



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

Mahmoud M. El-Mas, MSc, PhD

Chair & Professor, Pharmacology and Toxicology, Faculty of Pharmacy, Alexandria Univ.

Chair, National Faculty Promotion Committee (Pharmacology & Clinical Pharmacy)

Member, National Board of Pharmacology (Academy of Scientific Research & Technology)

Distinguished Research Professor of Alexandria University

Visiting Professor at East Carolina University, USA

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### **Qualifications**

1990 Ph.D., Pharmacology, 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, 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**

2000- Professor, Dept. of Pharmacology, Faculty of Pharmacy, Alexandria Univ., Egypt.

1995-2000 Associate Professor, Dept. of Pharmacology, Faculty of Pharmacy, Alexandria Univ., Egypt.

1990-1995 Assistant Professor, Dept. of Pharmacology, Faculty of Pharmacy, Alexandria Univ., Egypt.

1982-1990 Instructor, Dept. of Pharmacology, Faculty of Pharmacy, Alexandria Univ., Egypt.

### **Administrative Experiences**

2008- Chair, Department of Pharmacology, Faculty of Pharmacy, Alexandria University, Egypt.

2008- Member, Administrative Team of the Quality Assurance Unit, Faculty of Pharmacy, Alexandria University, Egypt.

2008- 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**

- Pharmacology and Toxicology, undergraduate pharmacy students.
- Therapeutics, graduate students.
- Principles of Scientific Writing, graduate students.
- Advisor, professional summer training of undergraduate pharmacy students.

### **Research interests (Cardiovascular and renal neurobiology)**

Investigation of the detrimental circulatory and renal influences of drugs of abuse (e.g. alcohol and nicotine) and immunosuppressant drugs, cellular and molecular aspects of these interactions, peripheral and central controlling mechanisms, roles of gonadal hormones and sexual dimorphism, and potential therapeutic strategies.

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

1. **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: Jan 1991-Jan 1993, Jun-Aug 1993, Jan 1996-Jun 1999, Sep-Dec 2000, Apr 2002-Jan 2005, Jul-Oct 2005, Aug-Dec 2006, July-Dec 2007, July-Nov 2008, July-Aug 2010, July-Sep 2011, July-Sep 2012, July-Aug 2013, Aug-Sep 2014.

2. **Graduate student** (Ph.D., 1988-1990), 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**

- 2014- Jacobs Journal of Pharmacology and Pharmacovigilance  
 2014- Editorial Board, Austin Journal of Vascular Medicine  
 2013- Advisory board, Naunyn-Schmiedeberg's Archives of Pharmacology  
 2013- Editorial Board, Edorium Journal of Pharmacology  
 2013- Editorial Board, The Open Access Journal Of Science and Technology  
 2015- Consulting Editor, ChronoPhysiology and Therapy.  
 2007- Associate Editor: African Journal of Pharmacy and Pharmacology.  
 2007- Editorial Board, Pharmacy Times Middle East.

### **Emeritus Editorial Board Positions**

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

### **Awards & Honors**

- 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, Basic and Applied Science Research Grant, the Science and Technology Research Fund (STDF ID 14895, 2015-2018), Ministry of higher Education, Egypt, "Sexual and molecular dimorphism in nicotine protection against renal and hemodynamic derangements of endotoxic shock" (763,400 L.E.).
- Principal Investigator, 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.).
- 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 (My role: Chief Advisor).
- Principal Investigator, Basic and Applied Science Research Grant, the Science and Technology Research Fund (STDF ID 502, 2010-2013), Ministry of higher Education, Egypt, "Hemodynamic and renal effects of nicotine in rats with surgical menopause" (999,600 L.E.).
- Investigation team Member, 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".
- Investigation team Member, National Institute on Alcohol abuse and alcoholism grant (AA10257, 1996-1999, 2002-2004), U.S.A., "Estrogen-dependent cardiovascular effect of ethanol".
- Principal Investigator, 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).
- Principal Investigator, 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).

### **Professional and Academic activities**

1. **2014-** Member, Pharmacology Promotion Committee (National Organization for Drug Control and Research).

2. **2014-** Member, National Board of Pharmacology (Academy of Scientific Research & Technology).
3. **2013-** Chair, National Committee on Academic Faculty Promotion (Pharmacology & Clinical Pharmacy).
4. **2008-2013** Member, National Committee on Academic Faculty Promotion (Pharmacology).
5. **Reviewer** for reputable international journals including: Br J Pharmacol, Biochem Pharmacol, J Pharmacol Exp Ther, Am J Physiol, J Appl Physiol, Pharmacol Res, PLOS ONE, Neurosci Lett, Nauyn-Schmiedeberg's Arch Pharmacol, J Cardiovasc Pharmacol Ther, Life Sci, Fundam Clin Pharmacol, Expert Rev Cardiovasc Ther, Clin Exp Pharmacol Physiol, Cardiovasc Drugs Ther, Food Chem Tox, Pediatric Research, Biol Res Nurs, Int J Health Sci, North Am J Med Sci, Int J Pharmacol.....etc.
6. **Scientific Evaluator (grants, promotions, awards):**
  - Qatar National Research Fund (QNRF, 10 applications).
  - The USA-Egypt Joint-Research Fund (2 applications).
  - The Science and Technology Development Fund, Egypt (STDF, 7 applications).
  - National Awards (جائزة الدولة للتفوق), Academy of Scientific Research and Technology, Egypt (3 applications).
  - Award Applications, Tanta University (1 application).
  - Grant applications, Mansura University (2 application).
  - Alex Rep project applications, Alexandria University (2 applications).
  - Faculty promotion applications, Egyptian Universities and Research Institutes (18 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).
7. **Member**, Faculty Selection Committee, Faculty of Pharmacy, Damanhour University.
8. **Member**, Committee on National Awards, Academy of Scientific Research and Technology, Egypt (2015)
9. **Member**, Scientific Ethics Committee, University of Alexandria, Egypt (2009).
10. **Continuing Education Program**, Egyptian Syndicate of Pharmacists.
11. **Scientific Consultant**, PHARCO Pharmaceutical Co., Alexandria, Egypt (1994-1995).

#### **Membership In Professional Societies**

- 2010- American Heart Association (AHA).  
 2007- American Society for Pharmacology and Experimental Therapeutics (ASPET).  
 2007- Arab Healthy Water Association.  
 1985- Egyptian Society for Pharmacology and Experimental Therapeutics (ESPET).  
 1987- Egyptian Society for Toxicology.  
 1982- Egyptian Syndicate of Pharmacists

#### **Pharmacology Graduate Mentorship**

##### **PhD degrees (6)**

1. Suzanne Aunni Naser (June 19, 2014), Faculty of Pharmacy, Beirut Arab Univ., Lebanon
2. Mohamed Amin Fouda (May 18, 2014), Faculty of Pharmacy, Alexandria Univ.
3. Eman yousry Gohar (July 15, 2013), Faculty of Pharmacy, Alexandria Univ.
4. Mai Mostafa Helmy (September 14, 2009), Faculty of Pharmacy, Alexandria Univ.
5. Sahar Mohamed Azmy El-Gowilly (September 13, 2009), Faculty of Pharmacy, Alexandria Univ.
6. Amal Galal Omar (May 13, 2005), Faculty of Pharmacy, Alexandria Univ.

##### **Master degrees (9)**

1. Marwa Youssef Sallam (December 26, 2015), Faculty of Pharmacy, Alexandria Univ.
2. Lamia Khiery Elsalakawy (June 16, 2014), Faculty of Pharmacy, Alexandria Univ.
3. Rabab Mohamed Ali (April 18, 2013), Faculty of Pharmacy, Alexandria Univ.
4. Mohamed Amin Fouda (December 16, 2010), Faculty of Pharmacy, Alexandria Univ.
5. Khaled Soliman Abd-Elrahman (November 9, 2009), Faculty of Pharmacy, Alexandria Univ.
6. Osama Fathalla Harraz (November 9, 2009), Faculty of Pharmacy, Alexandria Univ.

7. Eman yousry Gohar (June 9, 2008), Faculty of Pharmacy, Alexandria Univ.
8. Hanan Mohamed Samir El-Gowell (March 10, 1997), Faculty of Pharmacy, Alexandria Univ.
9. Amal Galal Omar; September 11, May 30, 1996), Faculty of Pharmacy, Alexandria Univ.

