

## CURRICULUM VITAE

### Mohamed Shawky

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### Education

Year	Faculty/University	Degree	Specialty
2018	Faculty of Pharmacy, Zagazig University	Ph.D. in Pharmaceutical Sciences	Biochemistry
2012	Faculty of Pharmacy, Zagazig University	M.Sc. in Pharmaceutical Sciences	Biochemistry
2007	Faculty of Pharmacy, Zagazig University	B.Sc. of Pharmaceutical Sciences	Pharmaceutical Sciences

### Publications:

1. Nicole Oska; Ahmed Ibrahim; **Mohamed Shawky**; Diego Galarza Ramirez; Shaimaa Eltanani; Thangal Yumnamcha, Relative Contribution of Different Upper Glycolytic Components in the Maintenance of the Retinal Vascular Endothelial Cell Barrier. Investigative Ophthalmology & Visual Science (2023).
2. Andrew Gregory, Shaimaa Eltanani, Thangal Yumnamcha, **Mohamed Shawky**, Bing Ross, Xihui Lin, Ahmed Ibrahim, Glycine is Dysregulated in Human Retinal Endothelial Cells and Proliferative Diabetic Retinopathy. MSRS, 260 (2023).
3. Shaimaa Eltanani, Thangal Yumnamcha, Andrew Gregory, Mahmoud Elshal, **Mohamed Shawky** and Ahmed S. Ibrahim, Relative Importance of Different Elements of Mitochondrial Oxidative Phosphorylation in Maintaining the Barrier Integrity of Retinal Endothelial Cells: Implications for Vascular-Associated Retinal Diseases. Cells (2022).
4. Gehad M. Elnagar, Mohamed M. Elseweidy, Yasmin K. Mahmoud, Nesreen M. I. M. Elkomy, Ziyad M. Althafar, Sultan F. Alnomasy, Naif A. Al-Gabri and **Mohamed Shawky**, 10-Dehydrogingerdione Attenuates Tramadol-Induced Nephrotoxicity by Modulating Renal Oxidative Stress, Inflammation and Apoptosis in Experimental Rats: Role of HO-1 Activation and TLR4/NF-kB/ERK Inhibition. Int. J. Mol. Sci. (2022).

5. Mohamed M Elseweidy and **Mohamed Shawky**, Residual Cardiovascular Risk, Attributed to Statins Escape Phenomenon and Policosanol Potential as Therapeutic Agent, Global Journal of Pharmacy & Pharmaceutical Sciences (2022).
6. Gehad M. Elnagar, Mohamed M. Elseweidy, Nesreen M. I. M. Elkomy, Naif A.Al-Gabri, **Mohamed Shawky**, 10-Dehydrogingerdione ameliorates renal endoplasmic reticulum/oxidative stress and apoptosis in alcoholic nephropathy induced in experimental rats. Life Sciences (2021).
7. Manar G. Helal, **Mohamed Shawky**, Shady Elhousseiny, Ahmed G. Abd Elhameed, Lactoferrin Ameliorates Azithromycin-induced Cardiac Injury: Insight into Oxidative Stress/TLR4 /NF-κB Pathway. Journal of Advanced Pharmacy Research (2021).
8. Mohamed M. Elseweidy, Mervat E. Askar, Sahar E. Elswefy and **Mohamed Shawky**, Therapeutic approach for Cisplatin induced nephrotoxicity, new focus on Stem Cells and Spironolactone. Applied Biochemistry & Biotechnology (2018).
9. Mohamed M. Elseweidy, Mervat E. Askar, Sahar E. Elswefy and **Mohamed Shawky**, Vanillin as a new modulator candidate for renal injury induced by Cisplatin in Experimental rats. Cytokine (2017).
10. Mohamed M. Elseweidy, **Mohamed S. Zaghoul** and Nahla N. Younis, 10DHGD ameliorates cisplatin-induced nephrotoxicity in rats. Biomedicine & pharmacotherapy 83 (2016), 241-246.
11. **Mohamed Shawky**, Mohamed M Elseweidy and Nahla N Younis, Mesenchymal stem cells and 10-dehydrogingerdione in cisplatin induced renal fibrosis: A potential therapeutic target. Journal of Stem Cell Research and Therapy (2016), 6:4 (Suppl).
12. Mohamed M. Elseweidy, Sahar E. Elswefy, Abd Elmoniem Ali and **Mohamed Shawky**. Renal injury induced in alloxan diabetic rats. Role of Mycophenolate Mofetil as therapeutic agent. Pathology - Research and Practice, 210 (2014), PP. 979-984.
13. Mohamed M. Elseweidy, Sahar E. Elswefy and **Mohamed Shawky**. Diabetic renal injury induced in experimental rats. Role of curcuminoids as probable therapeutic agent. Biomedical Engineering Research, Dec. 2013, Vol. 2 Iss. 4, PP. 175-181.

