

CURRICULUM VITAE

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Personal Data:

- Date of birth: 13/07/1983
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- Home Address: 42 Shamal Sina Street, Zahraa El Maadi, Cairo, Egypt.
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Educational Degrees:

- **PhD degree in Pharmaceutical Sciences (Biochemistry)**, Faculty of Pharmacy, Cairo University (2014 - 2016).
Thesis title: “**MicroRNA expression as a predictor of the success of pegylated interferon-ribavirin therapy against chronic Hepatitis C in Egyptian Patients**”.
- **Master degree in Pharmaceutical Sciences (Biochemistry)**, Faculty of Pharmacy, Cairo University (2007 - 2013).
Thesis title: “**Effect of angiotensin-converting enzyme inhibition and angiotensin receptor blockade on diabetic rat kidney**”.
- **Bachelor Degree in Pharmaceutical Sciences**, Faculty of Pharmacy, Cairo University (May 2005) with an overall grade of “**Excellent with honors**” and ranked the **4th**.

Academic and Work Experience:

Full-time

- **Associate Professor and Head of Biochemistry Department, Faculty of Pharmacy and Drug Technology, Egyptian Chinese University** (September 2022 till now).
- Associate Professor of Biochemistry, Biochemistry Department, **Faculty of Pharmacy, Cairo University** (November 2021 to August 2022).

- Lecturer of Biochemistry, Biochemistry Department, **Faculty of Pharmacy, Cairo University** (September 2016 to October 2021).
- Assistant Lecturer of Biochemistry, Biochemistry Department, **Faculty of Pharmacy, Cairo University** (February 2014 to August 2016).
- Teaching Assistant of Biochemistry, Biochemistry Department, **Faculty of Pharmacy, Cairo University** (October 2005 to February 2014).

Part-time

- **Faculty of Pharmacy, Misr International University (MIU)** (Fall 2017/2018 to Summer 2021/2022).
- **Faculty of Pharmacy and Drug Technology, Egyptian Chinese University** (Spring 2021/2022).
- **Faculty of Pharmacy, Future University in Egypt** (Fall 2021/ 2022).
- **Faculty of Pharmacy, October 6 University** (Fall 2020/2021).
- **Faculty of Pharmacy, Heliopolis University for Sustainable Development** (Spring 2016/2017 to Spring 2020/2021).

Teaching:

1) Faculty of Pharmacy, Cairo University

Undergraduate

- **Course coordinator** of **Biochemistry-2** course for the third-year students of the General Program (Spring 2021/2022).
- A teaching member of **Biochemistry-1, Biochemistry-2, Clinical Biochemistry and Molecular Biology and Clinical Nutrition** courses for the students of the General Pharmacy Program (2016 - 2022).
- A teaching member of **Clinical Biochemistry and Clinical Nutrition** courses for the students of the Clinical Pharmacy Program (2016 -2022).

Postgraduate

- **Course coordinator** of **Clinical Nutrition** course for the postgraduate "Master" students (Biochemistry) (Spring 2021/2022).
- **Course coordinator** of **Laboratory Analysis** course for postgraduate Hospital Pharmacy Diploma students (2019 - 2022).
- A teaching member of **Lab Techniques** and **Clinical Nutrition** courses for the postgraduate "Master" students (Biochemistry) (2016 - 2022).
- A teaching member of **Nutrition in Cancer and Neurodegenerative Diseases** and **Nutrition in ICU** courses for the postgraduate **Clinical Nutrition Diploma** students (Fall 2020/2021).
- A teaching member of **Advanced Biochemistry, Chemical Pathology,** and **Clinical Nutrition** courses for the postgraduate Biochemistry Diploma students (2017 - 2021).

