

## Reham Hassan Mekky, Ph.D.

Department of Pharmacognosy  
 Faculty of Pharmacy, Egyptian Russian University  
 URL: <https://scholar.google.com/eg/citations?user=7F-P6OUAAAAJ&hl=en&oi=ao>  
[https://www.researchgate.net/profile/Reham\\_Mekky](https://www.researchgate.net/profile/Reham_Mekky)  
<https://www.linkedin.com/in/reham-mekky-3b867a75/>  
 ORCID ID: 0000-0001-5613-5666  
 Scopus Author ID: 56523133100  
 Web of Science Researcher ID: [Z-6103-2019](#)



### 1. Personal Information

**First Name / Sure Name:** Reham Hassan Mekky

**Nationality:** Egyptian

**E-mail:** [reham-mekky@eru.edu.eg](mailto:reham-mekky@eru.edu.eg), [reham.hassan@gmail.com](mailto:reham.hassan@gmail.com)

### 2. Education

Degree	Organization Providing Education	Principle Subject	Dates	
			From	To
Ph.D.	Faculty of Pharmacy, <b>Cairo University</b> , Egypt. Faculty of Sciences and Center of research and development of functional foods; Centro de Investigación y Desarrollo del Alimento Funcional (CIDAF), <b>University of Granada, Spain via Erasmus Mundus - Al Idrisi II</b> , a scholarship scheme for exchange and cooperation between Europe and North Africa for Doctorate Students, between Cairo University, Egypt and University of Granada, Spain, 2014-2015.	Pharmacognosy	Sept. 2013	Jan. 2016
Thesis Title: "A Comparative Phytochemical and Biological Studies on Certain Egyptian Varieties of <i>Cicer arietinum</i> Linn., Family Fabaceae"				
M.Sc.	Faculty of Pharmacy, Ain Shams University	Pharmacognosy	Sept. 2008	Dec. 2011
Thesis Title: "Phytochemical & Biological Investigation of Certain Species Belonging to Genus <i>Cuphea</i> Family Lythraceae"				
B.Sc.	Faculty of Pharmacy, Ain Shams University with general grade Excellence with Honor.	Pharmacy	Sept. 2002	Jul. 2007

### 3. Teaching and Professional Experience

Occupation	Employer	Main Activities & Responsibilities	Dates	
			From	To
Lecturer of Pharmacognosy	Pharmacognosy Department, Faculty of Pharmacy, ERU	Teaching lectures and participating in writing theoretical notes of: <ul style="list-style-type: none"> <li>• Botany and medicinal plants</li> <li>• Pharmacognosy I, II &amp; III.</li> <li>• Phytochemistry I &amp; II.</li> <li>• Phytotherapy</li> <li>• Quality Assurance of Herbal Medicine.</li> </ul> Grading of exams in department and faculty central control.	Jan. 2016	Till present
	Quality Assurance Unit, Faculty of Pharmacy, ERU	Participation in writing the faculty self-study according to NARS, NAQAAE; "Self Evaluation and Management of Quality Standard"	Jun. 2013	Till Dec 2017
		Chairperson of the Dealing with Beneficiaries Committee	Oct 2019	Till present
Visiting Doctorate Student	CIDAF (Centro de Investigación y Desarrollo del Alimento Funcional, Center of research and development of functional foods), the University of Granada, Granada, Spain.	1. Analysis of plant extracts byUPLC-DAD-QTOF-MS/MS. 2. Characterization of plant metabolites by data analysis softwares. Determination of the antioxidant activity of plant extracts using spectrophotometric procedures.	Feb. 2014	Mar. 2015
Assistant Lecturer	Pharmacognosy Department, Faculty of Pharmacy, ERU	Teaching and preparing the practical courses and notes of the department.	Jan. 2012	Dec. 2016
Teaching Assistant	Pharmacognosy Department, Faculty of Pharmacy, ERU	Teaching and preparing the practical courses and notes of the department.	Sept. 2007	Dec. 2011
Community Pharmacist	Al-gawhara Pharmacy, Nasr City.	Patient counseling and dispensing prescriptions	Jul. 2007	Jan. 2011

