

Curriculum Vitae of Mostafa El-Miligy



Name: Mostafa Mohamed Mahmud El-Miligy

Date of Birth: 25 October 1974

Marital Status: Married with four children

E-mail: mostafa.elmiligy@alexu.edu.eg; melmiligy4m@hotmail.com

Position: Associate Professor, Pharmaceutical Chemistry Department, Faculty of Pharmacy, Alexandria University, Egypt.

Telephone: Cell phone +201001708632, Home +2034280003

Address: 140 Taawoniat Somoha, Sidi Gaber, Alexandria, Egypt.

Education and Certificates:

B.Sc. Faculty of Pharmacy, University of Alexandria (1997).

M.Sc. Pharmaceutical Chemistry, Faculty of Pharmacy, Alexandria University (2004).

Ph.D. Pharmaceutical Chemistry (Channel between College of Pharmacy - South Dakota State University – USA and Faculty of Pharmacy - Alexandria University - Egypt) (2009).

ORCID ID # 0000-0003-4832-0719

Researcher ID # K-1445-2017

Professional experience:

Demonstrator 1999 – 2004: Pharmaceutical Chemistry Department, Faculty of Pharmacy, Alexandria University, Alexandria, Egypt.

Assistant Lecturer 2004 – 2009: Pharmaceutical Chemistry Department, Faculty of Pharmacy, Alexandria University, Alexandria, Egypt.

Assistant Professor 2009 – 2018: Pharmaceutical Chemistry Department, Faculty of Pharmacy, Alexandria University, Alexandria, Egypt.

Associate Professor 2018 – present: Pharmaceutical Chemistry Department, Faculty of Pharmacy, Alexandria University, Egypt.

Teaching experience:

1. Faculty of pharmacy – Alexandria University - Egypt

- Teaching of **Pharmaceutical organic chemistry** to 1st year students **2009-2011** and **2014-2017** and 2nd year students **2011-2013**.
- Teaching of **Pharmaceutical organic chemistry-1 PC-102** to 1st term **clinical pharmacy** students **2010-2011, 2012-2013, 2013-2014** and **2014-2015**.
- Teaching of **Pharmaceutical organic chemistry-2 PC-203** to 2nd term **clinical pharmacy** students **2016-2017**.
- Teaching of **Pharmaceutical organic chemistry-1** to 1st term **Pharm D General and clinical** students **2019-2021**.
- Teaching of **Seminar-I** and **Seminar-II** to high education students.

2. Faculty of pharmacy –Damanhour University – Egypt

Teaching of **Pharmaceutical organic chemistry** to 2nd year students **2010-2011, 2012-2013** and 1st year students **2011-2012, 2013-2014**.

3. Faculty of pharmacy – Pharos University – Egypt

- Teaching of **Pharmaceutical organic chemistry-I (PHR 232)** and **Pharmaceutical organic chemistry-II (PHR 233)** to 2nd year students –**2009-2010**.
- Teaching of **Basic organic chemistry (PHR 131)** to 1st year students – **2010-2011, 2011-2012, 2012-2013**.
- Teaching of **Pharmaceutical organic chemistry-I (PHR 232)** and **Pharmaceutical organic chemistry-II (PHR 233)** to 2nd year students - **2010-2011**.
- Teaching of **Pharmaceutical organic chemistry-II (PHR 233)** to 2nd year students - **2013-2014, 2017-2018**.
- Teaching of **Pharmaceutical organic chemistry-I (PHR 232)** to 2nd year students - **2015-2016, 2017-2018**.

Experience in Academic Practice:

- Participating in the annual meetings of the Department of Pharmaceutical chemistry concerning the development and assessment of the undergraduate students' courses.
- Member of the faculty committee of community service and environment development for the academic year 2011-2012.
- Member of the faculty animal care and use committee for the academic years 2011-2016.
- Secretary of the faculty council for the academic year 2016-2017.
- Examiner of a second year student in the Elhadara Prison for two terms of the academic year 2015-2016.