**14.** M.M. Elseweidy, S.E. Elswefy, N.N. Younis, and **M.S. Zaghloul**. Pyridoxamine, an inhibitor of protein glycation, in relation to microalbuminuria and proinflammatory cytokines in experimental diabetic nephropathy. *Experimental biology and medicine*, 2013. 238(8): p. 881-8.

### ***Academic Employment History***

<b>From:</b>	<b>To:</b>	<b>Faculty/University</b>	<b>Title of Position</b>
<b>June, 2018</b>	<b>Present</b>	Faculty of Pharmacy, Horus University - Egypt	Lecturer of Biochemistry
<b>September, 2017</b>	<b>May, 2018</b>	Faculty of Pharmacy, Horus University - Egypt	Assistant Lecturer of Biochemistry
<b>November, 2014</b>	<b>May, 2017</b>	Faculty of Pharmacy, University of Tabuk, Saudi Arabia	Lecturer of Biochemistry
<b>February, 2013</b>	<b>October, 2014</b>	Faculty of Pharmacy, Delta University for Science & Technology, Egypt	Assistant Lecturer of Biochemistry

### ***Administrative Positions:***

<b>From:</b>	<b>To:</b>	<b>Faculty/University</b>	<b>Title of Position</b>
<b>2015</b>	<b>May, 2017</b>	Faculty of Pharmacy, University of Tabuk, Saudi Arabia	Member in the Measurement & Evaluation Unit (MEU)
<b>September, 2013</b>	<b>September, 2014</b>	Delta University for Science & Technology, Egypt	Member in the University Council
<b>2013</b>	<b>October, 2014</b>	Faculty of Pharmacy, Delta University for Science & Technology, Egypt	Member in the Quality Assurance Unit

### ***Hands-on experience (laboratory skills)***

- Stem cells isolation, cultivation and characterization.
- Real time polymerase chain reaction (qRT-PCR).
- Microplate reader for ELISA assays.
- Reverse transcriptase polymerase chain reaction (RT-PCR).

- Gel electrophoresis for detection of proteins, RNA and DNA.
- Cryostat Microtome to obtain sections from different organs.
- Fluorescence spectrophotometer.
- UV-visible spectrophotometer.
- Immunohistochemistry, Hematoxylin & eosin (H&E) and Masson's trichrome (MT) staining.
- Fluorescence microscope for detection and identification of changes in immunohistochemistry slides.
- Flow cytometry technology to complete advanced cell sorting, cell counting and biomarker detection.
- ECIS technology for measuring the barrier integrity.

## ***Teaching Experience***

### **Horus University - Egypt:**

- Biochemistry I and II.
- Clinical Biochemistry.
- Biophysics.

### **University of Tabuk, Saudi Arabia:**

- Clinical Biochemistry.
- Pharmaceutical Biochemistry.

### **Delta University for Science & Technology, Egypt:**

- Biochemistry I (practical part).
- Biochemistry II (practical part).

