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Mohamed Abdelrahman Hussain (Consultant Microbiologist).

Dean of the faculty of pharmacy, International University of Africa.



-Assistant professor of Pharmaceutical Microbiology and Microbial genomics at department of Pharmaceutical Microbiology, Faculty of Pharmacy, International University of Africa (IUA), P.O. Box 2469, Sudan.

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Personal Information:

Date of birth: 1981

Nationality: Sudanese

Marital status: Married

Qualification:

Ph.D. in Pharmaceutical Microbiology. University of Khartoum 2019.

Title: Genetic analysis and molecular basis of Multidrug resistant profile Exhibited by clinical isolate of *P.aeruginosa*.

Master in Microbiology (2011-Nov), Sudan Academy of Sciences, with excellence grade.

B-Pharm (2005) with honor degree second class division- 1, Omdurman Islamic University.

Master in Disaster Studies and Human Security 2021. International University of Africa

Work Experience:

2005- 2006: Hospital Pharmacist at Wad Madani pediatric hospital.

2006- 2007: Community Pharmacist at Al-salam Pharmacy group

2007- 2008: Medical Representative at Middle East pharmaceutical company.

2008-2011: Teaching assistant, Department of Pharmaceutical Microbiology, Faculty of Pharmacy, IUA. **Job responsibilities:** Teaching, advising, assisting and supporting students, closely directed and supervised by the person responsible for the course, module or activity. Increasing the skills of students, through the demonstration of practical equipment, experiments and processes within a laboratory/workshop/classroom setting.

2011-2019: Lecturer of Pharmaceutical Microbiology, Faculty of Pharmacy, IUA. **Job responsibilities:** Delivering lectures, seminars, tutorials and undertaking personal research project.

2019- : Assistant professor of Pharmaceutical Microbiology and Microbial genomics. Faculty of Pharmacy, IUA.

December 2020: Coordinator of pharmacy program at AL-yarmouk College till December 2021.

Dean of the faculty of pharmacy, International University of Africa December 2021 till now.

Visiting lecturer at:

- Om durman Islamic University 2021 (Post-graduate student)
 - Om durman Islamic University 2013- 2015 (Undergraduate student).
 - Al Ribat National University 2012- 2013.
 - AL Razi University 2017.
- Al-Yarmouk College 2013 till now.
- Faculty of disaster studies and human security, IUA (master program).

Delivering courses of:

- Basic and Medical Microbiology
- Antimicrobial chemotherapy
- Sterilization
- Disinfectants & antiseptics
- Contamination and preservation of pharmaceutical preparations.
- Immunology and immunotherapy
- Molecular biology
- Biotechnology.
- Health impacts of disasters

Supervising of Master thesis

- Supervising of Master Thesis's at Omdurman Islamic University Entitled with prevalence of Re-feeding syndrome Among inpatients in intensive care units and the awareness of medical personnel about this syndrome by Mohamed Ahmed Salih
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External Examiner.

- Comparative analysis of *Brucella melitensis* vaccine (starin Rev 1): A proteomic approach. A thesis submitted for master degree in biotechnology at Khartoum University by Hayat HasabAlkareem.
- Phenotypic and genotypic investigations of the potential contamination of disinfectants used in Khartoum hospitals with *P. aeruginosa* and prevalence of selected b- lactamases genes among isolated strain. A thesis submitted for master degree in biotechnology at Khartoum University by lubaba Salah Isa.
- Isolation, characterization and evaluation of Antibacterial activity of Aloe vera Gel derived Extracellular vesicles. A thesis submitted for master degree in biotechnology at Khartoum University by Manasik Mohamed Elhassan.
- Detection of *P. aeruginosa* in hospital water system: Phenotypic and molecular identification of bacteria and investigation of the prevalence of selected B-lactamses genes among isolated strain. A thesis submitted for master degree in biotechnology at Khartoum University by Nosaiba Elkhair.
- Synergistic Effects of Green Tea Aqueous and Alcoholic Extracts and Ciprofloxacin Against some Uropathogens at wad Madani Emergency Hospital, Gezira state, Sudan. A thesis submitted for master degree in Pharmaceutical Microbiology at Al-Gazeera University by Ruaa Gasim Elbari Ahmed.
- Evaluation of Antibacterial drug's policy in Pneumonia pateints Admitted to wad Madani pediatrics teaching hospital. A thesis submitted for master degree in Pharmaceutical Microbiology by Monzer Muttasim Mahjoub at Al-Gazeera University

Internal Examiner

- Detection of antifungal drug-resistant and ERG11 gene mutations among clinical isolates of *Candida species* isolated from Khartoum, Sudan. A thesis submitted for master degree in Pharmaceutical Microbiology by Ahmed Mohamed Osman at International University of Africa.

