

Curriculum Vitae



Name:	Mostafa Adel Mohammed El-Zuhary Abdel-Hamed Rabie
Title:	Lecturer of Pharmacology & Toxicology, Faculty of Pharmacy, Cairo University
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H-index: 4	

Education:

- **Academic Degrees**

PhD

Pharmacology and Toxicology/ The possible modulatory role of an angiotensin metabolite in a Parkinson model in rats, 2018, Cairo University

Master

Pharmacology and Toxicology/ Pharmacological study of certain antioxidants in liver ischemia-reperfusion model in rats, 2015, Cairo University.

Bachelor

Bachelor of Pharmaceutical Sciences/ 2011, Faculty of Pharmacy, Cairo University

- **Research interest**

Molecular Neuropharmacology, Clinical Toxicology, Signal transduction pathways, Neuroscience, Inflammation, Pharmacovigilance and Gastrointestinal system

• Techniques

1. Western blotting technique for measurement of protein expressions in Faculty of Medicine, Cairo University under supervision of Prof. Dr. Laila Rashad, Professor of Biochemistry, Faculty of Medicine, Cairo University.
2. Real time Polymerase Chain Reaction technique (RT-PCR) for assessment of gene expressions using Taqman assay in Faculty of Medicine, Cairo University under supervision of Prof. Dr. Laila Rashad, Professor of Biochemistry, Faculty of Medicine, Cairo University.
3. Induction of Parkinson's disease by performing Stereotaxic operation in Faculty of Pharmacy, Cairo University under supervision of Prof. Dr. Noha N Nassar, Professor of Pharmacology and Toxicology, Faculty of Pharmacy, Cairo University.
4. Induction of Liver toxicity in rats using Liver ischemia reperfusion under supervision of Prof. Dr. Helmy Moawad, Professor of Pharmacology and Toxicology, Faculty of Pharmacy, Cairo University.

• Programs

1. Graph Pad Prism analysis program for biostatistics analysis, scientific graphing and curve fitting.
2. Reference manager software to handle references and full-text documents, and citations while writing thesis and articles.
3. Mendeley program to handle and share references as well full-text documents, and citations while writing thesis and articles.

Teaching Courses:

	Course Title
Undergraduate Courses (General Program)	<i>303 Pharmacology I</i> <i>304 Pharmacology II</i> <i>305 Pharmacology III</i> <i>306 Biostatistics and Biological Standardization of Drugs</i> <i>307 Toxicology and Forensic Chemistry</i>
Undergraduate Courses (Clinical Program)	PO 701 Pharmacology I PO 802 Pharmacology II PO 904 Toxicology and Forensic Chemistry PO 905 Therapeutics-1 PO 906 Clinical Pharmacology PO 007 Therapeutics-2
Postgraduate Courses	Experimental Pharmacology (Master) Pharmacovigilance Diploma (Pharmacotherapy-Drug Induced adverse Effect – Pharmacovigilance Courses) Clinical Toxicology Diploma (Risk Assessment Course) Quality Control & Quality Assurance Diploma (Bioanalysis of Hormones)

Career History and Professional Experience

<p>Titles</p>	<ul style="list-style-type: none"> • Lecturer of Pharmacology and Toxicology, Faculty of Pharmacy, Cairo University – May 2018 till present. • Assistant Vice Dean for Graduates and Research Affairs, Faculty of Pharmacy, Cairo University – September 2018 till September 2019. • Part-time Lecturer at British University in Egypt (BUE), Department of Pharmacology & Toxicology, 2020/2021 & 2021/2022 (Pharmacology-1, Pharmacology-3 & Biological Screening). • Part-time Lecturer at Misr International University (MIU), Department of Pharmacology & Toxicology, 2018/2019, 2019/2020 & 2021/2022 (Pharmacology-3). • Part-time Lecturer at Future University in Egypt (FUE), Department of Pharmacology, Toxicology & Biochemistry, 2018/2019- (Pharmaceutical Biostatistics, Medical Terminology, Biostatistics, Clinical Pharmacology & Pharmacology-3), 2019/2020 (Pharmacology-3, Clinical Pharmacology & Drug Abuse) & 2020/2021 (Pharmacology-1 & Clinical Toxicology). • Assistant Lecturer of Pharmacology & Toxicology, Faculty Of pharmacy, Cairo University - May 2015- April 2018. • Demonstrator of Pharmacology and Toxicology, Faculty of Pharmacy, Cairo University – February 2012 till April 2015 • General Coordinator of Continuous Pharmacy Education Center “CPEC “- May 2012 till present. • Participant in organizing and monitoring of the qualifying program of the American Board of Pharmacy specialties (BPS) in “Pharmacotherapy”- October 2012 till present. • Instructor in the qualifying program of the American Board of Pharmacy specialties (BPS) in “Pharmacotherapy” –September
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	<p>2014 till present.</p> <ul style="list-style-type: none"> • Member of academic advisory committee at Faculty of Pharmacy, Cairo University- January 2015 till June 2019. • Member of Device Committee at department of Pharmacology and Toxicology, Faculty of Pharmacy, Cairo University – May 2012 till now.
Projects	<ul style="list-style-type: none"> • Participant in the Erasmus project entitled “IT-based international diploma and professional certificate in clinical toxicology”-ITCT (2015). • Participant in ASRT JESOR research grant project entitled “To Determine the Capability of the Cardioprotective Cyclocreatine Phosphate to Reduce the Progression of Myocardial Infarction to Heart Failure in the Standard ISO Rat Model (2018).

