agents Decreasing lead Toxicity". Fourth National Conference of Biochemistry Chelating Agents Decreasing Lead Toxicity" Fourth National Conference of Biochemistry Sponsored by Egyptian Academic of Scientific Researches .1992.
- 3- **Mohamed, M.A.**, Osman, M.A, Potter, T and Levin.R "Lead and Cadmium in Nile River and Finished Drinking Water in Greater Cairo" . Environmental International,Vol.24No.7,PP.767-772. <http://www.sciencedirect.com/science/article/pii/S0160412098000580>
- 4- Osman, M.A., Potter, T and **Mohamed , M.A** Photochemical Degradation of Dicofol" The9<sup>th</sup> European Society for Photobiology, 18-21 September, 1999, Granada, Spain.
- 5- Afify, A.M.R., **Mohamed, M.A** and El-Shemy. H.A. Application of X-Ray Fluorescence Electron Microscope in Agriculture field. The 1<sup>st</sup> Congress of Cairo University, Faculty of Agriculture ' Recent Technologies in Agriculture", 1999.
- 6- Abdel -Rahim, E.A. Rashed, M.M, Moustafa, A.A and **Mohamed, M.A:** Biochemical studies on geranium (Pelargonium graveolens L.) treated with some plant growth regulators". Official Agricultural Science Journal of mansoura University, 1999, Egypt. ISSN 2090-362 <http://agrfac.mans.edu.eg/en/projects-research/scientific-journal>
- 7- Abdel-Rahim, E.A., Shallan, M.A., Gabr, F.A and **Mohamed, M.A.** "Effects of chocolate colorant and flavorant as food additives on energy metabolism of albino rats". The Egyptian journal of Nutrition 43,2, 200-213, 2000.
- 8-Salama, A., **Mohamed, M.A.**, Duval. A., Potter, T and Levin. R. Polychlorinated Biphenyl Concentration in Raw and Cooked North Atlantic Bluefish (Pomatomus Saltatrix ) Fillets". Agricultural and Food Chemistry Journal, March 1998. <http://lib3.dss.go.th/fulltext/Journal/J.agri.food%20chem/1998/no.4p1225-1439/1998v46n4p1359-1362.pdf>

- 9- Haiba, Iman M. and **Mohamed, M.A.** Change in nucleic , amino and fatty acids composition as bioindicators in the radiosterilized adult males of the potato tuber moth, *phthorimaea operculella* (zeller). Official Agricultural Science Journal of Mansoura University, 2001. ISSN 2090-3626 <http://agrfac.mans.edu.eg/en/projects-research/scientific-journal>
- 10- Afify, A.M.R., **Mohamed, M.A.**, A.M.Abdel-Salam and S.A.Abdelazim. Electrophoretic analysis of colostrum and mature Egyptian human milk using SDS-polyacrylamide gel. Milk Science International , Germany , 2002.
- 11- **Mohamed, M.A** and Hanaa. F. Ali "Application of photochemical oxidation techniques for treatment of contaminated water with DDT". October 2002: The 2<sup>st</sup> Congress of Cairo University, Faculty of Agriculture "Recent Technologies in Agriculture.
- 12- **Mohamed, M.A.** Anticarcinogenic effects of essential oil of *Artemisia* plant against Ehrlich ascites carcinoma cells. The first conference on the role of biochemistry in environment and agriculture, 2002.
- 13- Emad E. Tharwat.; Adel.M.M.Mazeed and **Mohamed, M.A.** Effect of essential oil *Artemisia judica* and its major component on the honeybee parasite *Varroa destructor*. Bulletin of Entomological Society of Egypt (A.R.E.). 29,75-81.2003.
- 14- Osman, M.A., **Mohamed, M.A.**, Sandak, R.N. and Abd El-Messeih, H.A. Lead level in blood and their effects on human health in Egypt. The second conference on the Role of biochemistry in environment and agriculture, 2004.
- 15- Osman, M.A., **Mohamed, M.A.**, Amaal M.Abdel-Satar and A.D.G.Al-Afify. Assessment of water quality in the Damietta branch of the Nile river, Egypt. The 2<sup>nd</sup> conference on the Role of biochemistry in environment and agriculture, 2004.
- 16- Abdel-Salam A.M., Badawy.I.H., Farrag.A H. and. **Mohamed, M.A.** Anticarcinogenic activity of colostrum, mature and fermented camel milk against the viability of Ehrlich ascites carcinoma cells (in vitro and vivo studies). The Egyptian journal of nutrition. 2004.
17. Hanaa, F.M. Ali, M.A. Osman, T.L. Potter and **M.A. Mohamed**. Monitoring of pesticides residues in river water from Egypt by solid-phase extraction followed by gas chromatography and gas chromatography-mass spectroscopy. Arab Universities Journal of Agriculture Science., Ain Shams Univ., Cairo, 2005.p-ISSN: 1110-2675
- 18-Hanaa.F.M. Ali., A.M.Ahab., and **M.A.Mohamed**. Effects of Cooking Method on Polychlorinated Biphenyl (PCBs) Levels in Karmout fish (*Clarias garifienus*). Arab Universities Journal of Agriculture Science., Ain Shams Univ, Cairo.2005.
- 19-Belal,M.H.; Eweis, E.A. and **Mohamed, M.A.** Monitoring of organic pollutants in River Nile water at Greater Cairo city: Part 1, Toxicology and Chemical Screening studies for polluted sites. The 3<sup>st</sup> Congress of Cairo University, Faculty of Agriculture "Recent Technologies in Agriculture", November 2005.
- 20- Maghraby A.S., **Mohamed, M.A.** and Abdel-Salam A.M. Anti-schistosomal activity of colostrum and mature camel milk on *Schistosoma mansoni* infected mice. Asia Pacific Journal of Clinical Nutrition. 14 (4)-432-438.2005. <http://www.ncbi.nlm.nih.gov/pubmed/16326652>
- 21-Thomas L. Potter, **Mahmoud A. Mohamed**, and Hanaa . Ali. SPE Combined with HPLC- APCI-MS Analysis of Pesticides in Water: Method Performance and Application in a Reconnaissance Survey of Residues in Drinking Water in Greater Cairo (Egypt). Agricultural and Food Chemistry Journal, (55), 204-210. 2007. <http://pubs.acs.org/doi/abs/10.1021/jf062512o>
- 22- Thomas L. Potter and **Mahmoud A. Mohamed**. Distribution of Pesticide Residues in the Nile River and Filtered Drinking water in Greater Cairo". Final Report of five years grant funded from

