

Curriculum Vitae

October 2022

(1) Personal Information:

Name: Nazik Eltayeb Musa Mustafa

Occupation: Associate Professor

Address: Department of Food Hygiene and Safety , Faculty of Public and Environmental Health, University of Khartoum, P.O. Box 205 Postcode 11111 Khartoum , Sudan

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(2) Links:

ORCID ID: orcid.org/0000-0001-9713-9743

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Google scholar webpage:

<https://scholar.google.ae/citations?user=tDo7ME4AAAAJ&hl=en>

(3) Qualifications:

Doctor of Philosophy in Botany (Bacteriology), University of Khartoum (thesis titled: Isolation of Bacillus and Clostridial Species from Food of Animal Origin with Special Reference to their Spores Resistance and Injury by Heat) University of Khartoum, October 2005.

Master of Public and Environmental Health (MPEH) in Food Hygiene and Safety, University of Khartoum, Khartoum (thesis titled: Monitoring Antibiotic residues in beef and Mutton in Khartoum State) May 2000:

Bachelor of Science (First Class Honours) in Public and Environmental Health University of Khartoum, December 1995.

(4) Scientific Fellowships (in descending chronological order):

1. German Academic Exchange Service (DAAD) Research fellowship at the Institute of Medical Physics and Biophysics (Universitaetsklinikum Westfaelische Wilhelms-Universitaet) **Muenster, Germany**. In this fellowship, I utilized molecular biology techniques for the identification of food-borne microorganisms by utilization of the 16S rDNA sequencing and carried identification of proteins and small components in bacterial cells by Matrix Assisted Laser Desorption/Ionization (MALDI-TOF). As well as utilization of genomic sequences from bioinformatics sources (e.g., ExPASy (Expert Protein Analysis System), MASCOT (Peptide Mass Fingerprint) and databases of UniProt/Swiss-Prot and UniProt/TrEMBL to predict cell proteins structure and properties. Furthermore, I applied scanning and transmission electron microscopy to study bacterial spores. June - December 2004.
2. International Atomic Energy Agency (IAEA) training fellowship at the Residues Laboratory, Veterinary Science Division, Stormont, **Belfast, Northern Ireland, UK**. In this training fellowship, I got used to HPLC, electrophoresis and ELISA techniques in detecting veterinary drug residues in food of animal origin. January- April 2000.

(5) Awards

1. The German Academic Exchange Service (DAAD) (2004). Scientific research Fellowship.
2. International Atomic Energy Agency (IAEA) Scientific fellowship (2000)

(6) Professional Experience and Significant Achievements (in descending chronological order)

1. Dean of the Faculty of Public and Environmental Health, University of Khartoum 1 September 2019 to May 2022.
2. Associate Professor at the Department of Food Hygiene and Safety, Faculty of Public and Environmental Health, University of Khartoum, **Sudan**. November 2020- Present
3. Assistant Professor at the Department of Food Hygiene and Safety, Faculty of Public and Environmental Health, University of Khartoum, **Sudan**.
4. Assistant Professor at the Department of Environmental Health Sciences, College of Health Sciences, University of Sharjah, **Sharjah, United Arab Emirates**, teaching the courses of; Environmental Toxicology, Risk and Environmental Impact Assessment, Food safety, Environmental Microbiology, Environmental Pollution and Pesticides and Vector Control, from August 2013 -31August 2019
5. Head of the Department of Food Hygiene and Safety, Faculty of Public and Environmental Health, University of Khartoum, **Sudan**, April 2007 –August 2013.
6. Assistant Professor at the Department of Food Hygiene and Safety, Faculty of Public and Environmental Health, University of Khartoum, **Sudan**. teaching food toxicology and food safety courses (theory and practice) for fourth- and fifth-year students, microbiology courses (theory and practice) for the second-year students and supervision of undergraduate and postgraduate research projects in the fields of food safety, nutrition, and food microbiology since 2005 and until August 2013.
7. Lecturer at the Department of Food Hygiene and Safety, Faculty of Public and Environmental Health, University of Khartoum, Sudan, teaching food hygiene and safety courses (theory and practice) for fourth- and fifth-year students and supervising final year graduation research projects at the Department. May 2001 to September 2005.
8. Teaching Assistant at the Department of Food Hygiene and Safety, Faculty of Public and Environmental Health, University of Khartoum, Sudan, was responsible for teaching microbiology, food microbiology, food chemistry and food safety practical sessions for second, third- and fourth-year's student. April 1996 to May 2001.
9. Teaching food science courses related to nutrition, quality, composition, and safety for master's degree students at University of Khartoum October 2005 August 2013.
10. Teaching food safety courses (theory and practice) for master's degree-qualifying year students at the Department of Food Hygiene and Safety, Faculty of Public and Environmental Health, University of Khartoum May 2003- August 2013.