Publications and Presentations

"Nourin-Associated miRNAs: Novel Inflammatory Monitoring Markers for Cyclocreatine Phosphate Therapy in Heart Failure" published at **International journal of Molecular Sciences**, 2021 Mar; 30; 22(7):3575

"Cyclocreatine phosphate: A Novel Mechanism for Preventing Development of Heart Failure" published at **American Heart Association**, USA, 2020

"Vildagliptin Attenuates Huntington’s Disease through Activation of GLP-1 Receptor/PI3K/Akt/BDNF Pathway in 3-Nitropropionic Acid Rat Model" published at **Neurotherapeutics**, 2020 Jan; 17(1):252-268.

"Correlation between angiotensin 1–7-mediated Mas receptor expression with motor improvement, activated STAT3/SOCS3 cascade, and suppressedHMGB-1/RAGE/NF-κB signaling in 6-hydroxydopamine hemiparkinsonian rats "published at **Biochemical Pharmacology** 2020 Jan; 171:113681.

"Telluric acid ameliorates hepatic ischemia reperfusion-induced injury in rats: Involvement of TLR4, Nrf2, and PI3K/Akt signaling pathways "published at **Biochemical Pharmacology** 168 (2019):404-411, **August 2019**.

"The Mas receptor as a future perspective in Parkinson’s disease "published at **Journal of Neurology & Neuromedicine** 3(4): 65-68, **August 2018**.

"Neurorestorative role of intrastriatal angiotensin 1-7 in 6-hydroxydopamine hemiparkinsonism by dual angiotensin 1-7/MASR axis activation and HMGB-1/RAGE signaling inhibition "published at **World Congress of Pharmacology**, Kyoto, Japan, **July 2018**.

"Angiotensin 1-7 ameliorates 6-hydroxydopamine lesions in hemiparkinsonian rats through activation of MAS receptor/PI3K/Akt/BDNF pathway and inhibition of angiotensin II type-1 receptor/NF-κB axis "published at **Biochemical Pharmacology** 151 (2018) 126–134, **February 2018**.

"Protective effect of Trimetazidine, Sodium selenite and Telluric acid in liver ischemia –reperfusion injury in rats "published at The **5th International Scientific Conference** of Faculty of Pharmacy, Cairo University, **April 2015**

Peer Reviewed- Journal Articles

2019	Medical Science Monitor	The Effect of Lidocaine on TRPM 2,6,7 and 8 Channels in Liver Ischemia / Reperfusion Model in Rats
	European Journal of Pain	Dexmedetomidine alleviates neuropathic pain in CCI rats by inhibiting HMGB1-mediated TLR4/NF-κB and PI3K/Akt/mTOR signaling pathways
	International Immunopharmacology	Anti-inflammatory and antioxidant effect of Eucommia ulmoides polysaccharide in hepatic ischemia reperfusion injury by reducing ROS release and inhibiting the TLR-4-NF-κB pathway in rats

2020	Biochemical Pharmacology	The Bcr-Abl inhibitor GNF-7 inhibits necroptosis and ameliorates acute kidney injury by targeting RIPK1 and RIPK3 kinases
	Future journal of Pharmaceutical Sciences	Cognitive enhancing and antioxidant activities of Sargassum ilicifolium and Padina tetrastratica in scopolamine treated mice
	Therapeutic Advances in Chronic Disease	“Extracellular HMGB-1 Activates Inflammatory Signaling in Tendon Cells and Tissues
	Future journal of Pharmaceutical Sciences	Evaluation of Cardioprotection and Bio-efficacy Enhancement of Stevioside and Diltiazem in Rats
	Naunyn-Schmiedeberg's Archives of Pharmacology	Piceatannol exhibited neurogenic effect through attenuation of JNK3 and Bcl-2/Cytc/Caspase dependent apoptosis pathways- In vitro cell line studies
	Biochemical Pharmacology	Metformin protects against neuroinflammation through integrated mechanisms of miR-141 and the NF-κB-mediated inflammasome pathway in a diabetic mouse model
	Future journal of Pharmaceutical Sciences	Chemopreventive potential of plant-derived epigenetic inhibitors silibinin and quercetin: An involvement of apoptotic signaling cascade modulation
	Future journal of Pharmaceutical Sciences	Metformin and asarone inhibit HepG2 cell proliferation in a high glucose environment by regulating AMPK and Akt signaling pathway
2021	Future journal of Pharmaceutical Sciences	Single Dose of Datumetine Exposure Preferentially Upregulates NMDAR Signalling Pathways in Different Brain Regions of Mice
	Naunyn-Schmiedeberg's Archives of Pharmacology	The effects of PI3K/Akt/mTOR Signaling Pathway Inhibitors on Immune Evasion Mechanisms of Acute Myeloid Leukemia Cell Line