2) Faculty of Pharmacy and Drug Technology, Egyptian Chinese University:

- **Course coordinator** of **Biochemistry I** course for the second-year Pharm D students (Spring 2021/2022, 2022/2023).
- **Course coordinator** of **Biochemistry II** course for the third-year Pharm D students (Fall 2022/2023, 2023/2024).
- **Course coordinator** of **Cell Biology** course for the first-year Pharm D students (Spring 2022/2023).
- **Course coordinator** of **Clinical Biochemistry** course for the fourth-year Pharm D students (Fall 2023/2024).

3) Faculty of Pharmacy, Misr International University (MIU):

- A teaching member of **Biochemistry-1 and Biochemistry-2** courses for the second and third-year students (Spring 2017/2018 to Summer 2021/2022).
- **Course coordinator** of **Cell Biology** course for the first-year Pharm D clinical students (Spring 2021/2022).
- **Course coordinator** of **Clinical Nutrition** course for the fifth-year students (Fall 2017/2018 to Summer 2020/2021).
- **Course coordinator** of **Clinical Biochemistry** course for the fourth-year students (Summer 2018/2019, Summer 2021/2022).
- A teaching member of **Biology** course for the first-year students (Summer 2017/2018, Fall 2018/2019).

4) Faculty of Pharmacy, Future University:

- A teaching member of **Advanced Biochemistry, Chemical Pathology, and Biochemical Methods and Techniques** courses for the **postgraduate** Master students (Biochemistry) (Fall 2021/2022).

5) Faculty of Pharmacy, October 6 University:

- A teaching member of **Clinical Biochemistry** course for the fourth-year students (Fall 2020/2021).

6) Faculty of Pharmacy, Heliopolis University:

- A teaching member of **Clinical Biochemistry** course for the fourth-year students (Spring 2016/2017 to Spring 2020/2021).

Online Teaching

- Make interactive online sessions for undergraduate and postgraduate students using ZOOM, Blackboard, Microsoft teams, Google Meet and Big Blue Button.

Administrative and Faculty Activities:

- **Member of Egyptian Chinese University Ranking Office, November 2023.**
- **Assistant of the Vice Dean of Education and Student Affairs, Faculty of Pharmacy, Cairo University (2016 - 2021).**
- **Faculty coordinator of "Youth Care and Student Activities" at Cairo University (2018 - 2021).**
- **Member of "Precautionary Measures for COVID-19 Committee" (2019/2020).**
- **Academic Advisor for Clinical Pharmacy Program students, Faculty of Pharmacy, Cairo University (2016 - 2022).**
- **Academic Advisor for Pharm D students, Faculty of Pharmacy, Cairo University (2019 - 2022).**
- **Member of the "Academic Support Committee" for General Program students, Faculty of Pharmacy, Cairo University (2016 - 2020).**
- **Member of "Crisis and Disaster Committee" of the Faculty of Pharmacy, Cairo University (2016 - 2022).**
- **Member of the "Instruments Committee" and "Biochemistry Department Research Plan Committee" in Biochemistry Department, Faculty of Pharmacy, Cairo University (2016 - 2022).**
- **Participation in the duties of examination and Clinical Pharmacy Program Exam Control in Faculty of Pharmacy, Cairo University.**
- **Participation in the preparation of the annual report and the annual conference and processing of quality files for Biochemistry Department, Faculty of Pharmacy, Cairo University.**

Scientific Publications:

Published 30 international publications (Web of Science).

***h*-index (Scopus)= 14**

***i*10-index= 20**

Number of citations (Scopus)=503 (till November 2023)

1. Motawi TK, El-Maraghy SA, **Senousy MA**. Angiotensin-converting enzyme inhibition and angiotensin AT1 receptor blockade downregulate angiotensin-converting enzyme expression and attenuate renal injury in streptozotocin-induced diabetic rats. *J Biochem Mol Toxicol*. **2013** Jul;27(7):378-87.
2. Motawi TK, Shaker OG, El-Maraghy SA, **Senousy MA**. Serum MicroRNAs as Potential Biomarkers for Early Diagnosis of Hepatitis C Virus-Related Hepatocellular Carcinoma in Egyptian Patients. *PLoS One*. **2015** Sep 9;10(9):e0137706.

