

Personal Information

Name : Abdalla Ahmed Elbashir

Marital Status : Married, with children

Citizenship : Sudanese

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Biography

Dr. Abdalla Ahmed Elbashir is a professor of Chemistry, at University of Khartoum, Sudan. Prof. Elbashir received his PhD from University Science Malaysia (USM), at Penang, Malaysia. Prof. Elbashir has been awarded the prize for the best Ph.D. thesis in pure science from (USM). Prof. Elbashir has obtained a Humboldt Research Fellowship for postdoctoral researchers during which he has conducted a research at Duisburg-Essen University (Germany). Prof. Elbashir is a member of the Arab-German Young Academy of Sciences and Humanities. Prof. Elbashir is considered as a leading scientist in capillary electrophoresis (CE) and related techniques; he established and adapted several CE techniques for pharmaceutical analysis and for chiral separations. Prof. Elbashir published a book entitled *Capillary Electrophoresis Methods in Pharmaceutical Analysis* (Lambert academic publishing). Prof. Elbashir has published more than 75 papers in internationally refereed journals and participated in more than 20 international conferences in Europe and Asia. The main research interest of Prof. Elbashir is in the area of analytical chemistry with emphasis on developing chiral separation protocols using HPLC, CE and CEC. Prof. Elbashir has organized/instructed a number of short training courses on application of instrumental techniques (FTIR, AAS, GC and HPLC) in petroleum and pharmaceutical analysis. Additionally, he has been involved in teaching Analytical Chemistry and Instrumentation for undergraduate and postgraduate students as well as General Chemistry. Three PhD and 10 master students have been graduated from Prof. Elbashir research group, and currently acting as main supervisor of 5 PhD and 5 master students working in various filed of analytical chemistry.

Academic Qualifications

- **Humboldt Research Fellowship for postdoctoral researchers, March 2014 to June 2014, Duisburg-Essen University (Germany).**

- **Humboldt Research Fellowship for postdoctoral researchers, October 2012 to September 2013**, Duisburg-Essen University (Germany).
- **Ph.D. (Analytical Chemistry) *Separation Science*, March, 2008**, School of Chemical Sciences, University Sciences Malaysia. Malaysia, Penang
- **M.Sc. (Chemistry) (1996)**, University of Khartoum, Sudan
- **B.Sc. (Hons.) in Chemistry, first class with the University Prize, (1992)** University of Khartoum, Sudan

Professional

- **Professor:** University of Khartoum, Faculty of Science, Chemistry Department, January 2014 to present
- **Humboldt Research Fellow** at Duisburg-Essen University (Germany), October, September, 2013.
- **Associate Professor:** University of Khartoum, Faculty of Science, Chemistry Department, January 2010 to December 2013
- **Visiting consultant:** Sultan Qaboos University (SQU), College of Science, Chemistry Department, September 2010 to January 2011, and February 2012 to June 2102.
- **Assistant Professor:** University of Khartoum, Faculty of Science, Chemistry Department, 2008 to December 2009.
- **Lecturer**, Gezira University, Sudan 1998-2005
- **Chief Analytical Chemist:** 1996-1998, Quality control of raw materials and finished products, using various analytical techniques, HPLC, GC, FTIR, UV, etc EL-Shifa Pharmaceuticals Industries Company, Khartoum, Sudan.
- **Research Assistant**, National centre for research, Khartoum, Sudan, 1993-1996.
- **Part-time Teaching Assistant**, University of Khartoum, Sudan (1992-1996)

Research Interests

- Analysis of polyamines and proteins as cancer biomarkers, using CE-LIF, CE-MS, and HPLC-MS

- Development of sample preparation techniques for determination of pesticide residues, mycotoxins, acrylamides, and bisphenol in food, and environmental samples
- **SupramolecularMolecular chemistry of cucurbituril, and cyclodextrins and their analytical Applications**
- Synthesis of nano-materials and analytical application as biosensor and as magnetic molecularly imprinted polymer (MMIP) for sample preparation.
- Chiral analysis.
- Techniques such as GCMS, LCMS, HPLC, CE, CEC are of prime interest.

Courses Taught

** Undergraduate level courses*

General Chemistry CHM 101 CHM 102: States of matter, ionic and chemical equilibrium, thermo chemistry, Faculty of Pharmacy, Medicine and Science University of Khartoum

Analytical chemistry

CHM 401 separation techniques, chromatography, GC, HPLC, TLC, SFC, capillary electrophoresis

CHM 501: Electroanalytical techniques: Potentiometric, Coulometric, voltammetry and polarography

CHM 302: Classical analytical methods, volumetric and gravimetric analysis, solvent extraction , Molecular and Atomic spectroscopy

CHM 502: Thermal analysis techniques, radiochemical methods, Mass spectroscopy, X-ray diffraction and XRF.

Introduction to Analytical Chemistry: Medical Laboratory Program, Nile College, Omdurman.

Pharmaceutical analysis: Al-neelin University, Faculty of pharmacy

Gezira University, Teaching the following organic courses

General organic chemistry, Aromaticity & aromatic compounds

Organic Spectroscopy, Organic synthesis, Organic stereochemistry and reaction mechanism, Natural product

In addition supervised several final year research projects

*** *Postgraduate level courses***

Instrumental Analysis: Medical doctorate (MD) part I, Pathology, Faculty of Medicine, University of Khartoum.