### **Pharmacology Theses' Examination Boards (31)**

- 17 PhD theses
- 14 Master theses

### **International Conferences, Workshops (33)**

1. International Conference on "Advances in Pharmaceutical Sciences", Pharos Univ., Alexandria, Egypt (Oct 27-29, 2015)
2. Workshop: Recent Concepts on Cardiovascular Complications, Faculty of Pharmacy, King Abdelaziz University, Saudi Arabia (May 19-20, 2015)
3. 3<sup>rd</sup> Future University International Conference of Pharmaceutical Sciences, Cairo, Egypt (Feb 9-11, 2015).
4. Egyptian Society for Pharmacology and Experimental Therapeutics, Cairo, Egypt (Dec 20, 2014).
5. The 6th International Conference on Natural Toxins, Suez Canal University, Ismailia, Egypt (Dec 15-16, 2014).
6. Experimental Biology, San Diego, California, U.S.A (April 26-30, 2014).
7. Experimental Biology, Boston, U.S.A (April 20-24, 2013).
8. Egyptian Society for Pharmacology and Experimental Therapeutics, British Univ. in Egypt, Cairo (April 2013).
9. International Conference on Advanced Basic and Applied Sciences, Hurghada, Egypt (Nov 6-9, 2012).
10. Experimental Biology, San Diego, California, U.S.A (April 21-25, 2012).
11. Experimental Biology, Washington DC, U.S.A. (April 9-13, 2011).
12. Workshop: Patient Safety (Risk Management), Medical Research Institute, Alexandria, Egypt (Feb 27-28, 2011).
13. International Pharmaceutical Conference, Faculty of Pharmacy, Beirut Arab Univ., Lebanon (May 6-7, 2010).
14. Experimental Biology, Anaheim, California, U.S.A (April 24-28, 2010).
15. Neuroscience Symposium, East Carolina Univ. Chapter of the Society for Neuroscience, USA. (Nov 2008).
16. Experimental Biology, San Diego, California, U.S.A (April 2008).
17. BioVision Alexandria, Alexandria, Egypt (April 2006).
18. Workshop: The Scientific use of informatics, Faculty of Pharmacy, Alexandria University (Feb 21-24, 2005).
19. Experimental Biology, Washington DC, U.S.A. (April 2004).
20. Experimental Biology, San Diego, California, U.S.A (April 2003).
21. Genetic Engineering Workshop, Institute of Graduate Studies & Research, Alexandria, Egypt (February 2000).
22. Egyptian Society of Toxicology, Alexandria, Egypt (October 1999).
23. Experimental Biology, Washington DC, U.S.A (April 1999).
24. American Heart Association, Dallas, Texas, U.S.A. (November 1998).
25. Experimental Biology, San Francisco, California, U.S.A. (April 1998).
26. Experimental Biology, New Orleans, Louisiana, U.S.A. (April 1997).
27. In Situ Polymerase Chain Reaction Symposium, Research Triangle Park, North Carolina, U.S.A. (March 1996).
28. Egyptian Society for Pharmacology and Experimental Therapeutics, Cairo, Egypt (February 1994).
29. American Society for Pharmacology and Experimental Therapeutics, Orlando, Florida, U.S.A. (August 1992).
30. British Pharmacological Society, London, U.K. (January 1990).
31. British Pharmacological Society, Leeds, U.K. (July 1989)
32. British Pharmacological Society, Nottingham, U.K. (September 1988).
33. Egyptian Society for Pharmacology and Experimental Therapeutics, Alexandria, Egypt (March 1985).

### **Conference Sessions Co-Chaired**

1. International Conference on "Advances in Pharmaceutical Sciences", Pharos Univ., Alexandria, Egypt (Oct 27-29, 2015).
2. Egyptian Society for Pharmacology and Experimental Therapeutics, British Univ. in Egypt, Cairo (Dec 2014).
3. Egyptian Society for Pharmacology and Experimental Therapeutics, British Univ. in Egypt, Cairo (April 2013).
4. 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 presentations (Keynote speaker)**

1. "Nicotine negatively impacts cardiac autonomic control and reflexes", Faculty of Pharmacy, King Abdelaziz University, Saudi Arabia (May 19-20, 2015)
2. "Sympathetic/endothelin modulation of cyclosporine hypertension", Faculty of Pharmacy, King Abdelaziz University, Saudi Arabia (May 19-20, 2015)
3. "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).
4. "Divergent estrogenic modulation of the nicotine-baroreflex interaction", the 6th International Conference on Natural Toxins, Suez Canal University, Ismailia, Egypt (Dec 15-16, 2014).
5. "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).
6. "Cyclosporine-induced hypertension: mechanisms and management", Keynote Speaker, International Pharmaceutical Conference, Bierut Arab Univ., Faculty of Pharmacy, Lebanon (May 2010).
7. "Writing a scientific paper", Pharmacy, Alexandria Univ., Egypt (Feb 2008).
8. "Diagnostic Tools for Cardiovascular Abnormalities", Faculty of Pharmacy, Pharos Univ., Alexandria, Egypt (July 2007).
9. "Tobacco smoking, an overview", Faculty of Pharmacy, Alexandria University, Egypt (Mar 2002).
10. "Role of NMDA and non-NMDA receptors in ethanol-baroreflex interaction", Faculty of Pharmacy, Kuwait Univ., Kuwait (Oct 1998).
11. "Central mechanisms of ethanol-induced attenuation of arterial baroreflexes", School of Medicine, East Carolina Univ., NC, USA (Oct 1997).
12. "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	1310	1520
h-index	22	24

#### **(A) International peer-reviewed research papers (113)**

1. Sallam MY, El-Gowilly SM, Abdel-Galil AA, **El-Mas MM** (2016). Central GABA<sub>A</sub> receptors are involved in inflammatory and cardiovascular consequences of endotoxemia in conscious rats. *Naunyn-Schmiedeberg's Arch Pharmacol* 389, 279-288.
2. Fouda MA, El-Gowelli HM, El-Gowilly SM, **El-Mas MM** (2015). The estrogen-dependent baroreflex dysfunction caused by nicotine in female rats is mediated via NOS/HO inhibition: role of sGC/PI3K/MAPK<sub>ERK</sub>. *Toxicol Appl Pharmacol* 289, 466-473.
3. Helmy MM, Helmy MW, **El-Mas MM** (2015). Additive renoprotection by pioglitazone and fenofibrate against inflammatory, oxidative and apoptotic manifestations of cisplatin nephrotoxicity: Modulation by PPARs. *PLoS One*, 10(11): e0142303.
4. Fan M, **El-Mas MM**, Abdel-Rahman AA (2015). Preserved left ventricular performance in spontaneously hypertensive rats following preload and afterload challenges. *J Hypertens Manag* 1:1.
5. **El-Mas MM**, Abdel-Rahman AA (2015). Estrogen modulation of the ethanol-evoked myocardial oxidative stress and dysfunction via DAPK3/Akt/ERK activation in male rats. *Toxicol Appl Pharmacol* 287, 284-292.
6. Helmy MW, El-Gowelli HM, Ali RM, **El-Mas MM** (2015). Endothelin ETA receptor/lipid peroxides/COX-2/TGF- $\beta$ 1 signaling underlies aggravated nephrotoxicity caused by cyclosporine plus indomethacin in rats. *Br J Pharmacol* 172, 4291-4302.
7. **El-Mas MM**, Helmy MW, Ali RM, El-Gowelli HM (2015). Celecoxib, but not indomethacin, ameliorates the hypertensive and perivascular fibrotic actions of cyclosporine in rats: role of endothelin signaling. *Toxicol Appl Pharmacol* 284, 1-7.
8. El-Gowelli HM, **El-Mas MM** (2015). Central modulation of cyclosporine-induced hypertension. *Naunyn-Schmiedeberg's Arch Pharmacol* 388, 351-361.