3. Motawi TK, Shaker OG, El-Maraghy SA, **Senousy MA**. Serum interferon-related microRNAs as biomarkers to predict the response to interferon therapy in chronic hepatitis C genotype 4. *PLoS One*. **2015** Mar 19;10(3):e0120794.
4. Shaker OG, **Senousy MA**. Serum microRNAs as predictors for liver fibrosis staging in hepatitis C virus-associated chronic liver disease patients. *J Viral Hepat*. **2017** Aug; 24(8):636-644.
5. Shaker OG, **Senousy MA**, Elbaz EM. Association of rs6983267 at 8q24, HULC rs7763881 polymorphisms and serum lncRNAs CCAT2 and HULC with colorectal cancer in Egyptian patients. *Sci Rep*. **2017** Nov 24;7(1):16246.
6. Elbaz EM, **Senousy MA**, El-Tanbouly DM, Sayed RH. Neuroprotective effect of linagliptin against cuprizone-induced demyelination and behavioural dysfunction in mice: A pivotal role of AMPK/SIRT1 and JAK2/STAT3/NF- κ B signalling pathway modulation. *Toxicol Appl Pharmacol*. **2018** Jun 1. pii: S0041-008X(18)30246-1.
7. Shaker OG, **Senousy MA**. Association of SNP-SNP Interactions Between RANKL, OPG, CHI3L1, and VDR Genes With Breast Cancer Risk in Egyptian Women. *Clin Breast Cancer*. **2019** Feb;19(1):e220-e238.
8. Saad MA, El-Sahar AE, Sayed RH, Elbaz EM, Helmy HS, **Senousy MA**. Venlafaxine Mitigates Depressive-Like Behavior in Ovariectomized Rats by Activating the EPO/EPOR/JAK2 Signaling Pathway and Increasing the Serum Estradiol Level. *Neurotherapeutics*. **2019** Apr;16(2):404-415.
9. **Senousy MA**, Helmy HS, Fathy N, Shaker OG, Ayeldeen GM. Association of MTMR3 rs12537 at miR-181a binding site with rheumatoid arthritis and systemic lupus erythematosus risk in Egyptian patients. *Sci Rep*. **2019** Aug 23;9(1):12299.
10. **Senousy MA**, El-Sahar AE, Sayed RH, Saad MA, Elbaz EM. Aberrations of miR-126-3p, miR-181a and sirtuin1 network mediate Di-(2-ethylhexyl) phthalate-induced testicular damage in rats: The protective role of hesperidin. Helmy HS, *Toxicology*. **2020** Mar 30;433-434:152406.
11. Abd-Elmawla MA, Hassan M, Elsabagh YA, Alnaggar ARLR, **Senousy MA**. Deregulation of long noncoding RNAs ANCR, TINCR, HOTTIP and SPRY4-IT1 in plasma of systemic sclerosis patients: SPRY4-IT1 as a novel biomarker of scleroderma and its subtypes. *Cytokine*. **2020** May 13;133:155124.
12. **Senousy MA**, Shaker OG, Sayed NH, Fathy N, Kortam MA. LncRNA GAS5 and miR-137 Polymorphisms and Expression are Associated with Multiple Sclerosis Risk: Mechanistic Insights and Potential Clinical Impact. *ACS Chem Neurosci*. **2020** Jun 3;11(11):1651-1660.
13. **Senousy MA**, El-Abd AM, Abdel-Malek RR, Rizk SM. Circulating long non-coding RNAs HOTAIR, Linc-p21, GAS5 and XIST expression profiles in diffuse large B-cell lymphoma: association with R-CHOP responsiveness. *Sci Rep*. **2021** Jan 22;11(1):2095.
14. Arab HH, Eid AH, Mahmoud AM, **Senousy MA**. Linagliptin mitigates experimental inflammatory bowel disease in rats by targeting inflammatory and redox signaling. *Life Sci*. **2021** May 15;273:119295.
15. Radwan AF, Shaker OG, El-Boghdady NA, **Senousy MA**. Association of MALAT1 and PVT1 Variants, Expression Profiles and Target miRNA-101 and miRNA-186 with Colorectal Cancer: Correlation with Epithelial-Mesenchymal Transition. *Int. J. Mol. Sci*. **2021**, 22(11): 6147.

