

CURRICULUM VITAE
Dr. Mona Mohamed Aly Bedair



Name : Prof. Dr. Mona Mohamed Aly Bedair
Birth Date : February, 2, 1950.
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Scientific Degrees:

1. B. Pharm. Sci. (Bachelor in Pharmaceutical Sciences), Distinction Honors (July 1973), *Faculty of Pharmacy, University of Alexandria, Egypt.*
2. M. Pharm. Sci. (Master in Pharmaceutical Analytical Chemistry), (20/8/1977), *Faculty of Pharmacy, University of Alexandria, Egypt.*
3. Ph. D. of Pharmaceutical Analytical Chemistry), (21/7/1980) *Faculty of Pharmacy, University of Alexandria, Egypt.*

Present Position: Vice Dean for Post Graduate Studies and Research Faculty of Pharmacy, University of Alexandria.

Professional Carrier :

1) 1973-1980 :

Demonstrator in the Dept. of Pharm. Anal. Chem., Faculty of Pharmacy, University of Alexandria.

2) 1980-1982 :

Lecturer, Dept. of Pharm. Anal. Chem., Faculty of Pharmacy, University of Alexandria.

3) 1982-1986 :

Lecturer in Faculty of Science, Congo Brazzaville.

4) 1984-1986 :

Lecturer, Dept. of Pharm. Anal. Chem., Faculty of Pharmacy, University of Alexandria.

5) 1986-1992 :

Assistant Professor, Dept. of Pharm. Anal. Chem., Faculty of Pharmacy, University of Alexandria.

6) 1992-2003 :

Professor, Dept. of Pharm. Anal. Chem., Faculty of Pharmacy, University of Alexandria.

7) 1994-2006

Visiting Professor, Dept. of Pharm. Anal. Chem., Faculty of Pharmacy, Beriut Arab University, Beriut, Lebanon.

8) 2003-2006

Head of Department of Pharmaceutical Analytical Chemistry, Faculty of Pharmacy, University of Alexandria.

2007 up till now

Vice Dean for postgraduate studies and research, Faculty of Pharmacy, University of Alexandria.

Scientific and Professional Activity :

1- Courses taught for undergraduate students:

- Qualitative Analytical Chemistry.
- Quantitative Analytical Chemistry.
- Instrumental Analysis.
- Applied Analytical Chemistry (water, lipid and milk analysis)
- Pharmaceutical Analysis.

2- Courses taught for postgraduate students:

- Advanced instrumental analysis.
- Statistics and data assessment.
- Drug Quality Control and Drug Quality Assurance.
- Functional group analysis.

3- Publication : 57 scientific research papers are published in an International Journal in the field of drug analysis.

4- Supervision of Scientific theses.

5- Awards: Award of Alexandria University for Scientific Encouragement, 1988.

6- Projects :

- a) Co-principle investigator for **HEEPF Project (B-003-H0)** carried out in the department of pharmaceutical analytical chemistry with a title :
"Development and Application of Advanced Instrumental Analysis and Drug Quality Control Curriculum (**DAQC**), duration 2004-2006".
- b) Member of Continuous Improvement, Qualifying for Accreditation program **CIQAP** for Faculty of pharmacy, University of Alexandria

- 7- **Member of the committee for promotion** of assistant professor (Pharmaceutical Chemistry) of Egyptian Universities.
- 8- **Member of the committee for promotion** of the staff of National Organization for Drug Control and Research (NODCR).
- 9- **General supervisor** of Instrumental Lab., Faculty of Pharmacy, University of Alexandria.
- 10- **Peer reviewing committee**, member of handover committee of HEEPF project of Faculty of Pharmacy, University of Swiss Canal (D-112-Q0).
- 11- **Member of handover committee** of member of handover committee of HEEPF project of Faculty of Pharmacy, University of Swiss Canal (D-112-Q0).

Supervised Scientific Theses :

A- Master Theses :

- 1- "Assay of certain drugs having diaza-five membered skeleton and their mixtures", Ossama Tawfik Fahmy, 1989.
- 2- "Analysis of certain drugs in multicomponent formulations", Alaa Abdel-Raouf El-Gindy, 1990.
- 3- "Application of certain reactions to the assay of some carboxylic acids and their derivatives in pharmaceutical preparations", Azza Gazy, 1990.
- 4- "Analysis of certain benzenoid compounds in their pharmaceutical preparations", Rim Said Mahmoud Haggag, 1996.
- 5- "Determination of some anti-infective drugs in their pharmaceutical preparations", Heba Kamal Ashour, 2000.
- 6- "Application of advanced separation techniques to the determination of certain pharmaceutical compounds in their formulations", Sherif Mahmoud Shousha, 2004.