- Participating in the preparation of the practical books of the 1st and 2nd year students.
- Preparation and writing of **Alkyl halides, Alcohols&Ethers** part in the 1st year 1st term theoretical Pharmaceutical Organic Chemistry book.
- Preparation and writing of **Hydroxy acids** part in the 1st year 2nd term theoretical Pharmaceutical Organic Chemistry book.
- Preparation and writing of **Polymers** part in the 2nd year 1st term theoretical Pharmaceutical Organic Chemistry book.
- Participating in the construction of the research laboratory of the department.
- Participating in the construction of the department drug design laboratory.
- Participating in the scientific meetings and workshops held in the department.
- Responsible for all aspects of laboratory work and guidance of students within the lab.
- Oral examiner of undergraduate students in some Egyptian Universities.

Student Activities:

- Academic advisor for high education students in Pharmaceutical Chemistry Department - Faculty of Pharmacy - Alexandria University.
- Advisor for the students' union committee of science and technology for the year 2014-2015.
- Head of the students' union election committee for 2nd year students in the academic years 2012-2013, 2013-2014 and 2014-2015.
- Supervising the summer training of undergraduate fourth year students-Faculty of Pharmacy, Alexandria University.
- Academic advisor for two groups of Clinical Pharmacy students from 2010-2015 and from 2016 till now.
- Academic advisor for 1st and 2nd year students.

Research Areas: Synthesis of anti-HIV-1, anticancer, VEGFR-2 tyrosine kinase inhibitors, antimalarial, antileishmanial, anti-HCV, COX-2 and 5-LOX inhibitors, Topoisomerase-I and KSP/Eg5

inhibitors, PIM-1 kinase inhibitors, anti-inflammatory, antioxidant, antimicrobial and insecticidal agents.

Publications:

1. Samia M. Rida; Soad A. M. El-Hawash; Hesham T. Y. Fahmy; Aly A. Hazzaa; **Mostafa M. M. El-Meligy**; Synthesis and *in vitro* Evaluation of Some Novel Benzofuran Derivatives as Potential Anti-HIV-1, Anticancer and Antimicrobial Agents; *Archives of Pharmacal Research*, **29(1)**, 16-25 (2006).
2. Samia M. Rida; Soad A. M. El-Hawash; Hesham T. Y. Fahmy; Aly A. Hazzaa; **Mostafa M. M. El-Meligy**; Synthesis of Novel Benzofuran and Related Benzimidazole Derivatives for Evaluation of *in vitro* Anti-HIV-1, Anticancer, and Antimicrobial Activities; *Archives of Pharmacal Research*, **29(10)**, 826-833 (2006).
3. Adnan A. Bekhit; Ahmed M.M. Hassan; Heba A. Abd El Razik; **Mostafa M.M. El-Miligy**; Eman J. El-Agroudy; Alaa El-Din A. Bekhit; New heterocyclic hybrids of pyrazole and its bioisosteres: Design, synthesis and biological evaluation as dual acting antimalarial-antileishmanial agents; *European Journal of Medicinal Chemistry*, **94**, 30-44 (2015).
4. **Mostafa M.M. El-Miligy**; Aly A. Hazzaa; Hanan El-Messmary; Rasha A. Nassra; Soad A.M. El-Hawash; New hybrid molecules combining benzothiophene or benzofuran with rhodanine as dual COX-1/2 and 5-LOX inhibitors: Synthesis, biological evaluation and docking study; *Bioorganic Chemistry*, **72**, 102-115 (2017).
5. **Mostafa M.M. El-Miligy**; Aly A. Hazzaa; Hanan El-Messmary; Rasha A. Nassra; Soad A.M. El-Hawash; New benzothiophene derivatives as dual COX-1/2 and 5-LOX inhibitors: synthesis, biological evaluation and docking study; *Future Medicinal Chemistry*, **9(5)**, 443-468 (2017).
6. **Mostafa M. M. El-Miligy**; Heba A. Abd El Razik; Marwa M. Abu-Serie; Synthesis of Piperazine-Based Thiazolidinones as VEGFR2 Tyrosine Kinase Inhibitors Inducing Apoptosis; *Future Medicinal Chemistry*, **9(15)**, 1709-1729 (2017).
7. **Mostafa M. M. El-Miligy**; Samia M. Rida; Fawzia A. Ashour; Mona H. Badr; Ehab M. El-Bassiony; Maha A. El-Demellawy; Ashraf M. Omar; Dual inhibitors of hepatitis C virus and hepatocellular carcinoma: Design, synthesis and docking studies; *Future Science OA*, **4(1)**, FSO252 (2018).
8. Haydi S. ElBordiny, **Mostafa M. El-Miligy**, Shaymaa E. Kassab, Hoda Daabees, Soad A. El-Hawash, Waleed A. Ali, Design, synthesis, biological evaluation and docking studies of new 3-(4,5-dihydro-1H-pyrazol/isoxazol-5-yl)-2-phenyl-1H-indole derivatives as potent antioxidants and 15-lipoxygenase inhibitors, *European Journal of Medicinal Chemistry*, **145**, 594-605 (2018).