9. El-Mas MM, El-gowilly SM, Elsalakawy LK, El-Gowell HM (2014). Estrogen compromises the facilitatory effect of chronic nicotine on adenosine  $A_{2B}$  receptor/ $K^+$  channel-mediated renal vasodilations. *Clin Exp Pharmacol Physiol* 41, 600–607.
10. **El-Mas MM**, Abdel-Rahman AA (2014). Ser/thr phosphatases tonically attenuate the ERK-dependent pressor effect of ethanol in the rostral ventrolateral medulla in normotensive rats. *Brain Res* 1577, 21-28.
11. Fouda MA, El-Gowell HM, El-Gowilly SM, Rashed L, **El-Mas MM** (2014). Impairment of nitric oxide synthase but not heme oxygenase accounts for baroreflex dysfunction caused by chronic nicotine in female rats. *PLoS One* 9 (5), e98681.
12. Nasser SA, **El-Mas MM** (2014). Endothelin ETA receptor antagonism in cardiovascular disease. *Eur J Pharmacol* 737, 210-213.
13. Gohar EY, El-Gowilly SM, El-Gowell HM, El-Demellawy MA, **El-Mas MM** (2014). PI3K/Akt-independent NOS/HO activation accounts for the facilitatory effect of nicotine on acetylcholine renal vasodilations: modulation by ovarian hormones. *PLoS One* 9(4): e95079.
14. **El-Mas MM**, Abdel-Rahman AA (2014). Nongenomic effects of estrogen mediate the dose-related myocardial oxidative stress and dysfunction caused by acute ethanol in female rats. *Am J Physiol Endocrinol Metab* 306, E740-747.
15. **El-Mas MM**, Abdel-Rahman AA (2014). Endothelial and neuronal nitric oxide synthases variably modulate the estrogen-mediated control of blood pressure and cardiovascular autonomic control. *Clin Exp Pharmacol Physiol* 41, 246-254.
16. El-Gowell HM, Helmy MW, Ali RM, **El-Mas MM** (2014). Celecoxib offsets the negative renal influences of cyclosporine via modulation of the TGF- $\beta$ 1/IL-2/COX-2/endothelin  $ET_B$  receptor cascade. *Toxicol Appl Pharmacol* 275, 88-95.
17. Nasser SA, Elmallah AI, Sabra R, Khedr MM, Mohy El-Din MM, **El-Mas MM** (2014). Blockade of endothelin  $ET_A$ , but not thromboxane, receptors offsets the cyclosporine-evoked hypertension and interrelated baroreflex and vascular dysfunctions. *Eur J Pharmacol* 727, 52-59.
18. **El-Mas MM**, Fan M, Abdel-Rahman AA (2013). Role of rostral ventrolateral medullary ERK/JNK/p38 MAPK signaling in the pressor effects of ethanol and its oxidative product acetaldehyde. *Alcohol Clin Exp Res* 37, 1827–1837.
19. **El-Mas MM**, El-Gowell HM, Michel MC (2013). Publication trends in Naunyn-Schmiedeberg's Archives of Pharmacology: focus on pharmacology in Egypt. *Naunyn-Schmiedebergs Arch Pharmacol* 386, 929-933.
20. **El-Mas MM**, Abdel-Rahman AA (2013). Cardiovascular autonomic modulation by nitric oxide synthases accounts for the augmented enalapril-evoked hypotension in ethanol-fed female rats. *Alcohol* 47, 339-346.
21. Gohar EY, El-gowilly SM, El-Gowell HM, **El-Mas MM** (2013). Nicotine paradoxically affects the facilitatory effect of ovarian hormones on the adenosine receptor-mediated renal vasodilation. *Eur J Pharmacol* 710, 1-9.
22. El-Gowell HM, El-gowilly SM, Elsalakawy LK, **El-Mas MM** (2013). Nitric oxide synthase/ $K^+$  channel cascade triggers the adenosine  $A_{2B}$  receptor-sensitive renal vasodilation in female rats. *Eur J Pharmacol* 702, 116-125.
23. **El-Mas MM**, Fan M, Abdel-Rahman AA (2012). Differential modulation by vascular nitric oxide synthases of the ethanol-evoked hypotension and autonomic dysfunction in female rats. *Alcohol* 46, 727-735.
24. **El-Mas MM**, Mohy El-Din MM, Helmy MM, Omar AG (2012). Redox imbalances incite the hypertensive, baroreflex, and autonomic effects of cyclosporine in rats. *Eur J Pharmacol* 694, 82-88.
25. **El-Mas MM**, El-Gowell HM, El-gowilly SM, Fouda MA, Helmy MM (2012). Estrogen provokes the depressant effect of chronic nicotine on vagally-mediated reflex chronotropism in female rats. *J Pharmacol Exp Ther* 342, 568-575.
26. Harraz OF, El-Gowell HM, Mohy El-Din MM, Ghazal AM, **El-Mas MM** (2012). Adenosinergic modulation of the imidazoline  $I_1$ -receptor-dependent hypotensive effect of ethanol in acute renal failure. *Food Chem Toxicol* 50, 2622-2628.
27. **El-Mas MM**, Abdel-Rahman AA (2012). Exacerbation of myocardial dysfunction and autonomic imbalance contribute to the estrogen-dependent chronic hypotensive effect of ethanol in female rats. *Eur J Pharmacol* 679, 95-100.
28. **El-Mas MM**, Abdel-Rahman AA (2012). Enhanced catabolism to acetaldehyde in rostral ventrolateral medullary neurons accounts for the pressor effect of ethanol in spontaneously hypertensive rats. *Am J Physiol Heart Circ Physiol* 302, H837-844.
29. **El-Mas MM**, Omar AG, Helmy MM, Mohy El-Din MM (2012). Crosstalk between central pathways of nitric oxide and carbon monoxide in the hypertensive action of cyclosporine. *Neuropharmacology* 62, 1890-1896.
30. **El-Mas MM**, Fouda MA, El-gowilly SM, Saad EI (2012). Central estrogenic pathways protect against the depressant action of acute nicotine on reflex tachycardia in female rats. *Toxicol Appl Pharmacol* 258, 410-417.
31. El-Gowell HM, Abd-Elrahman KS, Saad EI, El-gowilly SM, Abdel-Galil AA, **El-Mas MM** (2011). PPAR $\gamma$  dependence of cyclosporine-isoprenaline renovascular interaction: Roles of nitric oxide synthase and heme oxygenase. *J Cardiovasc Pharmacol* 58, 173-180.
32. **El-Mas MM**, El-gowilly SM, Fouda MA, Saad EI (2011). Role of adenosine  $A_{2A}$  receptor signaling in the nicotine-evoked attenuation of reflex cardiac sympathetic control. *Toxicol Appl Pharmacol* 254, 229-237.
33. **El-Mas MM**, El-Gowell HM, Abd-Elrahman KS, Saad EI, Abdel-Galil AA, Abdel-Rahman AA (2011). Pioglitazone abrogates cyclosporine-evoked hypertension via rectifying abnormalities in vascular endothelial function. *Biochem Pharmacol* 81, 526–533.