B- Ph. D. theses :

- 1- "Assay of antipyretics, analgesics and hypnotics in changeable matrices", Hoda Mahgoub A. Nagy, 1987.
- 2- "Analysis of certain guanido compounds of pharmaceutical interest", Azza Gazy 1990.
- 3- "Instrumental analysis of some antioxidant and antiarterioscleratic drugs, Reem Haggag, 1996.

List of Publications :

- 1- Spectrophotometric determination of some sulphonamide derivatives in pharmaceutical preparations, S. Belal, S.A. Soliman and **M. Bedair**, **J. Drug. Res. Egypt**, **14**, 195-201 (1983).
- 2- Improvement of end-point detection in the non-aqueous titration of sulphacetamide sodium, S.A. Soliman, S. Belal and **M. Bedair**, **Talanta**, **31(4)**, 285-286 (1984).
- 3- Spectrophotometric determination of methylphenobarbitone by use of orthogonal polynomials, A.M. Wahbi, S. Belal, H. Abdine and **M. Bedair**, **Talanta**, **29b**, 931-935 (1982).
- 4- Spectrophotometric determination of some penicillins using orthogonal polynomials, A.M. Wahbi, S. Belal, **M. Bedair** and H. Abdine, **Pharmazie**, **37**, 641-645 (1982).
- 5- Spectrophotometric determination of some cephalosporins in presence of alkaline induced degradation products, A.M. Wahbi, S. Belal, **M. Bedair** and H. Abdine, **Egypt. J. Pharm. Sci.**, **23**, 151-166 (1982).
- 6- Spectrophotometric determination of thiamine hydrochloride using Orthogonal polynomials, A.M. Wahbi, S. Belal, H. Abdine and **M. Bedair**, **Analyst.**, **106**, 960 (1981).
- 7- Spectrophotometric determination of procaine hydrochloride in presence aminobenzoic acid using combined polynomial method. A.M. Wahbi, S. Belal, **M. Bedair** and H. Abdine, **J. Assoc. Off. Anal. Chem.**, **64**, 1179-1184 (1981).
- 8- Spectrophotometric determination of chlordiazepoxide and diazepam using orthogonal polynomials, **M. Bedair**, M.A. Korany and M.E. Abdel-Hamid. **Analyst**, **109**, 1423-1426 (1984).
- 9- Determination of some 1,4-benzodiazepines by second derivative spectrophotometry, M. Abdel-Hamid, M.A. Korany and **M. Bedair**, **Acta Pharm. Jugosl.**, **34**, 183 (1984).
- 10- Spectrophotometric determination of codeine, emetine, and pilocarpine using P-chloranillic acid, M. Abdel-Salam, M. Abdel-Hamid and **M. Bedair**, **Egypt. J. Pharm. Sci.**, **25**, 303-308 (1984).

- 11- Use of orthogonal polynomials for unequal intervals to eliminate interferences in spectrophotometric analysis. Simultaneous determination of ephedrine hydrochloride and diphenhydramine hydrochloride in two-component mixtures, M.A. Korany, **M. Bedair** and F.A. El-Yazbi, **Analyst.**, **110** (1985).
- 12- Application of derivative-differential U.V. spectrophotometry for the determination of oxazepam or phenobarbitone in the presence of dipyridamole. F.A. El-Yazbi, M.A. Korany and **M. Bedair**, **J. Pharm. Belg.**, **40(4)**, 244-248 (1985).
- 13- Identification of some β -adrenergic blockers, M.E. Abdel-Hamid, **M. Bedair** and M.A. Korany, **Pharmazie**, **40(7)**, 494-495 (1985).
- 14- A sensitive colorimetric method for the determination of imperamine hydrochloride and desipramine hydrochloride, F.A. El-Yazbi, M.A. Korany and **M. Bedair**, **J. of Clinical and Hospital Pharmacy**, **10**, 373-377 (1985).
- 15- Spectrophotometric and fluorimetric determination of clonidine hydrochloride, F.A. El-Yazbi, **M. Bedair** and M.A. Koray, **Analyst.** **111**, 477-478 (1986).
- 16- U.V. Derivative spectrometric determination of hydralazine hydrochloride in combination with hydrochlorothiazide or propranolol hydrochloride. **M. Bedair**, M.A. Korany and F.A. El-Yazbi, **Sci. Pharm.**, **54**, 31-36 (1986).
- 17- Second derivative spectrophotometric determination of acetaminophen and phenacetin in presence of their degradation products, M.A. Korany, **M. Bedair**, H. Mehgoub and M.A. Elsayed, **J. Assoc. Off. Anal. Chem.**, **69**, 608-611 (1986).
- 18- Derivative spectrophotometric determination of clemastine fumarate in pharmaceutical preparations, **Mona M. Bedair**, M.A. Korany and A.S. Issa, **Analyst.**, **113**, 1137-1138 (1988).
- 19- Derivative spectrophotometric determination of clotrimazole in single formulations and combination with other drugs. **Mona M. Bedair**, M.A. Korany, M. Abdel-Hady Elsayed and Ossama T. Fahmy, **J. Assoc. Off. Anal. Chem.**, **72(3)**, 432-435 (1989).

