

branch) Saudi Arabia

- 2/83-7/84** Visiting Professor to the Department of Medicinal Chemistry, College of Pharmacy, University of Florida, Gainesville, Florida, USA
- 3/82-2/83** Consultant to the Ministry of Public Health, Drug Registration and Legalization Center, State of Qatar
- 9/75-8/76** Visiting Associate professor, Department of Pharmaceutical Chemistry, College of Pharmacy, University of Riyadh, Saudi Arabia
- 1/74- 4/79** Associate Professor, Department of Pharmaceutical Chemistry, College of Pharmacy, University of Alexandria, Alexandria, Egypt
- 12/68-1/74** Assistant Professor, Department of Pharmaceutical Chemistry, College of Pharmacy, University of Alexandria, Alexandria, Egypt
- 11/62-12/68** Assistant Lecturer, Department of Pharmaceutical Chemistry, College of Pharmacy, University of Alexandria, Alexandria, Egypt

B. Teaching Experience:

- 10/68-Present** Medicinal Chemistry to pharmacy students
- 1975-Present** Graduate courses in Medicinal Chemistry & Chemistry of Natural Products to post-graduate pharmacy students
- 1986-Present** Clinical Management of Poisoning & Drug Overdose, Drug Interaction & Drug Abuse
- 1984-1985** Clinical Pharmacology & Drug Therapeutics to Medical students, King Saud University, Abha Branch, KSA
- 1975-Present** Courses in Theory & Practice in Drug Quality Control to pharmacy students.
Courses in Theory & Practice in Analytical Chemistry & Food Analysis to pharmacy students
- 1968-1975** Courses in Theory & Practice in Organic & Analytical Chemistry to pharmacy students
- 1962-1968** Practical Courses in Organic Chemistry & Drug Quality Control, Including Identification of Organic Compounds,

Control of Purity of Drugs. Identification & Evaluation of Pharmaceutical Compounds, Analysis of Prescriptions, Synthesis of some Pharmaceutical Compounds, Separation & Semi-micro Identification of Inorganic Mixtures, Separation & Identification of Organic Mixtures to pharmacy students

C. Practical and Technical Experience:

- 1. Synthesizing a huge number of medicinal & agro chemicals.**
- 2. Drug monitoring using up-to-date analytical techniques & instruments.**
- 3. Tracing drug metabolites in blood & in different biological tissues (In-Vitro & In-Vivo).**
- 4. Prodrugs & Soft drugs (Synthesis & Pharmacokinetics Studies).**
- 5. Design Improved drug delivery systems to target their sites.**
- 6. Controlled Transdermal diffusion of drugs.**
- 7. Clinical pharmacy, drug & poison information systems.**
- 8. Drug registration & legalization (WHO expert)**
- 9. Have been supervising many research projects leading to M.Sc. and Ph.D.**

Consultant:

- 1. El Nasr Pharmaceutical Chemical Co., Cairo, Egypt**
- 2. National Organization for Drug Control & Research (NODCAR), Cairo, Egypt**
- 3. ABI Research Fellow**

Consultant and Share-Holder:

- 1. Amriya Pharmaceutical Company, Alexandria, Egypt**
- 2. Allied Company for Chemicals and Adhesives (ACCA), Cairo, Egypt**
- 3. Millennium Pharma (SAE), Alexandria, Egypt**

Memberships:

- 1. American Chemical Society (ACS)**
- 2. American Association for Advancement of Science (AAAS)**
- 3. American Pharmaceutical Association (APhA)**
- 4. Academy of Pharmaceutical Science (APS)**
- 5. UNIDO**
- 6. International Society of Heterocyclic Chemistry (ISHC)**
- 7. Federation International Pharmaceutique (FIP)**
- 8. Member of WHO Expert Advisory Panel on the International Pharmacopeia**
- 9. Egyptian Pharmaceutical Society**
- 10. Egyptian Pharmacopeia's Committee**
- 11. Egyptian Academy for Scientific Research & Technology**
- 12. PRIDE (Egyptian branch)**
- 13. Alexandria Environment Protecting Association**
- 14. National Board for Promotion to Professorship in Medicinal Chemistry**

Reviewer:

- 1. Journal of Medicinal Chemistry**
- 2. Journal of Pharmaceutical Sciences**
- 3. Egypt Journal of Chemistry**
- 4. Egypt Journal of Pharmaceutical Science**

Conferences:

- 1. Organizer and active participant in all Annual Egyptian Pharmaceutical Sciences Conferences since 1975**
- 2. APhA Academy of Pharmaceutical Sciences, Annual meetings 1983 & 1984**
- 3. Active participant in the biannual Ibn Sina International Conferences in Heterocyclic Chemistry since 1988**

