



# FACULTY FULL NAME: Mohamed Sayed Mohamed Mansour

POSITION: Associate professor

## Personal Data

Nationality | Egyptian

Date of Birth | November/01/1975

Department | Clinical Pharmacy (Pharmaceutical Chemistry)

Official UoD Email | msmmansour@iau.edu.sa

Office Phone No. | 35573

## Language Proficiency

Language	Read	Write	Speak
Arabic	Excellent	Excellent	Very good
English	Excellent	Excellent	Excellent
Others			

## Academic Qualifications (Beginning with the most recent)

Date	Academic Degree	Place of Issue	Address
02/2008	PhD	Cardiff University	Great Britain
10/2003	Master	Suez canal University	Egypt
05/1998	Bachelor	Suez canal University	Egypt

## PhD, Master or Fellowship Research Title: (Academic Honors or Distinctions)

PhD	Design and synthesis of some CYP 26 and CYP 24 inhibitors for the treatment of breast and prostate cancer
Master	Spectrophotometric and chromatographic analysis of some cardiovascular and anti-inflammatory drugs
Fellowship	Optimization of CYP 26 inhibitors as indirect differentiating agents for the treatment of neuroblastoma.



### Professional Record: (Beginning with the most recent)

Job Rank	Place and Address of Work		Date
Associate professor		Imam abdulrahman university	15/03/2017 Present
Professor		Suez canal university	01/10/2018 Present
Associate professor		Suez canal university	31/05/2013 30/09/2018
Assistant professor		Suez canal university	28/05/2008 30/05/2013

### Administrative Positions Held: (Beginning with the most recent)

Administrative Position	Office	Date
Head of the quality of assessment and examination Unit	IAU	03/2018 to present
Member of the Scientific Council	IAU	09/2021-09/2023
Member of the Scientific Publication Award Committee	IAU	09/2021-03/2024
Member of the College Council	College of Clinical Pharmacy IAU	09/2021-09/2023
Coordinator of the Chemistry department	IAU	03/2018-03/2019
Acting (Founding) head of the pharmacy practice department	Suez canal university	10/2015
Head of the IT unit	Suez canal university	10/2015

### Scientific Achievements

#### Published Refereed Scientific Researches

(In Chronological Order Beginning with the Most Recent) (Selections)

#	Name of Investigator(s)	Research Title	Publisher and Date of Publication
	Mohamed S. Gomaa, Wael G. Gad, Dania A. Hussein, Faheem H. Potto, Nada Z. Tawfeeq, Mansour S. Alturki, Razan A. Alanazi, Dhay Z.	Sulfadiazine Exerts Potential Anticancer Effect in HepG2 and MCF7 Cells by Inhibiting TNF $\alpha$ , IL1b, COX-1, COX-2, 5-LOX Gene Expression: Evidence from In Vitro and Computational Studies	<i>Pharmaceuticals</i> 2024, 17(2), 189; <a href="https://doi.org/10.3390/ph17020189">https://doi.org/10.3390/ph17020189</a> .



