

# Curriculum Vitae

## Personal Data

**Name** *Gamal El-Din Ali Ahmed Hassan Abuo-Rahma*  
**Date of Birth** *09-02-1967*  
**Nationality** *Egyptian*

**Place of Birth** *Assiut*

**Marital Status** *Married +three*

**Military Services** *Exempted*

**Address** *Med. Chem. Dept., Faculty of Pharmacy,  
Minia University- 61519-Minia, Egypt.*

**Occupation** *Lecturer in Pharmaceutical Medicinal  
Chemistry*

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## Qualifications

**Doctor of Philosophy** In Pharmaceutical sciences (Pharmaceutical medicinal chemistry), Bonn University, Germany and Minia University Egypt, February 2004 (Channel System) titled "**Novel Diazeniumdiolates and Diazeniumdiolate Hybrids as Nitric Oxide Donors**" under supervision of Prof. Dr. Jochen Lehmann, Prof. Dr. Ali El-Emam, Prof. Dr. Mohamed Montasser Abdelhakeem, Dr. Mohammed Fouad Radwan.

**Master** In Pharmaceutical Sciences (Pharmaceutical medicinal chemistry), Faculty of Pharmacy, Assiut University, Assiut, Egypt: September 1998 titled: "**Preparation of Some Nalidixic acid hydrazides of Potential antidepressant activity**". Under supervision of Prof. Dr. Adel Fawzy Youssef, Prof. Dr. Farghaly A. Omar, Prof. DR. Hoseny El-sherief.

**Bachelor** in Pharmaceutical Sciences, Faculty of Pharmacy, Assiut University, Assiut, Egypt: May 1990, with the general grade: "**Very Good With the Degree of Honor**".

## Previous Designations

**Demonstrator** In Department of Pharmaceutical Chemistry, Faculty of Pharmacy, Al-Azhar University at Assiut from July 1994 to July 1999. This occupation entitles teaching undergraduate practical courses of pharmaceutical medicinal, organic and analytical chemistry and covering research work on the Master degree

**Associate lecturer** In department of Pharmaceutical chemistry, faculty of pharmacy, Al-Azhar University at Assiut since October 1998 to July 1999. Also this occupation includes both teaching undergraduate courses of pharmaceutical medicinal, organic and analytical chemistry.

**Associate lecturer** In department of medicinal chemistry, faculty of pharmacy, Minia University, Minia, Egypt, since July 1999 until March 2004. Also this occupation includes teaching undergraduate practical courses of organic and medicinal chemistry.

**Lecturer** In pharmaceutical medicinal chemistry from March 2004 till now. This occupation includes teaching undergraduate practical and theoretical courses in pharmaceutical medicinal chemistry and sharing in supervision on three master theses. Also, a lecturer for undergraduate students in the fields of pharmaceutical organic chemistry and organic spectroscopy courses.

In addition, a lecturer for postgraduate students in advanced medicinal chemistry, advanced organic chemistry and organic spectroscopy courses

## Research Experiences

- Design, synthesis, purification and analysis of organic compounds suspected to have pharmacological effects.
- Structural elucidation of various groups of synthesized products using spectroscopic techniques including IR, NMR, elemental analysis and MS.

- Biological study of the synthesized compounds by the help of others.
- A good experience in the field of nitric oxide donors chemistry especially diazeniumdiolates, nitrate esters, oximes, synthesis of diazeniumdiolates using NOtizer machine, synthesis of nitric oxide donating prodrugs and nitric oxide donating hybrids in the labs. of Prof. Dr. Jochen Lehmann in Germany from 1 March 2001 to 30 May 2003 .
- A good experience in design and synthesis of anticancer agents especially diazeniumdiolates, nitrones.
- Participation in the development of the NOtizer machine for the synthesis of diazeniumdiolates.
- Finished the supervision on three master theses.
- Co-supervisor in one Master and four PhD theses.

### **Language**

English: Fluent written and spoken.

German: To some extent written and spoken.

French: Fair written and spoken.

### **Meetings & Activities.**

1. Assiut Univ. 1<sup>st</sup> Pharm. Sci. Conference, Faculty of Pharmacy, Assiut, Egypt, March, 4-5, 1998.
2. Assiut Univ. 1<sup>st</sup> Pharm. Sci. Conference, Faculty of Pharmacy, Assiut, Egypt, March, 6-7, 2004.
3. XVIIth Platelet Meeting, Eberebach, Germany, October 10-12, 2002.
4. 2<sup>nd</sup> Nitric Oxide Meeting, Prag 2002.
5. Al-Azhar 4<sup>th</sup> International Conference for Pharmaceutical and biological Sciences, Cairo, 4-6 November 2006.
6. Passed the faculty and leadership development project (FLDP), P4, 2004.