- 20- Determination of potassium guaiacolsulphonate in a cough syrup using second derivative spectrophotometry, A.M. Wahbi, **Mona M. Bedair** and S.S. El-Omar, **Anal. Letters**, **22(4)**, 885-897 (1989).
- 21- Colorimetric determination of pharmaceutical thiocompounds and allopurinol using mercurochrome, M.A. Korany, **Mona M. Bedair**, M.A. Elsayed and Ossama T. Fahmy, **Anal. Letters**, **22(8)**, 1909-1925 (1989).
- 22- Colorimetric determination of some penicillins and cephalosporins with 2-nitrophenyl hydrazine hydrochloride, M.A. Korany, M. Abdel-Hay, **Mona M. Bedair** and A. Gazy, **Talanta**, **36(12)**, 1253-1257 (1989).
- 23- Spectrofluorimetric determination of three pharmaceutical thiocompounds and allopurinol using mercurochrome. **Mona M. Bedair**, M.A. Korany, M. Abdel-Hady Elsayed and Ossama T. Fahmy, **Spectroscopy Letters**, **23(2)**, 161-173 (1990).
- 24- Colorimetric determination of seven nonsteroidal anti-inflammatory drugs using 2-nitrophenylhydrazine hydrochloride, M.H. Abdel-Hay, M.A. Korany, **M. Bedair**, and A. Gazy, **Anal. Letters**, **32(2)**, 281-294 (1990).
- 25- Determination of phenolphthalein and aloin in pharmaceutical tablets by normal phase HPLC, A.M. El-Walily, M.A. Korany, **Mona M. Bedair**, A. El-Gindy, **Anal. Letters**, **23(3)**, 473-486 (1990).
- 26- An interactive computer program for multicomponent spectrophotometric analysis using orthogonal polynomials, M.A. Korany, M.A. Elsayed, **Mona M. Bedair**, H. Mahgoub and Ezzat A. Korany, **Anal. Letters**, **23(3)**, 507-527 (1990).

- 27- Determination of chlorpheniramine maleate, dihydrocodeine bitartrate, and ephedrine hydrochloride in cough mixture by derivative and differential spectrometry, M.A. Korany, **Mona M. Bedair** and A. Al-Gindy, **J. Pharm. Belg.**, **45(4)**, 252-258 (1990).
- 28- Computer-assisted spectrophotometric method for the assay of acetaminophen and phenacetin in presence of their degradation products using combined orthogonal polynomials, M.A. Elsayed, M.A. Korany, **Mona M. Bedair**, H. Mahgoub and Ezzat A. Korany, **Drug Dev. & Ind. Pharm.**, **16(6)**, 1011-1024 (1990).
- 29- Analysis of diphenhydramine hydrochloride and naphazoline hydrochloride in presence of methylene blue in eye-drops by second derivative spectrophotometry, M.A. Korany, **Mona M. Bedair** and A. El-Gindy, **Drug Dev. & Ind. Pharm.** **16(9)**, 1555-1564 (1990).
- 30- Derivative spectrophotometric determination of glibenclamide, mebeverine hydrochloride and clopamide in the presence of their alkaline-induced degradation products, **Mona M. Bedair**, M.A. Korany, M.H. Abdel-Hay and A. Gazy, **Analyst.**, **115**, 449-453 (1990).
- 31- Computer-assisted spectrophotometry : Multicomponent analysis with a discrete Fourier transform, M.A. Korany, M.A. Elsayed, **Mona M. Bedair**, Hoda Mahgoub and Ezzat A. Korany, **Talanta**, **37(12)**, 1183-1188 (1990).
- 32- Use of 2,3-dichloro-1,4-naphthoquinone for the spectrophotometric assay of five thiocompounds of pharmaceutical importance. **Mona M. Bedair**, **Alex. J. Pharm. Sci.**, **5(1)**, 64-67 (1991).
- 33- Spectrophotometric determination of aspartame, **Mona M. Bedair**, **Alex. J. Pharm. Sci.**, **5(1)**, 34-37 (1991).
- 34- Derivative spectrophotometric determination antiprotozoal drugs in two-component tablet preparations. S.M. Galal, **Mona M. Bedair** and M.A. Elsayed, **J. Pharm. Belg.**, **46(4)**, 93-99 (1991).