Alfahad, Ismail A. Salama, M. A. Aziz, A. A. Zahra, A. A. Hanafy		
Dania Hussein, Abdullah Almatrafi, Mohammed Gomaa, AlAnood Alhowsawi, Sarah Almustafa, Hadi Alsaihaty, Manar Alghamdi	In silico drug repurposing using molecular docking and dynamics to target the protein interaction between the SARS-CoV-2 S- glycoprotein and the ACE2 receptor	<i>F1000, [version 1; peer review: 1 approved with reservations.]</i>
Abdulmalik Alqarni, Ahmed Mostafa, Heba Shaaban, Mohamed S. Gomaa, Danyah Albashrayi, Batool Hasheeshi, Nujud Bakhashwain, Atheer Aseeri, Abdulaziz Alqarni, Abdulgani Alamrid and Mohammad A. Alrofaidie	Development and optimization of natural deep eutectic solvent- based dispersive liquid-liquid microextraction coupled with UPLC-UV for simultaneous determination of parabens in personal care products: evaluation of the ecofriendliness level of the developed method	<i>RSC Advances, 2023, 13, 13183.</i>
F.H. Pottoo, M. Salahuddin, F.A. Khan, W.J. Alsaeed, B.T., Albaqshi, J.Ur. Rahman, M.S. Gomaa, I.A. Salama, M.N. Alomary, S. Beigh	Therapeutic enhancing potential of Piracetam with Diethylstilbestrol in prevention of grandmal seizures in rats: Inhibition of PI3K/Akt/mTOR signaling pathway and IL-1 $\beta$ , IL-6, TNF- $\alpha$ cytokines levels	<i>European Review for Medical and pharmacological Sciences, 2023 May;27(10):4735-4751. doi: 10.26355/eurrev_202305_32485.</i>
Mohamed S. Gomaa, Ibrahim A. I. Ali, Gaber El Anany, El Sayed H. El Ashry, Samir M. El Rayes, Walid Fathalla, Abdulghany H. A. Ahmed, Samar A. Abubshait, Haya A. Abubshait, and Mohamed S. Nafie	Facile Synthesis of Some Coumarin Derivatives and Their Cytotoxicity through VEGFR2 and Topoisomerase II Inhibition	<i>Molecules, 2022, 27, 8279. <a href="https://doi.org/10.3390/molecules27238279">https://doi.org/10.3390/molecules27238279.</a></i>
Mohamed S. Gomaa, Gaber El Anany, Walid Fathalla, Ibrahim A. I. Ali, and Samir. M. El Rayes	Transformation of Amides to Thioamides Using an Efficient and Novel Thiating Reagent	<i>Molecules, 2022, 27, 8275. <a href="https://doi.org/10.3390/molecules27238275">https://doi.org/10.3390/molecules27238275.</a></i>
Samar A. Abubshait, Haya A. Abubshait, Rasha Almalih, Mohamed S. Gomaa, Muhammad Nawaz, Ibtisam M. Ababutain, and Azzah I. Alghamdi	Microwave-Assisted Synthesis of Phthalazinone Derivatives with Biological Activity and In Silico Antiproliferative Studies	<i>ChemistrySelect, 2022, e202203925. <a href="https://doi.org/10.1002/slct.202203925">doi.org/10.1002/slct.202203925.</a></i>



<p>Amani A.S. Abdelaziz, Muhammad Nawaz, Ishraga Izzeldin, HayaA. Abubshait, Ahmed Alsadig, M.S. Gomaa, Samar A. Abubshait, Donya Alsewdan</p>	<p>Molecular docking and Anticancer Activity of Some Synthesized 1,4- naphthoquinone Derivatives against Human Cancer Cell Line</p>	<p><i>Journal of Molecular Structure</i>, 2022, 1275, 134702. <a href="https://doi.org/10.1016/j.molstruc.2022.134702">https://doi.org/10.1016/j.molstruc.2022.134702</a>.</p>
<p>Samir Mohamed El Rayes, Gaber El-Enany, Mohamed Sayed Gomaa, Ibrahim A. I. Ali, Walid Fathalla, Faheem Hyder Pottoo, and Firdos Alam Khan</p>	<p>Convenient Synthesis of N-Alkyl-2-(3-phenyl-quinoxalin-2-ylsulfanyl)acetamides and Methyl-2-[2-(3-phenyl-quinoxalin-2-ylsulfanyl)acetylamino]alkanoates</p>	<p><i>ACS Omega</i>, 2022, 7, 34166–34176. <a href="https://doi.org/10.1021/acsomega.2c03522">https://doi.org/10.1021/acsomega.2c03522</a>.</p>
<p>Faheem Hyder Pottoo, Mohammed Salahuddin, Firdos Alam Khan, Batool Taleb Albaqshi, Mohamed S. Gomaa, Fatima S. Abdulla, Noora AlHajri, and Mohammad N. Alomary</p>	<p>Trio-Drug Combination of Sodium Valproate, Baclofen and Thymoquinone Exhibits Synergistic Anticonvulsant Effects in Rats and Neuro-Protective Effects in HEK-293 Cells</p>	<p><i>Current Issues in Molecular Biology</i>, 2022, 44, 4350–4366. <a href="https://doi.org/10.3390/cimb44100299">https://doi.org/10.3390/cimb44100299</a>.</p>
<p>Faheem Hyder Pottoo, Mohammed Salahuddin, Firdos Alam Khan, Marwa Abdullah AL Dhamen, Walaa Jafar Alsaeed, Mohamed S. Gomaa, Chittibabu Vatte, and Mohammad N. Alomary</p>	<p>Combinatorial Regimen of Carbamazepine and Imipramine Exhibits Synergism against Grandmal Epilepsy in Rats: Inhibition of Pro-Inflammatory Cytokines and PI3K/Akt/mTOR Signaling Pathway</p>	<p><i>Pharmaceuticals</i>, 2021, 14, 1204. <a href="https://doi.org/10.3390/ph14111204">https://doi.org/10.3390/ph14111204</a>.</p>
<p>Faheem Hyder Pottoo, Mohammed Salahuddin, Firdos Alam Khan, Fadhel Alomar, Marwa Abdullah AL Dhamen, Abrar Fouad Alhashim, Hawra Hussain Alqattan, Mohamed S. Gomaa, and Mohammad N. Alomary</p>	<p>Thymoquinone Potentiates the Effect of Phenytoin against Electroshock-Induced Convulsions in Rats by Reducing the Hyperactivation of m-TOR Pathway and Neuroinflammation: Evidence from In Vivo, In Vitro and Computational Studies</p>	<p><i>Pharmaceuticals</i>, 2021, 14, 1132. <a href="https://doi.org/10.3390/ph14111132">https://doi.org/10.3390/ph14111132</a>.</p>
<p>A. Aboelmagd, S. M. El Rayes, Gomaa M. S., Ibrahim A. I. Ali, Walid Fathalla, F. H. Pottoo,</p>	<p>Synthesis and antiproliferative activity of new N-allyl quinoxalinecarboxamides and their O-regioisomer</p>	<p><i>New Journal of Chemistry</i>, 2021,45, 831-849. DOI: 10.1039/D0NJ03672B.</p>