9. Mohamed A. Abdelsalam, Omaila M. AboulWafa, El-Sayed A. M. Badawey, Mai S. El-Shoukrofy, **Mostafa M. El-Miligy**, Noha Gouda, Mahmoud M. Elaasser, Design, synthesis, anticancer screening, docking studies and in silico ADME prediction of some β -carboline derivatives, *Future Medicinal Chemistry*, **10(10)**, 1159-1175 (2018).
10. Marwa E. Abdelaziz, **Mostafa M. M. El-Miligy**, Salwa M. Fahmy, Mona A. Mahran, Aly A. Hazzaa, Design, Synthesis and docking study of pyridine and thieno[2,3-b]pyridine derivatives as anticancer PIM-1 kinase inhibitors, *Bioorganic Chemistry*, **80**, 674-692 (2018).
11. Mohamed A Abdelsalam, Omaila M AboulWafa, El-Sayed AM Badawey, Mai S El-Shoukrofy, **Mostafa M El-Miligy**, Noha Gouda, Design and synthesis of some β -carboline derivatives as multi-target anticancer agents, *Future Medicinal Chemistry*, **10(24)**, 2791-2814 (2018).
12. **Mostafa M. M. El-Miligy**; Aly A. Hazzaa; Saad R. El-Zemity , Ahmed K. Al-Kubeisi; Synthesis of thymol derivatives as potential non-irritant antimicrobial and insecticidal agents; *Current Bioactive Compounds*, **15(1)**, 125-137 (2019).

Supervision of Scientific Theses

Finished theses:

- 1- Eman Jamil El Agroudy, M.Sc. of Pharmaceutical Chemistry, dept. of Pharmaceutical Chemistry, Faculty of Pharmacy, Alexandria University, Alexandria, Egypt. "*Synthesis and Biological Evaluation of Some Pyrazole Derivatives as Dual Acting Antileishmanial-antimalarial Agents*", 16/3/2014.
- 2- Ehab Elbassiony, M.Sc of Pharmaceutical Chemistry, dept. of Pharmaceutical Chemistry, Faculty of Pharmacy, Alexandria University, Alexandria, Egypt. "*Design, synthesis and molecular modeling study of novel benzofurans and their bioisosteres as HCV and tumor inhibitors*", 14/4/2014.
- 3- Ahmed khaleel Ibrahim Al-Kubeisi, M.Sc. of Pharmaceutical Chemistry, Dept. of Pharmaceutical Chemistry, Faculty of Pharmacy, Alexandria University, Alexandria, Egypt. "*Design and synthesis of some heterocyclic compounds of expected biological activities*", 12/1/2016.
- 4- Hanan Abdelkarim Abdalla, M.Sc. of Pharmaceutical Chemistry, Dept. of Pharmaceutical Chemistry, Faculty of Pharmacy, Alexandria University, Alexandria, Egypt. "*Design and synthesis of benzo[b]thiophene*

derivatives and/or their bioisosteres as anti-inflammatory agents”, 16/2/2016.

