

## ***Mahmoud Mohamed El-Mas, B Pharm, M.S., Ph.D.***

Professor, Pharmacology and Toxicology, Faculty of Medicine, Kuwait Univ., Kuwait  
Professor, Pharmacology and Toxicology, Faculty of Pharmacy, Alexandria Univ., Egypt  
Ex-Chair, National Drug Committee (Academy of Scientific Research & Technology), Egypt  
Ex-Chair, National Faculty Promotion Committee (Pharmacology & Clinical Pharmacy), Egypt  
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### **Qualifications**

- 1990 Ph.D., Pharmacology, entitled "An investigation of the relationship between presynaptic  $\alpha$ -adrenoceptors, uptake mechanism and the control of noradrenaline release", under the joint supervision of the Dept. of Pharmacology, School of Medicine, Univ. of Leeds, England, and the Dept. of Pharmacology, Faculty of Pharmacy, Alexandria Univ., Egypt.
- 1986 M.S., Pharmacology, entitled "Comparative study of some drugs used in treatment of experimental gastric ulceration", Dept. of Pharmacology, Faculty of Pharmacy, Alexandria Univ., Egypt.
- 1982 B.S., Pharmacy, with the grade of Distinction Honor, Faculty of Pharmacy, Alexandria Univ., Egypt.

### **Career History**

- 2020- Professor, Pharmacology and Toxicology, Faculty of Medicine, Kuwait Univ., Kuwait
- 2000- Professor, Pharmacology and Toxicology, Faculty of Pharmacy, Alexandria Univ., Egypt.
- 1995-2000 Associate Professor, Pharmacology and Toxicology, Faculty of Pharmacy, Alexandria Univ., Egypt.
- 1990-1995 Assistant Professor, Pharmacology and Toxicology, Faculty of Pharmacy, Alexandria Univ., Egypt.
- 1982-1990 Instructor, Pharmacology and Toxicology, Faculty of Pharmacy, Alexandria Univ., Egypt.

### **Administrative Experiences**

- 2008-2020 Chair, Department of Pharmacology, Faculty of Pharmacy, Alexandria University, Egypt.
- 2008-2020 Member, Administrative Team of the Quality Assurance Unit, Faculty of Pharmacy, Alexandria University, Egypt.
- 2008-2020 Member, Committee on Higher education and Research, Faculty of Pharmacy, Alexandria University, Egypt).
- 2005-2006 Member, Committee on Education and Undergraduate affairs, Faculty of Pharmacy, Alexandria University, Egypt.
- 2001-2002 Member, Committee on Environment and Community Development, Faculty of Pharmacy, Alexandria University, Egypt.

### **Teaching and coordination**

- 1982-1988 "Pharmacology, Toxicology, Biochemistry", Laboratory instructor to Pharmacy undergraduates, regular program.
- 1993-1995 "Pharmacology" to Pharmacy undergraduates, regular program (7<sup>th</sup> semester).
- 1999-2002 "Pharmacology" to Pharmacy undergraduates, regular program (7<sup>th</sup> semester).
- 2000-2002 "Toxicology" to Pharmacy undergraduates, regular program (9<sup>th</sup> semester).
- 2005-present "Biological Standardization" to Pharmacy undergraduates, regular program (10<sup>th</sup> semester).
- 2009-present "Cell Biology" to Clinical Pharmacy undergraduates (1<sup>st</sup> semester).
- 2013-present "Clinical pharmacology" to Clinical Pharmacy undergraduates (10<sup>th</sup> semester, final).
- 2013-present "Biological Standardization" to Clinical Pharmacy undergraduates (10<sup>th</sup> semester, final).
- 2004-2010 "Therapeutics" to Master students.
- 2007-present "Principles of Scientific Writing" to Master students.
- 2005-2017 "Advisor", professional summer training of undergraduate pharmacy students.

### **Research interests**

Cardiovascular and renal aberrations caused by inflammatory disorders such as sepsis and preeclampsia. We are interested in understanding cellular and molecular underpinnings of the pathophysiology, pharmacotherapy, peripheral and central modulation, sexual dimorphism, and gonadal hormone regulation of these pathologies.

### **Academic and Research Experience Abroad**

**July 2018** A visit to the Department of Pharmacy, University of Pisa, Italy, on an Erasmus+ mobility grant, which was funded by the European Commission, between Alexandria University, Egypt, and University of Pisa, Italy.

**Aug 2016** A visit to the Appalachian college of Pharmacy, Virginia, USA, as a representative of the Faculty of Pharmacy, Alexandria Univ., Egypt, to negotiate the terms of a “Memo of Understanding” on academic and research collaborations between the two institutions.

**May 2015** An invited visit to the Faculty of Pharmacy, King Abdulaziz University, Saudi Arabia, to participate and lecture in a workshop entitled “Recent concepts on Cardiovascular Complications”.

**Visiting Professor**, Dept. of Pharmacology and Toxicology, School of Medicine, East Carolina Univ., Greenville, NC 27858, U.S.A, for more than 11 years during the following time periods:

- |                      |                   |
|----------------------|-------------------|
| 1. Jan 1991-Jan 1993 | 2. Jun-Aug 1993   |
| 3. Jan 1996-Jun 1999 | 4. Sep-Dec 2000   |
| 5. Apr 2002-Jan 2005 | 6. Jul-Oct 2005   |
| 7. Aug-Dec 2006      | 8. July-Dec 2007  |
| 9. July-Nov 2008     | 10. July-Aug 2010 |
| 11. July-Sep 2011    | 12. July-Sep 2012 |
| 13. July-Aug 2013    | 14. Aug-Sep 2014  |

**1988-1990** Graduate student, PhD, Dept. of Pharmacology, School of Medicine, Univ. of Leeds, U.K., according to the Ph.D. joint supervision scheme between Egypt and foreign countries.

