

CURRICULUM VITAE

FULL NAME: HUMEIDA A. EL-OBEID, Ph.D.

MARITAL STATUS: Married / Four children

CURRENT POSITION: PROFESSOR OF MEDICINAL CHEMISTRY
DEAN OF THE COLLEGE OF PHARMACY
THE UNIVERSITY OF MEDICAL SCIENCES AND TECHNOLOGY
HEAD OF THE DEPARTMENT OF PHARMACEUTICAL CHEMISTRY
COLLEGE OF PHARMACY
THE UNIVERSITY OF MEDICAL SCIENCES AND TECHNOLOGY
KHARTOUM, SUDAN

CURRENT ADDRESS: DEAN OF THE COLLEGE OF PHARMACY
THE UNIVERSITY OF MEDICAL SCIENCES AND TECHNOLOGY
KHARTOUM, SUDAN.
E-MAIL: abomohannad3@gmail.com

ACADEMIC QUALIFICATIONS:

1. Bachelor of Pharmacy

FACULTY OF PHARMACY, UNIVERSITY OF KHARTOUM,
KHARTOUM, SUDAN.

1968

2. Doctor of Philosophy

THE UNIVERSITY, SOUTHAMPTON, ENGLAND.

1974

Ph.D. Thesis Title: MECHANISTIC AND ACTIVE SITE-DIRECTED STUDIES ON SERINE TRANSYDROXY-METHYLASE.

*“ THE RESULTS OF THIS STUDIES IS CITED BY MANY
MEDICINAL CHEMISTRY AND BIOCHEMISTRY BOOKS’*

OTHER POSITIONS HELD:

1. Head, Department of Pharmaceutical Chemistry, College of Pharmacy, The University of Medical Sciences & Technology, Khartoum, Sudan. 2008-Present
2. Head, Department of Pharmacy & Medical Laboratory Sciences, Taif University, Taif, Saudi Arabia. 2005-2008
1. Professor of Medicinal Chemistry, Department of Pharmaceutical Chemistry, College of Pharmacy, King Saud University, Riyadh, Saudi Arabia. 1985-2005
2. Professor of Medicinal Chemistry, Department of Pharmaceutical Chemistry, College of Pharmacy, Taif University, Taif, Saudi Arabia 2005-2008
3. Professor of Medicinal Chemistry, Department of Pharmaceutical Chemistry, College of Pharmacy, University of Medical Sciences and Technology, Khartoum, Sudan 2008- Now
4. Associate Professor of Medicinal Chemistry, Department of Pharmaceutical Chemistry, College of Pharmacy, King Saud University, Riyadh, Saudi Arabia. 1979-1984

- | | |
|--|-----------|
| 5. Assistant Professor of Medicinal Chemistry, Department of Pharmaceutical Chemistry, College of Pharmacy, King Saud University, Riyadh, Saudi Arabia. | 1976-1979 |
| 6. Assistant Professor of Medicinal Chemistry, Department of Pharmaceutical Chemistry, College of Pharmacy, The University of Khartoum, Khartoum, Sudan. | 1974-1976 |
| 7. Instructor of Organic and Pharmaceutical Chemistry, Department of Pharmaceutical Chemistry, College of Pharmacy, The University of Khartoum, Khartoum, Sudan. | 1968-1969 |

TEACHING ASSIGNMENTS:

- | | |
|--|------|
| 1. Teaching Organic Chemistry, Organic Pharmaceutical Chemistry, Biochemistry and Medicinal Chemistry for undergraduate and graduate students, The University of Khartoum and King Saud University. | |
| 2. Teaching Biochemistry, Medicinal Chemistry, Drug Metabolism and Drug Toxicity to undergraduate and postgraduate students: King Saud University, Khartoum University, Ohio State University, Columbus, Ohio, U.S.A. and the University of Medical Sciences and Technology, Khartoum. | |
| 3. Supervision of the finalist students' projects, College of Pharmacy, King Saud University, Riyadh, Saudi Arabia. | |
| 4. Supervision of three M. Pharm. (Pharmaceutical Chemistry) dissertations, College of Pharmacy, King Saud University Titles: | |
| a. "SYNTHESIS OF α -PHENYLPHENETHYL DERIVATIVES AS POTENTIAL CARDIO-VASCULAR AGENTS," by Gada M. Bawazir | 1990 |
| b. "SYNTHESIS AND CHARACTERIZATION OF NEW PIPERAZINE AND PIPERIDINE DERIVATIVES WITH POTENTIAL MEDICINAL ACTION," by Mona Ibrahim Moustafa Hammad. | 1994 |
| c. "METABOLIC STUDIES ON α -N-DISUBSTITUTED PHENYLETHYLAMINE DERIVATIVES," by Mona Mohammed Z. Al-Shehri. | 2000 |
| 5. Supervision of PhD Thesis, College of Pharmacy, Univ. of Khartoum, Sudan:
"CHEMICAL AND PHOTOCHEMICAL STABILITY OF DANAZOL AND DILOXANIDE FUROATE"
By El-Rasheed A. Gad-Kareim. | 2005 |

SCIENTIFIC ASSIGNMENTS:

1. Supervisor of the Khartoum University students training courses in the Egyptian Pharmaceutical Companies. 1967
2. Participation in teaching biochemistry classes, Department of Pharmaceutical Chemistry, College of Pharmacy, King Saud University, Riyadh, Saudi Arabia.
3. Coordinator, Symposium on Gas/Liquid Chromatography, Department of Pharmaceutical Chemistry, College of Pharmacy, King Saud University, Riyadh Saudi Arabia. 1979
4. Visiting Associate Professor, Division of Pharmaceutical Chemistry and Pharmacognosy and Division of Pharmacology, Ohio State University, Columbus, Ohio, U.S.A., where I participated in teaching and in the following research projects: 1982-1983
 - a) Studies on the spectral and enzymatic properties of the N-demethylation of ephedrine and synthetic homologs.
 - b) Metabolism of clofibrate and p-chlorophenol: synthesis of possible metabolites of clofibrate and the development of reverse-phase HPLC methods for isolation of the metabolites.
Design of medicinal chemistry syllabi for B.Pharm, M.Pharm and PhD programs for established and newly established Pharmacy Colleges in Sudan and Saudi Arabia.
 - c) Refereeing M.Sci and PhD Theses and many scientific papers submitted for publication in National and International Journals.

MEMBERSHIPS:

1. The Sudanese Pharmaceutical Society, Sudan.
2. The Saudi Pharmaceutical Society, Saudi Arabia.
3. Member of the American Chemical Society.
4. Member of the Division of Organic Chemistry (ACS).
5. Member of the Division of Medicinal Chemistry (ACS).
6. Member of the Division of Biological Chemistry (ACS).

MEETINGS, CONFERENCES AND SYMPOSIA:

1. The Biochemical Society Meeting, Southampton, England. 1973
2. The VIth International Symposium of Medicinal Chemistry, Brighton, England. 1978
3. The First Drug Symposium in Saudi Arabia on Appropriate Use of Drugs, College of Pharmacy, King Saud University, Saudi Arabia. 1979
4. Seminar on Alcohol Free Medications, College of Pharmacy, King Saud University, Riyadh. 1979
5. Quantitative Structure Activity Relationship (QSAR), College of Pharmacy, King Saud University, Riyadh. 1979
6. 39th International Congress of FIP, Brighton, England. 1979
7. The British Pharmaceutical Conference, Exeter, England. 1979
8. Symposium on Academic Advising, King Saud University, Riyadh. 1982
9. The International Symposium on Applications and Technology of Ionizing Radiations, College of Science, King Saud University, Riyadh. 1982
10. The Second Drug Symposium in Saudi Arabia, Pharmaceutical in Developing Countries, College of Pharmacy, King Saud University, Riyadh. 1983
11. Symposium on the Protection against and Use of Radioisotopes in Research, Ohio State University, Columbus, Ohio, U.S.A. 1983
12. The Annual Meeting of the American Society for Pharmacology and Experimental Therapeutics (ASPET), Philadelphia, Pennsylvania, U.S.A. 1983
13. The Third Drug Symposium in Saudi Arabia, Role of Pharmacist in Health Care, College of Pharmacy, King Saud University, Riyadh. 1984
14. The Annual Meeting of the American Society for Pharmacology and Experimental Therapeutics (ASPET), Indianapolis, Indiana, U.S.A 1984