#### 4. Research activities

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##### **a) Publications:**

1. Abdel-Sattar, E., Mahrous, E. A., Thabet, M. M., Elnaggar, D. M. Y., Youssef, A. M., Elhawary, R., Zaitone, S. A., Celia Rodríguez, P., Segura-Carretero, A., & **Mekky, R. H.** (2020). Methanolic extracts of a selected Egyptian *Vicia faba* cultivar mitigate the oxidative/inflammatory burden and afford neuroprotection in a mouse model of Parkinson's disease. *Inflammopharmacology*. doi:10.1007/s10787-020-00768-6
2. **Mekky RH**, Thabet MM, Rodríguez-Pérez C, Elnaggar DMY, Mahrous EA, Segura-Carretero A, Abdel-Sattar E. Comparative metabolite profiling and antioxidant potentials of seeds and sprouts of three Egyptian cultivars of *Vicia faba* L. *Food Research International*. 2020:109537.
3. Baky MH, Gabr NM, Shawky EM, Elgindi MR, **Mekky RH**. A Rare Triterpenoidal Saponin Isolated and Identified from *Tetraena simplex* (L.) Beier & Thulin (Syn. *Zygophyllum simplex* L.). *ChemistrySelect*. 2020;5(6):1907-11.
4. **Mekky RH**, Abdel-Sattar E, Segura-Carretero A, Contreras MdM. Phenolic Compounds from Sesame Cake and Antioxidant Activity: A New Insight for Agri-Food Residues' Significance for Sustainable Development. *Foods*. 2019;8(10):432.
5. Shawky EM, Gabr NM, Elgindi MR, **Mekky RH**. A Comprehensive Review on Genus *Zygophyllum*. *Journal of Advanced Pharmacy Research*. 2019;3(1):1-16.
6. **Mekky RH**, del Mar Contreras M, Segura-Carretero A, Abdel-Sattar E. Metabolic profiling of the cake of the Egyptian cultivar of sesame 'Giza 32' and antioxidant activity: a new insight for agro-industrial by-products utilization for sustainable development. 1st Conference on Sustainable Development in Pharmaceutical Sciences; Egypt: Faculty of Pharmacy and Drug Technology, Heliopolis University.; 2018.
7. Shawky EM, Gabr NM, Elgindi MR, **Mekky RH**. Genus *Zygophyllum*: a Comprehensive Review. 2nd International Pharma Conference "Pharmaceutical research: challenges and opportunities"; Egypt: Faculty of Pharmacy, Helwan University; 2018.
8. Abouzed TK, Contreras MdM, Sadek KM, Shukry M, H. Abdelhady D, Gouda WM, Abdo W, Nasr NE, **Mekky RH**, Segura-Carretero A, Kahilo KA-A, Abdel-Sattar E. Red onion scales ameliorated streptozotocin-induced diabetes and diabetic nephropathy in Wistar rats in relation to their metabolite fingerprint. *Diabetes Research and Clinical Practice*. 2018;140:253-64.
9. **Mekky RH**, Fayed MR, El-Gindi MR, Abdel-Monem AR, del Mar Contreras M, Segura-Carretero A, Abdel-Sattar E. *Cicer arietinum* L. cultivar Giza 1

- ameliorates carbon tetrachloride nephrotoxicity in Wistar rats. 8th International Scientific Conference; "Pharmacy in Egypt: Ensuring Access to Health" Egypt: Faculty of Pharmacy, Cairo University; 2017.
10. **Mekky RH**, Fayed MR, El-Gindi MR, Abdel-Monem AR, del Mar Contreras M, Segura-Carretero A, Abdel-Sattar E. Hepatoprotective Effect and Chemical Assessment of a Selected Egyptian Chickpea Cultivar. *Frontiers in Pharmacology*. 2016;7:1-9.
  11. **Mekky RH**, El-Gindi MR, Abdel-Monem AR, del Mar Contreras M, Segura-Carretero A, Fayed MR, Abdel-Sattar E. Biological Assessment of Selected Egyptian Chick Pea Cultivar. *International Conference on Medical, Biological and Pharmaceutical Sciences (ICMBPS)*; 2016: International Academy of Science, Technology, Engineering and Management, Bangkok, Thailand.
  12. **Mekky RH**, del Mar Contreras M, El-Gindi MR, Abdel-Monem AR, Abdel-Sattar E, Segura-Carretero A. Profiling of phenolic and other compounds from Egyptian cultivars of chickpea (*Cicer arietinum* L.) and antioxidant activity: a comparative study. *RSC Advances*. 2015;5(23):17751-67.
  13. Elgindi M, Ayoub N, Milad R, **Mekky R**. Antioxidant and Cytotoxic Activities of *Cuphea hyssopifolia* Kunth (Lythraceae) Cultivated in Egypt. *Journal of Pharmacognosy and Phytochemistry*. 2012;1(4):67-77.
  14. Elgindi M, Ayoub N, Milad R, **Hassan R**. A comprehensive review of *Cuphea* (Lythraceae). *Res J Pharm Biol Chem Sci*. 2011;2:847-55.
  15. Ayoub N, El-Gindi MR, Milad R, **Mekky RH**. DNA Profile, Antioxidant and Cytotoxic Activities of *Cuphea hyssopifolia* Kunth (Lythraceae). *International Conference of Pharmaceutical and Drug Industries Division, National Research Center, Cairo, Egypt*; 2011.