16. Fathi D, Abulsoud AI, Saad MA, Nassar NN, Maksimos MM, Rizk SM, **Senousy MA**. Agomelatine attenuates alcohol craving and withdrawal symptoms by modulating the Notch1 signaling pathway in rats. *Life Sci*. **2021**; 284: 11904.
17. Motawi TK, Shaker OG, Hassanin SO, Ibrahim SG, **Senousy MA**. Genetic and epigenetic control on clock genes in multiple sclerosis. *J Genet Genomics*. **2022** Jan;49(1):74-76.
18. Abdelazim SA, Shaker OG, Aly YAH, **Senousy MA**. Uncovering serum placental-related non-coding RNAs as possible biomarkers of preeclampsia risk, onset and severity revealed MALAT-1, miR-363 and miR-17. *Sci Rep*. **2022** Jan 24;12(1):1249.
19. **Senousy MA**, Hanafy ME, Shehata N, Rizk SM. Erythropoietin and Bacillus Calmette-Guérin Vaccination Mitigate 3-Nitropropionic Acid-Induced Huntington-like Disease in Rats by Modulating the PI3K/Akt/mTOR/P70S6K Pathway and Enhancing the Autophagy. *ACS Chem Neurosci*. **2022** Mar 16;13(6):721-732.
20. Habib SA, Kamal MM, El-Maraghy SA, **Senousy MA**. Exendin-4 enhances osteogenic differentiation of adipose tissue mesenchymal stem cells through the receptor activator of nuclear factor-kappa B and osteoprotegerin signaling pathway. *J Cell Biochem*. **2022** May;123(5):906-920.21.
21. Motawi TK, Al-Kady RH, Abdelraouf SM, **Senousy MA**. Empagliflozin alleviates endoplasmic reticulum stress and augments autophagy in rotenone-induced Parkinson's disease in rats: Targeting the GRP78/PERK/eIF2 α /CHOP pathway and miR-211-5p. *Chem Biol Interact*. **2022** Aug 1;362:110002.
22. Motawi TK, El-Maraghy SA, Sabry D, Nady OM, **Senousy MA**. Cromolyn chitosan nanoparticles reverse the DNA methylation of RASSF1A and p16 genes and mitigate DNMT1 and METTL3 expression in breast cancer cell line and tumor xenograft model in mice. *Chem Biol Interact*. **2022** Sep 25;365:110094.
23. Taha M, Eldemerdash OM, Elshaffei IM, Yousef EM, **Senousy MA**. Dexmedetomidine Attenuates Methotrexate-Induced Neurotoxicity and Memory Deficits in Rats through Improving Hippocampal Neurogenesis: The Role of miR-15a/ROCK-1/ERK1/2/CREB/BDNF Pathway Modulation. *Int J Mol Sci*. **2023** Jan 1;24(1):766.
24. Elsayed OM, Abdelazim SA, Darwish HA, Shaker OG, **Senousy MA**. Association of LncRNA-PAX8-AS1 and LAIR-2 polymorphisms along with their expression with clinical and subclinical hypothyroidism. *Sci Rep*. **2023** Jan 2;13(1):6.
25. Motawi TK, Al-Kady RH, **Senousy MA**, Abdelraouf SM. Repaglinide Elicits a Neuroprotective Effect in Rotenone-Induced Parkinson's Disease in Rats: Emphasis on Targeting the DREAM-ER Stress BiP/ATF6/CHOP Trajectory and Activation of Mitophagy. *ACS Chem Neurosci*. **2023** Jan 4;14(1):180-194.
26. Abdelmaksoud NM, Abulsoud AI, Abdelghany TM, Elshaer SS, Rizk SM, **Senousy MA**. Mitochondrial remodeling in colorectal cancer initiation, progression, metastasis, and therapy: A review. *Pathol Res Pract*. **2023** Jun;246:154509.
27. Taha M, Eldemerdash OM, Elshaffei IM, Yousef EM, Soliman AS, **Senousy MA**. Apigenin Attenuates Hippocampal Microglial Activation and Restores Cognitive Function in Methotrexate-Treated Rats: Targeting the miR-15a/ROCK-1/ERK1/2 Pathway. *Mol Neurobiol*. **2023** Jul;60(7):3770-3787.