34. **El-Mas MM**, Abdel-Rahman AA (2011). Bradykinin B<sub>2</sub> receptor-dependent enhancement of enalapril-evoked hypotension in ethanol-fed female rats. *J Cardiovasc Pharmacol* 57, 72–78.
35. **El-Mas MM**, El-gowilly SM, Gohar EY, Ghazal AM, Abdel-Rahman AA (2011). Estrogen dependence of the renal vasodilatory effect of nicotine in rats: role of  $\alpha_7$  nicotinic cholinergic receptor/eNOS signaling. *Life Sci* 88, 187-193.
36. **El-Mas MM**, Fan M, Abdel-Rahman AA (2011). Upregulation of cardiac NOS due to endotoxemia and vagal overactivity contribute to the hypotensive effect of chronic ethanol in female rats. *Eur J Pharmacol* 650, 317-323.
37. **El-Mas MM**, Abdel-Rahman AA (2010). Reduced cardiac contractile force due to sympathovagal dysfunction mediates the additive hypotensive effects of limited-access regimens of ethanol and clonidine in SHR. *J Pharmacol Exp Ther* 335, 852-860.
38. Abd-Elrahman KS, El-Gowell HM, Saad EI, Abdel-Galil AA, **El-Mas MM** (2010). Role of PPAR $\gamma$ /nitric oxide synthase signaling in the cyclosporine-induced attenuation of endothelium-dependent renovascular vasodilation. *J Cardiovasc Pharmacol* 56, 195-202.
39. Nasr MA, El-gowilly SM, **El-Mas MM** (2010). Comparable renovascular protective effects of moxonidine and Simvastatin in rats exposed to cigarette smoke. *Vascul Pharmacol* 53, 53–60.
40. **El-Mas MM**, El-Gowell HA, Ghazal AM, Harraz OF, Mohy El-Din MM (2009). Facilitation of central imidazoline I<sub>1</sub>-site/extracellular signal-regulated kinase/p38 mitogen-activated protein kinase signalling mediates the hypotensive effect of ethanol in rats with acute renal failure. *Br J Pharmacol* 158, 1629-1640.
41. **El-Mas MM**, Abdel-Rahman AA (2009). Longitudinal assessment of the modulatory effect of estrogen on blood pressure and cardiac autonomic activity in female rats. *Clin Exp Pharmacol Physiol* 36, 1002–1009.
42. **El-Mas MM**, Fan M, Abdel-Rahman AA (2009). Facilitation of myocardial PI3K/Akt/nNOS signaling contributes to ethanol-evoked hypotension in female rats. *Alcohol Clin Exp Res* 33, 1158-1168.
43. **El-Mas MM**, El-gowilly SM, Gohar EY, Ghazal AM (2009). Sex and hormonal influences on the nicotine-induced attenuation of isoprenaline vasodilations in the rat perfused kidney. *Can J Physiol Pharmacol* 87, 539-548.
44. **El-Mas MM**, Omar AG, Helmy MM, Mohy El-Din MM (2009). Interruption of central neuronal pathway of imidazoline I<sub>1</sub> receptor mediates the hypertensive effect of cyclosporine in rats. *Brain Res* 1248, 96-106.
45. **El-Mas MM**, Abdel-Rahman AA (2009). Chronic ethanol attenuates centrally-mediated hypotension elicited via  $\alpha_2$ -adrenergic, but not I<sub>1</sub>-imidazoline, receptor activation in female rats. *Life Sci* 84, 111-118.
46. **El-Mas MM**, El-gowilly SM, Gohar EY, Ghazal AM (2008). Pharmacological characterization of cellular mechanisms of the renal vasodilatory effect of nicotine in rats. *Eur J Pharmacol* 588, 294–300.
47. El-gowilly SM, Ghazal AM, Gohar EY, **El-Mas MM** (2008). Exacerbation by nicotine of the cyclosporine A-induced impairment of  $\beta$ -adrenoceptor-mediated renal vasodilation in rats. *Clin Exp Pharmacol Physiol* 35, 1164-1171.
48. **El-Mas MM**, Fan M, Abdel-Rahman AA (2008). Endotoxemia-mediated facilitation of cardiac iNOS expression accounts for the hypotensive effect of ethanol in female rats. *J Pharmacol Exp Ther* 324, 368-375.
49. **El-Mas MM**, Abdel-Rahman AA (2007). Role of myocardial contractility and autonomic control in the hypotensive response to a limited access ethanol paradigm in SHR. *Alcohol Clin Exp Res* 31, 1071-1079.
50. **El-Mas MM**, Abdel-Rahman AA (2007). Intermittent clonidine regimen abolishes tolerance to its antihypertensive effect: a spectral study. *J Cardiovasc Pharmacol* 49, 174-181.
51. **El-Mas MM**, Sharabi FM, El-gowilly SM, Mohy El-Din MM (2007). Inhibition of nitric oxide-guanylate cyclase-dependent and -independent signaling contributes to impairment of  $\beta$ -adrenergic vasorelaxations by cyclosporine. *Biochem Pharmacol* 73, 359-367.
52. **El-Mas MM**, Zhang J, Abdel-Rahman AA (2006). Upregulation of vascular inducible nitric oxide synthase mediates the hypotensive effect of ethanol in conscious female rats. *J Appl Physiol* 100, 1011-1018.
53. **El-Mas MM**, Mohy El-Din MM, El-gowilly SM, Sharabi FM (2005). The  $\alpha_1$ -adrenergic receptor not DA<sub>1</sub>-dopaminergic receptor mediates cyclosporine-SKF38393 renovascular interaction. *Can J Physiol Pharmacol* 83, 1129-1136.
54. **El-Mas MM**, Abdel-Rahman AA (2005). Autonomic modulation of altered diurnal hemodynamic profiles in ethanol-fed hypertensive rats. *Alcohol Clin Exp Res* 29, 499-508.
55. **El-Mas MM**, Abdel-Rahman AA (2005). Longitudinal studies on the effect of hypertension on circadian hemodynamic and autonomic rhythms in telemetered rats. *Life Sci* 76, 901–915.
56. Omar AG and **El-Mas MM** (2004). Time-domain evaluation of cyclosporine interaction with hemodynamic variability. *Cardiovasc Drugs Therapy*, 18, 461-468.
57. **El-Mas MM** and Abdel-Rahman AA (2004). Chronic ethanol-clonidine hemodynamic interaction in telemetered spontaneously hypertensive rats. *Vascul Pharmacol* 41, 107-113.
58. **El-Mas MM**, Abdel-Rahman AA (2004). Differential modulation by estrogen of  $\alpha_2$ -adrenergic and I<sub>1</sub>-imidazoline receptor-mediated hypotension in female rats. *J Appl Physiol* 97, 1237-1244.
59. **El-Mas MM**, Abdel-Rahman AA (2004). Contrasting effects of chronic ethanol feeding on centrally- and peripherally-evoked hypotension in telemetered female rats. *Vascul Pharmacol* 41, 59-66.
60. **El-Mas MM**, Abdel-Rahman AA (2004). Effects of long-term ovariectomy and estrogen replacement on clonidine-evoked reductions in blood pressure and hemodynamic variability. *J Cardiovasc Pharmacol* 43, 607-615.