Advanced chromatography MCA-611, supercritical chromatography, chiral chromatography, affinity chromatography, ion pair chromatography, M.Sc. Chemistry Department, University of Khartoum

Hyphenated techniques and speciation analysis MCA-622: MSc. chemistry, Chemistry Department, University of Khartoum

Method of Analysis of food components and additive MCA-711: MSc. chemistry, Chemistry Department, University of Khartoum

Advanced chromatography and electromigration techniques: University of Medical Sciences and Technology (UMST)

Administration Work

Administration work

- Coordinator of master in chemistry by courses, University of Khartoum, Chemistry Department, 2008 to 2011
- Manager: Central Lab. University of Khartoum, Faculty of Science

Research Collaborations

Currently I have collaboration with the following research group

1. University of Duisburg-Essen, Institute of Applied Analytical Chemistry, Essen, Germany. **Professor Oliver J. Schmitz**
2. University of Technology Malaysia , Department of Chemistry, Johor, Malaysia, **Prof. Wan Aini Wan Ibrahim**
3. Department of Chemistry, College of Science, Sultan Qaboos University, Oman, Muscat, **Professor Fakhr Eldin O. Suliman**
4. Pharmaceutical and Medicinal Chemistry Department, National Research Centre, Cairo , Egypt, **Professor Hassan Y. Aboul-Enein**

Publications, Paper, Book

1- M.M.A. [Omar](#), A.A. [Elbashir](#), [O.J. Schmitz](#), [Capillary electrophoresis method with UV-detection for analysis of free amino acids concentrations in food](#), *Food Chemistry* 214, 2017, 300-307.

2- [S. Mohamed](#), [A.A. Elbashir](#), [H. Aboul-Enein](#) Spectrophotometric method for determination of taurine in energy drinks, *Current Pharmaceutical Analysis* 12(999):1-1 2016, DOI: 10.2174/1573412912666160422120820

3- L. Omer , H A. Elobied A.A. Elbashir, Determination of bisphenol A in exposed bottled water samples to direct sun light using multi walled carbon nanotubes as solid phase extraction sorbent, *Journal of Environmental Chemistry and Ecotoxicology*, 2016.

4- S. T. Abdel Rahman¹, A.A. Elbashir, M. El-Mukhtar, M. M. Ibrahim Application of Spectrophotometric Methods for the Determination of Thiamine (VB1) in Pharmaceutical Formulations Using 7-Chloro-4-Nitrobenzoxadiazole (NBD-Cl), *J Anal Pharm Res* 2016, 2(3): 00018.

5- N.F.A [Dsugi](#), A.A [Elbashir](#), F.E.O [Suliman.](#), [Supramolecular interaction of gemifloxacin and hydroxyl propyl \$\beta\$ -cyclodextrin spectroscopic characterization, molecular modeling and analytical application](#), *Spectrochimica Acta – Part A: Molecular and Biomolecular Spectroscopy* 151, 2015, 360-367.

6- [F.O. Suliman](#), [A.A. Elbashir](#) , [O.J. Schmitz](#) Study on the separation of ofloxacin enantiomers by hydroxylpropyl- β -cyclodextrin as a chiral selector in capillary electrophoresis: a computational approach, *J Incl Phenom Macrocycl Chem*, 2015, 83 ,119-129.

7- S.M.Ahmed A.A. Elbashir, Development and Validation of Spectrophotometric Method for Determination of Finasteride in Pharmaceutical Formulation Using 1,2-Naphthoquin-4-sulfonate (NQS), *J Anal Bioanal Tech* 2015, 6:3.

- 8- [Dsugi, N.F.A., Elbashir, A.A. Supramolecular interaction of Moxifloxacin and \$\beta\$ -cyclodextrin spectroscopic characterization and analytical application, *Spectrochimica Acta – Part A: Molecular and Biomolecular Spectroscopy*, 137,2015, 804-809.](#)
- 9- [Elbashir, A.A., Abdalla, F.A.A., Aboul-Enein, H.Y. Supramolecular interaction of 18-crown-6 ether with mesalazine and spectrofluorimetric determination of mesalazine in pharmaceutical formulations, *Luminescence*,30, 2015, 1250-1256.](#)
- 10- [Omar, M.M.A., Elbashir, A.A., Schmitz, O.J.Determination of acrylamide in Sudanese food by high performance liquid chromatography coupled with LTQ Orbitrap mass spectrometry, *Food Chemistry*, 176,2015, 342-349.](#)
- 11- K. Fatta Alrahman A.A Elbashir' H, El-obid** Development and Validation of Spectrophotometric Method for Determination of Oxyfluorfen Herbicide Residues, *Med chem* 5,2015, 383-387.
- 12- SM Ali, AA Elbashir, HY Aboul-Enein, [Spectroscopic Methods for Analysis of Cephalosporins in Pharmaceutical Formulations](#), *World Journal of Analytical Chemistry* 3,2015, 21-32.
- 13- AA Elbashir, HY Aboul-Enein, Separation and analysis of Triazines Herbicides residues by Capillary Electrophoresis, *Biomedical Chromatography* 29, 2015, 835-842.
- 14- T.O. Mohammed, AA Elbashir,[Spectrophotometric Method for Determination of Gabapentin in Pharmaceutical Formulation by Derivatization with 4-Chloro-7-Nitrobenzo-2-Oxa-1, 3-Diazole \(NBD-Cl\)](#), *International Journal of Drug Development and Research*, 2015, 4-7

15- Elbashir, A.A., F.A.A. Abdalla, HY Aboul Enein, [Host-guest inclusion](#) complex of mesalazine and β cyclodextrin and [spectrofluorometric](#) determination of mesalazine , *Luminescence* 2015, 444-450.

16- H. H. Abbas, A.A.Elbashir,H. Y. Aboul-Enein, Chromatographic methods for analysis of triazine herbicides, [Critical Reviews in Analytical Chemistry](#), 45,2015, 226-240.