- | | | |
|-----|---|------|
| 15. | Seminar and exhibition on Drug Education. Riyadh, Saudi Arabia. | 2003 |
| 16. | Seminar on MS/MS Technology. Riyadh, Saudi Arabia. | 2005 |
| 17. | Seminar on Health Education Improvement and Quality Assurance
Ministry of Health, Riyadh, Saudi Arabia | 2008 |
| 18. | The 6 th Annual International Scientific Conference on Pharmaceutical
Care: "Putting the Patient First", College of Pharmacy, University of
Medical Sciences and Technology, Khartoum, Sudan | 2010 |

RESEARCH INTEREST

- ◆ Design, synthesis, structural characterization and biological evaluation of new potentially active drugs. The search for bioactive therapeutic agents is targeted at molecules with cardiovascular, anticancer and CNS effects.
- ◆ The study of the chemical and photochemical stability and the biotransformation of drug substances and their effects on drug's activity, toxicity, interactions and formulations.

EXTRA CURRICULAR ACTIVITIES:

- | | | |
|----|---|------------------------|
| 1. | Member of the College Council, College of Pharmacy,
University of Khartoum, Sudan. | 1974-1976 |
| 2. | College Representative to the University of Khartoum,
Senate, College of Pharmacy, University of Khartoum,
Sudan. | 1974-1976 |
| 3. | Member of Curriculum and Examination Committee,
College of Pharmacy, University of Khartoum, Sudan. | 1974-1976 |
| 4. | Convener of Department of Pharmaceutical Chemistry
Council, College of Pharmacy, King Saud University,
Riyadh, Saudi Arabia. | 1977-1978 |
| 5. | Academic Advisor (undergraduate students), College of
Pharmacy, King Saud University, Riyadh, Saudi Arabia. | 1991-2005 |
| 6. | Academic Advisor (graduate students), College of
Pharmacy, King Saud University, Riyadh, Saudi Arabia. | 1991-2005 |
| 7. | Member and Department's Representative in the
Committee of the Medicinal Plant Unit, College of
Pharmacy, King Saud University, Riyadh, Saudi Arabia. | 1991-2005 |
| 8. | Member of the Board of the College Research Center
Council, College of Pharmacy, King Saud University,
Riyadh, Saudi Arabia. | 1977-1981
1995-1997 |
| 9. | Member of the Department's Committee for
Advancement of Teaching, College of Pharmacy, King
Saud University, Riyadh, Saudi Arabia. | 1978-1979 |

- | | | |
|-----|--|------------------|
| 10. | Reportuer of the Academic and Teaching Committee,
College of Pharmacy, King Saud University, Riyadh,
Saudi Arabia. | 1978-1986 |
| 11. | Member of the College Council, College of Pharmacy,
King Saud University, Riyadh, Saudi Arabia. | 1980-1981 |
| 12. | Member of the College Academic Advisory Committee,
College of Pharmacy, King Saud University, Riyadh,
Saudi Arabia. | 1985-1991 |
| 13. | Member of the Board of Directors, Research Center,
College of Pharmacy, King Saud University, Riyadh,
Saudi Arabia. | 1994-1996 |
| 14. | Reportuer of the Department's Committee for Academic
Affairs and Postgraduate Studies, College of Pharmacy,
King Saud University, Riyadh, Saudi Arabia. | 1986-2005 |
| 15. | Member of the Ministry of Health Committee for Accreditation
of Pharmacy Colleges in Sudan. | 2010-Now |

AWARD AND GRANTS:

- | | | |
|----|--|------------------|
| 1. | University of Khartoum Scholarship Award, Sudan. | 1969 |
| 2. | The British Council Overseas Student's Award. | 1971 |
| 3. | The Research Centre, Grant No. CPRC-16, College of
Pharmacy to study some factors affecting the metabolism of
selected drugs. | 1985-1988 |
| 4. | The Research Centre Grant No. CPRC-29, College of
Pharmacy, to study the mechanisms of drug interactions. | 1988-1991 |
| 5. | The Research Centre Grant No. CPRC-51, College of
Pharmacy to design and synthesize selective anti-
psychotic and analgesic agents. | 1994-1996 |

PUBLICATIONS

(HUMEIDA ALI EL-OBEID, Ph.D.)