61. **El-Mas MM**, Mohy El-Din MM, El-gowilly SM, Sharabi FM (2004). Regional and endothelial differences in the cyclosporine attenuation of adenosine receptor-mediated vasorelaxations. *J Cardiovasc Pharmacol* 43, 562-573.
62. **El-Mas MM**, Mohy El-Din MM, El-gowilly SM, Sharabi FM (2004). Relative roles of endothelial relaxing factors in cyclosporine-induced impairment of cholinergic and  $\beta$ -adrenergic renal vasodilations. *Eur J Pharmacol* 487, 149-158.
63. **El-Mas MM**, Abdel-Rahman AA (2004). Chronic ethanol administration attenuates imidazoline I<sub>1</sub> or  $\alpha_2$ -adrenoceptor-mediated reductions in blood pressure and hemodynamic variability in hypertensive rats. *Eur J Pharmacol* 485, 251-262.
64. **El-Mas MM**, Rekik M, Abdel-Rahman AA, Mustafa JS (2003). Chronic ethanol feeding potentiates  $\alpha_1$ -adrenoceptor responsiveness in SHR aortas. *Clin Exp Hypertens* 25, 381-393.
65. **El-Mas MM**, Abdel-Rahman AA (2003). Effects of chronic ethanol feeding on clonidine-evoked reductions in blood pressure, heart rate, and their variability: Time-domain analyses. *J Pharmacol Exp Ther* 306, 271-278.
66. **El-Mas MM**, Afify EA, Omar AG, Mohy El-Din MM, Sharabi FM (2003). Testosterone depletion contributes to cyclosporine-induced chronic impairment of acetylcholine renovascular relaxations. *Eur J Pharmacol* 468, 217-224.
67. Rekik M, **El-Mas MM**, Mustafa SJ, Abdel-Rahman AA (2002). Role of endothelial adenosine receptor-mediated vasorelaxation in ethanol-induced hypotension in hypertensive rats. *Eur J Pharmacol* 452, 205-214.
68. **El-Mas MM**, Afify EA, Omar AG, Sharabi FM (2002). Cyclosporine attenuates the autonomic modulation of reflex chronotropic responses in conscious rats. *Can J Physiol Pharmacol* 80, 766-776.
69. **El-Mas MM**, Afify EA, Omar AG, Sharabi FM (2002). Cyclosporine adversely affects baroreflexes via inhibition of testosterone modulation of cardiac vagal control. *J Pharmacol Exp Ther* 301, 346-354.
70. **El-Mas MM**, Afify EA, Mohy El-Din MM, Omar AG, Sharabi FM (2001). Testosterone facilitates the baroreceptor control of reflex bradycardia: role of cardiac sympathetic and parasympathetic components. *J Cardiovasc Pharmacol* 38, 754-763.
71. **El-Mas MM**, Abdel-Rahman AA (2001). An association between the estrogen-dependent hypotensive effect of ethanol and an elevated brainstem *c-jun* mRNA in female rats. *Brain Res* 912, 79-88.
72. **El-Mas MM**, Abdel-Rahman AA (2001). Effect of long-term ethanol feeding on brainstem  $\alpha_2$ -receptor binding in Wistar-Kyoto and spontaneously hypertensive rats. *Brain Res* 900, 324-328.
73. **El-Mas MM**, Abdel-Rahman AA (2001). Evidence for the involvement of central I<sub>1</sub>-imidazoline receptor in ethanol counteraction of clonidine hypotension in spontaneously hypertensive rats. *J Cardiovasc Pharmacol* 38, 417-426.
74. Zhang J, **El-Mas MM**, Abdel-Rahman AA (2001). Imidazoline I<sub>1</sub> receptor-induced activation of phosphatidylcholine-specific phospholipase C elicits mitogen-activated protein kinase phosphorylation in PC12 cells. *Eur J Pharmacol* 415, 117-125.
75. **El-Mas MM**, Abdel-Rahman AA (2000). Clonidine diminishes *c-jun* gene expression in the cardiovascular sensitive areas of the rat brainstem. *Brain Res* 856, 245-249.
76. **El-Mas MM**, Abdel-Rahman AA (2000). Radiotelemetric evaluation of the hemodynamic effects of long-term ethanol in spontaneously hypertensive and Wistar-Kyoto rats. *J Pharmacol Exp Ther* 292, 944-951.
77. **El-Mas MM**, Abdel-Rahman AA (2000). Ovariectomy alters the chronic hemodynamic and sympathetic effects of ethanol in radiotelemetered female rats. *Clin Exp Hypertens* 22, 109-126.
78. **El-Mas MM**, Abdel-Rahman AA (1999). Role of the sympathetic control of vascular resistance in ethanol-clonidine hemodynamic interaction in SHRs. *J Cardiovasc Pharmacol* 34, 589-596.
79. **El-Mas MM**, Abdel-Rahman AA (1999). Sexually dimorphic hemodynamic effects of intragastric ethanol in conscious rats. *Clin Exp Hypertens* 21, 1429-1445.
80. Abdel-Kreem MFM, **El-Mas MM** (1999). Benzene-1,4-bis [1-(substituted phenethylamino)-cyclohexanes]: potential  $\alpha_2$ -adrenoceptor probes. *Alex J Pharm Sci* 13, 47-52.
81. **El-Mas MM**, Abdel-Rahman AA (1999). Estrogen-dependent hypotensive effects of ethanol in conscious female rats. *Alcohol Clin Exp Res* 23, 624-632.
82. Mohamed MK, **El-Mas MM**, Abdel-Rahman AA (1999). Estrogen enhancement of baroreflex sensitivity is centrally mediated. *Am J Physiol* 276, 45, R1030-R1037.
83. **El-Mas MM** (1999). Ethanol abolishes clonidine-induced impairment of baroreflex control of heart rate in conscious rats. *Gen Pharmacol* 32, 207-214.
84. **El-Mas MM**, Elmallah AI, Omar AG, Sharabi F (1999). Dopamine modulates peripheral purinergic neurotransmission through multiple presynaptic receptors: tissue-dependent effects. *Pharmacol Res* 39, 11-19.
85. **El-Mas MM**, Abdel-Rahman AA (1999). Acute hemodynamic effects of ethanol in conscious spontaneously hypertensive and normotensive rats. *Alcohol Clin Exp Res* 23, 285-292.
86. **El-Mas MM**, Abdel-Rahman AA (1999). Ethanol counteraction of I<sub>1</sub>-imidazoline but not alpha-2 adrenergic receptor-mediated reduction in vascular resistance in conscious spontaneously hypertensive rats. *J Pharmacol Exp Ther* 288, 455-462.
87. **El-Mas MM**, Abdel-Rahman AA (1998). Estrogen enhances baroreflex control of heart rate in conscious ovariectomized rats. *Can J Physiol Pharmacol* 76, 381-386.



88. **El-Mas MM**, Abdel-Rahman AA (1998). Ethanol selectively counteracts hypotension evoked via central I<sub>1</sub>-imidazoline but not  $\alpha_2$ -adrenergic receptor activation in spontaneously hypertensive rats. *J Cardiovasc Pharmacol* 32, 382-389.
89. **El-Mas MM**, Abdel-Rahman AA (1998). Ovariectomy abolishes ethanol-induced impairment of baroreflex control of heart rate in conscious rats. *Eur J Pharmacol* 349, 253-261.
90. **El-Mas MM** (1998). Facilitation of reflex bradycardia does not contribute to the enhanced hypotensive effect of clonidine in aortic barodenervated rats. *J Cardiovasc Pharmacol* 31, 869-875.
91. **El-Mas MM**, Daabees TT, El-Gowell HM, Abdel-Galil AA (1997). Enhanced endothelial nitric oxide activity contributes to the reduced responsiveness of vascular  $\alpha_1$ -adrenoceptors following aortic barodenervation. *Eur J Pharmacol* 337, 235-243.
92. **El-Mas MM**, Abdel-Rahman AA (1997). Role of cardiac output in ethanol-evoked attenuation of centrally-mediated hypotension in conscious rats. *Hypertension* 30, 288-294.
93. **El-Mas MM**, Abdel-Rahman AA (1997). Aortic barodenervation upregulates  $\alpha_2$ -adrenoceptors in the nucleus tractus solitarius and rostral ventrolateral medulla: an autoradiographic study. *Neuroscience* 79, 581-590.
94. **El-Mas MM**, Abdel-Galil AA, El-Gowell HM, Daabees TT (1997). Short-term aortic barodenervation diminishes  $\alpha_1$ -adrenoceptor reactivity in rat aortic smooth muscle. *Eur J Pharmacol* 322, 201-210.
95. **El-Mas MM**, Abdel-Rahman AA (1997). Contrasting effects of urethane, ketamine and thiopental anesthesia on ethanol-clonidine hemodynamic interaction. *Alcohol Clin Exp Res* 21, 19-27.
96. Elmallah AI, Sharabi F, Omar AG, **El-Mas MM** (1995). Prazosin-induced blockade of extraneuronal uptake facilitates dopaminergic modulation of muscle twitches in rat vas deferens. *J Pharm Pharmacol* 47, 932-936.
97. **El-Mas MM**, Abdel-Rahman AA (1995). Upregulation of imidazoline receptors in the medulla oblongata accounts for the enhanced hypotensive effect of clonidine in aortic barodenervated rats. *Brain Res* 691, 195-204.
98. **El-Mas MM** (1995). Oral and injectable hormonal contraceptives in association with breast cancer. *Alex J Pharm Sci* 9, 75-78.
99. **El-Mas MM**, Carroll RG, Abdel-Rahman AA (1994). Centrally-mediated reduction in cardiac output elicits the enhanced hypotensive effect of clonidine in conscious aortic barodenervated rats. *J Cardiovasc Pharmacol* 24, 184-193.
100. **El-Mas MM** (1994). Influence of anesthesia on baroreflex-mediated control of heart rate. *Alex J Pharm Sci* 8, 99-104.
101. Fahim M, **El-Mas MM**, Abdel-Rahman AA, Mustafa SJ (1994). Influence of aortic baroreceptor denervation on adenosine receptor-mediated relaxation of isolated rat aorta. *Eur J Pharmacol* 254, 183-191.
102. **El-Mas MM**, Tao S, Carroll RG, Abdel-Rahman AA (1994). Ethanol-clonidine hemodynamic interaction in normotensive rats is modified by anesthesia. *Alcohol* 11, 307-314.
103. **El-Mas MM**, Carroll RG, Abdel-Rahman AA (1993). Blood pressure normalization in carotid barodenervated rats: role of cardiac output. *Can J Physiol Pharmacol* 71, 783-790.
104. **El-Mas MM**, Abdel-Rahman AA (1993). Role of NMDA and non-NMDA receptors in the nucleus tractus solitarius in the depressant effect of ethanol on baroreflexes. *J Pharmacol Exp Ther* 266, 602-610.
105. **El-Mas MM**, Abdel-Rahman AA (1993). Direct evidence for selective involvement of aortic baroreceptors in ethanol-induced impairment of baroreflex control of heart rate. *J Pharmacol Exp Ther* 264, 1198-1205.
106. Abdel-Rahman AA, Carroll RG, **El-Mas MM** (1992). Role of the sympathetic nervous system in alcohol-guanabenz hemodynamic interaction. *Can J Physiol Pharmacol* 70, 1217-1224.
107. **El-Mas MM**, Abdel-Rahman AA (1992). Role of aortic baroreceptors in ethanol-induced impairment of baroreflex control of heart rate in conscious rats. *J Pharmacol Exp Ther* 262, 157-165.
108. Bedwell AM, **El-Mas M**, Hughes IE (1992). Effect of cocaine on tritium overflow evoked from vasa deferentia previously loaded with [<sup>3</sup>H]noradrenaline by stimulation using different types of electrodes. *J Pharm Pharmacol* 44, 235-238.
109. **El-Mas M**, Hughes IE (1990). Effect of blockade of noradrenaline re-uptake on evoked tritium overflow from mouse vasa deferentia and rat cortex slices. *Br J Pharmacol* 101, 762-768.
110. **El-Mas M**, Goodall J, Hughes IE (1989). On the mechanism involved in the ability of meptazinol to potentiate the effects of sympathetic nerve stimulation. *J Pharm Pharmacol* 41, 242-246.
111. Abou Zeit-Har MS, Bistawroos AE, **El-Mas MM**, Ghazal A, Zeitoun R (1987). Effects of andursil, ranitidine and prostaglandin E<sub>2</sub> on indomethacin induced gastric ulcers in the rat. *Bull Alex Fac Med*, XXIII 1, 69-78.
112. Rashida Z, Abou Zeit-Har MS, Bistawroos AE, **El-Mas MM**, Ghazal A (1987). Synergistic effect of combined antacid and ranitidine treatment on restraint induced gastric ulcers in the rat. *Bull Alex Fac Med*, XXIII 1, 79-91.
113. Abou Zeit-Har MS, Bistawroos AE, **El-Mas MM**, Ghazal A, Zeitoun R (1987). Protective effect of hyoscine against stress and indomethacin induced gastric ulcers in the rat. *Bull Alex Fac Med*, XXIII 1, 93-101.