- 4. Organizer and active participant in the first Anglo-Egyptian Pharmaceutical Sciences conference, Alexandria, November 1988**
- 5. Organizer and active participant in the second Anglo-Egyptian Pharmaceutical Sciences conference, Alexandria, November 1991**
- 6. Active participant in the Annual conferences of FIP**
- 7. International Carbohydrate symposium, Hamburg 2000**
- 8. International Carbohydrate symposium, Cairns (Australia) 2002**
- 9. Active participant in the biannual Bio Vision Conference, Bibliotheca Alexandrina since 2006**

Cooperative Research Projects:

- 1. Syngenta (Crop Protection) AG, Basel, Switzerland**
- 2. Novartis, Basel, Switzerland**
- 3. American Cyanamid, New Jersey (USA)**
- 4. Chevron Chemical Research, California (USA)**
- 5. DuPont De Nemours and Co., Delaware (USA)**
- 6. FMC Crop., New Jersey (USA)**
- 7. Rhone-Poulenc AG, North Carolina (USA)**
- 8. SDS Biotech. , Ohio (USA)**
- 9. Shell Development Company, California (USA)**
- 10. E Merck, Darmstadt (FRG)**
- 11. National Institute of Health, Maryland (USA)**
- 12. ICI Agrochemicals, Berkshire (UK)**
- 13. Beecham, Surrey, U.K.**

Awards:

- 1. National Award in Chemistry (1980)**
- 2. Presidential Medal for Science and Arts (1980)**
- 3. Member of the National Encyclopedia for Egyptian Dignitaries (1989)**
- 4. Contemporary Who's Who Consultant Editor**
- 5. University of Alexandria Silver Medal (1996)**
- 6. University of Alexandria Golden Medal (2002)**

Patents:

A- International with Ciba-Geigy AG/ Novartis AG, Basel, Switzerland

Canadian Pat.	CA 2000928	(20/04/90)
DDR Pat.	291 685 A1	(11/07/91)
Roman Pat.	105348	(26/11/91)
Taiw. Pat.	5049/N/	(18/12/91)
E P	0 365 484	(07/01/93)
US Pat.	5,215,570	(01/06/93)
Chinese Pat	5,215,570	(01/06/93)
Poland Pat.	B1 163 599	(08/09/93)
Indonesia Pat.	ID0 001 616	(02/05/97)
Japan Pat.	JP-B-2 753 872	(06/03/98)

B- Pharmaceutical Preparations:

Egy. Pat.	40 488	(17/04/00)	Sinus Cure Patch
Egy. Pat.	1231	(20/11/01)	Curative Cream for Diabetic Ulcers, Bed-sores, Vascular ulcers & Burns
Egy. Pat.	1232	(20/11/01)	Curative Solution for Acne & Pseudofolliculitis
Egy. Pat.	1239	(20/11/01)	Hair-Tonic & Antidandruff

Books

Selected Topics in Medicinal Chemistry for Pharmacy Students since 1971.

LIST OF PUBLICATIONS

1. Synthesis of New Potential Anti-rheumatic Agents, **J. Pharm. Sci., U.A.R., 8, 181 (1967)**
2. Synthesis of Some 3, 5-Dioxopyrazolidine Derivatives of Expected Anti-rheumatic Activity, **Egypt. J. Chemistry, 13, 399 (1970)**
3. New Internal Indicators for Determining Primary Aromatic Amines, **Pharmazie, 26, 615 (1971)**
4. Preparation of N4 –Isonitrosoacetyl Sulfanilamides, **Egypt. J. Pharm. Sci., 13, 255 (1972)**
5. Study of Fusion of Urea with some Aromatic Acids, **Egypt. J. Pharm. Sci., 13, 231 (1972)**
6. Antibacterial Activity of Some Acetyl acetone Derivatives, **Indian Journal of Pharmacy, 35, 67 (1973)**
7. Synthesis of Some Isoniazid Derivatives of Potential Tuberculostatic Activity, **Egypt. J. Pharm. Sci., 14, 61 (1973)**
8. Synthesis of Some New Acid Hydrazides Structurally related to certain Tuberculostatic Agents, **Egypt. J. Pharm. Sci., 14, 67 (1973)**
9. Preparation of Certain New N-Nitrosoalkyl (& Benzyl) Aryl amines, **Egypt. J. Pharm. Sci., 14, 75 (1973)**
10. Effect of Method of Preparation on the Acid Neutralizing Capacity of Aluminum Hydroxide Gel, **Pharmazie, 29, 62 (1974)**
11. Application of Argentimetric Titration in Semi-Micro Estimation of Some Reducing Sugars, **Pharmazie, 29, 203 (1974)**
12. Application of Argentimetric Method for Semi-Micro Estimation of Some Reducing Drugs, **Pharmazie, 29, 204 (1974)**
13. Application of Mercurimetric Titration in Semi-Micro Estimation of some Sugars, **Pharmazie, 29, 205 (1974)**
14. New Mercurimetric Methods for Semi-Micro Estimation of some Pharmaceutical Hydrazine Derivatives, **Pharmazie, 30, 59 (1975)**