1. P.L. Birch, H.A. El-Obeid and M. Akhtar, "The Preparation of Chloromethylketone Analogues of Amino Acids: Inhibition of Leucine Aminopeptidase". *Archives of Biochemistry and Biophysics*, 148, 447-451 (1972).
2. M. Akhtar and H.A. El-Obeid, "Inactivation of Serine Transhydroxymethylase and Threonine Aldolase Activities". *Biochim. Biophys. Acta*, 258, 791-799(1972).
3. H.A. El-Obeid and M. Akhtar, "Glycidaldehyde: An Inhibitor Directed Towards the C₁-Unit Binding Site of Serine Transhydroxymethylase". *Biochem. Soc. Trans.*, 128 (1973).
4. Muhammad Akhtar, Humeida Ali El-Obeid and Peter M. Jordan, Mechanistic, Inhibitory and Stereochemical Studies on Cytoplasmic and Mitochondrial Serine Transhydroxymethylases". *Biochem. J.*, 145, 159-168 (1975).
5. Peter M. Jordan, Humeida A. El-Obeid, David L. Corina and Muhammad Akhtar. "Mechanism of C₂-C₃ Bond Formation and Cleavage in Serine Transhydroxymethylase Reactions". *J.C.S. Chem. Comm (2).*, 73-74 (1976).
6. Hassan Y. Aboul-Enein, Humeida A. El-Obeid and A.A. El-Farra. "Synthesis and Monoamine Oxidase Inhibitory Activity of Some Pentafluorobenzylidines and their Corresponding Hydrazines." *Pharm. Acta. Helv.*, 10, 282-284 (1980).
7. H.A. El-Obeid, A.E. Madani and D.R. Feller, "Spectral and Enzymatic Characteristics of the N-Demethylation of Ephedrine and α -Phenyl Homolog in Rabbit Liver Microsomes", *The Pharmacologist*, 25, 856 (1983).
8. T.A. Kocarek, H.A. El-Obeid, A.E. Madani and D.R. Feller, "N-Demethylation of Ephedrine Isomers and α -Phenyl Homolog in Rabbit Liver Microsomes: Effect of Induction", *The Pharmacologist*, 26, 242 (1984).
9. Humeida A. El-Obeid, Elamin I. Elnima and Abdullah A. Al-Badr, "Synthesis and Antimicrobial Activity of New Furan Derivatives", *Pharm. Res.*, 55, 42-3 (1985).
10. Humeida A. El-Obeid, A.E. Madani, K.A. Al-Rashood, K.E.H. El-Tahir, A. Tilmisani and M.E. Ibrahim, "Synthesis and Pharmacological Activity of N-Alkyl-1,2-Diphenylethanolamines", *Pharmaceutical Research*, 4, 166-170 (1987).