17- ST Abdel Rahman, AA Elbashir, M El Mukhtar, MM Ibrahim, [Development and Validation of Spectrophotometric Method for Determination of Thiamine \(VB1\) in Pharmaceutical Formulations using 1, 2-Naphthoquinone-4-Sulphonate \(NQS\)](#), *Enliven: Bio Anal Techniques* 2,2015, 001

18- KA Fatta, HA Elobeid, AA Elbashir,[Utilization of Alizarin Red Sulphonate \(ARS\) as Chromogenic Reagent for Determination of 2, 4-Dichlorophenoxyacetic acid pesticide \(2, 4-D\) Residues](#), *Int J Bioanal Methods Bioequival Stud* 1, 2014, 1-7.

19- Altigani AMN, Elbashir AA. Spectrophotometric Method for Determination of Primaquine in Pharmaceutical Formulations via Derivatization with 1,2-Naphthoquinone-4-Sulfonate. *Austin J Anal Pharm Chem*. 2014;1(4)

20- [Elbashir, A.A., Aboul-Enein, H.Y. Supramolecular Analytical Application of Cucurbit\[n\]urils Using Fluorescence Spectroscopy](#), [Critical Reviews in Analytical Chemistry](#), 45, 2015, 52-6.

21- BEA Basheir, AA Elbashir, HY Aboul-Enein, Development and validation of Spectrophotometric method for determination of Levodopa (L-dopa) in pharmaceutical formulations. *REVUE ROUMAINE DE CHIMIE* 60, 2015, 555-561.

22- A.A.Elbashir, Hassan Y. Aboul-Enein, Capacitively coupled contactless conductivity detection (CE-C⁴D) in Capillary Electrophoresis Developments and applications in the period 2012–2014, *biomedical chromatography*, 28,2014, 1502-1506.

23- Banan Elshiekh Alsied Basheir, A. A.Elbashir, Spectrophotometric method for determination of L-dopa in pharmaceutical formulation using 1,2-naphthoquinone-4-sulphonate as a chromogenic reagent, *PROJOURNAL OF NATURAL SCIENCE RESEARCH*, 2, 2014,27-39,.

24- Fatima Altayib Alasha Abdalla and A.A.Elbashir, Development and Validation of Spectrophotometric Methods for the Determination of Mesalazine in Pharmaceutical Formulation. *Med chem*, 3, 2014, 361-366.

25- Omar, M.M.A, Wan Ibrahim, WA, A. A. Elbashir, Sol–gel hybrid methyltrimethoxysilane–tetraethoxysilane as a new dispersive solid-phase extraction material for acrylamide determination in food with direct gas chromatography- mass spectrometry analysis, *Food Chemistry*. [158](#), 1 2014, 302–309

26- A.A.Elbashir, Salah Eldeen A. Ali, Aflatoxins, ochratoxins and zearalenone in sorghum and sorghum products in Sudan, *Food Additives & Contaminants: Part B: Surveillance*, 7, 2014,135-140.

27- A.A.Elbashir, Sonja Krieger, **Oliver J. Schmitz**, Simultaneous Determination of Polyamines and acetylpolyamines in human urine by capillary electrophoresis with fluorescence detection. *ELECTROPHORESIS*, 2014, 35, 570–576.

28- A.A.Elbashir , M. M .A. Omar, **O.J. Schmitz**,Hassan Y. Aboul-Enein. A Review on Acrylamide Analysis in Food by High Performance Liquid Chromatography and gas chromatography. *Critical Reviews in Analytical Chemistry*, 44, 2014,107-141.

- 29- A.A.Elbashir, N. F. A. Dsugi, Hassan Y. Aboul-Enein, Supramolecular study on the interaction between ofloxacin and Methyl β -Cyclodextrin by fluorescence spectroscopy and its Analytical Application. *Journal of Fluorescence*, 24 (2), 2014, 355-361.
- 30- [A.A.Elbashir](#) Hassan Y. Aboul-Enein Capillary Electrophoresis and Molecular Modeling as a complementary technique for chiral recognition mechanism. *Critical Reviews in Analytical Chemistry*, , 43, 2013, 131–137.
- 31- A.A.Elbashir, Yasmin Alsadig Mohammed Elnour, Hassan Elobid Ahmed, Gas Chromatography-Mass Spectrometer Electron Ionization (GC-MS -EI) method for the Analysis of Malathion Residue in Tomato, *Journal of Advances in Chemistry*, 2, 2013, 73-81.
- 32- [A.A. Elbashir](#)[Ahmed, S.M.A.](#), [Aboul-Enein, H.Y.](#) [Optimization and validation of spectrofluorimetric method for determination of cefadroxile and cefuroxime sodium in pharmaceutical formulations](#), *Luminescence*, 28, 2013, 490-495
- 33- [A.A. Elbashir](#), S. A. M. Ebraheem, Alawia H. E. Elwagee and Hassan Y. Aboul-Enein. New Spectrophotometric Methods for the Determination of Moxifloxacin in Pharmaceutical Formulations. *Acta Chim. Slov.*, 60, 2013, 159–165.
- 34- A.A.Elbashir, Fatima Altayib Alasha Abdalla Application of alizarin red S as an ion-pair reagent for the spectrophotometric determination of Olopatadine Hydrochloride in pharmaceutical formulation, *American Academic & Scholarly Research Journal* 5, 2013, 22-30.
- 35- Elbashir, [Ibrahim, M.A.](#), [Aboul-Enein, H.Y.](#), [Fluorimetric investigation of host-guest complexation of nizatidine with \$\beta\$ -cyclodextrin and its analytical application](#). *Gazi University Journal of Science* 26, 2013, 151-156.
- 36- [A.A.Elbashir](#) [Dsugi, N.F.A.](#), [Mohmed, T.O.M.](#), [Aboul-Enein, H.Y.](#) [Spectrofluorometric analytical applications of cyclodextrins](#). *Luminescence*, 29, 2014, 1-7.
- 37- [A.A.Elbashir](#) A.A.B. Alfadli Development and Validation of Spectrophotometric Method for Determination of Penicillamine (PA) in Pharmaceutical Formulation Using 4-Choro-Nitrobenzo-2-Oxa-1, 3-Diazol (NBD-CL). *World Journal of Analytical Chemistry*, 2013, 2, 18-22.