28. Selim AM, Elsabagh YA, El-Sawalhi MM, Ismail NA, **Senousy MA**. Association of integrin- β 2 polymorphism and expression with the risk of rheumatoid arthritis and osteoarthritis in Egyptian patients. BMC Med Genomics. 2023 Aug 29;16(1):204.

29. Taha M, Awny N, Ismail S, Ashaat EA, **Senousy MA**. Screening and evaluation of TBX20 and CITED2 mutations in children with congenital cardiac septal defects: Correlation with cardiac troponin T and caspase-3. Gene, 5 Oct 2023,882: 147660.

30. Abdelazim SA, Shaker OG, Ali O, El-Tawil M, **Senousy MA**. Differential expression of serum miR-486 and miR-25 in ulcerative colitis and Crohn's disease: Correlations with disease activity, extent, and location. Pathol Res Pract. 2023 Oct 27;252:154910. doi: 10.1016/j.prp.2023.154910. Epub ahead of print.

Master and PhD Thesis Supervision:

Total number of thesis supervision= 16.

Participating in supervision on **9 master students** and **7 PhD students** at the Biochemistry department, Faculty of Pharmacy, Cairo University.

Scientific Membership

- **Assistant member at Cancer Epigenetic Society (CES) from December 2017 (I.D.1470).**

Research Projects:

- 1- **Role of long non-coding RNAs Signature in colorectal cancer (Grant number 2017-181, funded by Cairo University 2019-2021, finished).**
- 2- **Towards early diagnosis, staging and prognosis of colorectal cancer in Egyptian patients: Epitranscriptomic analysis of N6-methyladenosine RNA methylation machinery using in vivo and in vitro models” (Grant number MFK22HS-08, funded by British University in Cairo, February 2023 to February 2024, in progress).**

Scientific Conferences:

1. Presented a **“Poster”** on the 3rd International Scientific Conference of Faculty of Pharmacy-Cairo University “Good Pharmacy Practice”, April 25th-26th, 2012 under the title of **“Possible Protective Mechanisms Against Renal Damage in STZ-Induced Diabetic Rats”, 2012.**
2. Attended the 5th International Scientific Conference of Faculty of Pharmacy-Cairo University “Pharmacy at the Cutting-edge: Facing Future Challenges”, April 23th-24th, **2014.**
3. Organized and actively participated in the 6th International Scientific Conference of Faculty of Pharmacy-Cairo University “2020 Vision of Pharmacy in Egypt“, April 25th-26th, **2015.**
4. Organized the 8th International Scientific Conference of Faculty of Pharmacy-Cairo University “Pharmacy in Egypt: Ensuring Access to Health“, April 22th, **2017.**

