

CURRICULUM VITAE



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Personal Data:

- Date of birth: 13/07/1983
- Marital status : Married
- Work Address: 23 Kasr Al-Aini Street, Cairo, Egypt.
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Educational Degrees:

- **PhD degree in Pharmaceutical Sciences (Biochemistry)**, Faculty of Pharmacy, Cairo University (August 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 (December 2013).
Thesis title: **“Effect of angiotensin-converting enzyme inhibition and angiotensin receptor blockade on diabetic rat kidney”**.
- Pre-requisite courses for the master degree in Pharmaceutical Sciences (Biochemistry), Faculty of Pharmacy, Cairo University (February 2007) with an overall grade of **“Excellent”**.
- Bachelor Degree in Pharmaceutical Sciences, Faculty of Pharmacy, Cairo University (May 2005) with an overall grade of **“Excellent with honors”** and ranked as 4th.

Academic and Work Experience:

Full-time

- Associate Professor of Biochemistry, Biochemistry Department, **Faculty of Pharmacy, Cairo University** (November 2021).
- Lecturer of Biochemistry, Biochemistry Department, **Faculty of Pharmacy, Cairo University** (September 2016 till 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

- **Part-timer at Faculty of Pharmacy, Misr International University (MIU)** (September 2017 till now).
- **Part-timer at Faculty of Pharmacy, Heliopolis University for Sustainable Development** (February 2017 till June 2021).
- **Part timer at Faculty of Pharmacy, October 6 University** (Fall 2020/2021).
- **Part-timer at Faculty of Pharmacy, Future University in Egypt** (Fall 2021/2022).
- **Part-timer at Faculty of Pharmacy and Drug Technology, Egyptian Chinese University** (Spring 2021/2022).

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 till now).
- A teaching member of **Clinical Biochemistry and Clinical Nutrition** courses for the students of the Clinical Pharmacy Program (2016 till now).

Postgraduate

- **Course coordinator** of **Laboratory Analysis** course for postgraduate diploma students (Hospital Pharmacy) (2019 till now).
- **Course coordinator** of **Clinical Nutrition** courses for the postgraduate master students (Biochemistry) (Spring 2021/2022).
- A teaching member of **Lab Techniques** and **Clinical Nutrition** courses for the postgraduate master students (Biochemistry) (2016 till now).
- A teaching member of **Advanced Biochemistry, Chemical Pathology, and Clinical Nutrition** courses for the postgraduate diploma students (Biochemistry) (2017 till 2021).
- 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).

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

- A teaching member of **Biochemistry-1 and Biochemistry-2** courses for the second and third-year students (2017 till now).

- **Course coordinator** of **Cell Biology** course for the first-year Pharm D clinical students (Spring 2022).
- **Course coordinator** of **Clinical Nutrition** course for the fifth-year students at (2017 till Summer 2021).
- **Course coordinator** of **Clinical Biochemistry** course for the fourth-year students (Summer 2019).
- A teaching member of **Biology** course for the first-year students (Summer 2018, 2018/2019).

3) Faculty of Pharmacy, Heliopolis University:

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

4) Faculty of Pharmacy, October 6 University:

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

5) 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).

6) Faculty of Pharmacy, Egyptian Chinese University:

- **Course coordinator** of **Biochemistry-1** course for the second-year Pharm D students (Spring 2021/2022).

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:

- **Assistant of the Vice Dean of Education and Student Affairs**, Faculty of Pharmacy, Cairo University (From October 2016 till August 2021).
- **Faculty coordinator of "Youth Care and Student Activities"** at Cairo University (From October 2018 till August 2021).
- Member of **"Precautionary Measures for COVID-19 Committee"** (2019/2020).
- **Academic Advisor** for Clinical Pharmacy Program students, Faculty of Pharmacy, Cairo University (From September 2016 till now).
- **Academic Advisor** for Pharm D students, Faculty of Pharmacy, Cairo University (From 2019 till now).

- Member of the “**Academic Support Committee**” for General Program students, Faculty of Pharmacy, Cairo University (From August 2016 till June 2020).
- Member of “**Crisis and Disaster Committee**” of the Faculty of Pharmacy, Cairo University (From October 2016 till now).
- Member of the “**Instruments Committee**” and “**Biochemistry Department Research Plan Committee**” in Biochemistry Department, Faculty of Pharmacy, Cairo University.
- 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 for Biochemistry Department, Faculty of Pharmacy, Cairo University.
- Participation in the processing of quality files for Biochemistry-2 and Communication Skills courses for Performance Appraisal and Quality Assurance.