38- A.A. Elbashir and Awad S.F., A New Spectrophotometric Method for Determination of Penicillamine in Pharmaceutical Formulation Using 1, 2-naphthoquinone-4-sulfonate (NQS). *J Pharmacovigilance*, 2013, 1:2, 1-5.

39- A.A. Elbashir, Abuzar E. A. E. Albadri and Hassan El-obid Ahmed Residues Levels of pyrethroids pesticide in an open field tomatoes from Sudan by Gas Chromatography with Electron Capture Detector (GC-ECD). *Peak Journal of Food Science and Technology*. 2013,6-12.

40- Shazalia M. Ali Ahmed, A. A. Elbashir, [Fakhr Eldin O. Suliman](#), Hassan Y. Aboul-Enein, New Spectrofluorimetric Method for Determination of Cephalosporins in Pharmaceutical Formulations. *Luminescence*, 28, 2013, 734-741

41- Abir A. Ahmed Ali, A.A. Elbashir, A new spectrophotometric method for the determination of cardiovascular drugs in dosage forms. *American Academic & Scholarly Research Journal (AASRJ)*, 2013,5, (1)

42- Shazalia M. Ali Ahmed, A.A. Elbashir , [Fakhr Eldin O. Suliman](#). A novel spectrophotometric Method for the determination of cephalosporins using 8-hydroxy-1, 3, 6-pyrenetrisulfonic acid trisodium salt (HPTS) as a chromogenic reagent. *American Academic & Scholarly Research Journal (AASRJ)*, 2012, 4, (4).

43- A. A. Elbashir, Combined Approach Using Capillary Electrophoresis and Molecular Modeling for an Understanding of Enantioselective Recognition Mechanisms. *Journal of Applied Solution Chemistry and Modeling*, 2012,1, 121-126.

44- Abir Abdalla Ahmed Ali, A.A. Elbashir , Optimized and validated Spectrophotometric Method for the determination of Olanzapine in Pharmaceutical Formulation Using 1,2,-Naphthoquinone-4-sulphonate (NQS). *American Academic & Scholarly Research Journal (AASRJ)*, 2012,4, (3)

45- Fakhr Eldin O. Suliman, A. A. Elbashir, Enantio-differentiation of Chiral Baclofen by β -Cyclodextrin Using Capillary Electrophoresis: A Molecular Modeling Approach, *Journal of Molecular Structure*. 2012, 1019, 43–49.

46- A.A. Elbashir, Hassan Y. Aboul-Enein, Recent Advances in Applications of Capillary Electrophoresis with Capacitively Coupled Contactless Conductivity Detection (CE-C⁴D) an update, *Biomedical chromatography*. 2102, 26:990-1000.

47- Abir Abdalla Ahmed Ali, A.A. Elbashir, Spectrophotometric determination of Lisinopril dehydrate in pharmaceutical Formulations using sodium 1,2-naphthoquinone-4-sulfonic. *ISESCO JOURNAL of Science and Technology*. 2012, 8 (13):30-36.

48- Abuzar E. A. E. Albadri, A.A. Elbashir, Hassan El-obid Ahmed, Ibrahim A. M. Mihaina, Hassan Y. Aboul-Enein, A Gas Chromatographic Method with Electron-Capture Detector (GC-ECD) for Simultaneous Determination of Fenpropathrin, l-Cyhalothrin, and Deltamethrin Residues in Tomato and Its Applications to Kinetic Studies After Field Treatment. *Food Anal. Methods*, 2012, 5, 1296-1302.

49- Mei Musa Ali, Mawahib Eisa, Mohammed Idrees Taha, Badawi Ahmed Zakaria, A.A. Elbashir, Determination of Caffeine in some Sudanese Beverages by High Performance Liquid Chromatography” *Pakistan Journal of Nutrition* 2012, 11 (4): 336-342.

50- S. A. G. M. Ebraheem, A.A. Elbashir, A new Spectrophotometric Method for the Determination of Fluoroquinolones in Pharmaceutical formulation, *American Academic & Scholarly Research Journal (AASRJ)*, 2012, 4, (2).

51- A.A. Elbashir, Alawia H. E. Elwagee, Spectrophotometric Determination of Pyrimethamine (PYM) in Pharmaceutical Formulation using 1,2-Naphthoquinone-4-sulphonate (NQS). *Journal of the Association of Arab Universities for Basic and Applied Science*. 2012, 11, 32–36.

52- Mahjoub Ibrahim Shinger, A.A. Elbashir, Hassan El-obied Ahmed, Hassan Y. Aboul-Enein, ***Simultaneous Determination of Cypermethrin and Fenvalerate Residue in Tomato by Gas Chromatography and their applications to Kinetics Studies after Field Treatment.** *Biomedical Chromatography* 2012, 26 (5), 589-593.