Other Provisional Experience (in descending chronological order)

11. Food safety consultant and trainer National Ministry of Health Sudan, as well as contributing to designing, implementing, monitoring and evaluation activities carried by the Ministry of Health, **Sudan** in food safety issues (October 2005 –present).
12. Member of the Medical and Health Studies Committee (Sudanese Ministry of Higher Education), January 2020- to present.
13. Member of the several Sudanese Ministry of Higher Education *ad-hoc* committees for public health colleges and schools, January 2020- to May 2022.
14. Part-time lecturer of environmental microbiology and environmental chemistry for master's degree students at Alzaiem Alazhari University, **Sudan**, February 2006 – August 2013
15. Part-time lecturer of environmental chemistry and microbiology course in Cleaner –production master programme of Sudan Academy of Science and Technology from 2007- to 2012.

16. External examiner of food safety and food hygiene at several Sudanese universities including faculties of medicine and health sciences; Al-Imam Al-Mahdi University, Faculty of Medicine, Shendi University and Faculty of Medicine and Health Sciences at Kordofan University October 2005 to present .
17. Collaborating Lecturer and trainer of food safety at Federal Ministry of Health, **Sudan**; training public health officers and environmental health officers in Food Safety, food inspection and related sciences April 2000 - August 2013.
18. HACCP application trainer of master's degree students in field visits. Conducted HACCP practical training at Khazan Meat Factory, Sharjah UAE; Lacnor Juice Company (Sharjah City) UAE, Dubai International Convention and Exhibition Centre hotel restaurant, **Dubai, UAE** February 2011.
19. DAL Dairy Industry Co. **Sudan**, milk hygiene at farm trainer 2010.
20. Part-time teaching assistant at Faculty of Medicine, University of Bahr Algazal and School of Hygiene, Upper Nile University, **Sudan**, January 1996 to January 2001.
21. Trainer of HACCP application to master's degree students at the Department of Food Hygiene and Safety, University of Khartoum. Theory and Practice 2002-August 2013

(7) Professional Development (in descending chronological order):

1. "T & L Workshop: Assessment and Feedback" training workshop organized by the Institute of leadership in Higher Education, 24th of April 2018, **University of Sharjah, UAE.**
2. "T&L Workshop: Integrating research in undergraduate courses" training workshop organized by the Institute of leadership in Higher Education, 23rd of April 2018, **University of Sharjah, UAE.**
3. "T&L Workshop: Active Learning" training workshop organized by the Institute of leadership in Higher Education, 22nd of April 2018, **University of Sharjah, UAE.**
4. "Strategic Planning and Leadership in Higher Education": training workshop organized by the Institute of leadership in Higher Education, 20-22nd February 2018, **University of Sharjah, UAE.**
5. "Research-Based Course Design-Putting it all Together": training workshop organized by the Institute of leadership in Higher Education, 18th of January 2018, **University of Sharjah, UAE.**
6. "Designing a Course-Based Assessment Approaches": training workshop organized by the Institute of leadership in Higher Education, 16th of January 2018, **University of Sharjah, UAE.**
7. 'Class Time Reconsidered: Active learning in the University Classroom' training workshop organized by the Institute of leadership in Higher Education, 30th of April 2017, **University of Sharjah, UAE.**
8. 'Developing a Course Assessment Plan' training workshop organized by the Institute of leadership in Higher Education, 31st of January 2017, **University of Sharjah, UAE.**
9. 'University Regulations for Faculty Promotion' training program, 11th of April 2016 Centre of Continuing Education and P.D, **University of Sharjah, UAE.**
10. 'Teaching in the New Era' training workshop organized by the Institute of leadership in Higher Education 9th-11th of November 2015, **University of Sharjah, UAE.**
11. University by-laws and regulations for faculty members training program, 15-17th of June 2015 Centre of Continuing Education and P.D, **University of Sharjah, UAE.**
12. Research Ethics Faculty Development Workshop, 9th of February 2015, College of Medicine, **University of Sharjah, UAE.**
13. Communication and Relationships workshop 28th May 2014 organized by the Faculty Development Committee, 2Alrazi Hall –College of Health Sciences. **University of Sharjah, UAE**
14. Childhood stress in healthcare Institutions, an educational activity 6th February 2014, Department of Nursing **University of Sharjah, UAE**
15. 'Assessment Item Writing workshop' 11th to 12th January 2014, organized by University of Sharjah in collaboration with 'Ideal Consortium for Shared Medical Student Assessment Banks' **University of Sharjah, UAE**