	Future journal of Pharmaceutical Sciences	Alzheimer's Disease and their Prevention by Antioxidants
2021	Molecular Neurobiology	Metabolomics-driven identification of biochemical mechanisms underlying the neuroprotective effects of pleiotrophin in a mouse model of Parkinson's disease
	Biochemical Pharmacology	A Brief History on the Hypotheses of Alzheimer's Disease Keeping Special Focus on Inflammasomes as the Key Players of Neuroinflammation

Awards

- Best research manuscript in the faculty of Pharmacy, Cairo University 2020 and best research in the Pharmacology department 2020
- Cairo university prizes in scientific publishing from 2018-2020 – Cairo University

Attended Conferences:

- The 9th scientific conference of Faculty of Pharmacy Cairo University, 2018
- The 8th scientific conference of Faculty of Pharmacy Cairo University, April 2017
- NPIS CPD Conference at Newcastle University, October 2017.
- The 5th scientific conference of Faculty of Pharmacy Cairo University, 2014.
- The 4th scientific conference of Faculty of Pharmacy Cairo University, 2013.

Courses & workshops:

- Workshop about “Critical Thinking” by faculty and leadership center at Cairo University” FLDC”, 2021
- Workshop about “Blended learning” by faculty and leadership center at Cairo University” FLDC”, 2021
- Workshop about “Statistical analysis in Bio-Experiments” by faculty and leadership center at Cairo University” FLDC”, 2020

- Workshop about “Research Ethics” by faculty and leadership center at Cairo University” FLDC”, 2019
- Workshop about “Stress Management” by faculty and leadership center at Cairo University” FLDC”, 2018
- Workshop about “Essentials of Pharmacovigilance Practice: An Overview”, 2018
- Workshop about “University Management” by faculty and leadership center at Cairo University” FLDC”, 2017.
- Workshop about “Creative Thinking” by faculty and leadership center at Cairo University” FLDC”, 2016
- Workshop about “Effective Teaching Skills” by faculty and leadership center at Cairo University” FLDC”, 2016
- Workshop about “Strategic Planning” by faculty and leadership center at Cairo University” FLDC”, 2016
- Workshop about “Exams and Students Evaluation System” by faculty and leadership center at Cairo University” FLDC”, 2015
- Workshop about “International Publishing of Scientific Research” by faculty and leadership center at Cairo University” FLDC”, 2015
- Workshop about Interactive Lectures by DAAD, 2014.
- Workshop about Understanding Learning Processes by DAAD, 2014
- Workshop about Interactive Lectures by DAAD, 2014
- Workshop about “Legal and Financial Aspects in University Environment” by faculty and leadership center at Cairo University” FLDC”, 2014
- Workshop about “University Code of Ethics” by faculty and leadership center at Cairo University” FLDC”, 2016
- Workshop about How to present scientific data by DAAD, 2014
- Workshop about Self-Marketing by DAAD, 2014
- Workshop about “Conference Organization” by faculty and leadership center at Cairo University” FLDC”, 2013
- Workshop about “Use Technology in Teaching” by faculty and leadership center at Cairo University” FLDC”, 2013

- Workshop about “Competing for Research Funds” by faculty and leadership center at Cairo University” FLDC”, 2012
- Workshop about “The Credit Hour Systems” by faculty and leadership center at Cairo University” FLDC”, 2012.
- Workshop about “Advance Training Program in Communication Skills and Consumer Behavior”
- ICDL Holder (Windows, Word, Excel, IT, Access, Power point And Net), 2010

Training internship:

Summer training

- Two Weeks Training at “GSK Company” (Ceph’s), 2010.
- One month training at “Care pharmacy”, 2010
- Two Weeks Training at “GSK Company” (QC), 2009
- One month Training at “Amoun Pharmaceutical Company” (Production, QC and QA), 2009.
- Two month training at “Care Pharmacy” , 2008
- One month training at “Memphis Pharmaceutical and Chemical industries” (Production, QC and QA) , 2008
- One Weeks training at “El-Qahera Pharmaceutical and Chemical industries” (Production, QC and QA), 2008
- One Week training at “ADCO” (Production, QC and QA) , 2007
- One month training at “Care pharmacy”, 2007