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Name: Marwa Youssef Mohamed Ahmed Sallam

Birth date: May 29, 1988

Birthplace: Alexandria, Egypt

Nationality: Egyptian

Education:

- **2020:** Ph.D. in Pharmaceutical Sciences, Department of Pharmacology and toxicology, Faculty of Pharmacy, University of Alexandria, Egypt.
- **2015:** Master in Pharmaceutical Sciences, Department of Pharmacology and toxicology, Faculty of Pharmacy, University of Alexandria, Egypt.
- **2010:** Bachelor of Pharmaceutical Sciences, Distinction of Honor, Faculty of Pharmacy, University of Alexandria, Egypt.
- **2005:** Graduated at El-Raml secondary School.

Research Experiences:

- **09/2011 - 06/2012:** Intensive practical and theoretical postgraduate courses of Physiology, Biochemistry, Advanced Pharmacology and Experimental Pharmacology, Faculty of Pharmacy, University of Alexandria.
- **09/2010 - 06/2011:** Intensive postgraduate courses of Scientific Writing, Statistics and Biostatistics, Computer Science and Medical Informatics, Physical Chemistry, Spectroscopy and Separation Techniques and Electrochemical Analytical Methods, Faculty of Pharmacy, University of Alexandria.
- **02/2016 - 01/2017:** Intensive theoretical postgraduate courses of Therapeutics, Biochemistry of diseases, Toxicology, Clinical pharmacokinetics, Seminar, Faculty of Pharmacy, University of Alexandria.

Academic Employment:

- **09/2010 – 12/2015:** Instructor of Pharmacology, Toxicology, Biochemistry and Bioassay; Faculty of Pharmacy, University of Alexandria.
- **01/2016 – 08/2020:** Assistant lecturer of Pharmacology, Toxicology, Biochemistry and Bioassay; Faculty of Pharmacy, University of Alexandria.
- **09/2020 – Present:** Lecturer of Pharmacology and Toxicology; Faculty of Pharmacy, University of Alexandria.

Skills:

Research

- Animal care and handling for in-vivo and in-vitro experiments, small animal surgery and drug administration via different routes.
- Tissue bath experiments: rabbit intestine and guinea pig ileum.
- Cannulation of femoral artery and vein for blood pressure monitoring and i.v administration of drugs respectively.
- Intracisternal cannulation for central administration of drugs.
- Advanced Computer Skills: Statistics, word processing, spread sheet and power point presentations.

Language:

- Arabic is the native language.
- Excellent written and spoken command of English Language.

Teaching experience:

- **09/2010 – 08/2020:** Teaching undergraduate laboratory courses (average; 40hrs/week) of Pharmacology, Toxicology, Biochemistry, Bioassay, and Therapeutics-I Faculty of Pharmacy, University of Alexandria.
- **09/2020 -present:** “Toxicology” to Pharmacy undergraduates, regular program (9th semester). Faculty of Pharmacy, University of Alexandria.
- **02/2021 -present:** “Biological Screening & Standardization of Drugs and Biostatistics” to Pharmacy undergraduates, regular program (10th semester). Faculty of Pharmacy, University of Alexandria.
- **02/2021 -present:** “Traumas and First aid” to Clinical Pharmacy undergraduates (6th semester). Faculty of Pharmacy, University of Alexandria.
- **09/2020 -present:** “Medical terminology” to Pharmacy undergraduates, PharmD and PharmD clinical programs (1st semester). Faculty of Pharmacy, University of Alexandria.
- **09/2021- present:** Teaching undergraduate course of pharmacology (3rd semester), Faculty of nursing, University of Alexandria.
- **2021- present:** Teaching basics of pharmacological research course to Master students. Faculty of Pharmacy, University of Alexandria.

Seminars and Workshops:

- **2011- 2014:** Six workshops at the accredited center of “Faculty & Leadership Development Project, University of Alexandria, entitled “Quality standards in the education process” , “Effective presentation Skills”., “University legal and financial aspects”, “Time and meeting management”, “References management system”, and “International publishing of research”.
- **2016- 2017:** Six workshops at the accredited center of “Faculty & Leadership Development Project, University of Alexandria.
- **18/7/2018:** A workshop entitled “Assessment: the real driver for competency-based education in pharmacy” at Faculty of Pharmacy, University of Alexandria.
- **6-29/6/2020:** A workshop entitled ”Moodle Learning Management system”. Online training: Digital transformation leaders. University of Alexandria.

Conferences attended:

- Biovision Alexandria 2006, Bibliotheca Alexandrina, Alexandria, Egypt (26-29/4/2006).
- 5th FUE International Conference of Pharmaceutical Sciences, Cairo, Egypt (28-30/1/2019).

Research Grants

1. Co-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" (PI: Prof. Mahmoud El-Mas)
2. Co-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" (PI: Prof. Mahmoud El-Mas).

Awards & Honors

- **2020** General travel Award from American Society for Pharmacology and Experimental Therapeutics (ASPET) for poster presentation at experimental biology conference, San Diego, California, USA, April 2020.

Membership of Professional Societies and international journals:

- Member of the American Society for Pharmacology and Experimental Therapeutics (ASPET), membership no. 57591 since 2019.