- 35- Spectrophotometric determination of cimetidine in the presence of its acid-induced degradation products, **Mona M. Bedair**, M.A. Elsayed, M.A. Korany and Ossama T. Fahmy, **J. Pharm. & Biomed. Analysis**, **9(4)**, 291-296 (1991).
- 36- High Performance Liquid Chromatography determination of benzocaine and phenindamine tartrate n cream, A.M. El-Walily, M.A. Korany, **Mona M. Bedair** and A. El-Gindy, **Anal. Letters**, **24(5)**, 781-795 (1991).
- 37- Spectrophotometric determination of aldehydes in alcohols, Magda H. Barary, F.A. El-Yazbi and **Mona M. Bedair**, **Anal. Letters**, **24(5)**, 857-869 (1991).
- 38- Second derivative spectrophotometric determination of some weakly absorbing drugs in their formulations, **Mona M. Bedair**, Fawzy A. El-Yazbii and Shreen Galal, **Alex. J. Pharm. Sci.**, **5(2)**, 143-146 (1991).
- 39- Spectrophotometric and colorimetric determination of etilefrine hydrochloride and oxedrine tartrate, F.A. El-Yazbi, **Mona M. Bedair** and Magda H. Barary, **Alex. J. Pharm. Sci.**, **(5(2))**, 125-127 (1991).
- 40- In isocratic reversed-phase separation and determination of phenobarbitone, mehtylphenobarbitone and phenytoin in tablets by High Performance Liquid Chromatography, A.M. Wahbi, A.M. El-Walily, **Mona M. Bedair** and A. El-Gindy, **Drug Dev. & Ind. Pharm.**, **Vol. 17(16)** (1991).
- 41- Application of derivative differential UV spectrophotometry for the determination of triamterene in combination with hydrochlorothazide or xipamide, **Mona M. Bedair** and Magda H. Barary, **Bull. Fac. Pharm. Cairo Univ.**, **29(2)**, 1-5 (1991).
- 42- Colorimetric determination of β -adrenergic blocking drugs in tablets using 1,2-dichloro-1,4-naphthoquinone, **Mona M. Bedair**, S.M. Galal and F.A. El-Yazbi, **Sci. Pharm.**, **60**, 235-238 (1992).

- 43- Computer assisted spectrophotometric analysis of three component mixtures (Caffeine mixture and codeine mixtures), M.A. Abdel-Hady Elsayed, Mohamed A. Korany, **Mona M. Bedair**, M.A. Mahgoub and Ezzat A. Korany, **Anal. Lett.**, **25(2)**, 239-252 (1992).
- 44- Spectrofluorimetric determination of guanethidine sulphate, guanoxan sulphate and amiloride hydrochloride in tablet using 9-10 phenanthraquinone, Mohamed H. Abdel-Hay, Shreen M. Galal, **Mona M. Bedair**, Azza A. Gazy and Abdel-Aziz Wahbi, **Talanta**, **39(10)**, 1369-1375 (1992).
- 45- Spectrophotometric and spectrofluorimetric determination of amiloride hydrochloride in tablet and in biological fluids, A.M. Wahbi, **M.M. Bedair**, S.M. Galal and A.A. Gazy, **S.t.p. Pharma Sciences** **3(2)**, 182-188 (1993).
- 46- Spectrophotometric analysis of some guanido drugs by acid-dye and charge-transfer complexation methods, Abdel-Aziz M. Wahbi, **Mona M. Bedair**, Shreen M. Galal and Azza A. Gazy, **J. Pharm. & Biomed. Analysis**, **11(8)**, 639-645 (1993).
- 47- Colorimetric determination of guanethidine sulphate, guanoxan sulphate, and amiloride hydrochloride in tablets, **Mona M. Bedair**, Shreen M. Galal, Azza A. Gazy and Abdel-Aziz M. Wahbi, **Microchem. J.**, **50**, 94-110, (1994).
- 48- Difference spectrophotometric determination of guanoclor hemi-sulphate, Shreen M. Galal, **Mona M. Bedair**, Azza A. Gazy and Abdel-Aziz M. Wahbi, **Alex. J. Pharm. Sci.**, **7(2)**, 124-127 (1993).
- 49- Spectrofluorimetric determination of guanethidine sulphate, guanoclor sulphate and guanoxan sulphate in tablets and biological fluids, using benzoin, Abdel-Aziz M. Wahbi, **Mona M. Bedair**, Shreen M. Galal, Mohamed H. Abdel-Hay and Azza Gazy, **Mikrochim. Acta**, **111**, 83-91 (1993).
- 50- Determination of cinnarize in presence of its degradation, A.M. Wahbi, A.M. El-Walily, **Mona M. Bedair** and A. El-Gindy, **Egypt. J. Pharm.**, **34(1-4)** : 35-46 (1993).
- 51- The use of Fourier descriptors for the spectrometric identification of substances. Identification of some benzenoic compounds, Ezzat A.