16. Taskstream Implementation workshop 26th of December 2013 organized by university of Sharjah Directorate of Quality Assurance , Institutional Effectiveness and Accreditation on at College of Health Sciences computer lab, room 156 M23 building. **University of Sharjah, UAE**
17. Advising - A Continuous Quality Initiative for CHS Faculty , 4th Advising Workshop 10th of September 2013, conducted by College of Health Sciences - Students' Advising and Academic Affairs Committee on Tuesday, **University of Sharjah, UAE**
18. It Orientation Day, Organized by the Academic Computing Service Section –It centre, fall 2013—2014.
19. Food, Feed and Water Risk Assessment, Monitoring and Surveillance training course, 22-25 November 2010. **Khartoum, Sudan.**
20. Academic Performance Evaluation , course at the Centre for Educational Development of Health Professions of the University of Khartoum in collaboration with Sudanese Ministry of Higher Education and Scientific Research Evaluation and Accreditation Corporation (EVAC), November 2008. **Khartoum, Sudan**
21. Molecular Biology Course, National Health Laboratory, Sudanese Ministry of Health , (Theory and practical of molecular biology and PCR), March - May 2003 **Khartoum, Sudan.**
22. Scientific Research Methodology Course, Federal Ministry of Health and Faculty of Public and Environmental Health, , July 2000. **University of Khartoum, Sudan**
23. Communications, Media and Education training course, National AIDS Control Programme of the Federal Ministry of Health. February 1998. **Khartoum Sudan**
24. Educational Preparedness course, Centre of Staff Member Skills Development, February-March 1997. University of **Khartoum, Sudan.**
25. Practical and theoretical Immunization training course, Immunization programme, Federal Ministry of Health, August 1994. **Sudan**

(8) Funded Research Projects

1. 2016 Food Safety-Risk Assessment Skills of Public and Private Food safety Controllers, a collaborative research project 15010506009-P, Funded by University of Sharjah (60000 AED).
2. 2014 Research project titled: Bacterial Load on Surfaces of shared and publicly Used Equipment at the University of Sharjah Medical campus, A seed research project funded by University of Sharjah (22000 AED)
3. 2011 *Listeria monocytogenes* in milk production chains in Khartoum State. Funded by Sudanese Ministry of Higher Education, (≈20000 USD).
4. 2008 Effects of food preservation by cooling on *Bacillus cereus* and *Clostridium perfringens* and the subsequent effects on food microbiological safety tests confidence. Funded by Sudanese Ministry of Higher Education. (≈13500 USD)
5. 2005-2007 Two seed research projects in the field of food safety. Funded by University of Khartoum (≈ 5000 USD)

(9) Main Courses Taught

(a) University of Sharjah

- HSC 506362 Food Safety and Quality (spring Semesters 2013- tell now).
- HSC 506262 Environmental Microbiology (Spring Semesters from 2013 until now).
- HSC 506455 Environmental Toxicology (fall Semesters from 2013 until now).
- HSC 506454 Risk & Environmental Impact Assessment (Fall Semesters from 2013 until now).
- HSC 506353 Environmental Pollution & Pesticides (fall Semesters from 2013 until now).
- HSC 506460 Field Training (fall Semester and spring semesters from 2013 until now).
- HSC 506461 Graduation Project (fall and spring Semesters from 2013 until now).
- 1204 323 Dairy Sanitation Community College (fall semester 2014-2015)

(b) University of Khartoum

- From April 1996 to May 2000: taught the practical sessions of several courses including microbiology and food safety.
- 2000-2013: Taught theory and practice of food hygiene and safety, and toxicology for undergraduate students.
- 2006-2013: Taught several food safety and environmental microbiology courses for postgraduate students.

(c) Other Academic and Training Experiences

Food safety consultant and trainer National Ministry of Health Sudan since 2005 and until now, as well as contributing to designing, implementing, monitoring and evaluation activities carried by the Ministry of Health, Sudan in food safety issues (October 2005 –August 2013).

Trainer at several environmental health inspection courses organized by Directorate of Human Resources, Government of Sharjah. October to December 2017.

