

Curriculum Vitae

Name: Mei Musa Ali Omer

Nationality: Sudanese

Place of Birth: Abu Dhabi (United Arab Emirates)

Date of Birth: July, 1979

Address: Central Laboratory, Ministry of Higher Education and Scientific Research, Khartoum Sudan.

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Languages: Arabic, English, German.

Education:

- B.Sc. with distinction in Chemistry, University of Khartoum, Sudan (2003).

Dissertation Project.

Thesis: *Lactones Organic Synthesis*

- M.Sc. in Analytical Chemistry, Sudan Academy of Sciences, (2008).

Dissertation Project.

Thesis: *Validation of Developed HPLC Method for Bromate Ion Determination in some Bottled Water and Bread*
Techniques: *High Performance Liquid Chromatography*

- PhD in analytical Chemistry, University of Khartoum, (2016)

Dissertation Project.

Thesis: *Development of Extraction and Separation Methods for Acrylamide Analysis in Sudanese Food using Contemporary Techniques*

- PhD attachment (Non-graduate student), Analytical chemistry/ University Technology Malaysia (UTM), (June 2012-May 2013)

Topic: Development of extraction and cleanup methods for acrylamide determination in Sudanese food.

- PhD Sandwich program in analytical Chemistry, Applied Analytical Chemistry, Faculty of Chemistry , University of Duisburg-Essen , Essen, Germany, October, 2013-January, 2015.

Topic: Development of UHPLC and capillary electrophoresis methods for determination of acrylamide and amino acids in Sudanese foods.

- Diploma in computer, International Internet Club (2006).
- German Language level (B1) conducted in Carl Duisberg Centren, Cologne, Germany, June, 2013-October, 2013.

Prizes:

- Prize of Minster of Higher Education and Scientific Research (2004)
- University prize for best performance in chemistry department 2001/2002.

Fellowships:

- Awarded a OWSD Postgraduate Training Fellowship by the Organization for Woman in Science for the Developing World (OWSD) [Formerly the Third World Organization for Woman in Science (TWOWS), to pursues a sandwich programme leading to a Ph.D qualification in University Technology Malaysia. June 2013- May 2014.
- Awarded Deutscher Akademisher Austausch Dienst (DAAD) Scholarship to pursues a sandwich programme leading to a Ph.D qualification in Universität Duisburg-Essen. June 2014- January 2015.

Current Status:

Researcher at Central Laboratory, Ministry of Higher Education and Scientific Research, Khartoum Sudan.

Experience:

- Teaching practical courses for Pharmacy M.Sc. students covering HPLC. University of Medicine Sciences, 2010-2011.
- Teaching assistant in chemistry Laboratory. University of Khartoum, Faculty of Sciences, Chemistry Department. 2004- 2006.

- Teaching assistant in chemistry Laboratory. University of Khartoum, Faculty of Engineering, Chemical Engineering Department. 2005

Training:

- Ministry of Science & Technology-Central Lab, from: January-May 2007 ,(Chemical analysis Instruments):
 - Chromatography Instrument [HPLC].
 - Chromatography Instrument [GC-MS].
 - Spectrophotometer [UV - Visible].
 - Atomic Absorption.
- National Training Course on Computational Chemistry, Molecular Docking and its Applications Drug Designing, Medicinal and Aromatic Plants Research Institute, National Center for Research, Khartoum, Sudan (2006).
- Uses of Mass Spectrometer and other Technologies in Ultra-Trace Analysis, Arab Atomic Energy Commission, Cairo, Egypt, 2007.
- 1-Day Course on Gas Chromatography Method Development and Troubleshooting, Nanotechnology Research Alliance, Separation Science & Technology group & Department of Chemistry, Faculty of Science Universiti Teknologi Malaysia, 5th March 2013.
- Method Validation and Uncertainty Calculation, Central Laboratory, Ministry of Science and communication, 19th-23th April 2015.
- Methods of statistical analysis using SPSS software. Central Laboratory, Ministry of Science and communication, 12th-21th May 2015.

Conducted Training Courses:

- Training the teaching assistant staff of Pharmacy Faculty, Gazira University on HLPC operation and sample pretreatment.

- Training the pesticide residue laboratory staff on spectrophotometer and HPLC instrument.

Publications:

- **1-MEI MUSA**, IBRAHIM M. AHMED and ISMAT A TAKRUNI, Determination of Bromate at Trace Level in Sudanese Bottled Drinking Water Using Ion Chromatography, E-Journal of Chemistry, 7(S1),2010.
- **MEI MUSA ALI**, MAWAHIB ESIA, MOHAMMED EDRIS, BADAWI ZAKARIA, and ABDALL AHMED ELBASHIR, Determination of caffeine in some Sudan beverages by high performance liquid chromatography. Pakistan Journal of Nutrition 11 (4): 336-342, 2012.
- Abdalla A. Elbashir, **Mei M Ali Omar**, Wan Aini Wan Ibrahim , Oliver J. Schmitz & Hassan Y. Aboul-Enein. Acrylamide Analysis in Food by Liquid Chromatographic and Gas Chromatographic Methods. Critical Reviews in Analytical Chemistry, 44:2, 107-141, 2014.
- **Mei Musa Ali Omar**, Wan Aini Wan Ibrahim, Abdalla Ahmed 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 (2014) 302–309.
- **Mei Musa Ali Omar**, Abdalla Ahmed Elbashir, Oliver J. Schmitz, Determination of acrylamide in Sudanese food by high performance liquid chromatography coupled with LTQ Orbitrap mass spectrometry, Food Chemistry 176 (2015) 342–349.
- **Mei Musa Ali Omar**, Abdalla Ahmed Elbashir, Oliver J. Schmitz, Capillary Electrophoresis Method with UV-detection for Analysis of Free Amino Acids concentrations in Food, Food Chemistry 214(2017) 300-307.