15. Synthesis of Some Phthalazine Derivatives Chemically Related to Hydralazine, Pharmazie, 31, 436 (1976)
16. The Scope of Reaction of Hydrazines & Hydrazones, Part IV: Trisubstituted Pyrazoles of possible Hypoglycemic and Antibacterial Activity, Pharmazie, 33, 184 (1978)
17. New Biphenyl Derivatives I: 1-(4-Biphenyl)-2-Phenethylamines as Potential Antispasmodic and Cardiovascular Agents, J. Pharm. Sci., 67, 991 (1978)
18. Reaction of L-Ascorbic and Isoascorbic Acids with Hydrazines Related to Sulfanilamide Drugs, Carbohydrate Research, 67, 179-188 (1978)
19. Synthesis of some 2,5-Disubstituted Anilino-3,6-Dichloro-1,4-Benzoquinone as Antimicrobial Agents, Pharmazie, 33, 642 (1978)
20. Synthesis of Some Substituted Pyrazole-3-Carboxylic Acids with Possible Hypoglycemic and Antimicrobial Activity, Pharmazie, 33, 649 (1978)
21. Synthesis of Some Potential Local Anesthetics, Pharmazie, 33, 688 (1978)
22. Synthesis of Azomethines and Hydrazones Having Expected Antituberculous Activity, Pharmazie, 34, 73 (1979)
23. Preparation and Antidiabetic Activity of Some Sulfonylurea Derivatives of 3,5-Disubstituted Pyrazoles, J. Medicinal Chemistry, 22, 321 (1979)
24. Synthesis of 4-Substituted Amino benzoate Quaternary Salts as Potent Antispasmodic Agents, J. Pharm. Sci., 68, 332 (1979)
25. Reaction of Sulfamidohydrazine with Monosaccharide, Pharmazie, 34, 253 (1979)
26. Synthesis of Some Saccharide Hydrazones Having p-Aminobenzoic Acid And p-Aminosalicylic Acid Moieties, and their Reactions, Carbohydrate Research, 72,305 (1979)
27. Synthesis of Some Substituted Pyrazole-1-Phthalazine Derivatives with Possible Hypotensive Action, Pharmazie, 34, 397 (1979)
28. Synthesis of Substituted 4-(3H)-Quinazolinone Sulfonylurea Derivatives with Possible Antimicrobial or Hypoglycemic Effect, Pharmazie, 34, 441 (1979)
29. A Facile Synthesis of 2,3-Disubstituted 4-oxo-3,4-dihydroquinazolines, SYNTHESIS, 10, 803 (1979)

30. Synthesis of New Mercaptotriazoles with Potential Antibilharzial Activity, J. Pharm. Sci., 68, 1377 (1979)
31. A Sensitive Colorimetric Method for Estimation of Ascorbic Acid, TALANTA, 26, 1164 (1979)
32. Pharmaceutical Analysis of Ascorbic Acid Using Iodine Monochloride, Zbl, Pharm., 118, 1285 (1979)
33. Semi-Micro Tritrimetric Methods for the Determination of Some Corticosteroids, Pharmazie, 35, 153 (1980)
34. Simple and Rapid Spectrophotometric and Tritrimetric Methods for the Determination of Ascorbic Acid in Pharmaceutical Preparations, J. Chem.Tech. Biotechnol. , 30, 435 (1980)
35. New Spectrophotometric Assay for Pilocarpine, J. Assoc. Off. Anal. Chem., 63, 689 (1980)
36. Potential Antineoplastic Agents, Part I: 1-Substituted Thiocarbamoyl-3,5- Disubstituted Pyrazoles, Pharmazie, 35, 799 (1980)
37. Pyrazolone and Quinoxaline Derivatives of Triazolyl Analogs of L-Ascorbic Acid, Carbohydrate Research, 90, 144 (1981)
38. Formation of Thiazoles, Thiazines and Thiadiazines from 1-Phthalazine Thiosemicarbazides as Potential Anticonvulsants, J. Pharm. Sci., 70, 94 (1981)
39. Synthesis of 4-Substituted Phenazone Derivatives with Possible Hypoglycemic Activity, Pharmazie, 36, 91 (1981)
40. Preparation and Antidiabetic Activity of New 3-Metyl-5-Phenylpyrazol-sulfonylurea Derivatives, J. Pharm. Sci., 70, 602 (1981)
41. Preparation and Antidiabetic Activity of New Substituted Diarylpyrazolesulfonylurea Derivatives, J. Pharm. Sci., 70, 606 (1981)
42. Synthesis of New Substituted Pyrazole-1-Phthalazine Derivatives with Possible Hypotensive Activity, Pharmazie, 36, 471 (1981)
43. Pyrazolones from 4-Aryl-2,3-dioxobutyro-1,4-lactone, Pharmazie, 36, 509 (1981)
44. Preparation and Antidiabetic Activity of Cyclic Sulfonylthiourea Derivatives, J. Pharm. Sci., 70, 952 (1981)
45. Synthesis and Spectra of New 3-Carbethoxypyrazole Sulfonylurea Derivatives, J. Heterocyclic Chemistry, 18, 1561 (1981)