### **Editorial Board Positions**

- 2020- Associate Editor, Frontiers in Pharmacology (section: Cardiovascular and Smooth Muscle Pharmacology)  
2019- Frontiers in Clinical Pharmacology and Toxicology  
2019 EC Emergency Medicine and Critical Care  
2019- Pharmacology: Drug Action Study Journal  
2017- Egyptian Journal of Basic and Clinical Pharmacology  
2017- Journal of Alcohol  
2017- Journal of Hypertension and Immunotherapy  
2017- The Open Hypertension Journal  
2017- The Open Access Journal of Science and Technology  
2013- Naunyn-Schmiedeberg's Archives of Pharmacology  
2007- Pharmacy Times Middle East  
2007- African Journal of Pharmacy and Pharmacology

### **Emeritus Editorial Board Positions**

- 2015-2019 Consulting Editor, ChronoPhysiology and Therapy  
2010-2015 Honorary Editorial Board, ChronoPhysiology and Therapy  
2007-2009 Regional Editor Emeritus: International Journal of Pharmacology.

### **Awards & Honors**

- 2018 Best Researcher Award, Clarivate Analytics & Egyptian Knowledge Bank.  
2015/2016 Khalifa Award for Education, Distinguished University Professor in the Field of Scientific Research, United Arab Emirates (جائزة خليفة التربوية للأستاذ الجامعي المتميز في البحث العلمي).  
2016 ASPET Travel Award, Keynote speaker, Experimental Biology meeting, San Diego, California, U.S.A (April 2-6, 2016)  
2011 Alexandria University Honorary Award (جائزة جامعة الإسكندرية التقديرية), Egypt.  
2010 Distinguished Research Professor, Alexandria Univ. (جائزة الأستاذ الباحث المتميز لجامعة الإسكندرية), Egypt.

- 2007 ACDIMA award for the Top Scientific Publication in Applied Pharmaceutical Sciences, Jordan.
- 2007 Biography enlisted in the “Marquis Who's Who in the World”, 25th Anniversary Edition, and in the “Marquis Who's Who in Science and Engineering”, 10th Anniversary Edition.
- 2006 Biography enlisted in the “Marquis Who's Who in Medicine and Healthcare”, 6<sup>th</sup> Edition.
- 2006 State Prize for Scientific Excellence in Medical Sciences (جائزة الدولة للتفوق), Egypt.
- 2006 Silver Appreciation Medal (الميدالية التقديرية الفضية), General Syndicate of Pharmacists, Egypt.
- 2002 Gold Appreciation Medal (الميدالية التقديرية الذهبية), General Syndicate of Pharmacists, Egypt.
- 2000 State Prize for Scientific Encouragement in Medical Sciences (جائزة الدولة التشجيعية), Egypt.
- 1994 State Prize for Scientific Encouragement in Medical Sciences (جائزة الدولة التشجيعية), Egypt.
- 1982 Egyptian Pharmaceutical Companies' Award for top graduate in pharmaceutical sciences.
- 1980 Alexandria University Student Union's Award for undergraduate scientific distinction.

## **Research Grants**

### **Principal Investigator (PI)**

- PI, Basic and Applied Science Research Grant, the Science and Technology Research Fund (STDF ID 14895, Nov 2015- Nov 2018), Ministry of higher Education, Egypt, " Sexual and molecular dimorphism in nicotine protection against renal and hemodynamic derangements of endotoxemic shock" (763,400 L.E.).
- PI, Alex-Rep Grant (HLTH-13-01, 2014-2016), Alexandria University, Egypt "Heme oxygenase modulation of cardiovascular derangements evoked by the combined cyclosporine/NSAIDs regimen in rats: Functional, structural, and molecular studies" (130,000 L.E.).
- PI, Basic and Applied Science Research Grant, the Science and Technology Research Fund (STDF ID 502, May 2010- Nov 2013), Ministry of higher Education, Egypt, "Hemodynamic and renal effects of nicotine in rats with surgical menopause" (999,600 L.E.).
- PI, Biomedical Research Support Grant from the School of Medicine, East Carolina University, North Carolina, U.S.A. (1992-1993) "Role of glutamate receptors in the depressant effect of ethanol on baroreflexes" (US\$2,600).
- PI, American Heart Association Research Grant (1992-1993; #NC-92-GB-4) "Functional interaction between aortic baroreceptors and central  $\alpha_2$ -adrenergic and imidazole receptors" (US\$10,000).

### **Co-PI/Co-Investigator**

- Co-PI: Towards the establishment of a globally compliant Egyptian active pharmaceutical ingredient facility for critical diseases (April 2020 – April 2022), Academy of Scientific and Research Technology, Egypt (12,500,000 L.E.)
- Consultant, Grant No. 14-BIO929-03 (Jan 2018 – Jan 2020), National Science, Technology and Innovation Plan (NSTIP), strategic technologies program, Kingdom of Saudi Arabia “A novel nanoceutical formula of natural ingredients for cardiovascular complications of metabolic syndrome” (575,660 SR).
- Co-PI, Grant No. 166-110-D1437 (Jan 2016 - Sep 2016), King Abdulaziz University, Saudi Arabia, “Sex-related cardiovascular consequences of chronic prenatal exposure to cyclosporine in rats.” (35,000 SR).
- Co-PI, Grant No. 166-1001-D1435 (Jan 2015 - Sep 2015), King Abdulaziz University, Saudi Arabia, “Sexual dimorphism in cardiac performance and electrocardiographic alterations caused by chronic cyclosporine in rats” (35,000 SR).
- Chief Advisor: The Lebanese National Council for Scientific Research Grant Award for Lebanese graduates (US\$ 12,000, 2015-2017); PhD student: Safaa Hisham Hammoud, Faculty of Pharmacy, Beirut Arab University; Project title: Modulation of EDHF-mediated renovascular relaxation by CYP inducers/inhibitors in cyclosporine nephrotoxicity in rats.
- Co-Investigator, National Institute on Alcohol abuse and alcoholism grant (AA07839, 1991-1993, 1996-1999, 2002-2004), U.S.A., "Negative impact of alcohol on antihypertensive medications".
- Co-Investigator, National Institute on Alcohol abuse and alcoholism grant (AA10257, 1996-1999, 2002-2004), U.S.A., "Estrogen-dependent cardiovascular effect of ethanol".

