

CURRICULUM VITAE

Dr. Mona Mohamed Aly Bedair

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

- 1- B. Pharm. Sci. (Bachelor in Pharmaceutical Sciences), Distinction Honours (Jun. 1973) *Faculty of Pharmacy, University of Alexandria, Egypt.*
- 2- M. Pharm. Sci. (Master in Pharmaceutical Sciences), (Jun. 1977) *Faculty of Pharmacy, University of Alexandria, Egypt.*
- 3- Ph. D. of Pharmaceutical Sciences (July 1980) *Faculty of Pharmacy, University of Alexandria, Egypt.*

Present Position:

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

Professional Career:

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 - 1984 :

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 - 1997 :

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

8- 2003 up till now :

Head of Department of Pharmaceutical Analytical Chemistry, 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 analyses)
- 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.

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

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.

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 of 4-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 imepramine 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. Korany, **Analyst**. **111**, 477-478 (1986).
 - 16- U.V. Derivative spectrometric determination of hydralazine hydro-chloride in combination with hydrochlorothiazide or propranolol hydrochloride. **M. Bedair**, M.A. Korany and F.A. El-Yazni, **Sci. Pharm.**, **54**, 31-36 (1986).
 - 17- Second derivative spectrophotometric determination of acetamino-phen and phenacetin in presence of their degradation products, M.A. Korany, **M. Bedair**, H. Mahgoub 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 thio-compounds 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, **Mona M. Bedair**

- and Z. Gazy, **Anal. Letters**, **23(2)**, 281-294 (1990).
- 25- Determination of phenolphthalein and aloin in pharmaceutical tablets by normal phase HPLC, A.M. Walily, M.A. Korany, **Mona M. Bedair**, A. El-Gindy, **Anal. Letters**, **23(3)**, 473-486 (1990).
 - 26- An interactive computer program for multicomponent spectro-photometric 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 chlopheniramine 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 acitaminophen 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 S discrete Fourier transform, M.A. Korany, M.A. Elsayed, **Mona M. Bedair**, Hoda Mahgoub and Ezzat A. Korany, **Talanta**, **37(12)**, 1183-1188 (1999).
 - 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 deugs in two-component tablet preparations. S.M. Galal, **M.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. Fahmv. **J. Pharm. & Biomed. Analvsis**. **9(4)**. 291-296 (1991).

- 36- High Performance Liquid Chromatography determination of benzocaine and phenindamine tartrate in 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-Yazbi 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 Madga H. Barary, **Alex. J. Pharm. Sci.**, **5(2)**, 125-127 (1991).
- 40- In isocratic reversed-phase separation and determination of phenobarbitone, methylphenobarbitone and phenytoin in tablets by High Performance Liquid Chromatography, A.M. Wahbi, A.M. El-Walily, M.A. Korany, **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 hydrochloro-thiazide or xipamide, **ona 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**, 94-100, (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, **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 benzenic compounds, Ezzat A. Korany, Mohamed A. Korany, **Mona M. Bedair**, Ismail I. Hewala and dReem S. Haggag, **Anal. Lett.**, **3(8)**, 1387-1406 (1998).
- 52- Extraction-spectrophotometric determination of phenytoin in capsules and plasma using potassium permanganate/ dicyclo-hexane-24-crown-8, Mohamed A. Korany, **Mona M. Beedair** and Rim S. Haggag, **Talanta**,
- 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, **M. 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, **M. M. Bedair** and R. S. Haggag, **Talanta**, **59** (2003) 1061-1069.
- 56- Spectrophotometric Stability Indicating Assay of Enalapril and Study of Its Degradation. **Bull. Fac. Pharm., Cairo Univ.**, **42** (2004) 1-7.