7. Passed the faculty and leadership development project (FLDP), T1, 2005.
8. Passed the faculty and leadership development project (FLDP), T2, 2006.
9. Passed the faculty and leadership development project (FLDP), in Quality Assurance, 2007.
10. A Facilitator for the site-visit for the developmental engagement at the faculty of pharmacy, Minia University by the quality assurance and accreditation project ministry of higher education and state for scientific research 5-8 November 2006.
11. The Manager of the quality assurance and accreditation unit, faculty of pharmacy, Minia University since the end of 2006 till now.
12. Passed the Training of Trainers (TOT) program for project of "pathways to higher educations", faculty of engineering, Cairo University funded by the Ford foundation held at Minia University from 23-27 December 2006.
13. A trainer in the project of "pathways to higher educations", faculty of engineering, Cairo University funded by the Ford foundation in the field of "Thinking and Managerial Skills" at Minia University from 27-29 January 2007.
14. A part-time lecturer at Misr International University (MIU) in Cairo in the courses of Pharmaceutical Chemistry and drug design in the years 2005/2006 & 2006/2007 & 2007/2008.
15. A part-time lecturer at MSA University, 6-October, Cairo in the courses of Pharmaceutical Chemistry in the summer Semester the academic year 2007/2008.
16. The winner for the "SamaSina" prize for the best research paper at Minia University 2006/2007.

17. A trainer in the project of "pathways to higher educations", faculty of engineering, Cairo University funded by the Ford foundation in the field of "Argumentation" at Minia University from 9-12, February 2007.

### **Publications**

1. Aly, Ashraf A.; Brown, Alan B.; Ramadan, Mohamed; Abdel-Aziz, Mohamed; Abuo-Rahma, Gamal El-Din A. A.; Radwan, Mohamed F.; Gamal-Eldeen, Amira M.; Synthesis of new 4-oxo-thiazolidine-5-ylidenes of antitumor and antioxidant activities, Journal of Heterocyclic Chemistry, **47** (2010), 547-554.
2. Aly, Ashraf A.; Brown, Alan B.; Ramadan, Mohamed; Abdel-Aziz, Mohamed; Abuo-Rahma, Gamal El-Din A. A.; Radwan, Mohamed F.; Gamal-Eldeen, Amira M.; Selectivity of N-aryloyl-N'-arylthioureas towards 2-(1,3-dioxo-1H-inden-2(3H)-ylidene)malononitrile. New synthesis of (Z)-N-((E)-4-amino-1-aryl-5-cyano-6-oxo-1H-indeno[1,2-d][1,3]-thiazepin-2(6H)-ylidene)-4-arylamides of antitumor and antioxidant activities, Journal of Heterocyclic Chemistry, **47**(3), (2010), 503-508.
3. Aly, Ashraf A.; Brown, Alan B.; Ramadan, Mohamed; Gamal-Eldeen, Amira M.; Abdel-Aziz, Mohamed; Abuo-Rahma, Gamal El-Din A. A.; Radwan, Mohamed F.; Thieno[2,3-d]pyrimidines in the Synthesis of Antitumor and Antioxidant Agents, Archiv der Pharmazie, **343**(5), (2010), 301-309.
4. Mohamed Abdel-Aziz, Heba A. Hassan Mohamed, Gamal El-Din A. A. Abuo Rahma, Hassan H. Farag; N-Malonyl-1,2-dihydroisoquinoline as a Novel Carrier for Specific Delivery of Drugs to the Brain, Arch Pharm (Weinheim). **343**(1), 2010, 54-60.
5. Gamal A. Idrees, Gamal El-Din A. A. Abuo Rahma, Omar M. Aly and Mohamed F. Radwan, Design, Synthesis, and Hypolipidemic Activity of Novel 2-(*m*-tolylxy) Isobutyric Acid Derivatives, European. Journal of Medicinal Chemistry, Eur J Med Chem., **44**(6), (2009) 2679-84.

