PERSONAL INFORMATION

## Aliaa Mohie El-Deen Othman Mohassab

💡 Al-Minya, Egypt

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## **POSITION** Lecturer of Medicinal Chemistry, Medicinal Chemistry Department, Faculty of Pharmacy, Minia University, Egypt

WORK EXPERIENCE

(February 2021- To date)

#### Lecturer of Medicinal Chemistry

Medicinal Chemistry Department, Faculty of Pharmacy, Minia University, Egypt

- Present lectures to graduate and undergraduate students that inspire strong discussions and keep students interested
- Remain current in the field of study through regular research, conference attendance, and publication in peer-reviewed journals.
- Conduct office hours on a regular basis to provide time for students to come and talk with you about their grades, assignments and other issues.
- Grade assignments and ensure that all students remain in compliance with the department's policy on academic integrity, including checking for any cheating and/or plagiarism.
- Develop strong relationships with colleagues within the department and throughout the institution for an enhanced learning environment that values interdisciplinary study.

(2017-2021)

- Assistant Lecturer of Medicinal Chemistry
- Medicinal Chemistry Department, Faculty of Pharmacy, Minia University, Egypt
- Supervising the work of students and their projects, providing advice on study skills and helping them with learning problems
- Setting quizzes, homework assignments and examination questions as well as assessing the work and progress of students
- Attendance at conferences and seminars in areas of research
- Working co-operatively with senior college administration and other course coordinators to design, implement and evaluate course material

#### (2007–2017)

- Medicinal Chemistry Department, Faculty of Pharmacy, Minia University, Egypt
- Demonstrating the use of different practical equipment
- Conducting experiments in labs and answering questions related to those experiments
- Teaching students pivotal safety rules

Demonstrator of Medicinal Chemistry

#### **Research Experiences**

- Synthesis of different organic compounds with multi-steps synthetic techniques
- Separation of the synthesized compounds and confirming their structures via several spectral techniques such as IR, NMR spectroscopy (using Mestronova programme), and HRMS techniques
- Performing biological experiments such as anti-inflammatory using Carrageenan induced paw edema method
- Nitric oxide release measurement using Griess colorimetric method
- Performing docking experiments of the synthesized compounds on both COX-1 and COX-2 active sites using MOE 2014 drug design software
- Performing prediction of physico-chemical properties using SwissADME drug design website

#### **PUBLICATIONS**

## **Curriculum Vitae**

- G.M. Sadiq, A.M. Mohassab, M. Abdel-Aziz, G.E.-D.A. Abuo-Rahma, Amidoximes and their Cyclized Analogue Oxadiazoles as New Frontiers in Chemical Biology: Mini Review, Lett. Drug Des. Discov. 22 (2024). https://doi.org/10.2174/0115701808349648241204054857.
- A. Abdelraheem, O. Aly, M. Ahmed, A.M. Mohassab, HDAC as a cancer target: various scaffold. Based HDAC inhibitors and overview of their advances, Octahedron Drug Res. 0 (2024) 0–0. https://doi.org/10.21608/odr.2024.274567.1037.
- A.M. Mohassab, H.A. Hassan, H.A. Abou-Zied, M. Fujita, M. Otsuka, H.A.M. Gomaa, B.G.M. Youssif, M. Abdel-Aziz, Design and synthesis of new quinolineester/-amide derivatives as potent antiproliferative agent targeting EGFR and BRAFV600E kinases, J. Mol. Struct. 1297 (2024) 136953. https://doi.org/10.1016/j.molstruc.2023.136953.
- A.M. Mohassab, H.A. Hassan, D. Abdelhamid, A.M. Gouda, H.A.M. Gomaa, B.G.M. Youssif, M.O. Radwan, M. Fujita, M. Otsuka, M. Abdel-Aziz, New quinoline/1,2,4-triazole hybrids as dual inhibitors of COX-2/5-LOX and inflammatory cytokines: Design, synthesis, and docking study, J. Mol. Struct. 1244 (2021) 130948. https://doi.org/10.1016/j.molstruc.2021.130948.
- A.M. Mohassab, H.A. Hassan, D. Abdelhamid, A.M. Gouda, B.G.M. Youssif, H. Tateishi, M. Fujita, M. Otsuka, M. Abdel-Aziz, Design and synthesis of novel quinoline/chalcone/1,2,4-triazole hybrids as potent antiproliferative agent targeting EGFR and BRAFV600E kinases, Bioorganic Chem. 106 (2021) 104510. https://doi.org/10.1016/j.bioorg.2020.104510.
- T.S. Kaoud, A.M. Mohassab, H.A. Hassan, C. Yan, S.X. Van Ravenstein, D. Abdelhamid, K.N. Dalby, M. Abdel-Aziz, NO-releasing STAT3 inhibitors suppress BRAF-mutant melanoma growth, Eur. J. Med. Chem. 186 (2020) 111885. https://doi.org/10.1016/j.ejmech.2019.111885.
- A.M. Mohassab, H.A. Hassan, D. Abdelhamid, M. Abdel-Aziz, STAT3 transcription factor as target for anti-cancer therapy, Pharmacol. Rep. 72 (2020) 1101–1124. https://doi.org/10.1007/s43440-020-00156-5.
- [Poster] Heba S. Abd-Ellah, Aliaa M. Mohassab, Mai E. Shoman, Eman A. Beshr, H.A. Hassan, Dalia Abdelhamid, Mohamed Abdel-Aziz, Al-Shaimaa F. Ahmed, Kevin N. Dalby, Tamer S. Kaoud "Design, Synthesis and Biological Evaluation of Novel NSAIDs with Improved Gastrointestinal Safety Profile ", submitted abstract for the 255<sup>th</sup> ACS National Meeting, New Orleans, LA, March 18-22, 2018, abstract ID: 2862180.
- A.M. Mohassab, H.A. Hassan, D. Abdelhamid, M. Abdel-Aziz, K.N. Dalby, T.S. Kaoud, Novel quinoline incorporating 1,2,4-triazole/oxime hybrids: Synthesis, molecular docking, anti-inflammatory, COX inhibition, ulceroginicity and histopathological investigations, Bioorganic Chem. 75 (2017) 242–259. doi:10.1016/j.bioorg.2017.09.018.