## **Educational Grants**

Member, Course Review and Quality Assurance Committee, ERASMUS PLUS multi-beneficiaries project funded by the European Union, entitled “IT-based international Diploma and professional certificates in clinical Toxicology” (561915-EPP-1-2015-1-EG-EPPKA2-CBHE-JP, 15-10-2015 till 15-4-2019, PI: Dr. Noha Fawzy Abdelkader, Faculty of Pharmacy, Cairo University, Egypt).

### **Mobility Grants**

Staff mobility grant for training and research in the framework of the inter-institutional agreement 2016-2018 for the Erasmus+ International Credit Mobility, which was funded by the European Commission, between Alexandria University, Egypt, and University of Pisa, Italy (July 2018).

### **Academic and societal activities**

1. **2021** Member, Faculty Appointment Committee, Faculty of Pharmacy, Alalamein University, Egypt.
2. **2021** Member, Promotion Review Committee, Department of Pharmacology and Therapeutics, Faculty of Pharmacy, Kuwait University (Applicant: Dr. Maitham Khajah to the rank of full professor).
3. **2020-** Member, Phase II Examination Committee, Faculty of Medicine, Kuwait University.
4. **2018-2020** Chair, National Drug Committee (Academy of Scientific Research & Technology, Egypt).
5. **2013-2016** Chair, National Committee on Academic Faculty Promotion (Pharmacology & Clinical Pharmacy).
6. **2014-2017** Member, Pharmacology Promotion Committee (National Organization for Drug Control and Research).
7. **2014-2018** Member, National Board for Pharmacology (Academy of Scientific Research & Technology).
8. **2008-2013** Member, National Committee on Academic Faculty Promotion (Pharmacology).
9. **Reviewer** for reputable international journals including: Br J Pharmacol, Biochem Pharmacol, Neuropharmacology, J Pharmacol Exp Ther, Toxicol Appl Pharmacol, Am J Physiol Renal Physiol, Am J Physiol Renal Physiol, Reg Physiol, Am J Physiol Heart and Cir Physiol, Sci Rep, J Appl Physiol, J Neurochem, J Cell Biochem, Pharmacol Res, Frontiers in Cell and Developmental Biology, Curr Vasc Pharmacol, PLOS ONE, Neurosci Lett, Nauyn-Schmiedeberg's Arch Pharmacol, J Cardiovasc Pharmacol Ther, Brain Research, Life Sci, Hypertension Research, Eur J Pharmacol, Fundam Cardiovascular Therapeutics, Clin Pharmacol, Expert Rev Cardiovasc Ther, Clin Exp Pharmacol Physiol, Food Chem Tox, Pediatric Research, Saudi Pharmaceutical Journal, Biol Res Nurs, Int J Health Sci, North Am J Med Sci, Int J Pharmacol, Zag J Pharm Sci.
10. **Scientific Evaluator (grants, promotions, awards):**
  - Qatar National Research Fund (QNRF, 12 applications).
  - “Newton-Mosharafa Fund” applications for PhD missions, British Council (2018/2019)
  - The USA-Egypt Joint-Research Fund (2 applications).
  - The Science and Technology Development Fund, Egypt (STDF, 7 applications).
  - JESOR-Development grants, Academy of Scientific Research and Technology, Egypt (2 applications)
  - National Awards, Academy of Scientific Research and Technology, Egypt (3 applications).
  - Award Applications, Tanta University (1 application).
  - Grant and award applications, Mansura University (6 applications).
  - Alex Rep project applications, Alexandria University (2 applications).
  - Faculty promotion applications, Supreme Council of Egyptian Universities, Egypt (28 applications)
  - Faculty promotion applications, Azhar University, Egypt (3 applications)
  - Faculty promotion applications, Atomic Energy Authority, Egypt (1 applications)
  - Faculty promotion applications, Nigeria University, Nigeria (3 applications).
  - Faculty promotion applications, University of Mosul, Iraq (2 Professorship applications).
  - Research Poster Evaluation, the 6th International Conference on Natural Toxins, Suez Canal University, Ismailia, Egypt (Dec 15-16, 2014).
11. **Chair**, Committee for reviewing Faculty Promotion Guidelines received from the Supreme Council of Egyptian Universities (2018)
12. **Member**, Faculty Selection Committee, Faculty of Pharmacy, Damanhour University.
13. **Member**, Committee on National Awards, Academy of Scientific Research and Technology, Egypt (2015)
14. **Member**, Scientific Ethics Committee, Alexandria University, Egypt (2009).
15. **Sep 2016** Biological testing of eye drops manufactured by PHARCO Pharmaceuticals (Draize eye irritation test).

16. **Continuing Education Program**, Egyptian Syndicate of Pharmacists.
17. **Scientific Consultant**, PHARCO Pharmaceutical Co., Alexandria, Egypt (1994-1995).