- 5- Marwa Ehab Mohamed Abdel El Aziz, M.Sc. of Pharmaceutical Chemistry, Dept. of Pharmaceutical Chemistry, Faculty of Pharmacy, Alexandria University, Alexandria, Egypt. ***“Design and synthesis of some pyridine derivatives of expected biological activities”***, 12/4/2016.
- 6- Haidi Ahmed Saher Atteya Mohamed El-Bardiny, M.Sc. of Pharmaceutical Chemistry, Dept. of Pharmaceutical Chemistry, Faculty of Pharmacy, Alexandria University, Alexandria, Egypt. ***“Design, synthesis and evaluation of antioxidant capacity of some new indole derivatives”***, 12/4/2016.
- 7- Mohamed Adel, M.Sc. of Pharmaceutical Chemistry, Dept. of Pharmaceutical Chemistry, Faculty of Pharmacy, Alexandria University, Alexandria, Egypt. ***“Design and Synthesis of Some Heterocycles of Potential Therapeutic Activities”***, 25/12/2016.
- 8- Eman Jamil El Agroudy, Ph.D. of Pharmaceutical Chemistry, dept. of Pharmaceutical Chemistry, Faculty of Pharmacy, Alexandria University, Alexandria, Egypt. ***“Design and Synthesis of New Pyrazole Derivatives as Antiprotozoal Agents”***, 28/1/2019.
- 9- Ahmed khaleel Ibrahim Al-Kubeisi, Ph.D. of Pharmaceutical Chemistry, Dept. of Pharmaceutical Chemistry, Faculty of Pharmacy, Alexandria University, Alexandria, Egypt. ***“Synthesis and Biological Evaluation of Novel Terpene Derivatives”***, 14/11/2019.

Theses still under supervision:

1. Marwa Ehab Mohamed Abdel El Aziz, Ph.D. of Pharmaceutical Chemistry, Pharmaceutical Chemistry Department, Faculty of Pharmacy, Alexandria University, Alexandria, Egypt. ***“Design, synthesis and in-silico study of some novel pyridine derivatives of potential biological activity”***.
2. Nada Hassan Azmy El-Dershaby, M.Sc. of Pharmaceutical Chemistry, Pharmaceutical Chemistry Department, Faculty of Pharmacy, Damanhour University, Egypt. ***“Design, Synthesis and Biological Evaluation of Some New Salicylic Acid Derivatives”***.
3. Ola Mohamed El Sayed Ismail, M.Sc. of Pharmaceutical Chemistry, Pharmaceutical Chemistry Department, Faculty of Pharmacy, Alexandria

University, Alexandria, Egypt, “***Design and Synthesis of New heterocyclic compounds of potential anticancer activity***”.

Reviewer in the following journals:

1. Journal of Medicinal Chemistry.
2. Bioorganic Chemistry.
3. Informatics in Medicine Unlocked (IMU).

Collaborations:

2002-present: National Cancer Institute.

2006-2009: Departments of Biology/Microbiology and Veterinary Science, South Dakota State University, USA.

Skills:

- 1- Working on 400 MHz Bruker NMR instrument and programs process NMR files.
- 2- Working on Thermo Nicolet 360 Avatar Fourier Transform Infrared Spectrometer (FTIR) and programs process IR files.
- 3- International Computer Driving License (ICDL).
- 4- Chemical Drawing Programs (ISIS Draw, ChemBioOffice, MarvinSketch, ChemSketch).
- 5- Molecular Modeling programs (AUTODOCK, MOE).
- 6- Languages: Fluent in English and Arabic.

Conferences Activity:

- 1- “Synthesis and *in vitro* evaluation of some novel benzofuran derivatives and their bioisosteres as potential anti-HIV-1 agents”, Mostafa El-Miligy, Soad El-Hawash, Aly Hazza, Samia Rida, Feng Li, Weng Yuejin and Hesham Fahmy, Seventeenth Annual Pharmacy Research Presentations and Keo Glidden Smith Fall Pharmacy Convocation, College of Pharmacy, South Dakota State University, USA, October 22nd 2007, Poster 3A.
- 2- “Synthesis and Biological Evaluation of Some Pyrazole Derivatives as Dual Acting Antileishmanial-antimalarial Agents”, Adnan A. Bekhit, Ahmed M. M. Hassan, Heba A. Abd El Razik, **Mostafa M. M. El-Miligy**, Eman J. El-Agroudy, 1st International Conference on Science Diplomacy and Developments in Chemistry, Alexandria-Egypt, November 24-26/2012, Poster PP30.
- 3- “Design and synthesis of novel dual acting antileishmanial-antimalarial agents derived from pyrazole”, Adnan A. Bekhit, Ahmed M. M. Hassan, Heba A. Abd El Razik, **Mostafa M. M. El-Miligy**, Eman J. El-Agroudy, Alaa El-Din A. Bekhit, 5th International Conference on Drug Discovery