5. Attended the 9th International Scientific Conference of Faculty of Pharmacy-Cairo University “Towards Globally Recognized Egyptian Pharmaceutical Ingredients: A National Priority”, April 25-26th, **2018**.
6. Participated in publishing a conference abstract in Cytotherapy Journal “ISCT conference” entitled “Exendin-4 enhances osteogenic differentiation of adipose tissue mesenchymal stem cells through RANK/RANKL/OPG axis”. Volume 3, Issue 5, Page S51, 1 May **2021**.
7. Attended the 10th International Scientific Conference of Faculty of Pharmacy-Cairo University “Reshaping Pharma Sustainability and Innovation for Better Pandemic Response”, July 6-7th, **2021**.
8. Presented a **“Poster”** on the 24th International Conference and Exhibition on Pharmaceutics & Novel Drug Delivery Systems” held on January 30th-31th, **2023** ‘Virtual” under the title of **“Cromolyn chitosan nanoparticles modulate the DNA methylation of RASSF1A and p16 tumor suppressor genes and lessen DNMT1 and METTL3 expression in MCF-7 breast cancer cell line”**, **2023**.
9. Attended the 11th International Scientific Conference of Faculty of Pharmacy-Cairo University “Authenticity for Excellence in Pharmacy; Egypt healthcare vision 2030”, May 14-15th, **2023**.

Reviewing Scientific Manuscripts:

Served as a reviewer for 91 manuscripts in 51 international scientific journals:

Journal	Number of Manuscripts	Journal	Number of Manuscripts
International Journal of Cancer	1	DNA and Cell Biology	1
Viral immunology	1	Oncotarget	4
World Journal of Gastroenterology	6	Molecular Medicine Reports	5
World Journal of Clinical Oncology	1	Annual Research & Review in Biology	1
Biomedicine & Pharmacotherapy	4	Cytokine	2
World Journal of Gastrointestinal Pharmacology and Therapeutics	1	International Journal of Immunopathology and Pharmacology	1
Clinics and Research of Hepatology and Gastroenterology	2	Clinical Chemistry and Laboratory Medicine	3
Aging	2	Cancers (MDPI)	1
Journal of Clinical Laboratory Analysis	1	Journal of Clinical Medicine (MDPI)	1
Biomed Research International	1	Biomolecules (MDPI)	2
International Journal of Molecular Medicine	1	Experimental and Therapeutic Medicine	2
Plos One	4	Analytical Cellular Pathology	1
International Journal of Biochemistry Research & Review	1	Journal of International Medical Research	1
Bulletin of Faculty of Pharmacy Cairo University	1	European Journal of Pharmacology	1
Life (MDPI)	1	ACS Chemical Neuroscience	1
Nanomedicine (MDPI)	1	Journal of Personalized Medicine (MDPI)	1
International Journal of Medical and Pharmaceutical Case Reports	1	Genes (MDPI)	1
World Journal of Gastrointestinal Oncology	2	Cellular Signaling	2
International Journal of Molecular Sciences	1	ACS Infectious Diseases	1

Journal of Orthopaedic Surgery and Research	10	Molecular and Cellular Biochemistry	3
BMC cardiovascular disorders	1	Biomedicines (MDPI)	1
Archives of pharmacal research	2	Advances in pharmaceutical and pharmacological research	1
Heliyon	1	Clinical and Experimental Obstetrics & Gynecology	1
Biochemical Genetics	1	Life Sciences	2
Tissue and Cell	1	Scientific Reports	1
Journal of Alzheimer's Disease Reports	1		

Awards and Recognition:

1. A Certificate of Appreciation from Faculty of Pharmacy, Cairo University for **the best Master Thesis in Biochemistry 2013** awarded in the 5th International Scientific Conference of Faculty of Pharmacy-Cairo University "Pharmacy at the Cutting-edge: Facing Future Challenges", April 23th-24th, 2014.
2. Certificate of Appreciation from Cairo University for publishing distinguished research in international scientific journals in 2017.
3. A Certificate of Appreciation in the 9th International Scientific Conference of Faculty of Pharmacy-Cairo University for **the outstanding participation in the committees of Performance Appraisal and Quality Assurance in 2018**.
4. **Awarded the 2022 Mohamed Farid Khamis (MFK) Research Excellence Award in Medical and Health Sciences launched in 2021 as a tribute to the late Mr. Mohamed Farid Khamis, founder of the British University in Cairo (December 2022).**