### **Membership in Professional Societies**

- 2018-2020 American Physiological Society (APS, membership No. 00218239).  
2010- American Heart Association (AHA, membership No. 171315005).  
2007- American Society for Pharmacology and Experimental Therapeutics (ASPET, membership No. 10604).  
1985- Egyptian Society for Pharmacology and Experimental Therapeutics (ESPET).  
1987- Egyptian Society for Toxicology.  
1982- Egyptian Syndicate of Pharmacists

### **Pharmacology Graduate Mentorship (24 students)**

#### **PhD degrees**

1. Salwa Aburageh Said Abuissa (July 27, 2021), Faculty of Pharmacy, Alexandria Univ.
2. Marwa Youssef Sallam (July 27, 2020), Faculty of Pharmacy, Alexandria Univ.
3. Safaa Hisham Hammoud (November 16, 2017), Faculty of Pharmacy, Beirut Arab Univ., Lebanon
4. Suzanne Aunni Naser (June 19, 2014), Faculty of Pharmacy, Beirut Arab Univ., Lebanon
5. Mohamed Amin Fouda (May 18, 2014), Faculty of Pharmacy, Alexandria Univ.
6. Eman Yousry Gohar (July 15, 2013), Faculty of Pharmacy, Alexandria Univ.
7. Mai Mostafa Helmy (September 14, 2009), Faculty of Pharmacy, Alexandria Univ.
8. Sahar Mohamed Azmy El-Gowilly (September 13, 2004), Faculty of Pharmacy, Alexandria Univ.
9. Amal Galal Omar (May 13, 2002), Faculty of Pharmacy, Alexandria Univ.

#### **Master degrees**

1. Yasser Habib Ezzat (May 4, 2021), Faculty of Pharmacy, Pharos University in Alexandria
2. Shrouk Sherif Kotb Elzokm (Jan 25, 2020), Faculty of Pharmacy, Alexandria Univ.
3. Mohammed Abdalla El-Lakany (Aug 27, 2019), Faculty of Pharmacy, Alexandria Univ.
4. Abdalla Moursi Wedn (Aug 27, 2019), Faculty of Pharmacy, Alexandria Univ.
5. Mahmoud Elsaid Ahmed Youssef (March 17, 2018), Faculty of Pharmacy, Suez Canal Univ.
6. Karim Samy Ibrahim (Feb 7, 2017), Faculty of Pharmacy, Alexandria Univ.
7. Marwa Youssef Sallam (December 26, 2015), Faculty of Pharmacy, Alexandria Univ.
8. Lamia Khiery Elsalakawy (June 16, 2014), Faculty of Pharmacy, Alexandria Univ.
9. Rabab Mohamed Ali (April 18, 2013), Faculty of Pharmacy, Alexandria Univ.
10. Mohamed Amin Fouda (December 16, 2010), Faculty of Pharmacy, Alexandria Univ.
11. Khaled Soliman Abd-Elrahman (November 9, 2009), Faculty of Pharmacy, Alexandria Univ.
12. Osama Fathalla Harraz (November 9, 2009), Faculty of Pharmacy, Alexandria Univ.
13. Eman Yousry Gohar (June 9, 2008), Faculty of Pharmacy, Alexandria Univ.
14. Hanan Mohamed Samir El-Gowelli (March 10, 1997), Faculty of Pharmacy, Alexandria Univ.
15. Amal Galal Omar; September 11, May 30, 1996), Faculty of Pharmacy, Alexandria Univ.

### **Membership of Pharmacology Theses' examination Committees (49 theses)**

#### **PhD degrees**

1. Nora Osama Abdel Rasheed (October 29, 2018), Faculty of Pharmacy, Cairo Univ.
2. Shima Mohamed Azmy Mohamed (September 1, 2018), Faculty of Pharmacy, Cairo Univ.
3. Noura Ahmed Mohamed Hassan (June 27, 2018), Faculty of Pharmacy, Zagazig Univ.
4. Aya Yahia Kamel Gawish (June 25, 2018), Faculty of Pharmacy, Port Said Univ.
5. Mostafa Adel Mohamed Rabie (May 5, 2018), Faculty of Pharmacy, Cairo Univ.
6. Mohamed Samir Abdel-Maksoud Megahed (March 17, 2018), Faculty of Pharmacy, Suez Canal Univ.
7. Nesrine Saeid Ibrahim El-Mezayen (March 3, 2018), Faculty of Pharmacy, Cairo Univ.
8. Safaa Hisham Hammoud (November 16, 2017), Faculty of Pharmacy, Beirut Arab Univ., Lebanon
9. Hanaa Khalaf Bayoumi Motawea (April 1, 2017), Faculty of Pharmacy, Helwan Univ.
10. Ebaa Mohamed Abd El-Monam Ali (November 14, 2015), Faculty of Pharmacy, Zagazig Univ.
11. Mennatallah Ahmed Ismail Ali (October 24, 2015), Faculty of Pharmacy, Cairo Univ.
12. Lamia Said Kandil (Sep 13, 2015), Institute of Graduate Studies and Research, Alexandria Univ.