53- A.A. Elbashir , Shazalia M. Ali Ahmed , Hassan Y. Aboul-Enein, New Spectrofluorimetric Method for Determination of Cephalosporins in Pharmaceutical Formulations. *Journal of Fluorescence*, 2012, 23, 857-864.

54- A.A. Elbashir, Abir A.Ahmed, Shazalia M. Ali Ahmed, Hassan Y. Aboul-Enein *1,2-Naphthoquinone-4-sulphonic acid sodium salt (NQS) as an analytical reagent for the determination pharmaceutical amine by spectrophotometry, *Applied Spectroscopy Reviews*, 2012, 47:219–232.

55- S. A. M. Ebraheem, A.A. Elbashir, *Spectrophotometric Methods for Determination of Gemifloxacin in Pharmaceutical Formulations”. *Acta Pharmaceutica Sinica*, 2011, 1, 4, 248-253.

56- A.A. Elbashir, Fakhr Eldin O. Suliman ” Computational Modeling of Capillary Electrophoretic Behavior of Primary Amines Using Dual System of 18-Crown-6 and beta-Cyclodextrin” *Journal of Chromatography A*, 2011, 1218, 5344– 5351.

57- Shazalia M. Ali Ahmed, A.A. Elbashir, Hassan Y. Aboul-Enein, *New Spectrophotometric Method for Determination of Cephalosporins in Pharmaceutical Formulations ” *Arabian Journal of Chemistry* , 2011, doi:10.1016/j.arabjc.2011.08.012.

58- A.A. Elbashir, Fakhr Eldin O. Suliman , Hassan Y. Aboul-Enein , “The application of 7-Chloro-4-nitrobenzoxadiazole and 4-Fluoro-7-nitro-2,1,3-benzoxadiazole for the analysis of amines and amino acids using high-performance liquid chromatography”, *Gazi University Journal of Science*, 2011,24(4):679-697.

59- A.A. Elbashir, Fakhr Eldin O. Suliman , and Hassan Y. Aboul-Enein “The application of 7-Chloro-4-nitrobenzoxadiazole (NBD-Cl) for the analysis of pharmaceutical bearing amine group using spectrophotometry and Spectrofluorimetry techniques” *Applied Spectroscopy Reviews*, accepted for publication , *Applied Spectroscopy Reviews*, 2011, 46 222-241.

60- A.A. Elbashir, Hassan Y. Aboul-Enein, Application of crown ethers as buffer additives in capillary electrophoresis, *Current Pharmaceutical Analysis*, 2010, 6, 3, 101-113.

61- A.A. Elbashir, Hassan Y. Aboul-Enein, Applications of Capillary Electrophoresis with Capacitively Coupled Contactless Conductivity Detection (CE-C⁴D) in Pharmaceutical and biological analysis, *Biomedical chromatography*, 2010, 24,1038-1044.

62- A.A. Elbashir, Bahruddin Saad, Hassan Y. Aboul-Enein, “Recent Developments of Enantioseparations for Fluoroquinolones Drugs Using Liquid Chromatography and Capillary Electrophoresis” *Current Pharmaceutical Analysis*,2010,6, 4, 246-255.

63- A. A. Elbashir, Fakhr Eldin O. Suliman , Bahruddin Saad and Hassan Y. Aboul-Enein “Capillary electrophoretic separation and computational modeling of inclusion complexes of β -cyclodextrin and 18-crown-6 with primaquine and quinocide”*Biomedical chromatography*, 2010, 24 , 393-398.

64- Khaldun Al Azzam,A.A. Elbashir, Bahruddin Saad, and Shafida Abdul Hamid “Assay and stability-indicating micellar electrokinetic chromatography (MEKC) method for simultaneous determination of valacyclovir ,acyclovir and their major impurity guanine in pharmaceutical formulations” *Biomedical chromatography*, 2010, 24 , 535-543

65- Khaldun Al Azzam,A.A. Elbashir, Bahruddin Saad, and Shafida Abdul Hamid“Assay and stability-indicating Capillary Zone Electrophorsis method for the determination of modafinil: Application to pharmaceutical preparations” *Journal of Liquid Chromatography and related Technologies*, 2010, 33:167–178.

66- Khoo Lay See, A.A. Elbashir, Bahruddin Saad, Abdussalam Salhin Mohamed Ali “Simultaneous determination of Ofloxacin and Ornidazole in pharmaceutical preparations by capillary zone electrophoresis” *Biomedical chromatography*, 2009, 23, 1283-1290.

67- Khaldun Al Azzam, A. A. Elbashir, Elbashir, M.A., Bahruddin Saad, and Shafida Abdul Hamid "Simultaneous determination of atenolol and chlorthalidone in pharmaceutical preparations by capillary zone electrophoresis" *Analytical letters*, 2009, 42, 1458-1470.

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69- A. A. Elbashir, Bahruddin Saad, Abdussalam Salhin Mohamed Ali and Muhammad Idiris Saleh, **Enantioselective analysis of primaquine and its impurity quinocide by capillary electrophoresis**" *Biomedical Chromatography*, 2009, 23, 295-301.

70- A. A. Elbashir, Fakhr Eldin O. Suliman, Bahruddin Saad, and Hassan Y. Aboul-Enein" Determination of Aminoglutethimide Enantiomers in Pharmaceutical Formulations by Capillary Electrophoresis using methylated- β -cyclodextrin as a chiral selector and computational calculation for their respective inclusion complexes" *Talanta*, 2009, 77, 1388-1393.

71- A.A. Elbashir, Bahruddin Saad, Abdussalam Salhin Mohamed Ali, Muhammad Idiris Saleh "Enantioselective Determination of Ofloxacin in Pharmaceutical formulation by Capillary Electrophoresis using CM- β -CD as a chiral selector, *J. King Saud Univ.*, 2009, 21, 143-147.