11. K.E.H. El Tahir, H.A. El-Obeid, K.A. Al-Rashood, A.E. Madani and A.M. Ageel, "The Antiarrhythmic Activity of N-Alkyl-1,2-Diphenylethanolamines" *Pharm. Res.*, 6, 252-4 (1988).
12. K.A. Al-Rashood, A.A. Mustafa, A.A. Alhaider, O.T. Ginawi, A.E. Madani and H.A. El-Obeid, "Antipsychotic Properties of New N-(4-Substituted-1-Piperazinylethyl)- and N-(4-Substituted-1-piperidinylethyl) Phthalimides", *J. Pharm. Sci.*, 77, 898-901 (1988).
13. K.A. Al-Rashood, A.E. Madani, O.T. Ginawi, S.A. Ashraf and H.A. El-Obeid, "Synthesis and Antinociceptive Activity of Ring Substituted N-[2-Phenyl-2-hydroxyethyl]-4-phenyl-4-carboethoxy-piperidines", *Arzneim.-Forsch./Drug Research*, 40, 1242-1245 (1990).
14. K.E.H. El Tahir, M.A.S. El-Naser, A.M. Ageel, H.E. El-Obeid and K.A. Al-Rashood, "Antiaggregatory Activity of N-Methyl- and N-Isobutyl-1,2-Diphenyl Ethanolamines in Rat Platelets", *Archives internationales de Pharmacodynamie et de Therapie*, 307, 162-171 (1990).
15. K.E.H. El-Tahir, M.A.S. El-Naser, A.M. Ageel, H.A. El-Obeid and K.A. Al-Rashood, "Cardiovascular Depressant Effects of N-Methyl- and N-Isobutyl-1,2-Diphenyl Ethanolamines: Elucidation of the Mechanisms of Action", *Archives internationales de Pharmacodynamie et de Therapie*, 309, 88-102 (1991).
16. K.E.H. El-Tahir, M.A.E. El-Naser, A.M. Ageel, H.A. El-Obeid, "Effects of N-Methyl- and N-Isobutyl-1,2-Diphenyl Ethanolamine on the Spontaneous and Evoked Contractions in the Rat Isolated Uterus", *Gen. Pharmac.*, 22, 685-690 (1991).
17. A.A. Mustafa, H.A. El-Obeid and K.A. Al-Rashood, "Long Lasting Inhibition of Food Intake in the Rat by a New Phthalimidoethylpiperazine Derivative", *Research Comm. In Chem. Path. and Pharmacol.*, 18, 25-36 1993.
18. H.A. El-Obeid, K.A. Al-Rashood, H.A. Al-Khamees, K.I. Al-Khamis and M.S. Mian, "Effect of Pirenzepine on the N-Demethylation of D(-)Ephedrine and Ethylmorphine by Rat Liver Microsomes", *Biopharm. & Drug Dispos.*, 14, 271-277 (1993).
19. K.A. Al-Rashood, H.A. Al-Khamees, K.I. Al-Khamis, M.S. Mian and H.A. El-Obeid, "Inhibition of Clobazam and 4N-Hydroxyclobazam Metabolism by Desmethylclobazam and Carbamazepine-10,11-epoxide Using Rabbit Liver Microsomes", *J. Pharm. Med.*, 4, (1994).
20. H.A. Al-Khamees, K.A. Al-Khamis, K.A. Al-Rashood, M.S. Mian and H.A. El-Obeid, "Studies on the Kinetics of the *in vitro* N-demethylation of Tenoxicam and Pirenzepine and their Interaction with Clobazam Metabolism in Rabbit Liver Microsomes", *J. Pharm. Med.*, 4, 53-59 (1994).
21. Faiza S. El-Shafie, Omar A. Al-Deeb, Mona E.M. Hammad, Ali A. Mustafa and Humeida A. El-Obeid, "Synthesis and Analgesic Activity of New 1-(p-Substituted Phenyl)-4-Substituted Piperazines and Piperidines and their Carbinol Derivatives", *Sci. Pharm.*, 62, 389-403 (1994).
22. Omar A. Al-Deeb, Faiza S. El-Shafie, Mona E. Hammad, Ali A. Mustafa and Humeida A. El-Obeid, "¹³C and ¹H Nuclear Magnetic Resonance Spectral Studies on Some 1,4-Disubstituted Piperazine Derivatives", *Saudi Pharmaceutical Journal*, 5, 103-109 (1997).