### **(B) Published Abstracts (86)**

1. **El-Mas MM**, Helmy MW, Helmy MM. Additive Renoprotective Effects Of Pioglitazone And Fenofibrate Against Cisplatin-Induced Renal Failure: PPARs/TNF- $\alpha$  Modulation. *FASEB J* April 2015 29:938.5

2. Sallam MW, El-Gowilly SM, Abdel-Galil AA, **El-Mas MM**. Central Pathways of MAPK<sub>p38</sub> and MAPK<sub>JNK</sub> Mediate TNF $\alpha$ /iNOS-Dependent Endotoxic Manifestations of Hypotension and Compromised Heart Rate Variability in Rats. *FASEB J* April 2015 29:624.4
3. Ibrahim KS, El-Yazbi AF, El-Gowell HM, **El-Mas MM**. Divergent Effects for Celecoxib and Diclofenac on Hemodynamic and Left Ventricular Actions of Cyclosporine in Female Rats. *FASEB J* April 2015 29:1025.11
4. **El-Mas MM**, Abdel-Rahman AA. Ethanol Discontinuation Does Not Fully Reverse Its Chronic Effects on Blood Pressure, Heart Rate, and Their Variability in SHR: Diurnally-Unrelated Effects. *FASEB J* April 2015 29:623.11
5. **El-Mas MM**, Abdel-Rahman AA. Estrogen-Dependent Upregulation of the Renin Angiotensin System and Constitutive NOS Accounts for Ethanol Enhancement of Enalapril-Evoked Hypotension in Telemetered Female Rats. *FASEB J* April 2015 29:624.1
6. Fouda MA, El-Gowell HM, El-Gowilly SM, **El-Mas MM**. Peripheral and central mechanisms of cyclosporine-induced hypertension, 3<sup>rd</sup> Future University International Conference of Pharmaceutical Sciences, Cairo, Egypt 2015, Feb 9-11.
7. **El-Mas MM**. Divergent estrogenic modulation of the nicotine-baroreflex interaction, the 6th International Conference on Natural Toxins, Suez Canal University, Ismailia, Egypt 2014, Dec 15-16.
8. **El-Mas MM**, El-Gowell HM, Elsalakawy LK, El-gowilly SM. Estrogen compromises the facilitatory effect of chronic nicotine on adenosine A<sub>2B</sub> receptor/K<sup>+</sup> channel-mediated renal vasodilations. *FASEB J* April 2014 28: 837.3
9. **El-Mas MM**, Abdel-Rahman AA. Nongenomic effects of estrogen mediate the dose-related myocardial oxidative stress and dysfunction caused by acute ethanol in female rats. *FASEB J* April 2014 28:652.19
10. **El-Mas MM**, Abdel-Rahman AA. Enhanced oxidative stress/DAPK3/Akt/ERK signaling accounts for estrogen exacerbation of cardiac dysfunction caused by ethanol in male rats. *FASEB J* April 2014 28:652.20
11. **El-Mas MM**, El-Gowell HM, Fouda M, El-gowilly SM. The interplay between heme oxygenase and nitric oxide synthase and downstream PI3K/sGC/ERK signaling ameliorates the estrogen-dependent depressant effect of chronic nicotine on reflex bradycardia. *FASEB J* April 2014 28:837.2
12. Nasser S, Elmallah A, Mohy El-Din M, Khedr M, El-Mas MM. Functional angiotensin and endothelin, but not thromboxane, pathways are necessary for the hypertension and baroreflex dysfunction caused by cyclosporine in rats. *FASEB J* April 2014 28:LB565
13. Helmy MW, El-Gowell HM, Abdel-Halim RM, **El-Mas MM**. Aggravated Nephrotoxicity Evoked By Concurrent Exposure To Cyclosporine And Indomethacin In Rats: Role Of The Endothelin ETA Receptor/TGF-beta/COX-2 Pathway *FASEB J* April 9, 2013 27:654.10
14. El-Gowell HM, Helmy MW, Abdel-Halim RM, **El-Mas MM**. Celecoxib Offsets The Negative Renal Influences of Cyclosporine Via COX-2/Endothelin ETB Receptor crosstalk *FASEB J* April 9, 2013 27:654.9
15. **El-Mas MM**, Abdel-Halim RM, Helmy MW, El-Gowell HM. Endothelin ETA/ETB receptors modulate the hemodynamic interaction of cyclosporine with selective and nonselective nonsteroidal antiinflammatory drugs in rats *FASEB J* April 9, 2013 27:654.8
16. **El-Mas MM**, Abdel-rahman AA. The ERK/MAPK-Dependent Pressor Effect Of Intra-RVLM Ethanol Is Tonicly Attenuated By Local Phosphatases In Normotensive Rats *FASEB J* April 9, 2013 27:654.7
17. Gohar EY, El-gowilly SM, El-Gowell HM, **El-Mas MM**. Nicotine Paradoxically Alters The Facilitatory Action Of Estrogen And Progesterone On Adenosine Receptor-Mediated Renal Vasodilations *FASEB J* April 9, 2013 27:654.6
18. **El-Mas MM**, El-Gowell HM, Fouda MA, El-Gowilly SM. Modulation Of The Baroreflex Depressant Effect Of Chronic Nicotine In Female Rats By Nitric Oxide Synthase And Heme Oxygenase *FASEB J* April 9, 2013 27:654.5
19. Fan M, **El-Mas MM**, Abdel-rahman AA. Preserved Left Ventricular Performance In Spontaneously Hypertensive Rats Following Preload And Afterload Challenges *FASEB J* April 9, 2013 27:654.4
20. **El-Mas MM**, Abdel-rahman AA. The Estrogen-Mediated Control Of Blood Pressure And Cardiovascular Autonomic Control Are Differentially Modulated By Endothelial And Neuronal Nitric Oxide Synthases *FASEB J* April 9, 2013 27:654.3
21. **El-Mas MM**, Abdel-rahman AA. Cardiovascular Autonomic Activity Modulation By Nitric Oxide Synthases Mediates The Augmented Enalapril-Evoked Hypotension In Ethanol-Fed Female Rats *FASEB J* April 9, 2013 27:654.2
22. Nasser SA, Elmallah AI, Sabra R, Khedr MM, Mohy El-Din MM, **El-Mas MM**. On The Mechanism Of The Cyclosporine-Evoked Facilitation Of The Vasoconstrictor Activity Of Angiotensin II In The Rat Aorta *FASEB J* April 9, 2013 27:lb593
23. Nasser SA, Elmallah AI, Sabra R, Khedr MM, Mohy El-Din MM, **El-Mas MM**. Endothelin ETA Receptor-Mediated Nitric Oxide Synthase Inhibition Underlies Cyclosporine Impairment Of Cholinergic Vasorelaxations In Rats *FASEB J* April 9, 2013 27:lb597
24. **El-Mas MM**. Gender and hormonal specificities of the nicotine interaction with cardiac reflexes. International Conference on Advanced Basic and Applied Sciences, Hurgada, Egypt, Nov 2012, pp. 35-36.
25. **El-Mas MM**, El-gowilly SM, Gohar EY, El-Gowell HM. Influence of chronic nicotine on acetylcholine-evoked renal vasodilations in female rats: dose dependency and ovarian hormonal modulation *FASEB J* March 29, 2012, 26, 1051.7