Firdos A. Khan, Prof. Mohamed E. Khalifa		
Ahmed Aboelmagd, Samir M. El Rayes, Mohamed S. Gomaa, Walid Fathalla, Ibrahim A. I. Ali, Mohamed S. Nafie, Faheem H. Pottoo, Firdos Alam Khan, and Mohamed M. Ibrahim	Synthesis and Cytotoxic Activity of Novel Metal Complexes Derived from Methyl-3-(4-chlorophenyl)-3-hydroxy-2,2-dimethylpropanoate as Potential CDK8 Kinase Inhibitors	<i>ACS Omega</i> , 2021, 6, 5244-5254. <a href="https://doi.org/10.1021/acsomega.0c05263">https://doi.org/10.1021/acsomega.0c05263</a> .
Samir M. El Rayes, Ahmed Aboelmagd, <b>Mohamed S. Gomaa</b> , Walid Fathalla, Ibrahim A. I. Ali., Faheem H. Pottoo, Firdos Alam Khan.	Newly synthesized 3-(4-chlorophenyl)-3-hydroxy-2,2-dimethylpropionic acid methyl ester derivatives selectively inhibit the proliferation of colon cancer cells.	<i>RSC Advances</i> , 2020, 10, 8825.
Samir El-Rayes, <b>Gomaa M. S.</b> , Abouelmagd A., Walid Fathalla, Ibrahim. A. I. Ali	Synthesis and antiproliferative assay of triazolyl-2,2-dimethyl-3-phenylpropanoates as potential HDAC inhibitors	<i>RSC Advances</i> , 2019, 9, 13896-13907
Ahmed T.A. Boraiea, Hanaa K. Ashoura, El Sayed H. El Tamanya, Nahla Abdelmoatya, Abdullah I. El-Faloujib, <b>Mohamed S. Gomaa</b> , ,	Design and synthesis of new phthalazine-based derivatives as potential EGFR inhibitors for the treatment of hepatocellular carcinoma	<i>Bioorganic Chemistry</i> , 2019, 85, 293-307.
Ahmed T.A. Boraiei, <b>Mohamed S. Gomaa</b> , El Sayed H. El Ashry, Axel Duerkop	Design, selective alkylation and X-ray crystal structure determination of dihydro-indolyl-1,2,4-triazole-3-thione and its 3-benzylsulfanyl analogue as potent anticancer agents	<i>European Journal of Medicinal Chemistry</i> , 2017, 125, 360-371
Khalid M. Darwish, Ismail Salama, Samia M. Mostafa, <b>Mohamed S. Gomaa</b> , Mohamed A. Helal	Design, Synthesis, and Biological Evaluation of Novel Thiazolidinediones as PPAR $\gamma$ /FFAR1 Dual Agonists	<i>European Journal of Medicinal Chemistry</i> , 2016, 15;109, 157-72
Patrick N. Stoney, Yara D. Fragoso, Reem Bu Saeed, Anna Ashton, Timothy Goodman, Claire Simons, <b>Mohamed S. Gomaa</b> , Angelo Sementilli, Leonardo Sementilli, Alexander W. Ross,	Expression of the retinoic acid catabolic enzyme CYP26B1 in the human brain to maintain signaling homeostasis	<i>Brain Structure and Function</i> , 2016 pp. 1-12. (10.1007/s00429-015-1102-z)



