

Curriculum Vitae



Personal Data:

Name: Marwa Mohamed Safar

Current occupation: Assistant Professor of Pharmacology and Toxicology,
Faculty of Pharmacy, Cairo University

Date of Birth: 1/6/1976, Cairo, Egypt

Marital Status: Married with two children (M/2006, F/2009)

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Qualifications:

- **Doctor of Philosophy in Pharmaceutical Sciences (*Pharmacology & Toxicology*), Faculty of Pharmacy, Cairo University, 2009.** The defended thesis was entitled: "*Pharmacological Study of the Possible Role of Magnesium supplementation in Experimental Animals*"
- **Master Degree in Pharmaceutical Sciences (*Pharmacology & Toxicology*), Faculty of Pharmacy, Cairo University, 2004.** The defended thesis was entitled: "*Pharmacological Evaluation of Possible Antiulcer Effects of Certain Natural and Synthetic Agents in Normal and Protein Malnourished Animals*"
- **Bachelor Degree in Pharmaceutical Sciences, Faculty of Pharmacy, Cairo University, 1999 (Grade: Excellent with honor).**

University Career:

- *Lecturer* in Pharmacology & Toxicology Department, Faculty of Pharmacy, Cairo University (since 2009).
- *Assistant Lecturer* in Pharmacology & Toxicology Department, Faculty of Pharmacy, Cairo University (2004-2009).

- *Demonstrator* in Pharmacology & Toxicology Department, Faculty of Pharmacy, Cairo University (1999-2004).

Work Experiences:

I- Teaching for Under & Postgraduates:

- Pharmacology II (PO 802) for undergraduate students, Clinical Pharmacy Program, Faculty of Pharmacy, Cairo University (2013-2014, 2014-2015).
- Pharmacology I (PO 701) for undergraduate students, Clinical Pharmacy Program, Faculty of Pharmacy, Cairo University (2014-2015).
- Pharmacology II (304) for undergraduate students, Faculty of Pharmacy, Cairo University (2009-2010, 2012-2013, 2013-2014).
- Structure activity relationship course for Pharmacology Diploma students (2013-2014, 2014-2015).
- Pharmacology I (PPTX04I01) for undergraduate students, Faculty of Pharmacy, British University (2014-2015).
- Pharmacology II (PPTX05I01) for undergraduate students, Faculty of Pharmacy, British University (2014-2015).
- Medical terminology (PHM121) for undergraduate students, Heliopolis University (2013-2014).
- Clinical Pharmacy 1 (PHP-511) for undergraduate students, Faculty of Pharmacy, Misr International University (2012-2013).
- Practical courses of Pharmacology, Toxicology, and Bioassay for undergraduate students, Faculty of Pharmacy, Cairo University (1999-2009).
- Practical courses of Pharmacology Diploma (1999-2009).

II- Supervising Master & Ph.D. Degrees Theses:

- A study on the effect of stem cells as compared with dexamethasone on chemotherapy-induced pulmonary fibrosis in rats (*PhD. Thesis defended 2015; 1 international publication*).
- Study of the Possible Protective Effects of Certain Agents in Diabetic Rats Exposed to Ischemia/Reperfusion-induced Brain Injury (*PhD. Thesis defended 2015; 3*

international publication).

- Pharmacological Study of the Possible Therapeutic Effect of Certain Natural and Synthetic Drugs in Experimentally Induced Osteoporosis in Rat (*M.Sc. Thesis defended 2014; 1 international publication*).
- Antihyperlipidemic and anti-arrhythmic activities of Atorvastatin and Red Yeast Rice when used in combination with CoQ₁₀ in Rat (*M.Sc. Thesis defended 2013, awarded best Master thesis in the National Research Center that year; 1 international publication*).

Activities:

I- Extra-Departmental Activities:

- Assistant of the Vice Dean of graduate studies and research (2013-2015).
- Assistant of the Vice Dean for Community Service and Environmental Development (2012-2013).
- Academic advisor for Clinical Pharmacy Program students, Faculty of Pharmacy-Cairo University (2012-2013).
- Assistant Coordinator for Clinical Pharmacy Program, Faculty of Pharmacy-Cairo University (2009-2010).
- Executive Supervisor for FLDP courses (2005-2006).
- Member of PAQU-Pharm (2003-2006).

II- Intra-Departmental Activities:

- Department coordinator for research planning (2012-2013).
- Member of Faculty Glassware Committee (2009-2010, 2012-now).