U.S.-Egypt Joint Scientific and Technology Board & United States Department of Agriculture, USA.

- 23- Abde-Rahim E.A, Hanaa. F. M.Ali, **Mahmoud. M.A** and Fatep;pn M. Abou ElElla Biochemical studies on the effects of Anastatica hierochuntica and Cleome chrysantha plants as hypoglycemi treatment on the carbohydrate metabolism of diabetic rats. J. of Genetic Eng. An Biotechnol. National Research Center 2005.
- 24- Foda.M.S.; M.A.M.**Mohamed.;**M.A.M. Aboul-Soud.; T.Kahil and Amira R.Asar. Production of Alkaline Protease and Mosquitocidal Biopesticide by a Strain of Bacillus Sphaericus Isolated from Egyptian Soils. Egyptian Journal of Applied Science. 22(5A), 101-124. 2007.
- 25- **Mahmoud A. Mohamed** and Abdallah S. Ammar. Quantitative Analysis Of Phthalates In Traditional Egyptian Foods.Egyptian Journal of Environmental Science. J.of Genetic Eng. and Biotechnol.(NRC)3,No.2,pp 325-337.2005.
- 26- **Mahmoud A. Mohamed** and Abdallah S. Ammar. Quantitative Analysis Of Phthalates PlasticizersIn Traditional Egyptian Foods (Koushary and Foul Medams), Black Tea, Instant Coffee and Bottled Waters by Solid Phase Extraction–Capillary Gas Chromatography–Mass Spectroscopy. American Journal of Food Technology.3 (.5) 341-346.2008.  
<http://scialert.net/qredirect.php?doi=ajft.2008.341.346&linkid=pdf>
- 27- Afify, A.S, **Mahmoud, M.A.**, Emara, H.A. and Abdelkreem, Khadega. Phenolic Compounds and COD Removal from Olive Mill Wastewater by Chemical and Biological Procedures. Australian Journal of Basic and Applied Sciences3(2): 1087-1095, 2009.  
<http://www.ajbasweb.com/ajbas/2009/1087-1095.pdf>.
- 28- M. A. Osman, **M. A. M. Mohamed**, M. H. H. Ali, A. D. G. Al-Afify. Assessment of Agriculture Drainage Water Quality to be Used for Fish Farm Irrigation. Nature and Science 01/2010; 8(8):60-74.  
[http://www.sciencepub.net/nature/ns0808/08\\_2887\\_ns0808\\_60\\_74.pdf](http://www.sciencepub.net/nature/ns0808/08_2887_ns0808_60_74.pdf)
- 29- Abd El-Moneim M. R. Afify, Mahmoud A. Mohamed , Hassan A. El-Gammal and Emad R. Attallah. Multiresidue method of analysis for determination of 150 pesticides in grapes using quick and easy method (QuEChERS) and LC-MS/MS determination. Journal of Food, Agriculture & Environment Vol.8 (2): 602-606. 2010  
<http://www.isfae.org/scientificjournal/2010/issue2/pdf/agriculture/a60.pdf>
- 30- Moamen S. Refat; W.F. El-Hawary and **MahmoudA. Mohamed**. Study of the chemical chelates and anti-microbial effect of some metal ions in nanostructural form on the efficiency of antibiotic therapy “norfloxacin drug”. Journal of Molecular Structure. Volume 1013, 11 April 2012, Pages 45–54 -10.1016/j.molstruc.2011.12.010
31. Abdel-Hafez, - Sh. H , H. A. Saad, **M. A. Mohamed**. Synthesis and pharmacological activities of some new selenium containing nucleoside analogues. Der Pharm Chemica, 2012, 4(3):915-925.  
<http://derpharmachemica.com/vol4-iss3/DPC-2012-4-3-915-925.pdf>
- 32- Mohamed M. Ibrahim , Salih Al-Juaid, **Mahmoud A. Mohamed** & M.H. Yassin. Synthesis, characterization, and antimicrobial activities of barbitalb based alkaline earth metal complexes: the X-ray crystal structure of [Ba2H(Barb)5] (Barb = 5,5-diethyl barbiturate). Journal of Coordination Chemistry Vol. 65, No. 17, 10 September 2012, 2957–2971.  