Part-time lecturer of environmental microbiology and environmental chemistry for master's degree students at Alzaem Alzaem Alazhari University, Sudan, February 2006 – August 2013

Part-time lecturer of environmental chemistry and microbiology course in Cleaner –production master programme of Sudan Academy of Science and Technology from 2007- to 2012.

External examiner of food safety and food hygiene at several Sudanese universities including faculties of medicine and health sciences; Al-Imam Al-Mahdi University, Faculty of Medicine, Shendi University and Faculty of Medicine and Health Sciences at Kordofan University October 2005 till now.

Collaborating Lecturer and trainer of food safety at Federal Ministry of Health, Sudan; training public health officers and environmental health officers in Food Safety, food inspection and related sciences April 2000 -August 2013.

(10) Recent Publications:

Refereed Journal Articles

1. Ahmed, E. B. H., **Eltayeb, N. M.**, & Elamin, M. O. (2022). Development of Multiplex-PCR Method to Detect Three Bacterial Species in Food and their Use in Food Inspection. *J Pure Appl Microbiol*, 16(2), 1350-1361.
2. Ahmed, E. B., **Mustafa, N. E. M.**, Elamin, M. O. (2021). Evaluation of Ready-Made Food Sold for Human Consumption at City Local Market International Journal of Medical Research & Health Sciences 10 (8), 114-124.
3. Warsama, L. M., **Mustafa, N. E. M.**, Ibrahim, S. M and El Zubeir, I. E. M. (2021). Efficacy of Newly Developed Screening Test (D-Saft1) For Detection of Antibiotic Residues in Raw Milk Samples Collected from Khartoum State, Sudan *J Vet Sci Med Diagn* 10 3, 2
4. El Hag, M. M., El Zubeir, I. E. M., & **Mustafa, N. E.** (2021). Prevalence of *Listeria* species in dairy farms in Khartoum State (Sudan). *Food Control*, 123, 107699.
5. Limya, M. Warsama, **Nazik, E.M. Mustafa**, and Ibtisam, E.M.E.Z (2020). Antimicrobial resistance of bacteria associated with raw milk contaminated with antibiotics residues in Khartoum State, Sudan *Veterinary Medicine and Public Health Journal (VMPH)* 1 (1), 15-21.
6. Adam, A. H. B., **Mustafa, N. E. M.**, & Rietjens, I. M. (2017). Nitrite in processed meat products in Khartoum, Sudan, and dietary intake. *Food Additives & Contaminants: Part B*, 10(2), 79-84.
7. Warsama, L. M., **Mustafa, N. E. M.**, & El Zubeir, I. E. M. (2017). Physicochemical Properties and Microbial Load of Cow Milk Collected from Milk Supply Chain during Winter and Summer in Khartoum State, Sudan. *Journal of Veterinary Medicine and Animal Production*, 8(1).41-52.

8. **Mustafa, N. E. M.**(2015).Citrus Essential Oils: Current and Prospective Uses in the Food Industry. *Recent Patents on Food, Nutrition & Agriculture* 7, 115-127.
9. **Mustafa, N.**, Ibrahim, B., Jasim, M., Salim, M., Abdalla, Q., & Saleh, S. (2015). Diversity and antibiotic susceptibilities of bacterial species from surfaces of publicly used equipment in a medical education setting. *African Journal of Microbiology Research*, 9(45), 2239-2248.
10. Musa, T., Musa, H., Ali, E. And **Mustafa, N.** (2014). Prevalence of malnutrition among children under five years old in Khartoum State, Sudan. *Polish Annals of Medicine*. 21:1-7.
11. Almanssury, A., **Mustafa, N.** and Basheer, E. (2014). Antibiotic resistance among Staphylococcus species isolated from beef minced meat in north Khartoum locality, *Journal of Scientific Research of Science and Arts*. 10(15):29-42.
12. Ahmed, M., Mariod, A., **Mustafa, N.** and Hussein, I. (2014). In-Vitro Antimicrobial Activity of *Chrozophora brocciana* Different Extracts. *Indian Journal of Pharmaceutical Science & Research*.4 (4):200-205.
13. **Mustafa, N.** And Abdallha , M. (2011). Bacteriological Quality of Street -Vended Um-Jinger: A Traditional Sudanese Food. *African Journal of Food, Agriculture, Nutrition and Development (AJFAND)*.11(5):5220-5231.
14. **Mustafa, N.**, Keller, U., Malkus, U., Harmsen, D., Reichelt, R., A. Hussein, A. & M. El-Sanousi, S. (2010). Morphological changes induced by wet heat in Bacillus cereus endospores. *Curr. Res. Bacteriol*. 3(4): 214-226.
15. **Mustafa, N.**, Mariod Abdalbasit, .& Matthäus , B. (2008). Antibacterial Activity of *Aspongopus viduatus* (Melon bug) oil. *Journal of Food Safety*. 28(4): 577-586.

