

Curriculum Vitae

Mohammed Abdalla El-Lakany

Personal Information

Birthdate:	January 24, 1991	Mobile:	+1 2269985078
Nationality:	Egyptian	Military Service:	Exempted – Final
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Professional Profile

Education and Qualification:

- 2019/2020: Critical Thinking and Communication Course, Department of Physiology and Pharmacology, Schulich School of Medicine and Dentistry, University of Western Ontario (Grade: 93%)
- 2015/2016: Intensive postgraduate courses of physiology, biochemistry, advanced pharmacology and applied experimental pharmacology, Faculty of Pharmacy, Alexandria University (Grade: A).
- 2014/2015: Intensive postgraduate courses of computer, statistics, physical chemistry, scientific writing, advanced instrumental analysis and separation techniques, Faculty of Pharmacy, Alexandria University (Grade: A).
- June 2014: Bachelor of Pharmaceutical Sciences, Distinction of Honor, Faculty of Pharmacy, Alexandria University (Ranked first in class. Grade: 96.4%)
- 2008 – 2012: Faculty of Pharmacy, Beirut Arab University. Cumulative GPA: 3.98
- 2008 Graduated at El-Nasr Boys' School (Ranked third in Alexandria Governorate and Eleventh in Egypt)

Academic Employment and Teaching:

- September 2020 – April 2021: Teaching assistant at the Department of Physiology and Pharmacology (PhysPharm 3000E), Schulich School of Medicine and Dentistry, University of Western Ontario, Canada.
- September 2019: Appointed as an assistant teacher at the Department of Pharmacology and Toxicology, Faculty of Pharmacy, Alexandria University, Egypt.
- August 2015 – September 2019: Demonstrator at the Department of Pharmacology and Toxicology, Faculty of Pharmacy, Alexandria University, Egypt.
Teaching involved the following courses: Pharmacology, Toxicology, Biochemistry, Clinical Pharmacology, and Therapeutics.

Research Experience:

Degrees and Enrolment:

- January 2021 – present: PhD student at the department of Physiology and Pharmacology, University of Western Ontario, London, Ontario, Canada.
- September 2019 – December 2020: MSc student at the department of Physiology and Pharmacology, University of Western Ontario, London, Ontario, Canada.
- November 2014 – August 2019: M.Sc. degree in Pharmaceutical Sciences (Pharmacology and Toxicology), Department of Pharmacology and Toxicology, Faculty of Pharmacy, Alexandria University.

Research Skills:

- The following surgeries in rats: femoral cannulation, intracisternal cannulation, bilateral ovariectomy, and castration
- Intravital microscopy of skeletal muscle microvasculature in live anesthetized mice
- Pressure myography and calcium imaging in isolated vessels
- Hemodynamic monitoring in conscious rats
- Heart rate variability assessment
- Immunostaining of formalin-fixed paraffin-embedded tissues

Publications:

Full-length Articles:

- El-Lakany MA, El-Gowell HM, Fouda MA, Sallam MY, El-Mas MM. Nicotine uncovers endotoxic-like cardiovascular manifestations in female rats: Estrogen and nitric oxide dependency. *Toxicology Letters*. 2020 Dec 15;335:28-36.
- El-Lakany MA, Fouda MA, El-Gowell HM, El-Mas MM. Ovariectomy provokes inflammatory and cardiovascular effects of endotoxemia in rats: Dissimilar benefits of hormonal supplements. *Toxicology and applied pharmacology*. 2020 Apr 15;393:114928.
- Sallam MY, El-Gowilly SM, El-Gowell HM, El-Lakany MA, 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. *European journal of pharmacology*. 2018 Sep 5;834:36-44.
- El-Lakany MA, Fouda MA, El-Gowell HM, El-Gowilly SM, El-Mas MM. Gonadal hormone receptors underlie the resistance of female rats to inflammatory and cardiovascular complications of endotoxemia. *European journal of pharmacology*. 2018 Mar 15;823:41-8.
- Mazumdar, N; Mironova, G; Hashad, A; El-Lakany, MA; Welsh, D. Defining a Role of NADPH Oxidase in Myogenic Tone Development. Submitted July 2020.