Publications:

(A) Full-length papers (9)

1. **Sallam MY**, El-Gowilly SM, Abdel-Galil AA and El-Mas MM. Central GABA_A receptors provoke inflammatory and cardiovascular consequences of endotoxemia in conscious rats. *Naunyn-Schmiedeberg's Arch Pharmacol* 2016 389:279–288.
2. **Sallam MY**, El-Gowilly SM, Abdel-Galil AA and El-Mas MM. Modulation by central MAPKs/PI3K/sGc of the TNF α /iNOS-dependent hypotension and compromised cardiac autonomic control in endotoxic rats. *J Cardiovasc Pharmacol* 2016 68:171–181
3. **Sallam MY**, El-Gowilly SM, Abdel-Galil AA and El-Mas MM. Cyclosporine Ameliorates Reductions in Blood Pressure and Heart Rate Variability Caused by Endotoxemia in Rats: Modulation by Central PI3K/sGC/MAPKs Signaling. *Eur J Pharmacol* 2017 797: 143–152.
4. **Sallam MY**, El-Gowilly SM, Abdel-Galil AA and El-Mas MM. Activation of central GABA_B receptors offsets the cyclosporine counteraction of endotoxic cardiovascular outcomes in conscious rats. *Fundamental & Clinical Pharmacology* 2018 32: 485–498.
5. **Sallam MY**, El-Gowilly SM, El-Gowelli HM., El-Lakany MA. and El-Mas MM. Additive counteraction by $\alpha 7$ and $\alpha 4\beta 2$ -nAChRs of the hypotension and cardiac sympathovagal imbalance evoked by endotoxemia in male rats. *Eur J Pharmacol* 2018 834: 36–44.

6. **Sallam MY**, El-Gowilly SM, Fouda MA, Abd-Alhaseeb MA, El-Mas MM. Brainstem cholinergic pathways diminish cardiovascular and neuroinflammatory actions of endotoxemia in rats: Role of NF κ B/ α 7/ α 4 β 2AChRs signaling. *Neuropharmacology* 2019 157, 107683.
7. El-Lakany MA., El-Gowelli HM., Fouda MA, **Sallam MY** and El-Mas MM. Nicotine uncovers endotoxic-like cardiovascular manifestations in female rats: estrogen and nitric oxide dependency. *Toxicol Lett* 2020 335, 28-36.
8. **Sallam, M.Y.**, El-Gowilly, S.M. and El-Mas, M.M. Androgenic modulation of arterial baroreceptor dysfunction and neuroinflammation in endotoxic male rats. *Brain Res.* 2021 1756: 147330.
9. **Sallam, M.Y.**, El-Gowilly, S.M. and El-Mas, M.M. Cardiac and Brainstem Neuroinflammatory Pathways Account for Androgenic Incitement of Cardiovascular and Autonomic Manifestations in Endotoxic Male Rats. *J Cardiovasc Pharmacol* 2021, 77:632–641.

(B) Published Abstracts (10)

1. **Sallam MY**, El-Gowilly SM, Abdel-Galil AA, El-Mas MM. Central Pathways of MAPK_{p38} and MAPK_{JNK} Mediate TNF α /iNOS-Dependent Endotoxic Manifestations of Hypotension and Compromised Heart Rate Variability in Rats. *FASEB J* April 2015 29:624.4
2. El-Mas MM, **Sallam MY**, Abdel-Galil AA and El-Gowilly SM.: Cyclosporine Ameliorates Reductions in Blood Pressure and Heart Rate Variability Caused by Endotoxemia in Rats: Modulation by Central PI3K/sGC/MAPKs Signaling. *FASEB J* April 2016 30: 1200.3
3. El-Mas MM, **Sallam MY**, Abdel-Galil AA and El-Gowilly SM. Central GABA_A Receptors Provoke Inflammatory and Cardiovascular Consequences of Endotoxemia in Conscious Rats. *FASEB J* April 2016 30:1200.4
4. **Sallam MY**, El-Gowilly SM, Abdel-Galil AA, El-Mas MM. Amelioration by GABAB receptors of the cyclosporine-evoked counteraction of endotoxic cardiovascular manifestations in conscious rats. *FASEB J* April 2017 31:827.4
5. **Sallam MY**, El-Gowilly SM, El-Gowelli HM. and El-Mas MM. The α 7/ α 4 β 2 nAChRs alleviate the hypotension and altered cardiac sympathovagal balance evoked by endotoxemia in male rats. *FASEB J* April 2017 31:848.3
6. **Sallam MY**, El-Gowilly SM, Fouda MA., Abd-Alhaseeb MM., and El-Mas MM. Central Cholinergic Pathways Diminish the Hypotensive and Cardiac Autonomic Depressant Effects of Endotoxemia in Male Rats: Role of Medullary NF κ B/ α 7/ α 4 β 2 AChR Signaling. *FASEB J* April 2018 32:697.2
7. **Sallam MY**, El-Mas MM, El-Gowilly SM. Nicotinic Acetylcholine Receptors of α 7 and α 4 β 2 Types Mediate the Nicotine Counteraction of Impaired Baroreceptor Function in Endotoxic Rats. *FASEB J* April 2019, 33, Issue 1, suppl 01: 511.2
8. **Sallam MY**, El-Gowilly SM, Fouda MA, Abd-Alhaseeb MM, El-Mas MM. Central α 7/ α 4 β 2 AChR signaling ameliorates the inflammatory, hypotensive and cardiovascular manifestations of endotoxemia in conscious male rats. 5th Future University International Conference of Pharmaceutical Sciences, Cairo, Egypt, January 28-30, 2019, PP. 123 (<https://www.fue.edu.eg/5thfue-icps2019/>).

9. **Sallam MY**, El-Gowilly SM, and El-Mas MM. Cardiac and medullary neuroinflammatory pathways trigger the androgenic incitement of cardiovascular sequels of endotoxemia in rats. *FASEB J* April 2020, 34, Issue S1
10. **Sallam MY**, El-Gowilly SM, and El-Mas MM. Inconsistent effects of surgical and chemical castration on arterial baroreceptor dysfunction and cardiac and brainstem inflammation in endotoxic rats. *FASEB J* April 2020, 34, Issue S1.