26. **El-Mas MM**, El-Gowell HM, Elsalakawy LK, El-gowilly SM. Nitric oxide synthase, but not heme oxygenase, mediates the adenosine a<sub>2b</sub> receptor-sensitive renal vasodilations in female rats FASEB J March 29, 2012, 26, 1051.6
27. **El-Mas MM**, Fan M, Abdel-Rahman AA. Role of rostral ventrolateral medullary erk/jnk/p38 mapk signaling in the pressor effects of ethanol and its oxidative product acetaldehyde in shrs FASEB J March 29, 2012, 26, 1115.14
28. **El-Mas MM**, Abdel-Rahman AA. Enhanced catabolism to acetaldehyde in rostral ventrolateral medullary neurons accounts for the pressor effect of ethanol in shrs FASEB J March 29, 2012, 26, 1115.13
29. **El-Mas MM**, El-Gowell HM, Fouda MA, El-gowilly SM. Inhibition of the estrogen-mediated cardiac vagal control accounts for the baroreflex depressant effect of chronic nicotine in female rats FASEB J March 29, 2012, 26, 1124.9
30. **El-Mas MM**, El-Gowell HM, Fouda MA, Helmy MM. Dose Dependency and autonomic modulation of the depressant effect of chronic nicotine on reflex chronotropic responses in female rats. FASEB J 2011, 25, 1084.1
31. **El-Mas MM**, Omar AG, Helmy MM, Mohy El-Din MM. Autonomic and redox states modulate the moxonidine-cyclosporine hemodynamic and baroreflex interactions. FASEB J 2011, 25, 1084.2
32. **El-Mas MM**, El-gowilly SM, Fouda MA, Saad EI. Central adenosine receptors differentially contribute to the nicotine-induced attenuation of reflex tachycardic responses to baroreceptor unloading. FASEB J 2011, 25, 1084.3
33. **El-Mas MM**, Fan M, Abdel-Rahman AA. Modulatory roles of constitutive and inducible NOS in the ethanol-evoked hypotension and cardiac autonomic dysfunction in female rats. FASEB J 2011, 25, 1084.4
34. **El-Mas MM**, Abdel-Rahman AA. Myocardial contractility and autonomic imbalances contribute to the estrogen-dependent hypotensive effect of chronic ethanol in rats FASEB J 2011, 25, 1084.5
35. Abd-Elrahman KS, El-Gowell HM, , Saad EI, Abdel-Galil AA, **El-Mas MM**. PPAR $\gamma$  dependence of the cyclosporine-isoprenaline renovascular interaction: roles of nitric oxide synthase and heme oxygenase. FASEB J 2011, 25, 1087.8
36. **El-Mas MM**, El-gowilly SM, Fouda MA, and Saad EI. Acute nicotine attenuates reflex tachycardia in male rats via inhibition of baroreceptor-mediated cardiac sympathetic control. FASEB J 2010, 24, 961.2
37. **El-Mas MM**, El-gowilly SM, Fouda MA, and Saad EI. Estrogen Protects Female Rats Against The Nicotine-Induced Attenuation Of Reflex Tachycardia: Role Of Central Estrogen Receptors. FASEB J 2010, 24, 961.3
38. **El-Mas MM**, Omar AG, Helmy MM, and Mohy El-Din MM. Amelioration By Tempol Of The Hypertensive And Baroreflex Depressant Effects Of Cyclosporine In Conscious Rats: Role Of Cardiac Autonomic Control. FASEB J 2010, 24, 961.5.
39. **El-Mas MM**, Omar AG, Helmy MM, and Mohy El-Din MM. Modulation Of Cyclosporine-Induced Hypertension By Central Endothelial And Neuronal Nitric Oxide Synthases. FASEB J 2010, 24, 959.10.
40. **El-Mas MM**, El-Gowell HM, Saad EI, Abd-Elrahman KS, and Abdel-Galil AA. Pioglitazone Ameliorates Cyclosporine-Induced Attenuation Of Carbachol Renovascular Vasodilations: Role Of PPAR $\gamma$ /Nitric Oxide Synthase Signaling. FASEB J 2010, 24, 959.11.
41. **El-Mas MM**, El-Gowell HM, Harraz OF, Ghazal AM, and Mohy El-Din MM. Adenosinergic Modulation Of The Imidazoline I<sub>1</sub>-Receptor-Dependent Hypotensive Effect Of Ethanol In Acute Renal Failure. FASEB J 2010, 24, 961.10
42. **El-Mas MM**, El-Gowell HM, Saad EI, Abd-Elrahman KS, and Abdel-Galil AA. Improved Antioxidant And Lipid Profiles Underlie The Protective Effect Of Pioglitazone Against Cyclosporine-Induced Endothelium Dysfunction In Isolated Rat Aortas. FASEB J 2010, 24, 961.13.
43. **El-Mas MM**, Abdel-Rahman AA. Longitudinal assessment of the modulatory effect of estrogen on blood pressure and cardiac autonomic activity in female rats. FASEB J 2009, 23, 577.8
44. **El-Mas MM**, Fan M, Abdel-Rahman AA. Upregulation of cardiac NOS due to endotoxemia and vagal overactivity contributes to the hypotensive effect of chronic ethanol in female rats. FASEB J 2009, 23, 932.16
45. Nasr MA, El-gowilly SM, **El-Mas MM** (2008). A comparative study of the protective effect of simvastatin and moxonidine against renovascular toxicity induced by smoking in rats. FASEB J 22, Abstract # 1129.11
46. El-gowilly SM, Ghazal AM, Goher EY, and **El-Mas MM** (2008). Additive impairment of  $\beta$ -adrenoceptor-mediated renal vasodilation by nicotine and cyclosporine. FASEB J 22, Abstract # 1129.10
47. **El-Mas MM**, Omar AG, Helmy MM, Mohy El-Din MM (2008). Nitric oxide modulation of central imidazoline I<sub>1</sub> receptors accounts for the hypertensive effect of cyclosporine in rats. FASEB J 22, Abstract # 1129.9.
48. **El-Mas MM**, El-gowilly SM, Goher EY, Ghazal AM (2008). Gender and estrogen specificity of the renal vasodilatory effect of nicotine in rats. FASEB J 22, Abstract # 1129.8.
49. **El-Mas MM**, El-gowilly SM, Goher EY, Ghazal AM (2008). Roles of nitric oxide and K<sup>+</sup> channels in the vasodilatory action of nicotine in the rat renal vasculature. FASEB J 22, Abstract # 1129.7.
50. **El-Mas MM** and Abdel-Rahman AA (2008). Ethanol feeding enhances the hypotensive action of enalapril in telemetered female rats: Role of bradykinin B<sub>2</sub> receptors. FASEB J 22, Abstract # 1129.6.
51. **El-Mas MM**, Fan M and Abdel-Rahman AA (2008). Ethanol lowers blood pressure in conscious female rats via enhancing the phosphorylation of myocardial neuronal nitric oxide synthase. FASEB J 22, Abstract # 1129.5.
52. **El-Mas MM**, Mohy El-Din MM, El-Gowell S and Sharabi FM (2006). Signaling mechanisms of cyclosporine-induced impairment of  $\beta$ -adrenergic vasorelaxations. BioVision Alexandria, Abstract# 37, pp. 17.