23. Dana M. Bakheet, K.E.H. El-Tahir, M.I. Al-Sayed, H.A. El-Obeid and K.A. Al-Rashood, "Studies on the Cardiovascular Depressant Effects of N-ethyl- and N-benzyl-1,2-diphenylethanolamines in Rat: Elucidation of Mechanisms of Action", *General Pharmacology, the Vascular System*, 33, 17-22 (1999).
24. D.M. Bakhett, K.E.H. El Tahir, M.I. Al-Sayed, H.A. El-Obeid and K.A. Al-Rashood, "Studies on the Spasmolytic and Uterine Relaxant Actions of N-ethyl- and N-benzyl-1,2-Diphenylethanolamines: Elucidation of the Mechanisms of Action". *Pharmacological Research*, 39, 463-470 (1999).
25. Sami G. Abdelhamid, Humeida A. El-Obeid, Abdelrahman A Al-Majed, Hassan A. El-Kashef and Hussein I. El-Sabbagh, "Synthesis and Anticonvulsant Activity of Some New 4-Oxo-3H-quinazoline Analogs". *Med Chem Res*, 10, 378-389 (2001).
26. S. G. Abdelhamid, H. A. El-Obeid, K. A. Al-Rashood, A. A. Khalil and H. El- Sabbagh, "Substituted Quinazolines: 1. Synthesis and Antitumor Activity of Certain Substituted 2-Mercapto-4(3H)-quinazoline Analogs." *Scientia Pharmaceutia (Sci. Pharm.)*, 69, 351-366 (2001).
27. E.A. Gadkariem, H.A. El-Obeid, M.A. Abounassif, S.M. Ahmed, K.E.E. Ibrahim, "Effects of Alkali and Simulated gastric and Intestinal Fluids on Danazol Stability". *J. Pharmaceut. Biomed. Anal*, 31, 743-751 (2003).
28. E.A. Gadkariem, H.A. El-Obeid, F. Belal, M.A. Abounassif, K.E.E. Ibrahim, "Chemical and Photochemical Stability Studies on Diloxanide Furoate in Carbohydrates and Polyols Solutions". *J. Food and Drug Analysis*, 12, 299-305 (2003).
29. E.A. Gadkareim, F. Belal, M.A. Abounassif, H.A. El-Obeid, K.E.E. Ibrahim, "Stability Studies on Diloxanide Furoate: Effect of pH, Temperature, Gastric and Intestinal Fluids". *II Farmaco*, 59, 323-329 (2004).
30. M.A. Abounassif, H.A. El-Obeid, E.A. Gadkariem, "Stability Studies on Some Benzocycloheptane Antihistaminic Agents. *J. Pharmaceut. Biomed. Anal.* 36, 1011-1018 (2005).

REVIEW ARTICLES

1. A.A. Al-Badr and H.A. El-Obeid, "Probenecid", *Analytical Profiles of Drug Substances*, Editor K. Florey, Academic Press, New York, 10, 639-663 (1981).
2. H.A. El-Obeid and A.A. Al-Badr, "Mestranol", *Analytical Profiles of Drug Substances*, Editor K. Florey, Academic Press, New York, 11, 375-406 (1982).
3. A.A. Al-Badr and H.A. El-Obeid, "Oxyphenbutazone", *Analytical Profiles of Drug Substances*, Editor K. Florey, Academic Press, New York, 13, 333-360 (1984).
4. H.A. El-Obeid and A.A. Al-Badr, "Acetaminophen", *Analytical Profiles of Drug Substances*, Ed. by K. Florey, Academic Press, New York, Vol. 14, p. 551-96 (1985).

5. A.A. Al-Badr and H.A. El-Obeid, "Chloramphenicol", *Analytical Profiles of Drug Substances*, Ed. by K. Florey, Academic Press, New York, Vol. 15, p. 701-760 (1986).
6. H.A. El-Obeid, S. Babhair and A.A. Al-Badr, "Pirenzepine Hydrochloride" *Analytical Profiles of Drug Substances*, Ed. by K. Florey, Academic Press, New York, Vol. 16, 445-506 (1987).
7. A.A. Al-Badr and H.A. El-Obeid, "Primidone", *Analytical Profiles of Drug Substances*, Ed. by K. Florey, Academic Press, New York, Vol. 17, p. 749-95 (1988).
8. H.A. El-Obeid and A.A. Al-Badr, "D-Cycloserine" *Analytical Profiles of Drug Substances*, Ed. by K. Florey, Academic Press, New York, Vol. 18, p. 567-597 (1989).
9. Humeida A. El-Obeid and Abdullah A. Al-Badr, "Aminobenzoic Acid", *Analytical Profiles of Drug Substances and Excipients*, Ed. by H.G. Brittain, Academic Press, New York, Vol. 22, p. 33-106 (1993).
10. Abdullah A. Al-Badr and Humeida A. El-Obeid, "Acetohexamide", *Analytical Profile of Drug Substances and Excipients*, Ed. by H.G. Brittain, Academic Press, New York, Vol. 21, p. 1-41 (1992).
11. Mohammed S. Mian, Humeida A. El-Obeid, and Abdullah A. Al-Badr, "Procainamide Hydrochloride", *Analytical Profile of Drug Substances and Excipients* Ed. by H. G. Brittain, Academic Press, New York, Vol. 28, p. 251-332 (2001).
12. Abdullah A. Al-Badr and Humeida A. El-Obeid, "Acetylcholine Chloride: Physical Profile", *Analytical Profile of Drug Substances, Excipients and Related Methodology*, Vol. 31, p.3-19 (2004).
13. Abdullah A. Al-Badr and Humeida A. El-Obeid, "Acetylcholine Chloride: Analytical Profile", *Analytical Profile of Drug Substance, Excipients and Related Methodology*, Vol. 31, p.21-115 (2004).