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“*Development of A capillary Electrophoresis Method for the Estimation of Primaquine
enantiomer in Pharmaceutical Formulations” *Journal of AOAC International*, 2008, 3, 536-541.

75- A.A. Elbashir, Bahruddin Saad, Abdussalam Salhin Mohamed Ali and Muhammad Idiris
Saleh “*Optimization, validation and application of a capillary zone electrophoresis method for
the assay of sparfloxacin in pharmaceutical formulation” *Analytical Letters*, 2008, 41, (14) 2608-
2620.

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“*Development and validation of a capillary zone electrophoresis method for the determination
of ofloxacin in tablets” *Journal of Liquid Chromatography and related Technologies*, 2008, 31
(18), 2771-2783.

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Drugs Using Capillary electrophoresis” *Bulletin of the school of chemical sciences*, 2007, 6, 6-7

Papers Submitted for Publication in International Journals (under review)

1. [A.A.Elbashir](#), [Salah Eldeen A. Ali](#), Determination of Aflatoxins, Ochratoxins and
Zearlenone in animal feeds and Experiments for Decontamination of Aflatoxin B1.
Journal of Food & Nutritional Disorders

Books and chapter in book

1. *Capillary Electrophoresis Methods for Pharmaceutical Analysis*, Publisher LAP Lambert academic publishing, Germany, ISBN, 978-8383-2297-1, Abdalla A. Elbashir, Bahruddin Saad
1. *Application of NQS in Pharmaceutical Analysis*, Publisher LAP Lambert academic publishing, Germany, ISBN, 9783659147081, Abdalla A. Elbashir.
1. *Spectrophotometric Determination of Pharmaceutical Amines*, Publisher LAP Lambert academic publishing, Germany, ISBN 3659273694, 9783659273698, [Abir Ali](#), [Abdalla A. Elbashir](#)
1. *Supramolecular Analytical Applications of Cyclodextrins and their Derivatives Using Fluorescence Spectroscopy, Oligosaccharides: Food Sources, Biological Roles and Health Implications*, Nova Science Publishers, accepted for publication

Papers Presented in Conferences

1. Abdalla A. Elbashir, Bahruddin Saad, Abdussalam Salhin Mohamed Ali and Muhammad Idris Saleh "Enantiomeric Separation of D,L-Tryptophan by Capillary Electrophoresis with neutral Cyclodextrins" 21st Scientific Meeting of the Malaysian Society of Pharmacology and Physiology (MSPP) "Nanotechnology in Pharmacology and Physiology: Emerging Challenges" 24-25 April 2006. Kota Baru, Malaysia. (Oral presentation)
2. Abdalla A. Elbashir, Bahruddin Saad, Abdussalam Salhin Mohamed Ali and Muhammad Idris Saleh "Application of Non-Chiral Crown Ether with Cyclodextrin as Buffer Additive for the Separation of Optically Active Amines by Capillary Electrophoresis" Penang International Conference for Young Chemists, Blazing A new Frontier in Chemical, 24-27 May 2006, Sciences. Universiti of Sains, Penang, Malaysia. (Oral presentation)

3. Abdalla A. Elbashir , Bahruddin Saad, Abdussalam Salhin Mohamed Ali and Muhammad Idris Saleh “Enantiomeric Separation of Primaquine by Capillary Electrophoresis using Hydroxypropyl- β -Cyclodextrin as a chiral Selector”.19th Malaysian Analytical Chemistry Symposium (SKAM 19), 2nd Malaysian Conference on Catalysis (MyCats), “Analytical Chemistry for Scientific Excellence”21-24 August, 2006, Melaka, Malaysia. (Oral presentation)
4. Abdalla A. Elbashir , Bahruddin Saad, Abdussalam Salhin Mohamed Ali and Muhammad Idris Saleh “Enantiomeric Determination of Ofloxacin in Pharmaceutical Formulation using cyclodextrin”.3rd Saudi Science Conference New Horizons in Science and Their Application, 10-13 March 2007, King Saud University, Riyadh, Kingdom of Saudi Arabia. (Oral presentation)
5. Abdalla A. Elbashir , Bahruddin Saad, Abdussalam Salhin Mohamed Ali and Muhammad Idris Saleh “Enantioselective Determination of Ofloxacin in Pharmaceutical Formulations by Capillary Electrophoresis using Dual System of Cyclodextrins”Pharmaceutical Sciences World Congress, 22-25 April, 2007, Amsterdam Netherlands. (Poster presentation)
6. Abdalla A. Elbashir, Bahruddin Saad, Abdussalam Salhin Mohamed Ali, Ismail Ab Rahman, Muhammad Idris Saleh ” Development of A capillary Electrophoresis Method for the Determination of Primaquine in Pharmaceutical Formulations” International Conference on Biotechnology Engineering (ICBio 07), May 8-10, 2007 Kuala Lumpur, Malaysia. (Oral presentation)
7. Abdalla A. Elbashir , Bahruddin Saad, Abdussalam Salhin Mohamed Ali, Muhammad Idris Saleh”Enantiomeric Separation of Primaquine (Anti-Malarial Drug) Enantiomer by Capillary Electrophoresis: Application to quality control of Pharmaceuticals.”International Conference on Chemical Sciences, (ICCS), 24-26 May 2007, Yogyakarta, Indonesia. (Oral presentation)
8. Khaldun M. Al Azzam, Abdalla A. Elbashir , Bahruddin Saad, Abdussalam Salhin Mohamed Ali, Muhammad Idris Saleh “ Separation of Chiral and Non-chiral chloroquine in

pharmaceuticals using capillary electrophoresis Technique” International Conference on Chemical Sciences, (ICCS), 24-26 May 2007, Yogyakarta, Indonesia. (Oral presentation)