Peter J. Morgan, Peter J. McCaffery		
Nermeen A. Eltahawy, Amany K. Ibrahim, Mohamed M. Radwan, Sawsan A. Zaitone, <b>Mohamed Gomaa</b> , Mahmoud A. ElSohly, Hashim A. Hassanean, Safwat A. Ahmed	Mechanism of action of antiepileptic ceramide from Red Sea softcoral Sarcophyton auritum	Bioorganic and Medicinal Chemistry Letters, 2015, 25, 5819-5824
Salvatore Ferla, <b>Mohamed S Gomaa</b> , Andrea Brancale, Jinge Zhu, Justin T Ochalek, Hector F DeLuca, Claire Simons	Novel styryl-indoles as small molecule inhibitors of 25-hydroxyvitamin D-24-hydroxylase (CYP24A1): Synthesis and biological evaluation	European Journal of Medicinal Chemistry, 2014, 87, 39-51

### Refereed Scientific Research Papers Accepted for Publication

#	Name of Investigator(s)	Research Title	Journal	Acceptance Date

### Scientific Research Papers Presented to Refereed Specialized Scientific Conferences

#	Name of Investigator(s)	Research Title	Conference and Publication Date

### Completed Research Projects

#	Name of Investigator(s) (Supported by)	Research Title	Report Date
	Mohamed Gomaa, Samir Alrayes, Ibrahim Ali, Walid Fatthallah (STDF, Egypt)	Optimisation of a lead compound for clinical development for the treatment of breast cancer and neuroblastoma	2017
	Mohamed Gomaa, Abdullah I. Al-falouji (Ministry of higher education, Egypt)	Novel Aspirin-nitric oxide releasing metal complexes, a new class of effective chemotherapeutic agents	2015
	Mohamed Gomaa, Claire Simons, Caroline E. Bridgens, Gareth J. Veal, Christopher P. F.	Development of CYP26 inhibitors to optimize the treatment of neuroblastoma with retinoic acid	2010



Redfern, Andrea Brancale, Jane L. Armstrong (Cancer research, UK)		
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### Current Researches

#	Research Title	Name of Investigator(s)
	Development of a prototype for selective dual CYP26/EGFR inhibition with improved target selectivity for the treatment of cancer	Mohamed Gomaa, Faheem Potto, Firdos Ahmed, Samir Alrayes, Ibrahim Ali, Walid Fatthallah
	Design and synthesis of novel chemotherapeutic agents for the treatment of prostate cancer	Mohamed Gomaa, Faheem Potto, Firdos Ahmed, Samir Alrayes, Ibrahim Ali, Walid Fatthallah
	Molecular hybridization strategies for the design and synthesis of more selective anticancer agents	Mohamed Gomaa, Faheem Potto, Firdos Ahmed, Samir Alrayes, Ibrahim Ali, Walid Fatthallah

### Contribution to Scientific Conferences and Symposia

#	Conference Title	Place and Date of the Conference	Extent of Contribution
	3 <sup>rd</sup> FUE International Conference of Pharmaceutical Sciences	February 9-11, 2015, Cairo, Egypt	Keynote speaker
	4 <sup>th</sup> International Conference on Pharmaceutical Sciences	January 21-23, 2015, Dubai, UAE	Keynote speaker

### Membership of Scientific and Professional Societies and Organizations

- American chemical society
- Royal society of chemistry

### Teaching Activities

#### Undergraduate

#	Course/Rotation Title	No./Code	Extent of Contribution (no. of lectures/Tutorials. Or labs, Clinics)
	Medicinal Chemistry I	PHCH302	Teaching all course (3 credit hours)
	Medicinal Chemistry II	PHCH308	Teaching all course (3 credit hours)
	Drug design	PHCH414	Teaching all course (2 credit hours)
	Medicinal Chemistry III	PHCH403	Teaching all course (3 credit hours)



Biochemistry I	BIOCH204	Teaching all course (2 credit hours)
Biochemistry II	BIOCH209	Teaching all course (2 credit hours)

**Brief Description of Undergraduate Courses Taught: (Course Title – Code: Description)**


**Postgraduate**

#	Course/Rotation Title	No./Code	Extent of Contribution (no. of lectures/Tutorials. Or labs, Clinics)
1	Reactions and reagents in modern organic synthesis		Teaching all course (3 credit hours)
2	Chromatographic drug analysis		Teaching all course (3 credit hours)

**Brief Description of Postgraduate Courses Taught: (Course Title – Code: Description)**

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2	

**Course Coordination**

#	Course Title and Code	Coordinati on	Co-coordination	Undergr ad.	Postgrad .	From	To
	Medicinal chemistry I	√		√		2008	2023
	Medicinal chemistry II	√		√		2008	2023
	Drug design	√		√		2008	2024
	Medicinal chemistry III	√		√		2008	2023
	Biochemistry I	√		√		2023	2024
	Biochemistry II	√		√		2003	2024
	Reactions and reagents in modern organic synthesis	√			√	2008	2017
	Chromatographic drug analysis	√			√	2008	2017





