



## **Curriculum Vitae**

**Name:** Farghaly Abdelhamid Omar Osman

**Professor of Medicinal Chemistry**

**Nationality:** Egyptian

**Birth date:** 03.05.1951 (Sohag/Egypt)

**Social status:** Married

**Current Address:**

**Assiut University**

**Faculty of Pharmacy**

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**Google Scholar:**

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### **Scientific qualifications and employments:**

1) B.Sc. Pharm. Sci. (Assiut university; June 1974).

2) M.Sc. Pharm. Chem. (Assiut University; May 1979).

**“Synthesis of Some Nitrobenzimidazole Acrylic Acid Derivatives of potential Antiparasitic Activity”.**

3) Ph. D. Studies; Bonn University (1982 – 1987)

4) Ph. D. Pharm. Chem. [Bonn University (Germany); March 1987]

**“Die Asymmetrische Synthese von GABA-verwandeter Cycloaliphatischer Aminosäuren und bicyclische Lactame”**

5) Lecturer of Pharmaceutical Chemistry (June 1987); Dept. of Pharmaceutical Chemistry; Faculty of Pharmacy, Assiut University.

6) Research fellowship: Center for drug Discovery; Faculty of Pharmacy; Florida University (Gainesville/Florida- USA 1992).

7) Associate Professor of Pharm. Chem. (June 1994)

8) Professor of Medicinal Chemistry (September 1999).

9) Head of the Department of Pharmaceutical and Medicinal Chemistry; Assiut University

- (Sept. 1999 – Sept. 2000)
- 10) Director of the Center for Drug Discovery/Assiut University (Nov. 1999 – Oct. 2004).
  - 11) Vice Dean of Faculty of Pharmacy/ Assiut University (for students and education affairs (Oct. 2000 – Oct. 2004).
  - 12) Professor of medicinal chemistry, Addis Ababa University, Addis Ababa/ Ethiopia (October 2004 – July 2005).
  - 13) Professor of medicinal Chemistry, King Khalid University, Abha/kingdom of Saudi Arabia (October 2005 – July 2010).
  - 14) Coordinator of the department of pharmaceutical chemistry, College of Pharmacy, King Khalid University (October 2007 – July 2010).
  - 15) Head of the Department of Medicinal Chemistry; Faculty of Pharmacy; Asyut university (Oct. 2010 – Jul. 2011).
  - 16) Emeritus Professor at Department of Medicinal Chemistry; Faculty of Pharmacy; Asyut University (May 2011)
  - 17) Professor of pharmaceutical Chemistry (Part time), Nahda university, Beni-suif (2012-2013).
  - 18) Head of the Department of Pharmaceutical Chemistry; October 6 University (Oct. 2013 – Aug. 2018).

#### **Professional and Social Activities:**

- 1) Member of the Egyptian Pharmacist Syndicate
- 2) Member of the Egyptian Pharmaceutical Society.
- 5) Participant of several conferences for Pharmaceutical Sciences in Egypt; Jordan; Saudi Arabia; Germany; USA and Austria .
  - 1) Symposium on " Naturstufe als Leitsubstanzen fuer neue Arzneistufe" Deutsche Pharmazeutische Gesellschaft, Bonn/Germany 18 -19 March 1988.
  - 2) Conference of the American Chemical Society, Chicago, USA, Feb. 1992. XXII
  - 3) XXII Conference of pharmaceutical Sciences, the Egyptian Pharm. Society, Cairo/Egypt Dec. 17 – 19 (1991).
  - 4) XXIV Conference of pharmaceutical Sciences, The Egyptian Pharmaceutical Society, Cairo/Egypt (Dec. 22 – 24 (1994).
  - 5) Egyptian-German Conference on Medicinal Plants, Assiut/Egypt Nov. 27(1995).
  - 6) Workshop on Environmental Pollution and health problems, Faculty of Medicine/ Asyut University, Assiut/Egypt, May 18 – 23 (1996).
  - 7) Training courses on Electron microscopy (Technique and Applications), Asyut University, Asyut/Egypt March 30 – April 4 (1996).
  - 8) Symposium on "Antioxidants in medical practice" faculty of Medicine, Asyut University, Asyut/Egypt (Nov. 5<sup>th</sup> (1996).
  - 9) Training Courses in Molecular Biology, Molecular biology and genetic engineering center, Asyut University, Asyut/Egypt May, 3 – 6 (1997).
  - 10) Assiut University 1<sup>st</sup> International Conferenc of Pharmaceutical Sciences, Asyut/ Egypt March 4 – 5 (1998).
  - 11) XIV Wissenschaftliche Tagung der Oesterreichischen Pharmazeutischen Gesellschaft, Graz/Austeria June 11 – 13 (1998).