- and Therapy in Chemistry, Dubai, UAE, February 18-21, 2013, Poster P51.
- 4- "Cytotoxic, Anti-HCV, Anticholinesterase and Antioxidant Activities of the Ethanolic Extract of *Berberis vulgaris* roots, Berberine, Di-berberine sulfate and Berberrubine", Doaa A. Ghareeb, Mohamed A. Abd El-Salam, **Mostafa El-Miligy**, Hattem M. Mekky, Fathy K. El-Fiky and Maha A. El-Demellway, Science and Technology Education for Sustainable Development in the Arab Region (TWAS-ARO) 9th Annual Meeting, 29-30 December 2013, at the Bibliotheca Alexandrina, Egypt. <https://www.bibalex.org/cssp/Speakers/SpeakersList.aspx?ID=258&type=2>
 - 5- "Design, Synthesis and Evaluation of Antioxidant Capacity and Lipoxygenase Inhibition of Some New 2-Phenylindole Derivatives", H.S.El-Bordiny, **M.M.El-Miligy**, S.E.Kassab, H.M.Daabees and S.A.El-Hawash, International Conference on Chemical Sciences & Applications (ICCSA) 6-9 August 2016, Arab Academy for Science, Technology and Maritime Transports, Alexandria, Egypt, Oral presentation, Ref. 318-O.
 - 6- Synthesis And Biological Evaluation of Some Piperazine-Based Thiazolidinones as New Apoptosis Inducer Anticancer Agents, **Mostafa M. M. El-Miligy**, Heba A. Abd El Razik, Marwa M. Abu-Serie, RICT2016, Caen-France, 6-8 July 2016.
 - 7- Design, synthesis and biological evaluation of pyrazole derivatives as potential antileishmanial-antimalarial agents; Adnan A. Bekhit, Ahmed M. M. Hassan, Heba A. Abd El Razik, **Mostafa M. M. El-Miligy**, Eman J. El-Agroudy, Alaa El-Din A. Bekhit; Paper club, Nano Chemistry Conference, Faculty of Science, Alexandria University (April 29, 2017).
 - 8- Design, Synthesis and Evaluation of Some Novel 1,4-Disubstituted Rhodanine Derivatives as Potential Inhibitors of Hepatitis C Virus and Hepatocellular Carcinoma, Mona H. Badr, **Mostafa M. M. El-Miligy**, Samia M. Rida, Fawzia A. Ashoura, Ehab M. ElBassiony, Maha A. El-Demellawy and Ashraf M. Omar, 2nd International Conference on Applied Chemistry (ICAC), Hurghada, Egypt, 25-28 Nov 2017.
 - 9- Design and synthesis of pyrazolyl-4-cyanoacrylic acid derivatives as *Leishmania major* Pteridine reductase inhibitors; Adnan A. Bekhit, Ahmed M. M. Hassan, Heba A. Abd El Razik, **Mostafa M. M. El-Miligy**, Eman J. El-Agroudy, Alaa El-Din A. Bekhit; 1st scientific forum for postgraduate students, Faculty of Pharmacy, Alexandria University, Egypt (May 2, 2019) (3rd poster award).
 - 10- Design, synthesis and docking study of pyridine and thieno[2,3-b] pyridine derivatives as anticancer PIM-1 kinase inhibitors; Marwa E. Abdelaziz, **Mostafa M.M. El-Miligy**, Salwa M. Fahmy, Mona A. Mahran, Aly A. Hazzaa; 1st scientific forum for postgraduate students, Faculty of Pharmacy, Alexandria University, Egypt (May 2, 2019).

- 11- SAR of pyrazolylpyrazoline analogues targeting Toxoplasma gondii calcium-dependent protein kinase 1 (TgCDPK1); Eman J. El-Agroudy, Heba A. Abd El Razik, **Mostafa M. M. El-Miligy**, Ahmed M. M. Hassan, Adnan A. Bekhit; Pharmaceutical and Health Care science PHS, Hlton, Alexandria (Nov. 6-7, 2019).
- 12- New hybrid molecules tethering pyridine to quinoline as anticancer PIM-1 Kinase inhibitors: Design, synthesis, biological evaluation and docking study; Marwa E. Abdelaziz, Salwa M. Fahmy, Marwa M Abu-Serie, **Mostafa M.M. El-Miligy**, Mona A. Mahran, Aly A. Hazzaa; Pharmaceutical and Health Care science PHS, Hlton, Alexandria (Nov. 6-7, 2019).
- 13- Design, Synthesis and Biological Evaluation of Pyridine Derivatives as Anticancer PIM-1 Kinase Inhibitors; Marwa E. Abdelaziz, **Mostafa M.M. El-Miligy**, Salwa M. Fahmy, Marwa M Abu-Serie, Mona A. Mahran, Aly A. Hazzaa; 2nd PUA international conference on multidisciplinary approaches in pharmaceutical sciences (March 11-12, 2020).