Conference Abstracts

- El-Lakany, MA; Haghbin, N; Hashad, A; Sancho, M; Welsh, DG. *Role of CaV3. 1 Channels in Myogenic Tone and Blood Pressure Regulation in Mouse Mesenteric Arteries*. Conference of Experimental Biology, Virtual, EB2020.
- El-Lakany MA, Fouda M, El-Gowell H, El-Mas M. *Estrogen receptor- α counterbalances the endotoxic inflammatory response and associated arterial baroreflex dysfunction in ovariectomized rats*. Abstract selected for oral presentation in the Conference of Experimental Biology, Orlando, Florida, USA, EB2019

- El-Lakany MA, Fouda M, El-Gowell H, El-Mas M. *Nicotine dose-dependently uncovers endotoxic cardiovascular manifestations of hypotension and autonomic dysfunction in female rats*. Abstract published in the Conference of Experimental Biology, Orlando, Florida, USA, EB2019
- El-Mas M., El-Lakany MA, Fouda M, El-Gowell H, *The provoked cardiovascular and autonomic effects of endotoxemia in ovariectomized rats are distinctly affected by estrogen and progesterone supplementation*. Abstract published in the Conference of Experimental Biology, San Diego, California, USA, EB2018.
- El-Lakany MA, Fouda M, El-Gowell H, El-Gowilly S, El-Mas M. *Gonadal Hormone Receptors Underlie the Resistance of Female Rats to Cardiovascular Complications of Endotoxemia*. Abstract published in the Conference of Experimental Biology, Chicago, Illinois, USA, EB2017.

Awards and Honors

- Awarded the **Ontario Graduate Scholarship (International Pool)**, worth 15,000 CAD from May 2020 to April 2021.
- Awarded the **Silver Order of Distinction** by the president of Egypt for achieving the **top score at Alexandria University** on September 28, 2014.
- **ASPET Speaker Award** at the Conference of Experimental Biology, Orlando, Florida, USA, EB2019. Estrogen receptor- α counterbalances the endotoxic inflammatory response and associated arterial baroreflex dysfunction in ovariectomized rats. Abstract selected for oral presentation. 500 USD prize.
- **Travel award** to the Conference of Experimental Biology, San Diego, California, USA, EB2018. Alexandria University offers this award in recognition of **distinguished scientific publication by young scientists**. Funding included US visa fees, flight tickets, conference registration fees and pocket money. Total money awarded 2700 USD.
- **Best Oral Presentation** at the Faculty of Pharmacy Annual Scientific Conference, Alexandria University, Egypt in September 2019.
- **Supervisor** of an undergraduate clinical pharmacy students group who were awarded first prize for the best oral presentation, DUPHAT, Dubai, April 2018 for their outstanding graduation project.
- **Supervisor** of an undergraduate clinical pharmacy students group who were awarded first prize for the best thematic poster presentation, DUPHAT, Dubai, April 2019 for their outstanding graduation project.

Associated Experience

- Chair of the Graduate Student Issues Committee (GSIC) – SOGS at the University of Western Ontario, April 2020 – present.
- Clinical Pharmacy:
 - Certified by the Clinical Pharmacogenomics Training Symposium at Skaggs School of Pharmacy and Pharmaceutical Sciences, University of Colorado for successfully completing the five-day course, ACPE accredited for 28.5 hours of practice-based continuing education.
 - Member of the summer training committee - Clinical Pharmacy Program, Faculty of Pharmacy, Alexandria University in the period 2014-2019.
 - Volunteered for patient counseling at Alexandria Regional Centre For Women's Health and Development 23/4/2015 – 15/5/2015
 - Two-semester condensed training at Rafik Hariri University Hospital, Beirut, Lebanon

- Community Pharmacy and Industry
 - Certified by the US Chemical Security Program for completing the: Chemical Security Vulnerability Assessment and Risk Mitigation for the Pharmaceutical Industry Workshop – offered by Sandia National Laboratories, September 2018.
 - 3-month training at Maher Kamel Pharmacy, 2012.
 - 18-hour training at Pharo Pharma, 2013.
- Member of the Quality Assurance Unit, Faculty of Pharmacy, Alexandria University 2015-2019.
- Speaker at the Faculty of Pharmacy, Alexandria University Annual Scientific Conference November 2017.
- Lab Instructor at the Faculty of Pharmacy, Alexandria University, Department of Pharmacology and Toxicology, 2014-2015.
- Speaker at the Project of Pharmacy Profession Development organized by Egyptian Pharmacy Students Federation for the following sessions: Communication Skills and Drug-Drug Interactions, March 2015.

Professional Society Memberships

- Member of the American Society for Pharmacology and Experimental Therapeutics (ASPET) since 2017.

Hobbies and Extracurricular Activities

- Music:
 - Violin player at the EGY-CAN Music Club for Egyptian musicians in Canada
 - Playing the Violin, music production and arranging concerts in amateur capacity
- Sports: Swimming, Running and football.
- Some Java programming by self-learning
- First place at reciting Quran, El-Makassed Institution, Lebanon, 2003

Key I.T. Skills

- Microsoft Office
- Adobe Photoshop
- OriginPro Lab
- Graphpad Prism
- CorelDraw

Languages

- Arabic (Native)
- English (Fluent)
- French (Weak)
- German (Weak)