<http://dx.doi.org/10.1080/00958972.2012.705833>
- 33- Saleh Bazid; Gamil Amin and **Mahmoud A. Mohamed**. A potent biosurfactant producing bacterial strain for application in enhanced oil recovery applications. In press in Petroleum Science and Technology.2012.
- 34- Adam, AMA; Refat, M.S.and **M. A. Mohamed**. Synthesis and spectroscopic characterizations of

- noble metal complexes (gold, silver, platinum) in the presence of selenium, and their biological applications as antibacterial, antifungal, and anticancer Research on Chemical Intermediates 1-36. Published online May 2013. <http://link.springer.com/article/10.1007%2Fs11164-013-1249-2#page-1>
- 35- G. A. Amin ; S. A. Bazaid and M. Abd El-Halim. A Two-stage Immobilized Cell Bioreactor With Bacillus subtilis and Rhodococcus erythropolis for the Simultaneous Production of Biosurfactant and Biodesulfurization of Model Oil. Petroleum Science and Technology, 31:2250–2257, 2013. <http://www.tandfonline.com/doi/full/10.1080/10916466.2011.565292#.UkFHUx38GxM>
- 36- Omar B. Ibrahim, Mahmoud A. Mohamed, Moamen S. Refat. Study the chemical composition and biological outcomes resulting from the interaction of the hormone adrenaline with heavy elements: Infrared, Raman, electronic, <sup>1</sup>H NMR, XRD and SEM studies. Journal of Molecular Structure 1056-1057 (2014) 13–24. <http://www.sciencedirect.com/science/article/pii/S002228601300865X>
- 37- Omar B. Ibrahim, **Mahmoud A. Mohamed** and Moamen S. Refat. Spectroscopic and Characterization of Medical and Physical Applications of Metal Complexes of Schiff bases in nano-sized Shape: Mg(II), Ca(II) and Ba(II) Schiff base Complexes International. Journal of Innovative Research in Science, Engineering and Technology. Vol.2, Issue 11, November 2013. <http://www.ijirset.com/current-issue.html>
- 38- Omar B. Ibrahim, **Mahmoud A. Mohamed** and Moamen S. Refat. Nano Sized Schiff Base Complexes with Mn(II), Co(II), Cu(II), Ni(II) and Zn(II) Metals : Synthesis, Spectroscopic and Medicinal Studies. Canadian Chemical Transactions. 2014. Volume 2 | Issue 2 | Page 108-12. [http://www.canchemtrans.ca/uploads/journals/CCT\\_2013-0077.pdf](http://www.canchemtrans.ca/uploads/journals/CCT_2013-0077.pdf)
- 39- Laila M. Break; **Mahmoud A. Mohamed** and Abdel-Hafez, - Sh. H. Synthesis of new Organoselenium Compounds Containing Nucleosides as Antioxidant. Oriental Journal of Chemistry. 30-4-1639-1645. <http://www.orientjchem.org/pdf/vol30no4/OJCV030I04P1639-1645.pdf>
- 40- Omar B. Ibrahim, M.M. AL-Majthoub, **Mahmoud A. Mohamed**, Abdel Majid A. Adam<sup>1</sup>, Moamen S. Refat. Quick and Simple Formation of Charge Transfer Complexes of Brain and Nerves Phenytoin Drug with Different  $\pi$ -acceptors: Chemical and Biological Studies. Int. J. Electrochem. Sci., 10 (2015) 1065 – 1080. <http://www.electrochemsci.org/papers/vol10/100201065.pdf>
- 41- Abdel Majid A. Adama, T. Sharshar., **Mahmoud A. Mohamed**, Omar B. Ibrahim and Moamen S. Refat. Study of chemical bonding, physical and biological effect of metformin drug as an organized medicine for diabetes patients with chromium(III) and vanadium(IV) ions. Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy 149 (2015) 323–332 <http://www.ncbi.nlm.nih.gov/pubmed/25965516>