Training Courses and Workshops:

1. **Performance Appraisal and Quality Assurance Workshops:**
 - "Course Specifications and Course Report" in Performance Appraisal and Quality Assurance Unit, Faculty of Pharmacy, Cairo University (2014).
 - Performance Appraisal and Quality Assurance Specialized Training Workshop, Faculty of Pharmacy, Cairo University (2021).
2. **Fundamentals of Digital Transformation Certificate (FDTC):** Word, Presentations, Mobile Applications, and Operating Systems courses (2021).
3. **FLDC Training Workshops:**
 - "Time and Conference Management" (2011).
 - "International Publishing of Research" (2011).
 - "Use of Technology in Teaching" (2011).
 - "E-Learning" (2013).
 - "Research Ethics" (2013).
 - "Exams and Students Evaluation Systems" (2013).
 - "Conference Organization" (2015).
 - "University Code of Ethics" (2015).
 - "Competing for Research Funds" (2016).
 - "Quality Standards in Teaching" (2016).

- **“Fundamentals of Clinical Trials”** (2016).
- **“Crisis Management”** (2016).
- **"Biomedical and Experimental Statistical Analysis"** (2019)
- **"Positive Thinking"** (2019).
- **“Strategic Planning”** (2020).
- **“Communications Skills”** (2021).
- **“Fundamentals of Blended Learning”** (2021).
- **“Critical Thinking”** (2021).
- **“Effective Presentation Skills”** (2022).
- **“MOOCs design and production”** (18-6-2023), FLDC Helwan University

4. **Online Workshops:**

- **H-index, Impact factor and Citation** (2020).
- **Mendeley Citation Manager Software** (2021).
- **Egyptian Knowledge Bank** (2021).
- **Academic Advising and Credit Hours** (2021).

5. **Online Webinars**

- **Enteral and parenteral nutrition in oncology patients** (2020).
- **AstraZeneca Session - Selling Skills** (2020).
- **Obesity, Overweight and risk for cardiovascular diseases in women** (2022).
- **Regulation of bacterial virulence as an approach to combat the problem of antibiotic resistance** (25-1-2022).
- **Times Higher Education World University Ranking 2023** (2-11-2022).
- **5 Reasons to Study Lifestyle Medicine** (16-11-2022).
- **Management of Chronic Hypertension According to Latest Guidelines in** (11-1-2023).
- **Combining 3D Printing and Virtual Reality: Advanced Technologies to enhance Pharmacy Education and Research** (30-1-2023).
- **STDF Open Calls Info-session** (6-2-2023).

6. **“Real-time PCR”** workshop in Faculty of Pharmacy, Cairo University (2012).

Laboratory experience:

Have a good experience in the following techniques:

- Extraction of DNA and RNA from cells/blood/serum.
- Reverse transcription.
- PCR (conventional and Real-time) and PCR data analysis.
- Western blotting.
- ELISA.
- Gel electrophoresis.
- Enzyme assay.
- Spectrophotometric techniques and other experimental procedures.
- Statistical analysis using multiple statistical programs (GraphPad Prism, SPSS, XLSTAT, INSTAT, and DTREG).

Bioinformatics:

Have a good experience in Pathway Studio, String Database, microRNA and long non-coding RNA disease databases, TargetScan, miRDB, miRanda, miRcode 11

Ensembl, and dpSNP databases, along with Gene Ontology, and KEGG Pathway Analysis.

English: GRE, 2008; ATFEL (Cairo University), 2015.

Computer Skills:

- Completed ICDL courses on Information and Communication Technology, Windows, Internet use, and Microsoft office (word, excel, power point, and access) with excellent degree (2016).
- Completed Digital Transformation Certificate (FDTC) (2023).
- Moodle, LMS, and Blackboard Education systems
- SPSS, INSTAT, XLSTAT, DTREG, and GraphPad Prism Softwares.
- Endnote.

References: All references are available whenever required.