13. Heba Karam Mohamed (June 15, 2015), Faculty of Pharmacy, Cairo Univ.
14. Shameem Hassan Abd El-Aziz Hassan (Jan 19, 2015), Faculty of Pharmacy, Helwan Univ.
15. Suzanne Aunni Naser (June 19, 2014), Faculty of Pharmacy, Beirut Arab Univ., Lebanon
16. Mohamed Amin Fouda (April 19, 2014), Faculty of Pharmacy, Alexandria Univ.
17. Eman yousry Gohar (June 19, 2013), Faculty of Pharmacy, Alexandria Univ.
18. Asmaa Fathi Galal (March 2, 2013), Faculty of Pharmacy, Cairo Univ.
19. Walaa Mohammed Adel El-Sabbagh (June 24, 2012), Faculty of Pharmacy, Cairo Univ.
20. Badr Mostafa Sadek Ibrahim (February 10, 2011), Faculty of Pharmacy, El-Mania Univ.
21. Mohammed Fathy Fadl El-Shafie (December 23, 2010), Faculty of Pharmacy, Al-Azhar Univ.
22. Marwa El-Said Ahmed El-Shamarka (November 25, 2010), National Research Center, Cairo.
23. Maha Ali Eissa Ahmed (April 21, 2010), Faculty of Pharmacy, Cairo University.
24. Mai Mostafa Helmy (August 20, 2009), Faculty of Pharmacy, Alexandria Univ.
25. Marwa Mohamed Safar (April 29, 2009), Faculty of Medicine, Alexandria Univ.
26. Dalia Kamal Mostafa (April 15, 2009), Faculty of Pharmacy, Cairo Univ.

### **Master degrees**

1. Shrouk Sherif Kotb Elzokm (Jan 25, 2020), Faculty of Pharmacy, Alexandria Univ.
2. Mohammed Abdalla El-Lakany (Aug 27, 2019), Faculty of Pharmacy, Alexandria Univ.
3. Abdalla Moursi Wedn (Aug 27, 2019), Faculty of Pharmacy, Alexandria Univ.
4. Mohammed Abdel-Wahid El-Khatib (Aug 12, 2018), Faculty of Pharmacy, Alexandria Univ.
5. Mohamed Samir Abdel-Maksoud Megahed (April 19, 2018), Faculty of Science, Alexandria Univ.
6. Mahmoud Elsaid Ahmed Youssef (March 17, 2018), Faculty of Pharmacy, Suez Canal Univ.
7. Karim Samy Ibrahim (Feb 7, 2017), Faculty of Pharmacy, Alexandria Univ.
8. Nagwa Ismail Abd El-Hamid (November 27, 2016), Faculty of Pharmacy, Suez Canal Univ.
9. Esraa Saeed Shaban Habiba (April 23, 2016), Faculty of Medicine, Alexandria Univ.
10. Marwa Youssef Sallam (November 30, 2015), Faculty of Pharmacy, Alexandria Univ.
11. Ahmed Mohamed Darwesh Essa (October 25, 2015), Faculty of Pharmacy, Suez Canal Univ.
12. Sarah El-Sayed Mohamed (June 15, 2015), Faculty of Pharmacy, Cairo Univ.
13. Reham Hassan Mohammed Salim (November 13, 2014), Faculty of Pharmacy, Zagazig Univ.
14. Lamia Khiery Elsalakawy (June 1, 2014), Faculty of Pharmacy, Alexandria Univ.
15. Rabab Mohamed Ali (April 2, 2013), Faculty of Pharmacy, Alexandria Univ.
16. Omar Abd-El-Aziz Hamed (Dec 27, 2012), Medical Research Institute, Alexandria Univ.
17. Marwa Bakir Mohamed Bakir (May 24, 2011), Faculty of Pharmacy, Alexandria Univ.
18. Mohamed Amin Fouda (December 5, 2010), Faculty of Pharmacy, Alexandria Univ.
19. Khaled Soliman Abd-Elrahman (November 5, 2009), Faculty of Pharmacy, Alexandria Univ.
20. Osama Fathalla Harraz (October 29, 2009), Faculty of Pharmacy, Alexandria Univ.
21. Nour Mohamed Adel (October 21, 2009), Faculty of Pharmacy, Alexandria Univ.
22. Eman yousry Gohar (May 30, 2008), Faculty of Pharmacy, Alexandria Univ.
23. Eman Saleh Abd El-Aziz (May 28, 2008), Faculty of Pharmacy, Zagazig Univ.

### **Trainee awards**

1. **Amany E. El-Naggar, International travel award** from American Society for Pharmacology and Experimental Therapeutics (ASPET) to participate in the Experimental Biology Conference, April 2-5, 2022.
2. **Salwa A. Abuiessa, International travel award** from American Society for Pharmacology and Experimental Therapeutics (ASPET) to participate in the Experimental Biology Conference, April 2-5, 2022.
3. **Hagar A. Morgaan, International travel award** from American Society for Pharmacology and Experimental Therapeutics (ASPET) to participate in the Experimental Biology Conference, April 2-5, 2022.
4. **Abdalla M. Wedn, International travel award** from American Society for Pharmacology and Experimental Therapeutics (ASPET) to participate in the Virtual Experimental Biology Conference, April 27-30, 2021.
5. **Salwa A. Abuiessa, International travel award** from American Society for Pharmacology and Experimental Therapeutics (ASPET) to participate in the Virtual Experimental Biology Conference, April 27-30, 2021.
6. **Hagar A. Morgaan, International travel award** from American Society for Pharmacology and Experimental Therapeutics (ASPET) to participate in the Virtual Experimental Biology Conference, April 27-30, 2021.
7. **Marwa Y. Sallam, International Travel Award** from American Society for Pharmacology and Experimental Therapeutics (ASPET) to participate in the Experimental Biology meeting, April 2020, San Diego, California, USA.
8. **Salwa A. Abuiessa, International Travel Award** from American Society for Pharmacology and Experimental Therapeutics (ASPET) to participate in the Experimental Biology meeting, April 2020, San Diego, California, USA.