Proceedings and/or Oral Presentations

1. **Mustafa, N.E. M.** (2018) Prevalence of food allergy among United Arab Emirates (UAE) population, a meta-analysis study Toxicology Letters 295 (Supplement 1), S147.
2. **Mustafa, N.** & Ahmed, G. (2014). Health Impacts of Soap Industry Effluents: Case Study of Soap, Dubai, UAE, 5th Health and Environment Conference in the Middle East Proceedings. 3rd-5th March 2014.
3. **Mustafa, Nazik E. M.** (2014).Current Health and Environmental Issues with Special Reference to Prevention . Keynote speech at the 1st International Research Conference on Science, Health and Medicine (IRCSHM), Dubai , October 2014.
4. **Delegation of Sudan** (2011). Discussion Paper on Mycotoxins in Sorghum (Agenda Item 9c). Report of the Fifth Session of the Codex Committee on Contaminants in Foods the Hague, The Netherlands, 21 – 25 March 2011.http://www.ift.org/~media/Public%20Policy/International%20Advocacy/CODEX2011_REP11_CFe.pdf
5. **Mustafa, N. E. M.**(2011). Food Chemical Contaminants Research Activities in Sudan. The 4th Annual Conference of Postgraduate Studies and Scientific Research, Medical and Health Sciences. University of Khartoum February 2012., Sudan 25-27th February 2011
6. **Mustafa, N.** (2010). Monitoring Antibiotic Residues in Beef and Mutton in Khartoum State. the International Conference on Organic Farming (ICOF) organized by CAS at the Friendship Hall, Khartoum, Sudan on 6 – 7 April 2010
7. **Mustafa, N. E. M.** (2010). Development of a Rapid Antibiotic Residues Screening Test for Raw Milk. 2nd International Conference on Applied Biotechnology (ICAB-2010)-Khartoum, Sudan.

Poster Presentations:

8. **Mustafa, N.** (2018). Prevalence of Food Allergy among United Arab Emirates (UAE) Population, a Meta-analysis Study the 54th Congress of the European Societies of Toxicology (EUROTOX 2018) from 2 to 5 September 2018, Brussels.
9. Elamin, E. B. H. M. Osman, O. F. and **Mustafa, N. E. M.**(2015). Safety Examination of Ready-to-eat Food Sold at Open Markets in Khartoum, Sudan. 10th Dubai International Food Safety Conference, 27-28 October 2015.
10. Yossif , A. , **Mustafa, N. E. M.** and El-Sanousi S.M. (2015). Application of HACCP systems in meat processing industry bin Khartoum State. 10th Dubai International Food Safety Conference, 27-28 October 2015.
11. Elamin, E. B. H. M. Osman, O. F. and **Mustafa, N. E. M.**(2014). Detection of Three Bacterial Species by a Multiplex PCR Method from Food in Khartoum Locality, Sudan. 9th Dubai International Food Safety Conference, 9-11 November 2014.

12. **Mustafa, Nazik E. M.** and Ahmed, G. A. (2014). Health Impacts of Soap Industry Effluents: Case Study of Soap Collectors at Alfatah District, Omdurman Sudan.
13. Yassin, Afrah K.A. and **Mustafa, Nazik E. M.** (2012). *Bacillus cereus* Growth Patterns in Refrigerated Foods Mustafa, 8th Dubai International Food Safety conference, Dubai, UAE.
14. **Mustafa, Nazik E. M.**, El-Sanousi S.M. Keller, U., Malkus, U., Reichelt, R. (2005). Scanning and transmission electron microscopy investigation of heat induced morphological changes in spores of *Bacillus* species isolated from food. Abstract submitted to International Conference on Environmental, Industrial and Applied Microbiology Badajoz (Spain) Code: 568 <http://www.formatex.org/biomicroworld2005/acceptedabstracts.php>

(11) Patents:

(a) Inventions:

Mustafa, N.E. M., Suzan. A. Mohammed, Faisal, S. , Elhag, L. , Elzubeir, I. M. E. and Galib, L. M. W. (2014). Sudanese patent No. 3697/2014, D-SAFT1 raw milk antibiotic residues rapid test, 25 Aug 2014.