## ***Personal Links***

- **Google Scholar Link:**

<https://scholar.google.com.eg/citations?user=2yLQqs4AAAAJ&hl=en>

## Conferences

1. Participated as a **speaker** in the 7<sup>th</sup> Scientific Conference held in Faculty of Pharmacy, Zagazig University, Egypt, April 15, 2018.
2. Participated by an **Abstract** in the 5<sup>th</sup> International Conference and Exhibition on Cell and Gene Therapy, May 19-21, 2016, San Antonio, USA.
3. Participated in the First Medical Education Exhibition, February 11-15, 2017, King Salman Military Hospital, Tabuk, Saudi Arabia.
4. Participated as a **speaker** in the 4th Scientific Conference held in Faculty of Pharmacy, Zagazig University, Egypt on March 27, 2014.
5. Participated as **attendee** the 1st Conference of Nanotechnology & Nanomedicine held in the scientific center, Faculty of Medicine, Zagazig University, Egypt, February 13, 2013.
6. Participated as a **speaker** in the 2<sup>nd</sup> Conference of Biochemistry Department, Faculty of Pharmacy, Zagazig University, Egypt in 2013.
7. Participated as a **speaker** in the 1<sup>st</sup> Conference of Biochemistry Department, Faculty of Pharmacy, Zagazig University, Egypt in 2012.
8. Attendance the Disaster Management Conference which held in September 12, 2005 in Faculty of Medicine, Zagazig University, Egypt.

## Languages

- Arabic: native language.
- English: Excellent.

## Courses & Training

1. Course of Isolation, Expansion, Characterization and Cryopreservation of Different Types of Stem Cells from Different Sources by Medical Experimental Research Center (MERC), Faculty of Medicine, Mansoura University.
2. Intensive training course of Real time PCR technology by Unit of Biotechnology and Pathological Markers, Faculty of Pharmacy, Zagazig University.
3. Technical services in the pharmacy and clinical pharmacy, Faculty of Pharmacy, Ain Shams University.

- 4.** First Aid and Disaster Response Course by Disaster Management Training Center, Faculty of Medicine, Zagazig University.
- 5.** ICDL License from UNISCO endorsed by Ministry of Communications and Information Technology in Egypt.
- 6.** Statistical analysis of research data using SPSS certificate organized by the Measurement & Evaluation Unit (MEU), University of Tabuk, Saudi Arabia.
- 7.** Course Item Banking and Test production using X-Pro Milestone organized by the Measurement & Evaluation Unit (MEU), University of Tabuk, Saudi Arabia.
- 8.** Information Awareness and the use of databases in the Saudi Digital Library, Deanship of Library Affairs, University of Tabuk, Saudi Arabia.
- 9.** Live streaming techniques in e-learning, Deanship of e-learning and distance education, University of Tabuk, Saudi Arabia.
- 10.** Ways to obtain funding for a scientific research, Deanship of Scientific Research, University of Tabuk, Saudi Arabia.
- 11.** The use of databases for the members of the Faculty of Medicine, Deanship of Library Affairs, University of Tabuk, Saudi Arabia.
- 12.** Evaluating the performance of the faculty member, the Measurement & Evaluation Unit (MEU), University of Tabuk, Saudi Arabia.
- 13.** Measurement and evaluation in universities between theory and practice, the Measurement & Evaluation Unit (MEU), University of Tabuk, Saudi Arabia.
- 14.** Workshop on Mechanisms of Quality Assurance, Vice Dean for Development and Quality, Faculty of Pharmacy, University of Tabuk, Saudi Arabia.
- 15.** Workshop on Self-report preparation for programs, Vice Dean for Development and Quality, Faculty of Pharmacy, University of Tabuk, Saudi Arabia.
- 16.** Workshop on Designing Learning Outcomes, Curriculum Development Committee, Faculty of Pharmacy, University of Tabuk, Saudi Arabia.
- 17.** Biological research ethics, National Committee for Bioethics, King Abdul-Aziz City for Science and Technology, Saudi Arabia.

18. Workshop on safety in chemical laboratories, Deanship of Scientific Research, University of Tabuk, Saudi Arabia.
19. E-learning management system and electronic tests, Deanship of e-learning and distance education, University of Tabuk, Saudi Arabia.
20. Training course on the use of UpToDate program for faculty members in pharmacy colleges, Saudi Digital Library, Deanship of Library Affairs, University of Tabuk, Saudi Arabia.

## **References**

### **Professor/ Mohamed Elseweidy:**

Professor of Biochemistry, Faculty of Pharmacy, Zagazig University, Zagazig, Egypt.

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### **Professor/ Mohamed Al -Gayyar:**

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### **Professor/ Mohamed Saleh:**

Professor of Pharmacology & Toxicology, Faculty of Pharmacy, Mansoura University, Mansoura, Egypt.

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### **Dr./ Mohamed Elmesery:**

Associate Professor of Biochemistry, Faculty of Pharmacy, Mansoura University, Mansoura, Egypt.

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