#### **b) Peer review activities:**

A reviewer in

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1. Phytomedicine Journal
  2. Natural Product Research Journal
  3. PLOS One Journal
  4. Journal of Advance Pharmacy Research
  5. Combinatorial Chemistry & High Throughput Screening
  6. Journal of Nutrition & Food Science
  7. Journal of Hypertension and Management
  8. African Journal of Urology.
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#### **5.Thesis Supervision:**

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M.Sc. thesis of Enas Mohamed Shawky, Teaching assistant at Faculty of Pharmacy, Egyptian Russian University, and student at Faculty of Pharmacy, Helwan University.

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Thesis title “Phytochemical & Biological Study on a plant of Genus *Zygophyllum* Family Zygophyllaceae”

## **6. Professional & Technical Skills**

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- Metabolomics; characterization of **plant matrixes&/or by-products** metabolites *via* the use of hyphenated techniques as LC coupled with QTOF-MS/MS.
- Determination of the antioxidant activities of plant extracts by spectrophotometric methods.
- Assaying the biological activities of plant extracts (*in vivo and in vitro*)
- Isolation and structural elucidation of natural bioactive compounds from natural extracts with the aid of chromatographic as well as spectroscopic techniques.
- DNA profiling of herbal drugs via RAPD-PCR (Random Amplified Polymorphic DNA) technique.
- Applying action learning method and interactive teaching.
- Supervising students' group projects.
- Grading of results *via* computer-based grading systems.

## **7. Computer Skills**

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Editing softwares:

- Microsoft Windows (7, 8.1 & 10, Redmond, WA, USA).
- Microsoft Office 2016 (Redmond, WA, USA).
- Microsoft Visio Drawing 2013 (Redmond, WA, USA).
- ChemBioDraw 14 (Cambridgesoft Corporation, PerkinElmer, Inc., Spokane, WA, USA).
- Endnote X9 (Clarivate Analytics, Philadelphia, USA).
- TexStudio 2.12.4 for creating LaTeX documents.

Metabolomics data analysis and statistics softwares:

- MassHunter Qualitative Analysis B.06.00 (Agilent technologies, Santa Clara, CA, USA).
- Xcalibur 2.2 SP1, (ThermoFisher, Waltham, MA, USA).
- Data Analysis 4.0 software (Bruker Daltonics, Bremen, Germany).
- MassLynx 4.1 software (Waters, Manchester, UK).
- IBM SPSS Statistics 22 (Armonk, NY, USA).

Searching *via* different search engines and databases (Egyptian Knowledge Bank, Google Scholar, SciFinder Scholar, Reaxys, MassBank, METLIN Metabolite Database, Phenol-Explorer and KNApSAcK Core System).

## **8. Language Skills:**

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- Arabic (native tongue).
- English (Excellent, spoken and written).

- Spanish (good).
- German (fair).

## 9. Certifications

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- Internet Based TOEFL (iBT, ETS Princeton, NJ Jersey, USA); score: 96/120.
- GRE revised General Test (ETS Princeton, NJ Jersey, USA); scores: verbal reasoning 143/170 & quantitative reasoning 154/170.
- International Computer Driving License (ICDL); certified from UNISCO.
- Curso de Español Como Lengua Extranjera (60 Horas) Nivel Intermedio Bajo A2+, Centro de Lenguas Modernas, Universidad de Granada.
- Passing 4 levels of German with grade “A”, the Ministry of Defence Language Institute (MODLI), Cairo, Egypt.

## 10. Conferences

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Conferences	Professional Conference Organizer	Presenter	Attendee	Organizer
The 1st Conference on Sustainable Development in Pharmaceutical Sciences.	Faculty of Pharmacy and Drug Technology, Heliopolis University.: Egypt,	√		
The 2 <sup>nd</sup> International Pharma Conference "Pharmaceutical research: challenges and opportunities",	Faculty of Pharmacy, Helwan University, Cairo, Egypt	√		
The 8 <sup>th</sup> International Scientific Conference "Pharmacy in Egypt: Ensuring Access to Health", 2017	Faculty of Pharmacy, Cairo University, Egypt	√		
The 16 <sup>th</sup> International Conference on Medical, Biological and Pharmaceutical Sciences (ICMBPS), 2016	The international Academy of Science, Technology, Engineering and Management, Thailand	√		
"LC-MS Clinical Applications" LC-MS/MS in Laboratory Medicine & Drug Therapeutic Monitoring, 2015	Fundación MEDINA, Regional Government of Andalusia, Merck Sharp & Dohme de España S.A. (MSD) & University of Granada, Spain.		√	
"Marco Legislativo y	Telstar Life Science		√	