(b) Nucleotide sequences submissions (Published in GenBank: <http://www.ncbi.nlm.nih.gov>):

Mustafa, N.E.M. and D. Harmsen (2008). *Lysinibacillus fusiformis* strain MK34 16S ribosomal RNA gene, partial sequence. A GenBank Direct Submission. Accession FJ404788. Version: FJ404788.1 GI: 212283814.

Mustafa, N.E.M. and D. Harmsen (2008). *Bacillus cereus* strain CH52 16S ribosomal RNA gene, partial sequence. . A GenBank Direct Submission. Accession: FJ404787. Version: FJ404787.1 GI: 212283813.

Mustafa, N.E.M. and D. Harmsen (2008). *Bacillus mojavensis* strain MK32 16S ribosomal RNA gene, partial sequence. A GenBank Direct Submission. Accession: FJ404786 Version: FJ404786.1 GI: 212283812

Mustafa, N.E.M. and D. Harmsen (2008). *Bacillus cereus* strain MK52 16S ribosomal RNA gene, partial sequence. A GenBank Direct Submission. Accession: FJ404785. Version: FJ404785.1 GI: 212283811.

Mustafa, N. E. M., and D. Harmsen (2008). *Bacillus cereus* strain MK131 16S ribosomal RNA gene, partial sequence. A GenBank Direct Submission. Accession: FJ404784 Version: FJ404784.1 GI: 212283810.

Mustafa, N.E.M. and D. Harmsen (2008). *Bacillus cereus* strain Mk81 16S ribosomal RNA gene, partial sequence. A GenBank Direct Submission. Accession: FJ210815. Version: FJ210815.1 GI: 209974074.

Theses

Mustafa, N. E. M. (2005). Isolation of *Bacillus* and *Clostridial* Species from Food of Animal Origin with Special Reference to their Spores Resistance and Injury by Heat Ph. D thesis University of Khartoum.

Mustafa, N. E. M. (1999). Monitoring antibiotic residues in Beef and Mutton in Khartoum State. Master's degree thesis University of Khartoum

(12) Professional Memberships:

1. Member of International Association for Food Protection (IAFP), USA.
2. Contributing Member of the American Society of Microbiology (ASM), USA.
3. Graduate member of the Chartered Institute of Environmental Health (GradCIEH) , membership number: 209660, UK.
4. Member of the Institute of Food Safety, Integrity & Protection (TiFSiP), UK.
5. Full Ordinary Member of the Society for Applied Microbiology (SFAM).

(13) Conferences and Codex Meetings participations

- 12th Dubai International Food Safety conference, 2018, **Dubai, UAE.**
- 54th Congress of the European Societies of Toxicology (EUROTOX 2018) from 2 to 5 September 2018, Brussels. Belgium.
- 11th Dubai International Food Safety conference, 2016, **Dubai, UAE.**
- 10th Dubai International Food Safety conference, 2015, **Dubai, UAE.**
- 9th Dubai International Food Safety conference 2014, **Dubai, UAE.**
- International Research Conference on Science, Health and Medicine (IRCSHM), October 2014. **Dubai, UAE.**
- 5th Health and Environment Conference in the Middle East, Dubai 3rd-5th March 2014. **Dubai, UAE.**

- 7th Session of Joint FAO/WHO Food Standards Programme Codex Committee on Contaminants in Foods, 7– 12 April 2013 **Moscow, the Russian Federation.**
- 6th Session of Joint FAO/WHO Food Standards Programme Codex Committee on Contaminants in Foods, 26 – 30 March 2012 **Maastricht, The Netherlands**
- 5th Session of Joint FAO/WHO Food Standards Programme Codex Committee on Contaminants in Foods, 21 – 25 March 2011 **The Hague, Netherlands**
- 7th Dubai International Food Safety conference 2012, **Dubai, UAE.**
- 6th Dubai International Food Safety conference 2011, **Dubai, UAE.**
- 1st Training Conference of food, water, and feed Risk assessment, 22 -25 November 2011 **Khartoum, Sudan.**
- 2nd international Conference on Applied Biotechnology (ICAB -2010) Khartoum October 25 -27 2010 **Khartoum, Sudan**
- 4th Session of Joint FAO/WHO Food Standards Programme Codex Committee on Contaminants in Foods, 26 – 30 April 2010 **Izmir, Turkey.**
- 1st International Food Safety Conference, 16-22 March 2010. **Khartoum, Sudan**

