

Mai Hatem Mousa



Lecturer of Medicinal Chemistry
Department of Pharmaceutical Chemistry
The Egyptian Chinese University (ECU), Cairo, Egypt
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Education

- German University in Cairo**
Doctor of Philosophy in Medicinal Chemistry **Excellent, August, 2020**
Thesis: Halting viral replication by different chemical approaches
Supervisor: Prof. Dr. Ashraf H. Abadi, and co-supervisor: Assoc. Prof. Dr. Nermin Salah Ahmed.
- German University in Cairo**
Master Degree in Medicinal Chemistry **Excellent, June 2016**
Thesis: Bivalent ligands as anti-HCV agents
Supervisor: Prof. Dr. Ashraf H. Abadi, and co-supervisor: Assoc. Prof. Dr. Mohamed Abd El Halim.
- German University in Cairo**
Bachelor of Science in Pharmacy and Biotechnology **Excellent (High Honor), October 2013**

Employment

- Egyptian Chinese University (ECU)** **September, 2021- Present,**
Lecturer, Pharmaceutical Chemistry Department.
Organic Chemistry I and III
Communication skills for health care professions
- Vice Manager of the Quality Assurance and Accreditation Unit** **September, 2021- Present,**
- German University in Cairo (GUC)** **September, 2020 - August, 2021**
Ph.D. Holder, Pharmaceutical Chemistry Department **September, 2015 - August, 2020**
Assistant Lecturer, Pharmaceutical Chemistry Department
Medicinal Chemistry I and II
Analytical Chemistry
Organic chemistry I and II
General and Physical Chemistry
Chemistry for engineering
- Heliopolis University for Sustainable Development (HUS)** **September, 2014 - August, 2015**
Teaching Assistant, Pharmaceutical Chemistry Department
Medicinal Chemistry I and II
Analytical Chemistry
Organic chemistry
Instrumental Analysis

Honors and Awards

- Erasmus+ Scholarship, Technische Universität Dresden (TUD),** **October, 2018 - March, 2019**
Fully funded scholarship in Europe for my PhD research.
Visiting Scholar in Prof. Dr. Jan J. Weigand lab, Dresden, Germany.
- Science and Technology Development Fund (STDF) (project ID #22848 PI Prof. Dr. Ashraf H. Abadi)**
Funding both M.Sc. and Ph.D. research.
- DAAD Scholarship, Ludwig-Maximilians-Universität (LMU), Munich, Germany.** **July, 2009**
German language course.
- German University in Cairo (GUC)**
Undergraduate Scholarship **September, 2008 - July, 2013**

Publications

Mousa, M. H. A.; Ahmed, N. S^{*1}.; Schwedtmann, K.; Frakolaki, E.; Vassilaki, N.; Zoidis, G.; Weigand, J. J.; Abadi, A H. ^{*2}
“[Design and Synthesis of Novel Symmetric Fluorene-2,7-Diamine Derivatives as Potent Hepatitis C Virus Inhibitors.](#)”
Pharmaceuticals **2021**, 14 (4).

Leila, A. R. S.; **Mousa, M. H. A.**; Frakolaki, E.; Vassilaki, N.; Bartenschlager, R.; Zoidis, G.; Abdel-Halim, M^{*1}.; Abadi, A.H. ^{*2}
“[Symmetric Anti-HCV Agents: Synthesis, Antiviral Properties, and Conformational Aspects of Core Scaffolds.](#)”
ACS omega **2019**, 4 (7), 11440-11454. .

Poster

Nermin, S. Ahmed; **Mai, H. A. Mousa.**

“[Design and synthesis of novel symmetric diaminofluorene prolinamide analogues as potent hepatitis C virus inhibitors.](#)”
6th International Electronic Conference on Medicinal Chemistry, **2020**.

Research

Experience

Use of structure elucidation techniques

HPLC-MS, TLC-MS, ¹³C-NMR, ¹H-NMR, 2D-NMR, IR, X-ray crystallography, elemental analysis and melting point.

Usage of the Schlenk-line technique.

Mentoring Experience

Co-Supervising Graduate student, Master degree students

Academic Projects

Drug Design undergraduate project

2013

Application of computational methods to design drug molecules, applying molecular mechanics techniques, quantum mechanics (semi-Empirical and ab-initio methods), using different pharmacophores, quantitative structure activity relationship (QSAR), ligand-target interactions and docking procedures.

Extra Teaching experience:

Preparation of lectures and laboratory teaching content.
Preparation of theoretical and practical final exams and quizzes.
Preparation of course file: specification and report.
Examination control room staff.
Exam supervision and correction.
Research training for undergraduate interns.
Academic advising.
Mentoring program.
Probation program.
Ordering and performing quality checks on laboratory chemical supplies.

Extra-Curricular Activities

Multi-Apex Pharma Egypt

June - September, 2012

Field training: Hands on experience in the quality control department, quality assurance department, research and development, production unit and warehouse.

German University in Cairo

July, 2011

Instrumental Analysis Unit, Pharmaceutical Chemistry department.
Internship in “advanced course in practical: high-performance liquid chromatography(HPLC)” method development, separation, identification and quantification of different components in a mixture.

GUC mWHO club

December, 2010 - May, 2011

Appointed delegate

Workshops and Training

Field training in community pharmacies

August - September, 2010

Nature Research Academies workshop in collaboration with the Egyptian Knowledge Bank (EKB).

Program Specifications Training, Helwan University

September, 2021

Computer Skills:

Proficient user of Microsoft Office.
Molecular Operation Environment (MOE) software.

Linguistic Skills:

Fluent in spoken and written English and Arabic.
Elementary proficiency in German and French.

Note:

*1 Associate Professor of Pharmaceutical Chemistry, GUC.

*2 Head, Department of Pharmaceutical Chemistry and Ex-dean faculty of Pharmacy and Biotechnology, GUC. Ex-ambassador Scientist to Egypt in the Alexander von Humboldt foundation, Bonn, Germany.