9. **Salwa A. Abuiessa**, the "JPET Highlighted Trainee Author", for her first authorship on a manuscript titled "Preeclamptic fetal programming alters neuroinflammatory and cardiovascular consequences of endotoxemia in sex specific manners" <https://www.ncbi.nlm.nih.gov/pubmed/32094295>.
10. **Abdalla A. Wedn**, International travel award from American College of Toxicology (ACT) to participate in the 40th annual meeting of American Collage of Toxicology, Phoenix, Arizona, USA, November 2019.
11. **Abdalla A. Wedn**, International travel award from American Society for Pharmacology and Experimental Therapeutics (ASPET) to participate in the Experimental Biology Conference, Orlando, Florida, USA, April 2019.
12. **Abdalla A. Wedn**, Travel grant from Asian Counsel of Science (ACS) for oral presentation at Asian Conference on Science, Technology and Medicine (ACSTM), Dubai, UAE, February 2019.
13. **Mohamed A El-Lakany**, International speaker award (oral presentation) from the American Society for Pharmacology and Experimental Therapeutics (ASPET) to participate in the Experimental Biology Conference, Orlando, Florida, USA, April 2019.
14. **Mohamed A El-Lakany**, Best oral presentation at the Faculty of Pharmacy Annual Scientific Conference, Alexandria University, Egypt, September 2019.
15. **Mohamed A El-Lakany**, International travel award from Alexandria University, Egypt, to participate in the Experimental Biology Conference, San Diego, California, USA, EB2018.

### **International Conferences, Workshops (41)**

1. Experimental Biology Meeting, Philadelphia, Pennsylvania, U.S.A (April 2-5, 2022).
2. International conference on Pharmaceutical & Health Sciences, Alexandria university, Alexandria, Egypt (Nov 6-7, 2019).
3. The annual Pharmacology Department Conference, Faculty of Pharmacy, Zagazig Univ., Egypt (Feb 11, 2019).
4. 2<sup>nd</sup> International pharmaceutical Conference, Ain Shams University, Cairo, Egypt (Nov 13-15, 2018).
5. Third International Conference "Towards Best Pharmacy Practices: Enhancing Pharmacy Education", Faculty of Pharmacy, Beirut Arab Univ., Lebanon (May 8-9, 2018).
6. Experimental Biology Meeting, Chicago, Illinois, U.S.A (April 22-26, 2017).
7. 7th Euro-Global Summit on Toxicology and Applied Pharmacology, Rome, Italy (Oct 24-26, 2016).
8. Experimental Biology Meeting, San Diego, California, U.S.A (April 2-6, 2016).
9. International Conference on "Advances in Pharmaceutical Sciences", Pharos Univ., Alexandria, Egypt (Oct 27-29, 2015)
10. Workshop: Recent Concepts on Cardiovascular Complications, Faculty of Pharmacy, King Abdelaziz University, Saudi Arabia (May 19-20, 2015)
11. 3<sup>rd</sup> Future University International Conference of Pharmaceutical Sciences, Cairo, Egypt (Feb 9-11, 2015).
12. Egyptian Society for Pharmacology and Experimental Therapeutics, Cairo, Egypt (Dec 20, 2014).
13. The 6th International Conference on Natural Toxins, Suez Canal University, Ismailia, Egypt (Dec 15-16, 2014).
14. Experimental Biology Meeting, San Diego, California, U.S.A (April 26-30, 2014).
15. Experimental Biology Meeting, Boston, U.S.A (April 20-24, 2013).
16. Egyptian Society for Pharmacology and Experimental Therapeutics, British Univ. in Egypt, Cairo (April 2013).
17. International Conference on Advanced Basic and Applied Sciences, Hurghada, Egypt (Nov 6-9, 2012).
18. Experimental Biology Meeting, San Diego, California, U.S.A (April 21-25, 2012).
19. Experimental Biology Meeting, Washington DC, U.S.A. (April 9-13, 2011).
20. Workshop: Patient Safety (Risk Management), Medical Research Institute, Alexandria, Egypt (Feb 27-28, 2011).
21. International Pharmaceutical Conference, Faculty of Pharmacy, Beirut Arab Univ., Lebanon (May 6-7, 2010).
22. Experimental Biology Meeting, Anaheim, California, U.S.A (April 24-28, 2010).
23. Neuroscience Symposium, East Carolina Univ. Chapter of the Society for Neuroscience, USA. (Nov 2008).
24. Experimental Biology Meeting, San Diego, California, U.S.A (April 2008).
25. BioVision Alexandria, Alexandria, Egypt (April 2006).
26. Workshop: The Scientific use of informatics, Faculty of Pharmacy, Alexandria University (Feb 21-24, 2005).
27. Experimental Biology Meeting, Washington DC, U.S.A. (April 2004).
28. Experimental Biology Meeting, San Diego, California, U.S.A (April 2003).
29. Genetic Engineering Workshop, Institute of Graduate Studies & Research, Alexandria, Egypt (February 2000).
30. Egyptian Society of Toxicology, Alexandria, Egypt (October 1999).
31. Experimental Biology Meeting, Washington DC, U.S.A (April 1999).
32. American Heart Association, Dallas, Texas, U.S.A. (November 1998).
33. Experimental Biology Meeting, San Francisco, California, U.S.A. (April 1998).

34. Experimental Biology Meeting, New Orleans, Louisiana, U.S.A. (April 1997).
35. In Situ Polymerase Chain Reaction Symposium, Research Triangle Park, North Carolina, U.S.A. (March 1996).
36. Egyptian Society for Pharmacology and Experimental Therapeutics, Cairo, Egypt (February 1994).
37. American Society for Pharmacology and Experimental Therapeutics, Orlando, Florida, U.S.A. (August 1992).
38. British Pharmacological Society, London, U.K. (January 1990).
39. British Pharmacological Society, Leeds, U.K. (July 1989)
40. British Pharmacological Society, Nottingham, U.K. (September 1988).
41. Egyptian Society for Pharmacology and Experimental Therapeutics, Alexandria, Egypt (March 1985).