9. Abdalla A. Elbashir , Bahruddin Saad, Abdussalam Salhin Mohamed Ali, Muhammad Idiris Saleh. Separation of primaquine and its positional isomer quinocide by capillary electrophoresis using 18-Crown-6 as a buffer additive

USM-UNAIR First Collaborative conference, Biotechnology and Pharmaceuticals 13-14 June 2007, Penang, Malaysia. (Oral presentation)

10. Abdalla A. Elbashir , Bahruddin Saad, Abdussalam Salhin Mohamed Ali, Muhammad Idiris Saleh. “Optimization of the separation conditions of primaquine and its positional isomer quinocide by capillary electrophoresis using β -cyclodextrin or 18-Crown-6 as a buffer additive”. Commonwealth Pharmaceutical Association –MPS Pharmacy Scientific Conference (CPS-MPS) Conference 2007, 1-5 August 2007, Kuala Lumpur, Malaysia. (Oral presentation)

11. Abdalla A. Elbashir , Bahruddin Saad, Abdussalam Salhin Mohamed Ali, Muhammad Idiris Saleh. “Separation of ofloxacin enantiomers by capillary electrophoresis using CM- β -CD as a chiral selector: application to quality control of pharmaceuticals” ASIAN CHEMICAL CONGRESS (12ACC) 2007. August 23 – 25, 2007, Putra World Trade Centre, Kuala Lumpur, Malaysia. (Oral presentation)

2. Bahruddin Saad, Abdalla A. Elbashir, Abdussalam Salhin Mohamed Ali, Muhammad Idiris Saleh. “Capillary Electrophoresis Method for the Enantioselective Separation of Primaquine and its major contaminant (Quinocide) in Pharmaceutical formulations” ASIAN CHEMICAL CONGRESS (12ACC) 2007. August 23 – 25, 2007, Putra World Trade Centre, Kuala Lumpur, Malaysia.

(Oral presentation)

13. Abdalla A. Elbashir , Bahruddin Saad, Abdussalam Salhin Mohamed Ali and Muhd. Idiris Saleh “**Determination Of Lomefloxacin In Pharmaceutical Formulations By Capillary Electrophoresis**” **Fifth Indochina Conference on Pharmaceutical Sciences** 21-24 November 2007 , Siam City Hotel, Bangkok, Thailand. (Oral presentation)

14. Abdalla A. Elbashir, Bahruddin Saad, Abdussalam Salhin Mohamed Ali and Muhd. Idiris Saleh "Analysis of primaquine-related impurities by capillary electrophoresis"[Singapore International Chemical Conference-5](#), 16-19 Dec 2007, Singapore. (Oral presentation)

15. Abdalla A. Elbashir, Bahruddin Saad, Abdussalam Salhin Mohamed Ali and Muhd. Idiris Saleh "Development and validation of a capillary zone electrophoresis method for the determination of sparfloxacin in tablets" 10th Eurasia Conference on Chemical Sciences, 7-11 January 2008, Manila, Philippine. (Poster presentation)

16. Bahruddin Saad, Abdalla A. Elbashir , Abdussalam Salhin Mohamed Ali, and Muhammad Idiris Saleh. "Qualitative analysis of primaquine and its positional isomer quinocide by capillary electrophoresis" 19th International Symposium on Pharmaceutical and Biomedical Analysis 8-12, June 2008, Gdańsk, Poland.

(Oral presentation)

17. Abdalla A. Elbashir , Bahruddin Saad, Abdussalam Salhin Mohamed Ali and Muhd. Idiris Saleh "Development and validation of a capillary zone electrophoresis method for the determination of gemifloxacin in tablets" 19th International Symposium on Pharmaceutical and Biomedical Analysis 8-12 June 2008, Gdańsk, *Poland*. (Poster presentation)

18. Abdalla A. Elbashir , Bahruddin Saad, Abdussalam Salhin Mohamed Ali and Muhd. Idiris Saleh "Enantioselective analysis of primaquine and its impurity quinocide by capillary electrophoresis" ASEAN SCIENTIFIC CONFERENCE IN PHARMACEUTICAL TECHNOLOGY 2008, 1-3 June 2008, Penang, Malaysia. (Oral presentation)

9. Abdalla A. Elbashir , Bahruddin Saad, Abdussalam Salhin Mohamed Ali and Muhd. Idiris Saleh "Separation of aminoglutethimide enantiomers by capillary electrophoresis, Validation and application of the chiral method to the analysis of commercial formulations" International conference for young chemist (ICYC 2008) June, 18-20, Penang, Malaysia. (Oral presentation)

20. Abdalla A. Elbashir, Bahruddin Saad, Abdussalam Salhin Mohamed Ali, Muhammad Idiris Saleh "Analysis of Fluoroquinolone in Pharmaceutical formulation by capillary zone

electrophoresis” **8th MPS Pharmacy Scientific Conference & 12th Pharmacy Nite** 15th -17th August 2008, Kuantan, Pahang D.M.Malaysia. (Oral presentation)

21. Abdalla A. Elbashir, Bahruddin Saad, Abdussalam Salhin Mohamed Ali, Validated Stability Indicating Assay of Fluoroquinolones in Tablets Formulation by Capillary Zone Electrophoresis, Taibah International Chemistry Conference (TICC-2009) Al-Madinah Al-Munawwarah from March 23-25, 2009. (Poster presentation)

2. Abdalla A. Elbashir, Fakhr Eldin O. Suliman ,Bahruddin Saad, Capillary electrophoretic separation and computational modeling of inclusion complexes of β -cyclodextrin and 18-crown-6 with primaquine and quinocide¹⁰th ASIAN CONFERENCE ON ANALYTICAL SCIENCES, August 11-13, 2009, Putra World Trade Centre, Kuala Lumpur, Malaysia. (Oral presentation)

23. Bahruddin Saad, Khaldun M. Al Azzam, Rohana Adnan, Muhd. Idiris Saleh , Abdalla A. Elbashir, “Capillary electrophoretic separation of enantiomers of modafinil in pharmaceutical formulations”¹⁰th ASIAN CONFERENCE ON ANALYTICAL SCIENCES, August 11-13, 2009, Putra World Trade Centre, Kuala Lumpur, Malaysia. (Key note).