#### EDUCATION AND TRAINING

(January 2021)	PhD degree of Pharmaceutical Sciences "Medicinal Chemistry" Faculty of Pharmacy, Minia University, Egypt
	Thesis entitled: "Design and Synthesis of Novel Quinoline Analogues with Expected Anticancer and Anti-inflammatory activities"
(January 2019-December 2019)	PhD Joint Supervision funded by EJEP-HRDP in Medicinal and Biological Chemistry Science Farm Joint Research Laboratory
	Faculty of Life Sciences. Kumamoto University. Japan

## **Curriculum Vitae**

#### (March 2017) Master degree of Pharmaceutical Sciences "Medicinal Chemistry"

Faculty of Pharmacy, Minia University, Egypt

**Thesis entitled:** "Design and Synthesis of Novel Quinoline Incorporating 1,2,4-Triazole Derivatives and Their Nitric Oxide Donor Analogues as Potential Anticancer and Anti-inflammatory Agents"

Principal Master courses (2014-2015):

- Instrumental analysis for chemical compounds
- Physical chemistry
- Mathematical and biostatistics
- Computer sciences
- Advanced medicinal chemistry
- Advanced organic chemistry
- Advanced pharmaceutical chemistry

#### (July 2007)

# Bachelor degree of Pharmaceutical Sciences "Graded Excellent with honors"

Faculty of Pharmacy, Minia University, Egypt

#### Conferences

(25-26 September 2024) (12-13 December 2023)

- Future Approaches in Pharmaceutical Sciences, Faculty of Pharmacy, Minia University
- The 3rd international Conference on Pharmaceutical, Biological Sciences and Applied Chemistry, Faculty of Pharmacy, Deraya University

### PERSONAL SKILLS

Mother tongue(s)	Arabic
English	Excellent written and spoken (ILETS 6.5)
Computer	Excellent in Mac OS, Windows, Office (word, excel, power point), Endnote, Zotero, and GraphPad Prism
Job-related skills	<ul> <li>Ability to communicate with different kinds of students and research colleges</li> <li>Having a good lab skills (various purification and separation techniques as Thin Layer Chromatography (TLC), column chromatography, refluxing, and filtration</li> <li>Good experience in working on different lab equipments and apparatuses such as NMR apparatus ( Bruker spectrometer), FT-IR, Rotary Evaporator, melting point apparatusetc.</li> <li>Ability to work under pressure and team working</li> <li>Experience in distant education and developing E-curriculum</li> </ul>
Quality Assurance	
2022 and 2024	<ul> <li>Coordinator of the Faculty of Pharmacy for the Egypt Government Excellence Award</li> </ul>
2021-2022	Vice-director of Quality Assurance Unit
Awards	
	International Scientific Publishing Award 2021-Minia University
	International Scientific Publishing Award 2020-Minia University
WORKSHOPS	
	Science research ethics
	Statistical analysis using SPSS
	<ul> <li>Searching global databases and managing scientific references (Endnote)</li> </ul>
	Using technology in teaching
	ICTP (VVord, Excel, Power point)
	<ul> <li>Exam systems and students evaluation</li> </ul>
	Effective presentation
	Quality standards in teaching process
REFEREES	Communication skills in education process

## Aliaa Mohassab

## **Curriculum Vitae**

#### Prof. Dr. Masami Otsuka

Visiting professor at Medicinol ond Biologicol Chemistry Deportment-Science Form Joint Research, Groduote School of Phormoceuticol Sciences, Kumomoto 862-0973, Jopon E-mail: motsuko@gpo.kumomoto-u.oc jp

#### Prof. Dr. Mohamed Abdel-Aziz Mohamed Osman

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#### Prof. Dr. Gamal El-Din Abo-Rahma

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