Scientific Publications:

Published 21 international publications (Web of Science).

***h-index* (scopus)= 10.**

Number of citations=292 (Scopus till June 2022).

Publications published before master thesis:

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.

Publications published before PhD thesis:

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.

Publications published after PhD thesis:

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 May 30:110002. doi: 10.1016/j.cbi.2022.110002. Epub ahead of print. PMID: 35654124.

Master and PhD Thesis Supervision:

Total number of thesis supervision= 14.

Participating in supervision on **8 master students** and **6 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:

- **Working on a Cairo University research project (2019) “Role of long non-coding RNAs in colorectal cancer” (Grant number 2017-181).**

Scientific Conferences:

1. Attended the 3rd International Scientific Conference of Faculty of Pharmacy Cairo University on “Good Pharmacy Practice”, April 25th-26th, 2012 and presented a “**Poster**” under the title of “**Possible Protective Mechanisms Against Renal Damage in STZ-Induced Diabetic Rats**” T.K. Motawi, S.A. El-Maraghy and M.A. Senousy. **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**.

Awards and Recognition:

1. 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.
2. Certificates of Appreciation from Cairo University for publishing distinguished research in international scientific journals in 2017.
3. A Certificate of Appreciation from Faculty of Pharmacy, Cairo University for **the best Master Thesis in Biochemistry 2013** awarded in 5th International Scientific Conference of Faculty of Pharmacy Cairo University “Pharmacy at the Cutting-edge: Facing Future Challenges”, April 23th-24th, 2014.

Reviewing Scientific Manuscripts:

Served as a reviewer for 42 manuscripts in the following 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	4	Molecular Medicine Reports	4
World Journal of Clinical Oncology	1	Annual Research & Review in Biology	1
Biomedicine & Pharmacotherapy	2	Cytokine	1
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)	1
International Journal of Molecular Medicine	1	Experimental and Therapeutic Medicine	2
Plos One	1	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		

Training Courses and Workshops:

1. **Performance Appraisal and Quality Assurance Specialized Training Workshop**, Faculty of Pharmacy, Cairo University (2021).
2. **“Course Specifications and Course Report” in Performance Appraisal and Quality Assurance Unit**, Faculty of Pharmacy, Cairo University (2014).
3. **FLDC Training Courses:**
 - “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).
4. **Fundamentals of Digital Transformation Certificate (FDTC):** Word, Presentations and Operating Systems courses. (2021)
5. **Online Workshops:**
 - H-index, Impact factor and Citation (2020).
 - Mendeley Citation Manager Software (2021).
 - Egyptian Knowledge Bank (2021).
 - Academic Advising and Credit Hours (2021).
6. **Online Webinars**
 - Enteral and parenteral nutrition in oncology patients (2020).
 - AstraZeneca Session - Selling Skills (2020).
 - Regulation of bacterial virulence as an approach to combat the problem of antibiotic resistance (2022).
7. “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 kinetics.
- Spectrophotometric techniques and other experimental procedures.
- Statistical analysis using multiple statistical programs (GraphPad Prism, SPSS, XLSTAT, INSTAT and DTREG).

Language Skills:

- **Arabic:** Mother tongue (Egyptian)
- **English:**
 - **GRE Test:** Verbal: 420, Quantitative: 240, Analytical Writing: 1, exam taken at Amideast, Cairo in 2008.
 - **ATEFL Test:** score 570, exam taken at Cairo University in 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.
- Moodle, Blackboard, LMS
- SPSS, INSTAT and Graphpad Prism Statistical Softwares
- Endnote

Job Skills:

- Communicate effectively, both orally and in writing.
- Work effectively with a multiple diverse community.
- Have program planning and implementation skills.
- Create, compose and edit written materials.
- Develop and deliver presentations.
- Have knowledge of computerized student information systems.

Personal Skills:

- Quick-learner, studious, hard-worker, and highly-committed.
- Trustworthy, reliable, and responsible.
- Ambitious, self-motivated, persistent, practical, and cooperative.
- Patient, cheerful, and optimistic.

References:

- All references are available whenever required.