Conferences & Workshops attended:

- Real Time PCR, workshop held at Biotechnology Centre, Faculty of Pharmacy, Cairo University (14th-15th May, 2014).
- Internal auditing according to the guidelines of ISO9001/2008, workshop given by Arab Co. for Engineering & Systems Consultations, held at Faculty of Pharmacy, Cairo University (17th -19th September 2013).
- Bioinformatics, workshop held at Biotechnology Centre, Faculty of Pharmacy, Cairo University (3th -6th April 2013).

- From active learning to learning by research, workshop held at Faculty of Pharmacy, Cairo University (12th-16th December 2012).
- Advancements in Clinical Practice and New Drug Updates 2012, workshop held at Misr International University (7th November 2012).
- 3rd International Scientific Conference of Faculty of Pharmacy, Cairo University entitled “Good Pharmacy Practice” (25th- 26th April 2012).
- Conference organized by PAQU-Pharm entitled “Leading Steps towards Accreditation” held at Dar El Defaa Al Gawy (23th December 2008).
- 1st International Conference of the Quality Assurance and Accreditation Center, entitled “Quality Assurance and Accreditation between reality and ambitions” held at Cairo University (15th April 2008).
- Workshop for training of executive supervisors organized by Faculty and Leadership Development Center (12th April 2006).
- First International Medical Education Conference held at Faculty of Medicine, Alexandria University (28th -29th April 2005).
- Attended “Faculty & Leadership Development Project” (FLDP) courses in the following subjects:
 - Scientific Writing & International Publishing.
 - Effective Communications.
 - Effective Presentations.
 - Thinking Skills.
 - Ethics of Scientific Research.
 - Using Technology in Teaching.
 - Conferences organization.
 - Legal and financial aspects in University works.
 - Management of research team.
 - Effective teaching.
 - Credit hour systems.
 - E-learning.

Memberships & Scientific Affiliations

- Member of the “*Egyptian Pharmacological Society*” (since 2013).

Publications:

I- Journals' Publications:

- Neuroprotective Effects of Pioglitazone against Transient Cerebral Ischemic Reperfusion Injury in Diabetic Rats: Modulation of Antioxidant, Anti-inflammatory, and Anti-apoptotic biomarkers (2015). *Pharmacological Reports*. [Epub ahead of print]
- Bone Marrow and Adipose-Derived Mesenchymal Stem Cells Alleviate Methotrexate-Induced Pulmonary Fibrosis in Rat: Comparison with Dexamethasone (2015). *Journal of Biochemical and Molecular Toxicology*. [Epub ahead of print]
- Neuroprotective effects of vildagliptin in rat rotenone Parkinson's disease model: role of RAGE-NFκB and Nrf2-antioxidant signaling pathways (2015). *Journal of Neurochemistry*. 133(5):700-707.
- Sitagliptin attenuates transient cerebral ischemia/reperfusion injury in diabetic rats: Implication of the oxidative-inflammatory-apoptotic pathway (2015). *Life Sciences*. 126:81-86.
- H₂S donors attenuate diabetic nephropathy in rats: Modulation of oxidant status and polyol pathway (2015). *Pharmacological Reports*. 67:17–23.
- Bone Marrow-Derived Endothelial Progenitor Cells Protect Against Scopolamine-Induced Alzheimer-Like Pathological Aberrations (2014). *Molecular Neurobiology*. [Epub ahead of print]
- Ursodeoxycholic Acid Ameliorates Apoptotic Cascade in the Rotenone Model of Parkinson's Disease: Modulation of Mitochondrial Perturbations (2014). *Molecular Neurobiology*. [Epub ahead of print]
- Red yeast rice and Coenzyme Q₁₀ as safe alternatives to surmount atorvastatin-induced myopathy in hyperlipidemic rats (2014). *Canadian Journal of Physiology and Pharmacology*. 92 (1): 481-489.
- Effect of linseed oil, fish oil and alendronate sodium on ovariectomy-induced osteoporosis in female rats (2013). *Journal of Applied Sciences Research*. 9(3): 2119-2125.
- Niosomes as a novel pharmaceutical formulation encapsulating the hepatoprotective drug silymarin (2012). *International Journal of Pharmacy and Pharmaceutical Sciences*. 4 (1): 549-559.
- Magnesium supplementation enhances the anticonvulsant potential of valproate in pentylenetetrazol-treated rat (2010). *Brain research*. 1334: 58-64.
- Effect of Long-term Treatment with Gabapentin or Magnesium on Hepatic and Renal

Functions (2008). Bulletin of Faculty of Pharmacy Cairo University. 46 (3):173-180.