24. Abdalla A. Elbashir and F.O. Suliman Capillary Electrophoresis and computational modeling for an understanding of enantioselective mechanism of primary amines using dual system of β -cyclodextrin and Diaza-18-crown-6, ANAKON, 3-7 , March, 2013, Essen, Germany (Oral Presentation)

25. Abdalla A. Elbashir, Optimization and validation of a CZE-LIF method for polyamines and acetylated polyamines biomarkers determination in human biofluids. EuroAnalysis 25-29 August 2013 Warsaw, Poland (Oral Presentation)

Invited Lectures and Seminars

1. “**Separation of Chiral Molecules**” M.Sc. Mixed Mode, Semester II, 2006 / 2007, KAA 505/4- SEPARATION TECHNIQUES. School of Chemical Sciences University Science Malaysia.
2. “**Capillary Electrophoresis (CE) as an Innovative Analytical Technique in Pharmaceutical Analysis**” M.Sc. Mixed Mode, Semester II, 2007 / 2008, KAA 505/4- SEPARATION TECHNIQUES, School of Chemical Sciences, University Science Malaysia

3. **Capillary Electrophoresis (CE) in Pharmaceutical Analysis”** Sudan institute for natural sciences, Khartoum, Sudan, June 2009

Workshop, Seminar and Training Courses

- 1- Regional training course for radiation protection officers, 9-31 March 1993, Ghana Atomic Energy commission, Accra, Ghana.
- 2- Training course on Biostatics and SPSS/PC+, centre for data analysis and statics May-June 1994. Tropical Medicine Research Institute, Khartoum, Sudan
- 3- National training course on X-Ray Fluorescence (XRF), 13-23, November 1995, Applied Nuclear Science Laboratory. Department of Physic Khartoum University, Sudan.
- 4- Seminar on Quality control, Feb. 1998, Sudan International University, Khartoum Sudan
- 5- Course on Chemistry and Processing of Palm and Palm Kernel Oils (Professional Level) 10-23 September 2000. Malaysian Palm Oil Board. KL, Malaysia.
- 6- Workshop on Fundamental concept and Application of Liquid crystals, 6-7 Feb. 2007, USM, Penang, Malaysia
- 7- Workshop on Chirality: Analysis and Emerging Issues, 23-24 Oct. 2007, School of Chemical Sciences, USM, Penang, Malaysia
- 8- Workshop on Gas Chromatography”, 4-5 Dec. 2007, School of Chemical Sciences, USM, Penang, Malaysia.
- 9- Workshop on Procedures of Method Validation and Verification, 28-29 Jan.2008, School of Chemical Sciences, USM, Penang, Malaysia.
- 10-Workshop on Multivariate Data Analysis (MVA) and Design of Experiments (DOE) Chemometrics & Spectroscopic Applications Level-1, May 26-28, 2008, Kuala Lumpur, Malaysia

Postgraduate students (supervision)

Currently 5 master and 5 PhD students are working under my supervision in various areas of analytical chemistry. Five master and one PhD students have been graduated from my research group.

Editorial Board

1. American Journal of Biomedical Research

2. International Journal of Pharmacy and Pharmaceutical Sciences

3. The Peak Journal of Physical and Environmental Science Research (**PJPESR**)

Prize/Awards

- 1992

University Prize for best B.Sc. (HONOURS) student in Department of Chemistry,
University of Khartoum

Sudan

- 2007

USM Fellowship for outstanding graduate students, Malaysia, Penang

- 2008

TWAS Prizes to Young Scientists in Developing Countries.

- 2008

Minister of Higher Education and Scientific Research prize for scientist in basic science.

- 2008

Best Ph.D. Thesis Award for the Pure Science cluster, University Science Malaysia
(USM)

- 2009

Prize for publishing in High Impact Factor Journals, University Science Malaysia (USM)

References

1- Professor Bahruddin Saad: School of Chemical Sciences, University Sciences Malaysia,
11800 Penang, Malaysia, e-mail: bahrud@usm.my

2- Professor Oliver J. Schmitz: Institute of Applied Analytical Chemistry,

S07 T01 B35, Universität ssstr. 5-7, 45141 Essen, Email: oliver.schmitz@uni-due.de , Phone: +49
(0) 201 183-3950, Fax: +49 (0) 201 183-3951,

3- Professor Fakhr Eldin O. Suliman: Department of Chemistry, College of Science, Sultan Qaboos University, Box 36, Al Khod 123, Oman, e-mail: fsuliman@squ.edu.om, Phone:00968-99242937

4- Professor Hassan Y. Aboul-Enein:Pharmaceutical and Medicinal Chemistry Department, National Research Centre, Tahrir Street, Dokki, Cairo 12311, Egypt, e-mail: haboulenein@yahoo.com, Phone. 0103678948, H/P 0020103678948