### Guest/Invited Lectures for Undergraduate Students

#	Activity/Course Title and Code	Subject	College and University or Program	Date

### Student Academic Supervision and Mentoring

#	Level	Number of Students	From	To
	Head of questionnaire committee		2015	2017
	Academic advisor for second year students(SCU)	21	2010	2013
	Academic advisor for second year students (IAU)	7	2018	2019

### Supervision of Master and/or PhD Thesis (selections)

#	Degree Type	Title	Institution	Date
	PhD	Khaked Darwish Title: Design and synthesis of novel dual PPAR $\alpha$ andy agonists for the control of hyperglycaemia and hyperlipidemia	Suez canal university	2016
	PhD	Safaa Kishk Title: Targeting Mycobacterium Tuberculosis Cytochrome P450 CYP121 Through Drug Design and Biochemical Studies	Suez Canal Univesity	2016
	Master	Ahmed Ibrahim Title: Design and synthesis of beta secretase inhibitors as potential anti-alzeheimer agents	Suez canal university	2016



	<b>Master</b>	Asmaa Ata Title: Analysis of some antihistaminics, anti-inflammatory, and cardiovascular drugs	<b>Suez canal university</b>	<b>2016</b>
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### Ongoing Research Supervision (selections)

#	Degree Type	Title	Institution	Date

### Administrative Responsibilities, Committee and Community Service (Beginning with the most recent)

#### Administrative Responsibilities

#	From	To	Position	Organization
	<b>03/2018</b>	<b>Present</b>	Head of the quality of assessment and examination Unit	IAU
	<b>03/2019</b>	<b>Present</b>	Curriculum developer (member of the curriculum committee)	IAU
	<b>03/2018</b>	<b>03/2019</b>	Coordinator of the Chemistry department	IAU
	<b>2015</b>	<b>2016</b>	Acting head of the department of pharmacy practice	Faculty of pharmacy Suez Canal University
	<b>2015</b>	<b>2016</b>	Head of the IT unit	Faculty of pharmacy Suez Canal University
	<b>2015</b>	<b>2016</b>	Head of strategic planning quality assurance unit	Faculty of pharmacy Suez Canal University

#### Committee Membership

#	From	To	Position	Organization

#### Scientific Consultations

#	From	To	Institute	Full-time or Part-time
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### Volunteer Work

#	From	To	Type of Volunteer	Organization

### Personal Key Competencies and Skills: (Computer, Information technology, technical, etc.)

1	Professor of Medicinal Chemistry with more than 20 years of hands-on teaching and research experience in academia and industry sponsored projects and administrative and leadership positions.			
2	Expert in teaching medicinal chemistry, organic chemistry and drug design subjects both to undergraduate and postgraduate pharmacy students. Good experience in administrative work and leadership positions as department head and head and member of several committees at different organizations.			
3	Highly skilled in Synthetic medicinal chemistry including lead development and lead optimisation, for in vivo testing and clinical development in industrial driven and sponsored projects especially in the field of heterocyclic chemistry and small molecules chemistry as well as development of inhibitors for key enzymes involved in the pathogenesis of cancer High capability of solving synthetic challenges and implementation of optimal synthetic routes to prepare desired compounds together with good knowledge of modern organic reactions			
4	Expert in the field of molecular modelling including homology modelling, docking studies, rational drug design using structure-based (eg. Virtual screening) and ligand-based (eg. Pharmacophore search) techniques, QSAR studies Expert in using different drug design and molecular modelling software including SYBYL, MOE, Schrodinger, MolSoft, AutoDock, Gold, Ligbuilder software Extensive experience in conducting Structure Activity Relationship (SAR) studies on hits generated from various biochemical screens; to design and prepare new molecules to improve the potency and properties of screening hits			
5	Good experience in execution and running of small molecule biology screens and handling of different types of cancer cell lines in the biological evaluation of synthesized chemical compounds through different reported procedures			
6	Good experience in spectrophotometric characterization and analysis of medicinal compounds using different techniques including metal chelation, ion pairing and other coupling chemical reactions. Derivative spectrophotometry with good experience in stability testing and method validation. Expert in HPLC separation and analysis of medicinal agents in dosage forms and biological fluids			
7	Adept in SciFinder Scholar, Beilstein/Gmelin (REAXYS), ACDlab, ChemDraw			



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## Last Update

01/04/2024