- 12) Assiut University 2<sup>nd</sup> International Conference of Pharmaceutical Sciences, Asyut/Egypt, March 2- 4 (1998).
- 13) Asyut University 3<sup>rd</sup> International Conference of Pharmaceutical Sciences, Asyut/Egypt March 4 – 5 (2002).
- 14) Symposium on "Red Sea Marine plants as Natural Leads for new Drugs" Faculty of Pharmacy, Suez canal University, Ismailia/Egypt Dec. 3 – 5 (2003).
- 15) Asyut University 4<sup>th</sup> International Conference of Pharmaceutical Sciences, Assiut/Egypt, March 4 – 5 (2004).
- 16) The 7<sup>th</sup> International Saudi Pharmaceutical Conference; 19-21 March (2007); Riyadh, Saudi Arabia
- 17) Workshop on "**Conducting Initial Quality Evaluation**" 17<sup>th</sup> April 2007; Centre for Academic Assessment and Development; KKU; Abha/ Saudi Arabia.
- 18) Workshop on "**Multiple Choice Questions**" 19<sup>th</sup> April 2007; Medical Education Development Centter (MEDC); Abha/Saudi Arabia.
- 19) Training program on "Academic leadership" 1 – 3 Nov. 2009; Abha/ Saudi Arabia.
- 20) Training programs on "E-Learning" King Khalid university; Abha/Saudi Arabia (2009).
- 21) Coordinator of the following committees of faculty of pharmacy – King Khalid university; Abha/Saudi Arabia:
  - a) Committee of training program for graduated pharmacists.
  - b) Committee of the study plan and courses.
  - c) Committee of Academic Accreditation and Quality Assessment.

## **22) Reviewer in several Journals and Bulletins:**

- Bulletin of Pharmaceutical Sciences; Assiut University.
- Journal of Pharmaceutical Sciences, Cairo University.
- Al-Mansoura University Scientic Award.
- Saudi Pharmaceutical Journal.
- Spectrochimica Act Part A: Biomolecular Spectroscopy.
- King AbdulAziz University; Deanship of Scientific Research.
- Portugese Foundation for Science and Technology.
- Scientific Reports.
- Chemistry Select.
- Bioorganic Chemistry.
- Chemical Diversity.
- BMC

## **Teaching Activities:**

Teaching of the different topics of Medicinal chemistry for the graduate and postgraduate students in the Faculties of Pharmacy, Assiut University, Tanta University (1999/2000), and Al-Azhar University (Assiut), Addis Ababa University/ Ethiopia, and King Khaled University, Abha/KSA.

Good experience in applications and teaching medicinal Chemistry through E-Learning.

The teaching courses include the following topics:

### **1) Medicinal Chemistry:**

Chemotherapeutic agents, Analgesics and Antiinflammatory drugs, GIT drugs, Hormones and Vitamins, CNS drugs, Drugs affecting the autonomic nervous system, Cardiovascular drugs, Diuretics, Local and general anesthetics, Antihistaminics, Diagnostic agents, pharmaceutical aids, Drugs, Metabolism, Drug design, Biotechnology drugs.

**2) Drug Design and drug Development.**

**3) Pharmaceutical Organic chemistry:**

Structure and properties of organic compounds, mechanism of organic reactions, stereochemistry,

spectroscopic characteristics of organic molecules, structure elucidation of organic molecules using:

(UV; IR, NMR, and MS).