46. Synthesis of 3-(Alditol-1-yl)-1,2,4-Triazolo-[3,4a]-Phthalazines, Carbohydrate Research, 95, 51-60 (1981)
47. The Effect of Newly Synthesized Sulfonylurea Derivative, 1-p-(3,5-Dimethylpyrazole-1) cabamoylbenzenesulfonyl-3-cyclohexylurea, On Plasma Lipids, Some Electrolytes and Liver Function Tests in Rabbit, Bulletin, Alexandria Collage of Medicine, XVIII, 493 (1982)
48. Synthesis and Antidiabetic Activity of Some Sulfonylurea Derivatives of 3,5-Disubstituted Pyrazoles, J. Pharm. Sci., 72, 999 (1983)
49. Synthesis and Antidiabetic Activity of Some Sulfonylurea Derivatives of 3,4,5-Trisubstituted Pyrazoles, J. Pharm. Sci., 72, 1004 (1983)
50. Antidiabetic Activity of Some 1-Substituted 3,5-Dimethylpyrazoles, J. Medicinal Chemistry, 26, 1659 (1983)
51. Synthesis of New 8-(5-Substituted Amino-1,3,4-Oxadiazol-2-yl) and 8-(5-Substituted Amino-1,3,4-Thiadiazol-2-yl)-Methoxyquinolines with Antibilharzial Activity, J. Pharm. Sci., 73, 403 (1984)
52. α -Phenyl- β -(3,4-dimethoxy) phenethylamines: Novel Inhibitors of Choline Acetyltransferase from Torpedo Electric Organ, J. Pharm. Sci., 73,1548 (1984)
53. Synthesis and Spectra of Some Triazolo and Triazinophthalazines of Possible Hypotensive Activity, J. Heterocyclic Chem., 24,667 (1987)
54. Preparation and Antidiabetic Activity of New Substituted 3, 5-Diarylpyrazole sulfonylurea Derivatives II. Structure-Activity Relationship, J. Pharm. Sci., 76,626 (1987)
55. (\pm)- α -Phenyl- β -(3,5-dimethoxy)-and(\pm)- α -Phenyl- β -(3,5-dihydroxy) Phenethylamines: Potential Probes for Nicotinic Acetylcholine Receptor-Ion Channel Molecule from Torpedo Electric Organ, J. Pharm. Sci., 76, 830 (1987)
56. Cyclization of Diketones to Pyridazine and Furan Derivatives, J. Heterocyclic Chemistry, 24, 1745 (1987)
57. Dithiocarbamate Esters Part III: Synthesis and Spectra of Tetrahydroquinoline Dithiocarbamate and Xanthate, Egypt, J. Chem., 31, 175 (1988)
58. Effect of Oleic Acid on Diffusion of Drugs through Hairless Mouse Skin, Acta. Pharm. Nordica, 1, 17 (1989)