ANALYTICAL RESEARCH ARTICLES

1. R.B. Salama and H.A. El-Obeid, "A Colorimetric Method for the Determination of Isoprenaline Sulphate in Pharmaceutical Preparations." *Analyst*, 101, 136-139 (1976).
2. H.A. El-Obeid and M.M.A. Hassan, "PMR Determination of Cineole in Eucalyptus Oil." *Spectroscopy Letters*, 12, 427-38 (1979).
3. H.A. El-Obeid and M.M.A. Hassan, "PMR Assay of Essential Oils: II. Assay of Methylsalicylate in Wintergreen Oil." *Spectroscopy Letters*, 12, 555-557 (1979).
4. M.M.A. Hassan, El-Sayed Aboutable and H.A. El-Obeid, "PMR Assay of Essential Oils III. Assay of Allylisothiocyanate in Mustard Oil." *Spectroscopy Letters*, 13, 199-204 (1980).
5. J.S. Mossa, H.A. El-Obeid and M.M.A. Hassan. "PMR Assay of Essential Oils IV. Assay of Carvone in Caraway and Dill Oils." *Spectroscopy Letters*, 13, 49-57 (1980).
6. H.A. El-Obeid, M.M.A. Hassan and J.S. Mossa, "PMR Assay of Essential Oils V. Assay of Benzyl Benzoate and Benzyl Cinnamate in Balsams." *Spectroscopy Letters*, 13, 361-371 (1980).
7. H.A. El-Obeid and A.I. Jado, "A New Colorimetric Assay of Sulfonamides in Pharmaceutical Formulations." *Analytical Lett.*, 14, 129-136 (1981).
8. H.A. El-Obeid and A.A. Al-Badr, "PMR Assay of Probenecid in Pharmaceutical Formulations." *Pharmazie*, 36, 648-9 (1981).
9. Elsayed Aboutable, Humeida A. El-Obeid and M.M.A. Hassan, "PMR Assay of Essential Oils VI. Assay of Oils containing Benzaldehyde, Cinnamaldehyde and Citral", *Pharmazie*, 37, 213-214 (1982).
10. Humeida A. El-Obeid, Jaber S. Mossa and Mahmoud M.A. Hassan, "PMR Assay of Essential Oils VII. Assay of Linalool in Coriander Oil", *Analytical Lett.*, 15(A9), 757-761 (1982).
11. Humeida A. El-Obeid, "Colorimetric Determination of Epinephrine, Norepinephrine and Isoproterenol in Pharmaceutical Dosage Forms", *Analytical Lett.*, 17(B9), 771-777 (1984).
12. Humeida A. El-Obeid, "Determination of Diethylcarbamazine Citrate in Tablets by Proton Magnetic Resonance", *Spectroscopy Letters*, 17, 361-367 (1984).
13. H.A. El-Obeid, A.E. Madani, J.S. Mossa, M.S. Rashed and M.A. Ibrahim, "Spectroscopic Determination of Cinnamaldehyde in Cinnamon and Cassia Oils", *Pharmazie*, 39, 778-9 (1984).
14. A.M. Wahbi, M.A. Abounassif, H.A. El-Obeid and E.A. Gad-Kareim, "Spectrophotometric Determination of Pirenzepine Dihydrochloride Using ΔA method". *IL Farmaco*, 40, 334-338 (1985).
15. A.M. Wahbi, M.A. Abounassif, H.A. El-Obeid and A.M. Al-Julani, "Determination of Pirenzepine Dihydrochloride in the Presence of Degradation Products Using First Derivative Spectrophotometry", *Arch. Pharm. Chem., Sci. Ed.*, 14, 69-72 (1986).
16. A.M. Wahbi, H.A. El-Obeid and E.A. Gad-Karim, "Spectrophotometric Determination of Diethylcarbamazine Citrate via Charge-Transfer Complex", *IL Farmaco*, 41, 210-214 (1986).
17. F.S. El-Shafie, E.A. Gad-Kariem, K.A. Al-Rahood, H.A. Al-Khamees and Humeida A. El-Obeid, "Colorimetric Method for the Determination of Ampicillin and Amoxicillin", *Analytical Letters*, 29(3), 381-393 (1996).
18. H.A. El-Obeid, E.A. Gad-Kariem, K.A. Al-Rashood, H.A. Al-Khamees, F.S. El-Shafie and G.A.M. Bawazeer, "A Selective Colorimetric Method for the Determination of Penicillins and Cephalosporins with α -Aminoacyl Functions". *Analytical Letters*, 32, 2809-2823 (1999).