### **Chaired Conference Sessions**

1. International conference on Pharmaceutical & Health Sciences, Alexandria, Egypt (Nov 6-7, 2019).
2. 2<sup>nd</sup> International pharmaceutical Conference, Ain Shams University, Cairo, Egypt (Nov 13-15, 2018).
3. 7th Euro-Global Summit on Toxicology and Applied Pharmacology, Rome, Italy (Oct 24-26, 2016).
4. International Conference on “Advances in Pharmaceutical Sciences”, Pharos Univ., Alexandria, Egypt (Oct 27-29, 2015).
5. Egyptian Society for Pharmacology and Experimental Therapeutics, British Univ. in Egypt, Cairo (Dec 2014).
6. Egyptian Society for Pharmacology and Experimental Therapeutics, British Univ. in Egypt, Cairo (April 2013).
7. International Conference on Advanced Basic and Applied Sciences, Hurghada, Egypt (Nov 6-9, 2012).

### **Membership In Conference Program Technical Committees (Organizing Committee)**

- 5th International conference on Pharmaceutical Sciences (ICPS 2016, Aug 10-11, Dubai, U.A.E.).
- 4th ScienceOne International Conference on Environmental Sciences (ICES 2015, Jan 21-23, Dubai, U.A.E.).
- 3rd ScienceOne Conference on Drug Discovery and Development (SCDDD 2014, Jan 21-23, Dubai, U.A.E.).

### **Invited oral presentations (Keynote speaker)**

1. “Central cholinergic modulation of neuroinflammatory and cardiac autonomic neuropathic effects of endotoxemia”, Faculty of Medicine, Kuwait University (Jan 17, 2021)
2. “Highlights of hypertensive and vasculotoxic effects of cyclosporine”, International conference on Pharmaceutical & Health Sciences, Alexandria, Egypt (Nov 6-7, 2019).
3. “Four Decades of global cyclosporine-hypertension research”, the annual Pharmacology Department Conference, Faculty of Pharmacy, Zagazig Univ., Egypt (Feb 11, 2019)
4. “Central and peripheral mechanisms of cyclosporine-induced hypertension”, Department of Pharmacy, University of Pisa, Italy (July 4, 2018).
5. “Endothelin modulation of the cyclosporine/NSAIDs cardiovascular and renal interactions”, 7th Euro-Global Summit on Toxicology and Applied Pharmacology, Rome, Italy (Oct 24-26, 2016).
6. “Sexual dimorphism in nicotine interaction with baroreflex control of heart rate”, Experimental Biology meeting, San Diego, California, U.S.A (April 2-6, 2016).
7. “Nicotine negatively impacts cardiac autonomic control and reflexes”, Faculty of Pharmacy, King Abdelaziz University, Saudi Arabia (May 19-20, 2015)
8. “Sympathetic/endothelin modulation of cyclosporine hypertension”, Faculty of Pharmacy, King Abdelaziz University, Saudi Arabia (May 19-20, 2015).
9. “Peripheral and central mechanisms of cyclosporine-induced hypertension”, 3<sup>rd</sup> Future University International Conference of Pharmaceutical Sciences, Cairo, Egypt (Feb 9-11, 2015).
10. “Divergent estrogenic modulation of the nicotine-baroreflex interaction”, the 6th International Conference on Natural Toxins, Suez Canal University, Ismailia, Egypt (Dec 15-16, 2014).
11. “Gender and hormonal specificities of the nicotine interaction with cardiac reflexes”, International Conference on Advanced Basic and Applied Sciences, Beni-Suef University, Hurghada, Egypt (Nov 2012).
12. "Cyclosporine-induced hypertension: mechanisms and management", Keynote Speaker, International Pharmaceutical Conference, Bierut Arab Univ., Faculty of Pharmacy, Lebanon (May 2010).
13. “Writing a scientific paper”, Pharmacy, Alexandria Univ., Egypt (Feb 2008).
14. “Diagnostic Tools for Cardiovascular Abnormalities”, Faculty of Pharmacy, Pharos Univ., Alexandria, Egypt (July 2007).
15. “Tobacco smoking, an overview”, Faculty of Pharmacy, Alexandria University, Egypt (Mar 2002).



16. "Role of NMDA and non-NMDA receptors in ethanol-baroreflex interaction", Faculty of Pharmacy, Kuwait Univ., Kuwait (Oct 1998).
17. "Central mechanisms of ethanol-induced attenuation of arterial baroreflexes", School of Medicine, East Carolina Univ., NC, USA (Oct 1997).
18. "Interaction of ethanol with arterial baroreceptor function", School of Medicine, East Carolina Univ., NC, USA (Nov 1992).