59. Preparation of N-[(Aroylsulfamoyl) Phenyl] ureas and analogs ureas as Herbicide Safeners, EP Pat. 365484 A1, October 11, 1989
60. Preparation of N-acylsulfamoyl phenyl urea Derivatives as Herbicide Antidotes, DDR Pat. 291685 A5, July 11, 1992
61. Synthesis of Thiazoline, Thiazolidinone and Thiadiazoline Derivatives Surmounted on Benzimidazoles as Potential Antimicrobial Agents, Bull. Fac. Pharm., Cairo University, 31, 381 (1983)
62. Non-Steroidal Anti-Inflammatory Agents: Novel Pyrazolyl-, 1,2-Oxazolyl- and 1,3-Diazinyl Derivatives of 4(3H)-Quinazolinones, Arch Pharm., 327, 27 (1994)
63. Anticonvulsant and Hypnotic Agents: Novel Thiobarbituric Acid Derivatives of 4-(3H)-Quinazolinones, Alex. J. Pharm. Sci., 11,37 (1997)
64. Novel Thiazolidinyl-4-(3H)-Quinazolinones as Potential Antimicrobial Agents, Alex. J. Pharm. Sci., 11, 69 (1997)
65. Synthesis and Antimicrobial Testing of Novel Oxadiazolylbenzimidazole Derivatives, Die Pharmazie, 52, 746 (1997)
66. Synthesis and Antimicrobial Testing of 4H-1,2,4-Triazole, 1,2,4-Triazolo [3,4-b][1,3,4]-Thiadiazole and 1,2,4-Triazolo-[3,4b][1,3,4]-Thiadiazine Derivatives of 1H Benzimidazole, Die Pharmazie, 52, 844 (1997)
67. Synthesis and GCMS analysis of optically pure 3-hydroxy-2-azitidinones having N-Sulfonamides drugs side chain, Synthetic Communications 30 (14), 2465-2478 (2000)
68. Synthesis and Antimicrobial Activity of Novel Pyrazole, Pyrazoline, Pyrazolinone and Pyrazolidindione Derivatives of Benzimidazole, Boll. Chem. Farmac. Anno, 140, 140 (2001)
69. Thioglycolic and Pyrazole Derivatives of 4(3H)-Quinazolinone Synthesis and Antimicrobial evaluation, Boll. Chem. Farmac. Anno, 141, 372-8 (2002)
70. Synthesis of Novel Pyrimidine-2,4-diones and 2-thioxypyrimidine-4-ones as Potential Anti-Cancer and Antimicrobial Agents, Boll. Chem. Farmac. Anno, 142, 167 (2003)
71. Pyrimidines II: Synthesis of Novel Pyrimidines, 1,2,4-triazolo-[4,3a] Pyrimidine-7-ones and pyrimidino[2,1-c][1,2,4] triazin-8-ones for their Antimicrobial and Anti-cancer Activities, Boll. Chem. Farmac. Anno 142,

72. Synthesis of Thiazolo[4,5-d]pyrimidine Derivatives as Potential Antimicrobial Agents, Archiv Pharm. Res, 30, 11-1520 (2007)
73. Synthesis of Tetrahydrothieno[2,3-d]pyrimidine and Tetrahydrobenzothieno [3,2-e][1,2,4]triazolo[4,3-c]pyrimidine Derivatives as Potential Antimicrobial Agents, Scientia Pharmaceutica 77, 755-773 (2009)
74. Synthesis of New Series of Pyrazolo[4,3-d]pyrimidin-7-ones and Pyrido[2,3-d] Pyrimidin-7-ones for their bacterial and cyclin-dependent kinases (CDKs) Inhibitory Activities, Med. Chem. Research, 20, 408 (2011)
75. Synthesis and Antimicrobial Activity of Novel 3-Benzoyloxy-4-substituted-2-azetidinones: Formation of a Hydrophobic Layer via a Self-organization Effects, Phosphorus, Sulfur & Silicon, 168, 1932-1947 (2011)
76. Synthesis and biological evaluation of novel series of thieno[2,3-d] Pyrimidine derivatives as anticancer and antimicrobial agents, Med. Chem. Res. 22,3289-3308 (2013)
77. Synthesis and Biological Evaluation of Some Novel Thieno[2,3-d]pyrimidine Derivatives as Potent Anti-inflammatory and Analgesic Agents. Med. Chem. Res., 9, 1099-1112(2013)
78. Design, Synthesis and Biological Screening of Some Pyridinylpyrazole and Pyridinylisoxazole Derivatives as Potential Anti-inflammatory, Analgesic, Antipyretic and Antimicrobial Agents. Med. Chem. Res., 10, 318-338 (2014)
79. Design, synthesis and Antimicrobial Evaluation of Methyl Pyridyl-2,4-dioxo-Butanoate and Some New Derived Ring Systems. Med. Chem. Res., 11, 407-414 (2015)
80. Synthesis and biological evaluation of new nanosized aromatic polyamides Containing amido- and sulfonamidopyrimidines pendant structures. Chemistry Central Journal, 9, 44 (2015)