### Post graduate student supervision

I have Participated in the following selected Ph.D and Ms. C degree as an **active supervisor**:

- 1- Chemical and microbial studies on new Schiff- base compounds. Ms.C. Taif University , chemistry Dept. KSA, 2011.
- 2- Chemical and microbial studies on liquid by products of olive industries; Ph.D. Cairo University , Biochemistry Dept. 2010.
- 3- Biochemical and photochemical studies on pesticides degradation. Ms.C. Cairo University , Biochemistry Dept. 2010.
- 4- Chemical studies on some pesticides residue and aflatoxins as food contaminants. Ms.C - Central laboratory of pesticide food residue . Egypt. 2011.

- 5- Biochemical studies on ostrich fat. Ph.D. Cairo University , Biochemistry Dept. 2009.
- 6- Biochemical and nutritional studies on some production of proteases enzymes from producing biopesticides bacteria. Ph.D. Cairo University , Microbiology Dept. 2008.
- 7- Biochemical and biological studies on protective effect of some plants extract on liver. Ph.D. Cairo University , Biochemistry Dept. 2006.
- 8- Biochemical and nutritional studies on some synthetic and natural food additives. Ms.C. Cairo University , Biochemistry Dept. 2004.
- 9- Biochemical studies on using of PCR reaction for meats spices detection. Ms.C. Cairo University , Biochemistry Dept. 2004.
- 10- Biochemical studies on some Egyptian plants. Ph.D. Cairo University , Biochemistry Dept. 2003.

### **Referee in the following scientific journals**

- Research Journal of Environmental Sciences (Academic Journals Society)
- Research Journal of Environmental Toxicology (Academic Journals Society)
- Journal of Food and Agriculture chemistry (American Chemical Society)
- American Journal of Food Technology (Academic Journals Society)
- Biotechnology (Academic Journals Society)

### **Technical Skills:**

- 1- Experience in using different chromatographic and spectroscopic techniques like: Gas Chromatography; Gas Chromatography-Mass Spectroscopy and High Performance Liquid Chromatography.
- 2- Experience in using different experimental animals in Bioassay design.

### **Funded scientific projects**

- Pesticides Multiresidue analysis of river Nile water, granted by US-Egypt Scientific technology program- Agriculture Research Service , Tifton, USA, 2002-2006.
  - Chemical and Biological treatment of water polluted by antibiotic granted by Ministry of Aquaculture, Egypt. 2005-2007.
  - producing bacterial strain for application in enhanced oil recovery applications granted by Taif university, KSA, 2010-2011.
  - Chemical chelates and anti-microbial effect of some metal ions in nanostructural granted by Taif university, KSA, 2011-2012.
  - Chemical and anti-microbial effect of adrenalin contains some metal ions. granted by Taif university, KSA, 2012-013.
  - Chemical and anti-microbial effect of metaformine drug contains some metal ions. Granted by Taif university, KSA, 2013-015
- **Referees: Available on request.**