**4) Pharmaceutical Analytical Chemistry.**

**5) Instrumental Analysis.**

**6) Quality assurance and quality control of medicines.**

**7) Postgraduate courses:**

- 1) Designing organic synthesis.
- 2) Reaction mechanisms in organic synthesis.
- 3) Combinatorial chemistry.
- 4) Advanced NMR methods in structure elucidation.
- 5) Biochemical basis of drugs actions.
- 6) Drug Design
- 7) Chemical Aspects in Quality Assurance of Drugs.

**Reviews Articles and Books:**

- 1) Review Article on "Recombinant DNA Technology in Drug Discovery", Asyut University September 1999.
- 2) Review Article on "Peptidomimetics and their Applications in Drug Design" Assiut University, September, September 2001.
- 3) Topics in Medicinal Chemistry vol. I and II.
- 4) Practical Pharmaceutical Chemistry vol. I and II.

**Research Activities**

- 1) Drug Design
- 2) Asymmetric Synthesis of biologically active substances
- 3) Design and synthesis of Prodrugs of Non-Steroidal anti-inflammatory agents with improved therapeutic index.
- 4) Synthesis and Design of biologically active compounds including: NSAIDs; Antiparasitic agents; Antifungal agents.
- 5) Pharmacokinetic studies using HPLC.
- 6) Design and Synthesis of Dopamine Chemical Delivery system to the brain.
- 7) Design and synthesis of Cytrabine (Ara-C) prodrugs.
- 8) Quantitative-Structure Activity Relationship Studies of newly synthesized antitubercular agents.

9) Supervisor of several Theses for Master and Ph.D degrees in Assiut University and Al-Azhar University (Asyut).

**List of Thesis Supervised:**

- 1) Synthesis and investigation N<sup>4</sup>-substituted cytarabine derivatives as prodrugs. (Ph. D thesis, Asyut University 1994)
- 2) Design, synthesis and antidepressant activity of Some N<sup>2</sup>-substituted nalidixic acid hydrazides and their cyclized Analogues. (M. Sc thesis, Asyut University 1998)
- 3) Synthesis and antibacterial activity of some 2,5,7-triazolo[1,5-a]pyrimidines (M. Sc thesis, Asyut University 2002)
- 5) Design and synthesis of some p-substituted styrylisoxazole carboxylic acid derivatives as antiinflammatory agents. (M. Sc thesis, Assiut University 2004)
- 6) Comparative in vitro quality evaluation of tablets of commonly prescribed antiepileptic drugs, carbamazepine and phenobarbital, from drug retail outlets in Addis Ababa. (M. Sc thesis, Addis Ababa University 2005)
- 7) Comparative in vitro evaluation of antihypertensive drugs (Methyldopa, Furosemide, and propranolol) from local market, Addis Ababa (M. Sc thesis, Addis Ababa University)
- 7) Assessment on the quality and Influence of the tropical storage conditions on certain amoxicillin formulations marketed in Ethiopia. (M. Sc thesis, Addis Ababa University 8) Biotransformation studies of prednisone and prednisolone using human intestinal bacteria. (M. Sc thesis, Asyut University 2006).
- 9) Design Synthesis and Molecular Modelling study of some isoxazole derivatives as potential antitumor agents. (M. Sc thesis, Asyut University 2010).
- 10) Synthesis, Molecular Modeling Study and Antimicrobial Activity of Some 1,8-Naphthyridone Derivatives. (M. Sc thesis, Asyut Univ. 2016).
- 11) Synthesis, Molecular Modeling Study and Antimicrobial Activity of Some New Derivatives of 3-Triazolyl-1,8-Naphthyridone. (M. Sc thesis, Asyut Univ. 2017).
- 12) Design, synthesis and molecular modeling study of some thiazolidinone derivatives as NS5B polymerase inhibitors. (M. Sc. Thesis, O6U/Cairo university 2018).
- 13) Design, Synthesis and Molecular Modeling Study of Some New Isoxazole Derivatives with Potential Biological Activity. (M. Sc. Thesis, O6U/Cairo university 2021).
- 14) Design, synthesis and investigation of new norfloxacin derivatives with potential biological activities. (M. Sc thesis, Asyut Univ. 2023).
- 15) Synthesis, Biological Evaluation and Molecular Modeling Study of Novel Piperazine Derivatives as Potential Anti-Alzheimer's agents. (M. Sc thesis, Asyut Univ. 2023).