Sistema básico de Ensayos Clínicos para Alimentos Functionale”, 2014	Solutions, Spain			
The 5 <sup>th</sup> International Conference of Pharmaceutical and Drug Industries, 2011	National Research Center, Cairo, Egypt	√		
The Student Conferences On Pharmaceutical Studies, SCOPS,	Faculty of Pharmacy, Ain Shams University	√ 2006	√ 2007	√ 2006
The Nano Scientific Conference	Masrelhadara Club Faculty of Pharmacy, Ain Shams University	√ 2004		√ 2006
Biopharmaceutical Drugs Symposium, 2005	EPSF-Cairo University		√	

## 11. Workshops

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Workshops	Providing Organization	Date
“Self-Evaluation for Higher Education Faculties and Institutes”	National Authority for Quality Assurance and Accreditation of Education, NAQAAE	Jul. 2017
“Education Programs and Courses Specifications and Evaluation of Learning Outcomes for Higher Education Institutes”	National Authority for Quality Assurance and Accreditation of Education, NAQAAE	Jul. 2017
“Strategic Planning for Higher Education Institutes”	National Authority for Quality Assurance and Accreditation of Education, NAQAAE	Jul. 2017
“External Review for Higher Education Institutes”	National Authority for Quality Assurance and Accreditation of Education, NAQAAE	Aug. 2017

## 12. Summer Training

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Training	Providing Organization	Date
Quality Control Unit& Production Department	Egyptian International Pharmaceutical Industries Co., E.I.P.I.Co.	Aug. 2006
Hot Lab & Waste Management Center	The Egyptian Atomic Energy Authority Inshas	Jul. 2006
Nuclear Medicine Unit	The National Cancer Institute	Aug. 2005

Research & Development Department Validation Unit Production Department	GlaxoSmithKline, GSK, Pharmaceutical Company	Jul. 2005
Pharmacology Department	The National Organization for Drug Control And Research, NODCAR	Jun. 2005
Quality Control, Sales	Sanovi-Aventis Pharmaceutical Company	Aug. 2004
Providing pharmaceutical care to patients, patient counseling, dispensing prescriptions	Dr. Ahmed Shawky Pharmacy	Aug. 2003, 2006

### 13. Membership of Professional Associations

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- American Society of Pharmacognosy.
- Italo-Latin American Society of Ethnomedicine.; SILAE, (Società Italo-Latinoamericana di Etnomedicina).
- Egyptian Syndicate of Pharmacists.

### 14. Social Activities

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#### Egyptian Russian University:

- Zoom Club, Co-founder and Supervisor.
- EPSF-ERU, Co-founder.

#### Ain Shams University:

- Student Union, Vice Head of Families & Clubs Committee, 2005-200.
- The 1<sup>st</sup> Student Conference On Pharmaceutical Studies, SCOPS 2006:  
Moderator in the Academic Committee: presenting sessions, editing newspapers, organizing awareness campaigns (Nuclear Pharmacy Development Workshop).
- Member in EPSF-ASU.
- Masrelhadara Club: President 2004-2007, organizing orphans days, blood donation campaigns, welcome parties for preparatory pharmacy students, cultural & scientific competitions
- Information & Technology Unit of the faculty: Moderator in the official faculty forum.

### 15. Awards

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1. Best poster prize in the 1<sup>st</sup> Conference on Sustainable Development in Pharmaceutical Sciences, Faculty of Pharmacy and Drug Technology, Heliopolis University, Cairo, Egypt.
2. **Erasmus Mundus - Al Idrisi II**, A scholarship scheme for exchange and cooperation between Europe and North Africa for Doctorate Students, Short term mobility between Cairo University, Egypt, and University of Granada, Spain,



- 2014-2015.
3. The Ideal Student of University Award, Ain Shams University, 2006-2007.
  4. The Ideal Student of College Award, Faculty of Pharmacy Ain Shams University, 2005 - 2006, 2006 – 2007.
  5. Award of Excellence, Ain Shams University, awarded due to the student ranking during 2002- 2007.
  6. The Ideal Member, Masrelhadara Club .2004-2005
  7. The 2<sup>nd</sup> rank in the National Olympics of Chemistry for Egyptian High School Students 2001.