19. E. A. Gagkariem, K. E.E. Ibrahim, N. A. A. Kamil, M. E M. Haga and H. A. El-Obeid, "A new Spectrophotometric Method for the Determination of Methyldopa", *Saudi Pharmaceutical Journal*, 17, 303-309 (2009).

ABSTRACTS PRESENTED BEFORE MEETINGS

(HUMEIDA ALI EL-OBEID, Ph.D.)

1. H.A. El-Obeid and M. Akhtar. "Glycidaldehyde: an Inhibitor Directed Towards the C₁ Unit Binding Site of Serine Transhydroxymethylase."
Presented before the Biochemical Society Meeting, Southampton, England (1973).
2. H.Y. Aboul-Enein and H.A. El-Obeid. "Synthesis and MAO Inhibitory Activity of Pentafluorobenzylidenes and their Corresponding Hydrazines."
Presented before the VIth International Symposium of Medicinal Chemistry, Brighton, England (4th-7th September, 1978).
3. A.E. Madani, H.A. El-Obeid, A.K. Tilmisany and K.A. Al-Rashood, "Synthesis and Pharmacological Activity of Some N-Substituted-1,2-Diphenyl- ethanolamines."
Presented before the 31st National Meeting, Academy of Pharmaceutical Sciences, American Pharmaceutical Association, Orlando, Florida, Nov. 15-19, 1981. Vol. 11, No. 2, Abstract No. 19, page 115.
4. H.A. El-Obeid, A.E. Madani and D.R. Feller, "Spectral and Enzymatic Characteristics of the N-Demethylation of Ephedrine and α -Phenyl Homolog in Rabbit Liver Microsomes."
Presented before the Annual Meeting of the American Society for Pharmacology and Experimental Therapeutics (ASPET 1983), Philadelphia, Pennsylvania, U.S.A. (1983).
Published in the *Pharmacologist*, 25(3), 856 (1983).
5. T.A. Kocarek, H.A. El-Obeid, A.E. Madani and D.R. Feller, "N-Demethylation of Ephedrine Isomers and α -Phenyl Homolog in Rabbit Liver Microsomes: Effect of Induction."
Presented before the Annual Meeting of the American Society for Pharmacology and Experimental Therapeutics (ASPET 1984), Indianapolis, Indiana, U.S.A. (1984).
6. H. A. El-Obeid , M. A. Abounassif , E. A. Gad-Kariem and K. E. Ibrahim, " Chemical and Photochemical Stability Studies on Danazol in Carbohydrates and Polyols Solutions." Presented before the IUPAC-2005 Meeting, organized by the Chinese Chemical Society, Beijing, China, August 2005.