Grants:

“Design, synthesis and molecular modeling study of novel benzofurans and their bioisosteres as HCV and tumor inhibitors”, Alexandria University Research Fund (**AURF**), Research Enhancement Program (**ALEX REP**), **Principal Investigator, 4-2011 to 10-2013**

Workshops:

1. “**Bioassays of Medicinal Plants**”, (2-11/9/2012), City of Scientific Research and Technological Applications, Genetic Engineering and Biotechnology Research Institute (GEBRI), **presented a lecture titled “Exploring the receptor of bioactive ingredients using docking studies”**
2. “**Author workshop**”, 12/4/2018, Elsevier researcher academy, Faculty of Pharmacy, Alexandria University.
3. “**Plagiarism**”, 12/6/2018, Elsevier researcher academy.
4. “**How to prepare your manuscript**”, 21/6/2018, Elsevier researcher academy.
5. “**Cell Press Journals**”, 9/7/2018, Elsevier researcher academy, Faculty of Pharmacy, Alexandria University.
6. “**Assessment: The real driver for competency-based education in pharmacy**”, 18/7/2018, Faculty of Pharmacy, Alexandria University.

Passed training courses:

Leadership Preparation

November 2001, Institute of Leadership preparation in Helwan.

Preparation of university teacher

October 2002, Faculty of Education, Alexandria university.

Effective teaching skills

September 2005, Faculty and Leadership Development Project (FLDP), leadership development center, Alexandria university.

Teaching with technology

February 2008, Faculty and Leadership Development Project (FLDP), leadership development center, Alexandria university.

Code of Ethics

March 2008, Faculty and Leadership Development Center (FLDC), Alexandria university.

Financial and legal affairs

March 2008, Faculty and Leadership Development Center (FLDC), Alexandria university.

Effective Presentation Skills

March 2008, Faculty and Leadership Development Project (FLDP), leadership development center, Alexandria university.

Credit hours

March 2008, Faculty and Leadership Development Center (FLDC), Alexandria university.

Reference Management Systems

March 2017, Faculty and Leadership Development Center (FLDC), Alexandria university.

Quality Standards in Teaching

April 2017, Faculty and Leadership Development Center (FLDC), Alexandria university.

Funded Research Implementation and Research Team Management

June 2017, Faculty and Leadership Development Center (FLDC), Alexandria university.

International Publishing of Research

June 2017, Faculty and Leadership Development Center (FLDC), Alexandria university.

Designing and Developing the Digital Content

July 2017, Faculty and Leadership Development Center (FLDC), Alexandria university.

University Legal and Financial Aspects

July 2017, Faculty and Leadership Development Center (FLDC), Alexandria university.

Association & Committee memberships/ Activities:

- Member of General Syndicate of Pharmacists, Egypt, 1997– present.
- Attendance of seminars about Electronic Library, Drug Design and Drug Modeling, Faculty of Pharmacy, Alexandria University, Egypt.

Awards:

- Alexandria University Prize for presentation entitled “Pyrazole as promising scaffold for the synthesis of dual acting antileishmanial-antimalarial agents” at the Alexandria University 1st Annual Conference of Health is Daughter of All Sciences, 27-28 December 2012, Alexandria, Egypt.

Social activities:

- 1- Lived in USA for 2 years and visited many USA cities like New York City, Chicago, Water Town, Sioux Falls, Sioux City, Brookings, Volga, and Cincinnati.
- 2- Membership in Alexandria Union Club, Alexandria, Egypt.
- 3- Somouha Sports Youth Center, Alexandria, Egypt.
- 4- Membership in Olympic Center of the Armed Forces in Alexandria.