- Korany, Mohamed A. Korany, **Mona M. Bedair**, Ismail I. Hewala and Reem S. Haggag, **Anal. Lett.**, **3(8)**, 1387-1406 (1998).
- 52- Extraction-spectrophotometric determination of phenytoin in capsules and plasma using potassium permanganate/dicyclohexane-24-crown-8, Mohamed A. Korany, **Mona M. Bedair** and Rim S. Haggag, **Talanta**, 46, 9-14, 1998.
- 53- Colorimetric determination of mebeverine hydrochloride in tablets by charge transfer complexation, Ekram M. Hassan, Azza A. Gazy and **Mona M. Bedair**, **Drug Develop. & Ind. Pharm.**, **21(5)**, 633-638 (1995).
- 54- Spectrophotometric and Polarographic Determination of Enalapril and Lisinopril using 2,4-dinitrofluorobenzene. O. Abdel-Razak, S.F. Belal, **Mona M. Bedair**, N.S. Barakat and R.S. Haggag, **J. Pharm. Biomed. Anal.**, **31** (2003).
- 55- Utilization of Copper (II) Phosphate for Anodic Stripping Voltammetric Assay of Alendronate Sodium, Desferrioxamine Mesylate and Lisinopril, O. Abdel-Razak, S.F. Belal, **Mona M. Bedair** and R.S. Haggag, **Talanta**, **59**, 1061-1069 (2003).
- 56- Spectrophotometric Stability Indicating Assay of Enalapril and Study of Its Degradation, O. Abdel-Razak, S.F. Belal, **Mona M. Bedair** and R.S. Haggag, **Bull. Fac. Pharm., Cairo Univ.**, **42**, 1-7 (2004).
- 57- Polarographic determination of fenofibrate and bezafibrate in pharmaceutical preparations and their bioactive forms in plasma O. Abdel Razak, S.F. Belal, **M.M. Bedair**, R.S. Haggag **Bull. Fac. Pharm. Cairo Univ.**, 42(1)251-257 (2004).
- 58- Validated Chromatographic Method For Quantitative Determination of Clotrimazole and Dexamethasone Acetate in Pharmaceutical Preparations, a paper presented to the AAPS annual meeting 2009, held in Los Angeles, USA.

59 – First Derivative Spectrophotometric Determination Of Hydrochloride
in Presence Of Its Hydrolytic Product And Preservatives And Application To
Pharmaceutical Preparations.

Hewala I. I , Bedair M .M. and Shousha S.
J. Drug Testing and Analysis DOI 10.1002/297(2011)

60- New Concept For HPLC Peak Purity Assessment and Identification Of Drugs
In Multi-Component Mixtures.

Ismail I .Hewala , Mona M.Bedair , Sherif Shousha
Talanta , 88(2012) 623-630.

61- Validated Spectrophotometric Methods For Determination Of Nabumetone In
Tablets Dosage Form Using Three Dinitrobenzene Reagents.

Mona M. Bedair , Azza A.Gazy , Tarek S.Belal and Karin M. Guirgis .
Research J. of Pharmaceutical , Biological and Chemical sciences , 4(4) ,
1001-1014 (2013) .

62- Stability – Indicating HPLC Determination of Chloramphenicol, Its
Degradation Product, Dexamethazone Sodium Phosphate and Tetrahydrozoline.

Mona M. Bedair , Ismail I. Hewala and Heba K.Ashour.
A Paper Presented To The AAPS Annual Meeting 2013 held in San Antonio ,
USA.

63- Validated Selective HPLC-DAAD Method For The Simultaneous
Determination Of Diclofenac Sodium And Lidocaine Hydrochloride In
Presence Of Four Of Their Related Substances and Potential Impurities.

T.S.Belal , M. M. Bedair , A .A.Gazy, k.M. Guirgis)
J. Acta Chromatographica