53. **El-Mas MM** and Abdel-Rahman AA (2005). Receptor specificity of the negative impact of ethanol on centrally-evoked hypotension in female rats. *FASEB J* 19 (4), Abstract# 87.7, pp. A102.
54. **El-Mas MM**, Zhang J and Abdel-Rahman AA (2005). Upregulation of vascular inducible nitric oxide synthase mediates the hypotensive effect of ethanol in conscious female rats. *FASEB J* 19 (4), Abstract# 87.6, pp. A101-102.
55. **El-Mas MM** and Abdel-Rahman AA (2005). Autonomic modulation of altered diurnal hemodynamic profiles in ethanol-fed hypertensive rats. *FASEB J* 19 (4), Abstract# 87.5, pp. A101.
56. **El-Mas MM** and Abdel-Rahman AA (2005). Intermittent clonidine regimen abolishes tolerance to its antihypertensive effect: a spectral study. *FASEB J* 19 (4), Abstract# 87.4, pp. A101.
57. **El-Mas MM**, Mohy El-Din MM, El-Gowell S and Sharabi FM (2004). Regional and endothelial differences in the cyclosporine attenuation of adenosine receptor-mediated vasorelaxations. *FASEB J* 18 (5), Abstract#643.7, pp. A982-983.
58. **El-Mas MM** and Abdel-Rahman AA (2004). Effects of long-term ovariectomy and estrogen replacement on clonidine-evoked reductions in blood pressure and hemodynamic variability. *FASEB J* 18 (4), Abstract#404.14, pp. A601-602.
59. **El-Mas MM** and Abdel-Rahman AA (2004). Chronic ethanol attenuates I<sub>1</sub>- or  $\alpha_2$ -receptor-mediated reductions in blood pressure and hemodynamic variability in hypertensive rats. *FASEB J* 18 (4), Abstract#404.13, pp. A601.
60. **El-Mas MM** and Abdel-Rahman AA (2004). Age-related alterations in circadian hemodynamic rhythms in telemetered wistar-kyoto and spontaneously hypertensive rats. *FASEB J* 18 (4), Abstract#404.12, pp. A601.
61. **El-Mas MM**, Mohy El-Din MM, El-Gowell S and Sharabi FM (2003). Roles of endothelial relaxing factors in cyclosporine-induced inhibition of cholinergic and  $\beta$ -adrenergic renovascular relaxations. *FASEB J* 17 (4), Abstract#148.4, pp. A224.
62. **El-Mas MM** and Abdel-Rahman AA (2003). Effects of chronic ethanol feeding on clonidine-evoked reductions in blood pressure, heart rate, and their variability: Time-domain analyses. *FASEB J* 17 (4), Abstract#400.3, pp. A651.
63. **El-Mas MM**, Afify EA, Omar AG, Mohy El-Din MM, and Sharabi FM (2003). Testosterone reverses cyclosporine-induced chronic impairment of acetylcholine renovascular relaxations. *FASEB J* 17 (4), Abstract#386.8, pp. A617.
64. Abdel-Rahman AA, **El-Mas MM** (2001). Evidence for the involvement of central I<sub>1</sub>-imidazoline receptor in ethanol counteraction of clonidine hypotension in SHR. *FASEB J* 15 (4), Abstract#202.15, pp. A212.
65. Rekik M, **El-Mas MM**, Abdel-Rahman AA, and Mustafa SJ (2000). Long-term ethanol feeding enhances the vasorelaxing effect of adenosine in isolated aorta from spontaneously hypertensive rats. *FASEB J* 14 (4), Abstract#330-12, pp. A462.
66. **El-Mas MM** and Abdel-Rahman AA (1999). Downregulation of  $\alpha_2$ -adrenoceptors in the nucleus tractus solitarius chronic ethanol feeding contributes to its hemodynamic interaction with  $\alpha$ -methyl dopa in telemetered spontaneously hypertensive rats. Experimental Biology meeting, Late-Breaking Abstract# 19.
67. **El-Mas MM** and Abdel-Rahman AA (1999). Estrogen-dependent hypotensive and sympathoinhibitory effects of ethanol in conscious female rats. *FASEB J* 13 (5), Abstract#788.7, pp. A1045.
68. **El-Mas MM** and Abdel-Rahman AA (1999). Radiotelemetric evaluation of the hemodynamic effects of long-term ethanol feeding in spontaneously hypertensive and wistar kyoto rats. *FASEB J* 13 (5), Abstract#128.24, pp. A115.
69. **El-Mas MM** and Abdel-Rahman AA (1998). Role of the sympathetic control of vascular resistance in the differential effect of ethanol on I<sub>1</sub>-imidazoline and  $\alpha_2$ -adrenergic receptor evoked hypotension. *Circulation* 98 (17), Abstract#2349, pp. I-447.
70. **El-Mas MM** and Abdel-Rahman AA (1998). Ovariectomy abolishes ethanol-induced impairment of baroreflex control of heart rate in conscious rats. *FASEB J* 12 (4), Abstract#2317, pp. A399.
71. Abdel-Rahman AA, Mohamed MK, and **El-Mas MM** (1998). Estrogen enhancement of baroreflex sensitivity is centrally mediated. *FASEB J* 12 (4), Abstract#2316, pp. A398.
72. Vadlamudi S, Cortright RN, **El-Mas MM**, Abdel-Rahman AA, and Barakat H (1998). Chronic alcohol feeding differentially alters insulin sensitivity in skeletal muscle and adipocytes in SHR: Minisymposium. *FASEB J* 12 (4), Abstract#2058, pp. A354.
73. **El-Mas MM** and Abdel-Rahman AA (1997). Contrasting effects of anesthetics on ethanol-clonidine hemodynamic interaction. *FASEB J* 11 (3), Abstract#2694, pp. A466.
74. Abdel-Rahman AA and **El-Mas MM** (1997). Upregulation of brainstem imidazole receptors accounts for the enhanced hypotensive effect of clonidine in aortic denervated rats. *Fundam Clin Pharmacol* 11 (Suppl 1), 124s-125s.
75. Sharabi FM, El-Mallah AI, Omar AG and **El-Mas MM** (1996). Dopamine modulates neurotransmission at periphery through multiple presynaptic receptors: tissue-dependent effects. *FASEB J* 10 (3), Abstract#2467, pp. A427.
76. **El-Mas MM** (1994). Interaction of anesthesia with baroreflex chronotropic responses: sex related effects. Annual Conference of the Egyptian Society of Pharmacology and Experimental Therapeutics, Cairo, Egypt, pp. 8.
77. Fahim M, **El-Mas MM**, Abdel-Rahman AA and Moustafa SJ (1993). Diminished arterial smooth muscle response to adenosine analog in aortic baroreceptor denervated rats. XXXII Congress of the International Union of Physiological Sciences, Glasgow, 249.87/P.
78. **El-Mas MM**, Carroll RG and Abdel-Rahman AA (1993). Role of cardiac output in blood pressure normalization in carotid barodenervated rats. XXXII Congress of the International Union of Physiological Sciences, Glasgow, 172.14/P.

79. Abdel-Rahman A-RA, Carroll RG and **El-Mas MM** (1992). Ethanol reverses clonidine evoked decreases in plasma norepinephrine and arterial pressure in conscious rats. 7th International Catecholamine Symposium, Amsterdam, Abstr. 1.
80. **El-Mas MM** and Abdel-Rahman A-RA (1992). Selective involvement of NMDA receptors in ethanol-induced attenuation of baroreflexes. *Pharmacologist*, 34, 167.
81. **El-Mas M** and Hughes IE (1991). Effect of cocaine on <sup>3</sup>H-overflow evoked by different types of electrical stimulation of vas deferens loaded with <sup>3</sup>H-noradrenaline. *Fundam Clin Pharmacol* 5: 461.
82. **El-Mas M** and Hughes IE (1990). Influence of cocaine on electrically evoked [<sup>3</sup>H]-NA overflow from noradrenergic nerves: tissue dependent effect. *Br J Pharmacol*, 99, 178P.
83. **El-Mas M** and Hughes IE (1989). Differential effect of cocaine on electrically evoked tritium overflow from mouse vas deferens and rat brain cortical slices. *Br J Pharmacol* 98, 656P.
84. Rashida Z, Abou Zeit-Har MS, Bistawroos AE, **El-Mas MM** and Ghazal A (1985). Synergistic effect of combined antacid and ranitidine treatment on restraint induced gastric ulcers in the rat. Egyptian Society of Pharmacology and Experimental Therapeutics, Alexandria, Egypt.
85. Abou Zeit-Har MS, Bistawroos AE, **El-Mas MM**, Ghazal A. and Zeitoun R (1985). Protective effect of hyoscine against stress and indomethacin induced gastric ulcers in the rat. Egyptian Society of Pharmacology and Experimental Therapeutics, Alexandria, Egypt.
86. Abou Zeit-Har MS, Bistawroos AE, **El-Mas MM**, Ghazal A and Zeitoun R (1985). Effects of andursil, ranitidine and prostaglandin E<sub>2</sub> on indomethacin induced gastric ulcers in the rat. Annual Conference of the Egyptian Society of Pharmacology and Experimental Therapeutics, Alexandria, Egypt.