## **Publications**

<b>Citation Metrics</b>	<b>Bibliographic database</b>	
	<b>Scopus</b>	<b>Google Scholar</b>
Sum of times cited	2294	2829
h-index	28	31

## **(A) Patent**

**Issued by:** United States Patent and Trademark Office

**Patent No:** US 10,653,666 B1

**Application No:** 16/41,826

**Filed:** Jan 14, 2020

**Date of Patent:** May 19, 2020

**Title:** Cardioprotective nano-pharmaceutical formulation

**Inventors:** Usama A. Fahmy, Noura A. Hassan, Ahmad S. Azhar, Mahmoud M. El-Mas, Hany El-Bassossy.

**Assignee:** King Abdulaziz University, Jeddah, Saudie Arabia.

## **(B) Invited book chapter**

**El-Mas MM, Abdel-Rahman AA (2019).** Role of alcohol oxidative metabolism in its cardiovascular and autonomic effects. In: Ren J, Zhang Y, Ge J (eds) Aldehyde Dehydrogenases. Advances in Experimental Medicine and Biology, vol 1193, pp. 1-33, Springer, Singapore (doi: 10.1007/978-981-13-6260-6\_1; Print ISBN 978-981-13-6259-0; Online ISBN 978-981-13-6260-6).

## **(C) Full-length research papers (152)**

1. Abuiessa SA, El-Gowilly SM, El-Gowell HM, Helmy MM, **El-Mas MM** (2021). Short-lived sensitization of cardiovascular outcomes of postpartum endotoxemia in preeclamptic rats: role of medullary solitary tract neuroinflammation. *Eur J Pharmacol*, Nov 5, 910, 174494
2. Habib YH, Gowayed MA, Abdelhady SA, El-Deeb NM, Inas E. Darwish IE, **El-Mas MM** (2021). Modulation by antenatal therapies of cardiovascular and renal programming in male and female offspring of preeclamptic rats. *Naunyn-Schmiedeberg's Arch of Pharmacol*. 394(11):2273-2287.
3. Abdelhady SA, Ali MA, Al-Shafie TA, Abdelmawgoud EM, Yacout DM, **El-Mas MM** (2021). Montelukast potentiates the anti-inflammatory effect of NSAIDs in the rat paw formalin model and simultaneously minimizes the risk of gastric damage. *Inflamm Res* doi.org/10.1007/s00011-021-01492-9.
4. Wedn AM, El-Bassossy HM, Eid AH, **El-Mas MM** (2021). Modulation of preeclampsia by the cholinergic anti-inflammatory pathway: therapeutic perspectives. *Biochem Pharmacol* 192, 114703. doi.org/10.1016/j.bcp.2021.114703
5. Ahmed OA, Hassan NA, Azhar AS, **El-Mas MM**, El-Bassossy HM (2021). A nano-pharmaceutical formula of quercetin protects from cardiovascular complications associated with metabolic syndrome. *Front Pharmacol* 12, 696981. doi.org/10.3389/fphar.
6. Elzokm SS, Fouda MA, Abdel Moneim RA, **El-Mas MM** (2021). Distinct effects of calcineurin dependent and independent immunosuppressants on endotoxemia-induced nephrotoxicity in rats: role of androgens. *Clin Exp Pharmacol Physiol* 48:1261–1270. doi: 10.1111/1440-1681.13526.
7. Habib YH, Abdelhady SA, Gowayed MA, El-Deeb NM, Inas E. Darwish IE, **El-Mas MM** (2021). Prenatal endothelin or thromboxane receptor antagonism surpasses sympathoinhibition in improving cardiorenal malfunctions in preeclamptic rats. *Toxicol Appl Pharmacol* 426, 115615

8. Sallam MY, El-Gowilly SM, **El-Mas MM** (2021). Cardiac and brainstem neuroinflammatory pathways account for androgenic incitement of cardiovascular and autonomic manifestations in endotoxic male rats. *J Cardiovasc Pharmacol*, May 1;77(5):632-641.
9. Youssef ME, **El-Mas MM**, Abdelrazek HM, El-Azab MF (2021).  $\alpha 7$ -nAChRs-mediated therapeutic angiogenesis accounts for the advantageous effect of low nicotine doses against myocardial infarction in rats. *Eur J Pharmacol*, Mar 5, 898, 173996.
10. Nasser SA, Afify EA, Kobeissy F, Hamam B, Eid AH, **El-Mas MM** (2021). Inflammatory basis of atherosclerosis: modulation by sex hormones. *Curr Pharm Des*, 27(18), 2099–2111. doi: 10.2174/1381612827666210122142811.
11. Sallam MY, El-Gowilly SM, **El-Mas MM** (2021). Androgenic modulation of arterial baroreceptor dysfunction and neuroinflammation in endotoxic male rats. *Brain Res. Apr 1*, 1756, 147330.
12. El-Lakany MA, El-Gowell HM, Fouda MA, Sallam MY, **El-Mas MM** (2020). Nicotine uncovers endotoxic-like cardiovascular manifestations in female rats: estrogen and nitric oxide dependency. *Tox Lett*, Dec 15;335:28-36.
13. Abuiessa SA, Wedn AM, El-Gowilly SM, Helmy MM, **El-Mas MM** (2020). Preeclamptic fetal programming alters neuroinflammatory and cardiovascular consequences of endotoxemia in sex specific manners. *J Pharmacol Exp Ther*, May;373(2):325-336.
14. El-Lakany MA, Fouda MA, El-Gowell HM, **El-Mas MM** (2020). Ovariectomy provokes inflammatory and cardiovascular effects of endotoxemia in rats: Dissimilar benefits of hormonal supplements. *Toxicol Appl Pharmacol Apr 15*;393:114928.
15. Ahmed OA, El-Bassossy H, Azhar AS, Tarkhan MM, **El-Mas MM** (2020). Interference with AGEs formation and AGEs-induced vascular injury mediates curcumin vascular protection in metabolic syndrome. *Sci Rep*, 10 (1), 315.
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17. Wedn AM, El-Gowilly SM, **El-Mas MM** (2020). Time and sex dependency of hemodynamic, renal, and survivability effects of endotoxemia in rats. *Saudi Pharm J* 28, 127–135.
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### **(C) Published Abstracts (134)**

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