(14) University and Community Services (in descending chronological order):

- Represented University of Sharjah in UAE Ministry of Climate Change and Environment workshop titled (One world- one health) that targeted enhancing collaboration between medical , veterinary ,agricultural and environmental sectors to improve preventive measures and notification of health problems in UAE , Dubai 20th of December 2016.
- Represented University of Sharjah in UAE Ministry of Climate Change and Environment workshop concerned with establishing the national framework for biosafety, Dubai 21st of March 2016.
- Taught food safety courses for Ajman Municipal and Planning Directorate in the technical diploma organized by the Centre of Continuing Education and P.D, University of Sharjah 13 December 2014 to 21 February 2015
- Served member in the organizing committee of the 3rd Emirates –German Congress In medicine 1st to 3rd February 2015, medical and health sciences Campus, University of Sharjah, UAE.
- Organized on behalf of the College of health sciences university of Sharjah and in collaboration with the Supreme Council for Family Affairs the activity of (Smoking and its effects of kidneys) 17 December 2014
- Participated in the Bright Start Conference, organized by the University of Sharjah and the health and promotion Department and excellence in paediatrics Institute 7-8 December 2014.
- Participated in the World Diabetes Day organized By Ministry of health , Sharjah Medical district on the 6th of November 2014
- Worked as member of the media committee, which is responsible for media preparation for the Conference of Food & Medicine in light of Recent Developments, held at University of Sharjah 16 to 17th April 2014.
- Integrated Health Awareness Campaign in collaboration with UoS student deanship-women section: the activity includes diagnostic services (blood pressure and blood sugar measurements , bone density scanning) nutritional advising and providing printed materials and verbal advising 2014
- The medical campus UAE National Day celebration activities which include College of Health sciences health awareness booths (environmental health, medical diagnostic , nursing, and nutrition activities) 2014
- Integrated Health Awareness Campaign in collaboration with UoS student deanship-men section. The activity includes diagnostic services (blood pressure and blood sugar measurements , bone density scanning) nutritional advising for daily live and sport activities and providing printed materials and verbal advising in the above activity in addition to physiotherapy advising for sport activities 30th October 2013
- Worked and working in the following College of Health science's committees: timetable and Examination Committee (member), Accreditation and Curriculum committee (member), Public Relation and Marketing (chair) and several other committees 2013-2017.
- Supervised the students' activities at the College of Health Sciences 2013-2017
- Prepared and presented a weekly radio broadcast episodes called **Sehatac** (Your Health) at Khartoum FM Radio (89) every Friday evening from April 2009 to July 2010.

- Worked in a voluntary preventive health mission organized by University of Khartoum targeted women and children at the Sudanese civil war affected town of Malakal, Upper Nile State June 1993.