II- Conferences' Participation:

- Neuroprotective effects of vildagliptin in rat rotenone Parkinson's disease model: role of RAGE-NF κ B and Nrf2-antioxidant signaling pathways. **Oral Talk** will be presented at 6th Global Diabetes Summit and Medicare Expo which is going to be held during November 2-4, 2015 at Dubai, UAE.
- Potential gastroprotective effects of aloevera, mastic and marshmallow root extracts in experimentally induced ulceration in rats. **Poster** presented at the 3rd International Conference of Pharmaceutical Sciences held at the Future University in Egypt (9th- 11th February, 2015; page 142).
- A novel role for ursodeoxycholic acid in inhibiting rotenone induced apoptotic cascade via preservation of mitochondrial function. **Poster** presented at the 54th Annual Conference of the Egyptian Society of Pharmacology and Experimental Therapeutics held at the British University in Egypt (20 December 2014).
- Neuroprotective Potential of Pregabalin through Anti-oxidant, Anti-inflammatory and Anti-apoptotic Mechanisms against Transient Ischemic/Reperfusion Injury in Diabetic Rats. **Poster** presented at the 54th Annual Conference of the Egyptian Society of Pharmacology and Experimental Therapeutics held at the British University in Egypt (20 December 2014).
- Pioglitazone Attenuates Cerebral Ischemia-Reperfusion Injury in Streptozotocin-Induced Diabetic Rats. **Poster** presented at the 5th Scientific Conference of Faculty of Pharmacy Cairo University entitled "Pharmacy at the Cutting-edge: Facing Future Challenges" held at Cairo University (23th -24th April, 2014; page 156).
- Adipose mesenchymal stem cells alleviate methotrexate-induced pulmonary fibrosis in rat; comparison with dexamethasone. **Poster** presented at the 5th Scientific Conference of Faculty of Pharmacy Cairo University entitled "Pharmacy at the Cutting-edge: Facing Future Challenges" held at Cairo University (23th -24th April, 2014; page 168).
- Bone marrow mesenchymal stem cells alleviate methotrexate-induced pulmonary fibrosis in rat; comparison with dexamethasone. **Poster** presented at the 11th National Conference of Biochemistry and Molecular Biology entitled " Disease Diagnosis & Health Care" organized by the National Committee for Biochemistry and Molecular Biology (NCBMB) and held at GuestHouse, Ain Shams University (March 30- April 1, 2014; page 28).
- Sulfurous mineral water and sodium hydrosulfide attenuate diabetic nephropathy in streptozotocin-induced diabetic rats. **Poster** presented at the 4th Scientific Conference

of Faculty of Pharmacy Cairo University entitled “Pharmacy Education & Community Expectations” held at Cairo University (24th -25th April, 2013; Page 25).

- The safety and efficacy of atorvastatin, red yeast rice alone and in combination with coenzyme Q₁₀ in treatment of hyperlipidemic male rats. **Oral Talk** at the 10th Annual Congress of Medical Sciences (ACMS) entitled “Medical Research towards Healthy Society” held at NRC (14th -16th January, 2013; pages 70-71).
- Effect of Magnesium Supplementation on the Anticonvulsant Potential of Valproate or Gabapentin against Pentylenetetrazol-induced Convulsions in Rats. **Poster** presented at the XXXI Conference of Pharmaceutical Sciences held at Dar El Defaa Al Gawy (23th -25th December, 2008).
- Protein Malnutrition Increases Susceptibility to Gastric Ulcer & Induces Oxidative Stress in Rat. **Oral Talk** at the 2nd International conference on “Recent Issues in Toxicology and Environmental Pollution” (24th -25th April, 2005).

Awards:

- Certificate of Thanks & Appreciation for effective and recognized contribution as Executive Supervisor for FLDP courses awarded by Faculty and Leadership Development Center, Cairo University (2006).
- Best assistant lecturer and/or demonstrator awarded by Dar El-Hekma (2005).

Computer Skills:

MS office, internet navigation and scientific searching.

Language Skills:

- Arabic (mother tongue).
- English (Fluent both written and spoken).
- French (Fair written and spoken).