6. Heba A. Hassan Mohamed Abdel-Aziz, Gamal El-Din A. A. Abuo-Rahma, Hassan. H. Farag, Synthesis and Investigation of Novel Dihydropyridine Derivatives as Carriers for Specific Delivery of Drugs to the Brain and its Utility as Antidepressants, *Bioorganic & Medicinal Chemistry* **17** (2009) 1681-1692.
7. Mohamed Abdel-Aziz, Gamal El-Din A. Abuo-Rahma and Alaa A. Hassan, Synthesis of novel pyrazole derivatives and evaluation of their antidepressant and anticonvulsant activities, *European Journal of Medicinal Chemistry*, **44**(9), (2009), 3480-3487.
8. Gamal A. Idrees, Omar M. Aly, Gamal El-Din A.A. Abuo-Rahma, M.F. Radwan, Design, synthesis and hypolipidemic activity of novel 2-(naphthalen-2-yloxy)propionic acid derivatives as desmethyl fibrate analogs, *European Journal of Medicinal Chemistry*, **44**(10), (2009), 3973-3980.
9. Gamal El-Din A. A. Abuo-Rahma, Hatem. A. Sarhan, and Gamal F.Gad, Design, Synthesis, Antibacterial Activity, and Physicochemical Parameters of 7-Substituted Norfloxacin Derivatives (Submitted).
10. El-Shimaa M.N. Abdel-hafez, Gamal El-Din A. A. Abuo-Rahma, Mohamed F.Radwan and Hassan H. Farag, Design, Synthesis and Investigation of Certain Pyrazole-3-Carboxylic acid Derivatives as Novel Carriers for Nitric Oxide. (Submitted).
11. Jorg Konter, Gamal El-Din A.A. Abuo-Rahma, Ali El-Emam and Jochen Lehmann; Synthesis of Diazen-1-ium-1,2-diolates Monitored by the 'NOTizer' Apparatus: relationship between Formation rates, Molecular Structure and the Release of Nitric Oxide; *Eur. J. Org. Chem.* **2007**, 616–624.
12. Mahmoud A. Omar, Gamal El-Din A.A. Abuo-Rahma and Osama H. Abdelmageed; Spectrophotometric Determination of Certain Antifungal Drugs in Pure Forms and in Their Pharmaceutical Formulations; *Bull. Pharm. Sci., Assiut Univ.*, in press.
13. Ramadan M, Gamal-Eldeen AM, Abdel-Aziz M, Abuo-Rahma GE, Abdel-Nabi H, Nagib AH, C-(2-Chloroquinoline-3-yl)-N-phenyl Nitroene: New Synthetic

Antioxidant Inhibits Proliferation and Induces Apoptosis of Breast Carcinoma MCF-7 Cells, *Arc.h Pharm.Chem. Life Sci.*2006, 339, 242-249.

14. Gamal El Din A.A. Abuo-Rahma, Axel Horstmann, Mohamed F. Radwan, Ali El-Emam, Erika Glusa and Jochen Lehmann, NO-donors, part 9: diazeniumdiolates inhibit human platelet aggregation and induce a transient vasodilatation of porcine pulmonary arteries in accordance with the NO-releasing rates, *European Journal of Medicinal Chemistry*, Volume **40**, Issue 3, March 2005, Pages 281-287.
15. Jorg Konter, Gamal El-Din A.A. Abuo-Rahma, Ali El-Emam and Jochen Lehmann; The NOtizer-A device for the Convenient Preparation of Diazeniumdiolates; *Methods in Enzymol*, Volume **396**, 17-26.
16. A.F. Youssef, F. A. Omar, H. A. Elsherief and Gamal El-Din A.A. Abuo-Rahma; Design and Synthesis of Nalidixic Acid Hydrazides with Antidepressant Activity; *Bull. Pharm. Sci., Assiut Univ.*, **21**, part 1, (1998), pp.15-26.
17. H. A. Elsherief, F.A. Omar, A.F. Youssef and Gamal El-Din A.A. Abuo-Rahma, synthesis of some N<sup>2</sup>-substituted hydrazides of 6-bromonalidixic acid as potential antidepressants, *Assiut Univ. 1<sup>st</sup> Pharm. Sci. conference*, Faculty of Pharmacy, Assiut, March, 4-5, 1998.

## REFERENCES

1. Prof. Dr. **Jochen Lehmann**, Chair Prof. and director of Pharmaceutical/Medicinal Chemistry, Friedrich-Schiller-University Jena, Institute of Pharmacy and biology, Philosophenweg 14, D-07743 Jena, Germany.

[j.lehmann@uni-jena.de](mailto:j.lehmann@uni-jena.de)

2. Prof. Dr. **Ali A. El-Emam**, Prof. of Medicinal Chemistry, Faculty of Pharmacy, Mansoura University, Mansoura, Egypt. & Professor in King Saud University, KSA.

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3. Prof. Dr. **Adel Fawzy Yousef**, Prof. of Pharmaceutical Medicinal Chemistry, Faculty of Pharmacy, Assiut University, Assiut, Egypt.

4. Prof. Dr. **Hassan Hassan Farag**, Prof. of Pharmaceutical Medicinal Chemistry, Faculty of Pharmacy, Assiut University, Assiut, Egypt.

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5. Prof. Dr. **Farghaly A. Omar**, Prof. of Pharmaceutical Medicinal Chemistry, Faculty of Pharmacy, Assiut University, Assiut, Egypt