(15) Postgraduate Researchers Supervision Activities

1. Elhaj, Hawa Mohammed Ahmed Mohammed (2017). Food Safety at Household Level in Alkalakla-Alguba District –Khartoum M.Sc. thesis, University of Khartoum.
2. Azhari Dafallah Alkhidir, Exploration of Cold Shock proteins and Acid soluble proteins in *Bacillus sphaericus* and *Bacillus fusiformis* and *Bacillus fusiformis*-like isolate. Co-supervisor, Ph. D. in Science ,University of Khartoum.
3. Rania Mohammed Osman Hamid(2013) Ph. D. Research project titled: **Antimutagens in Sudanese food of Plant origins**. Co-supervisor, University of Khartoum.
4. ElGazafey Basheer Haj Ahmed Mohamed Elamin (2013). **Development of Rapid Identification Scheme for Enterobacteriaceae in Food**. Co-supervisor, Ph. D. Research project: University of Khartoum.
5. Shafia Ahmed Eltayeb (2013). **Effect of Some Sanitizers on the Survival of Food-borne Bacteria on Common Food Preparation Surfaces**. M.Sc. thesis, University of Khartoum
6. Aziza Hussein Bakheit Adam (2012). **Risk Assessment of Sodium Nitrite in Processed Meat in Khartoum Locality**. M.Sc. thesis, University of Khartoum
7. Ayman Youssif Mohammad Ali (2012).**Exploring Possibilities of Application of Hazard Analysis Critical Control Points System on Beef processing Factories in Khartoum State**.Co-supervisor, University of Khartoum.
8. Muhanad Mahmoud Abdalla Elhag (2012). *Listeria monocytogenes* Incidence and Diversity in Raw Milk at Khartoum State. M.Sc. thesis, University of Khartoum. As a Co-supervisor
9. Ahlam Abdalhy Ageeb Mohammed (2011). **Food Safety Aspects of Feeding Units at Refugee Camps in Kassala State**. M.Sc. thesis, University of Khartoum.
10. Elkhatim Ibraheem(2011). **Effectiveness of Sun Light on *E. coli* Viable Count in Drinking Water**. M.Sc. thesis, Sudan Academy of Sciences.
11. Nahid Hussein Kaloul Hussein. ***Bacillus species* in spices sold in Khartoum State with Reference to *Bacillus cereus* Group (2010)**. M.Sc. thesis, University of Khartoum.
12. Afrah Kamal Abd Elazim Yassin. ***Bacillus cereus* Growth Patterns in Refrigerated Foods** (2010). M.Sc. thesis, University of Khartoum.
13. Suzan Mohamed Awad Mohamed (2010). **Development and Validation of a Rapid test for Detection of Antibiotic Residues in Milk**. M.Sc. thesis, University of Khartoum.
14. Mohammed Osman Omar Sanousi (2010). **The inhibition effects of some local manufactured yoghurt brands on *Enterobacteriaceae* and *pseudomonadaceae* member species**. M.Sc. thesis, University of Khartoum.
15. Hassan Mohammed Mahier (2010). **Quality Control and Safety of Fruit Juices in Manufacturing Plants in Khartoum State**. M.Sc. thesis, University of Khartoum.
16. Suada Elawad Osman (2009). **Campylobacter Bacteria in Broiler Meats in Khartoum State**. M.Sc. thesis, University of Khartoum.
17. Ahmed Elnadif Ahmed Elmanssury (2009). **Antibiotic Resistance among *Staphylococcus* species Isolated from Minced Meat in North Khartoum Locality**. M.Sc. thesis, University of Khartoum.
18. Nuha Mousa ABdelgadir Eltoum (2009). **Application of HACCP Prerequisites and Critical Control Points in Raw Milk Post-Collection Processes in Omdurman Area**. M.Sc. thesis, University of Khartoum. As a Co-supervisor
19. Modawy Elnour Modawy (2009). **Predicted Growth of *Clostridium perfringens* in Cold Preserved Foods in Comparison to its Actual Growth under Normal and Cold-Shock Conditions**. M.Sc. thesis, University of Khartoum. As a Co-supervisor
20. Nuha Mohammed Fadul Mohammed (2009). **Determination of Benzoates in Soft Drinks, Fruit Jams and Tomato Pastes Produced by Sudanese Factories**. M.Sc. thesis, Sudan Academy of Sciences.
21. Elrasheed Greeb Allah Mustafa Elzien (2008). **Microbiological Quality of Home-made Mayonnaise Consumed at Ready to Eat Foods Establishments in Khartoum Locality**. M.Sc. thesis, University of Khartoum.

22. Lowrenceojowk Louis (2008). **Bacterial Load of Fish in the Central Market Khartoum**. M.Sc. thesis, University of Khartoum.
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24. Diao Eldeen Khairi Nssr Osman (2008). **Degradation of Petroleum Hydrocarbon Materials by Bacteria**. M.Sc. thesis, Sudan Academy of Sciences.
25. Huria Hassan Bashir Arbab (2008). **Indoor Microbiological Air Quality in Omdurman Industrial Area**. M.Sc. thesis, Sudan Academy of Sciences.
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27. Mustafa Eldoma Hassan (2008). **Behaviour of the Health Workers towards Medical Wastes in Omdurman Maternity Hospital**. M.Sc. thesis, Sudan Academy of Sciences.
28. Mussab Mohammed Saeed Ali (2007). **Knowledge, Attitudes and Practices of Mothers towards Milk Heating at Home**. M.Sc. thesis, Alzaem Alazhari University.

(16) Skills:

(a) Languages:

English: Excellent (reading and writing) and fluent in speaking

Arabic: Excellent (native language)

(b) Computer Skills:

Excellent computer skills (Windows and Linux operation systems and their applications).

Word processor: Microsoft word, OpenOffice writer

Database: Microsoft access

Spreadsheet: Excel, Epi Info and SPSS

Operating Systems: Windows and Linux

Presentation software: PowerPoint and OpenOffice impress

Other software: Adobe illustrator, Corel draw, protein detection software and bioinformatics software