Courses & workshops attended:

- 1- Workshop on **E- learning**, International University of Africa June 2021.
- 2- Workshop on Education quality control entitled **Educational objectives** held in AL-yarmouk College during 11/3/2021

- 3- Workshop entitled **Quality of higher education** held in AL-yarmouk College during 14-15/12/2020
 - 4- Course on **Systems and Methods of University Teaching**, Khartoum University center for advanced training, University of Khartoum, from 26th July to 3th August 2016.
 - 5- Course on **Bioinformatics**, International University of Africa, from 23-28 April 2016.
 - 6- Workshop on **Introduction to Research Ethics**, UNESCO Chair of Bioethics, University of Khartoum, from 27-28 January 2016.
 - 7- Course on **Test Items' pool within the skills of building up achievement tests**, International University of Africa, from 26-28 May 2015.
 - 8- Pre-conference workshop on **Stem Cells and Regenerative Medicine**, University of Khartoum, 19th February 2015.
 - 9- Workshop on **Citation management (ENDNOTE)**, International University of Africa, 2015.
 - 10- Workshop on **miRNA Expression Signature Associated with Diagnosis & Prognosis**, Omdurman Islamic University, 22-31 March 2014.
 - 11- Workshop on **Bioinformatics in Molecular Biology**, Omdurman Islamic University, 8-19 September 2013.
 - 12- Workshop on **Current updates in Pharmacy profession (Pharmacogenomics & Modern Method in Drug Discovery)**, Malaysia, Kuala Lumpur, 24-25 February 2012.
 - 13- Course on **Molecular Biology Techniques**, National Center for Research, Khartoum, 17-20 June 2012.
 - 14- Course on **Promoting Educational Excellence**, University of Medical science & Technology, from 18th -28th August 2008.
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Conferences attended:

- 1- The 6th Annual Conference the Medical & Health Science Studies, Graduate College & Scientific Research, University of Khartoum. Held in the period. 21th -22th February 2015 at Soba Hospital.
- 2- The 18th congress of the scientific association of the pharmacy colleges in the Arab world & the 1th International conference of the Faculty of Pharmacy, Omdurman Islamic University, 18-20 November, 2015, Khartoum Sudan.
- 3- The First International conference on Microbiology sciences & Its Applications. Faculty of Pure and Applied sciences, international University of Africa, 23-24 April 2017.

- 4- The first Symposium on: Genomic and Bioinformatics Applications in Sudan: Challenges and opportunities. Sudan University of Sciences and Technology 22/5/2017 (presented a lecture on Applications of Microbial Whole Genome Sequencing).
- 5- Delivering different lectures on microbial genomic at different universities (applications and molecular characterization of microbial whole genome).

Puplications:

- 1- Hassan, Mohamed M., **Mohamed A. Hussain**, Sumaya Kambal, Ahmed A. Elshikh, Osama R. Gendeel, Siddig A. Ahmed, Rami A. Altayeb, Abdelhafiz MA Muhajir, and Sofia B. Mohamed. "NeoCoV Is Closer to MERS-CoV than SARS-CoV." *Infectious Diseases: Research and Treatment* 13 (2020): 1178633720930711. (<https://pubmed.ncbi.nlm.nih.gov/32595278/>)
- 2- **Mohamed Hussain**, Malik Suliman, Abdalla Ahmed, Hisham Altayb, Elamin Elneima. Draft Genome Sequence of a Multidrug-Resistant *Pseudomonas aeruginosa* Strain, Isolated from a Patient with Urinary Tract Infection in Khartoum, Sudan, 2017 *Genome Announc* 0:e00203-17/genomeA.00203-17. (<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5399261/>)
- 3- Osman Mohamed A, Suliman Mohamed M, **Abdelrahman Hussain M** and Fatahalrahman Ahmed I. Detection of antifungal drug-resistant and ERG11 gene mutations among clinical isolates of *Candida* species isolated from Khartoum, Sudan. *F1000Research* 2021, 9:1050 (<https://pubmed.ncbi.nlm.nih.gov/34035903/>)
- 4- Ayman M satti, Hanan A Alkenany, Mazin Y Alsafi and **Mohamed A Hussain** "Efficacy of Macrolides versus Penicillins against Streptococcal pharyngitis: a meta-analysis of randomized controlled trials" *Int J Pharma Sci.* 2016, 6(6): 1698-1704.
- 5- Yasin K, Mwanganyuma MH, Amir FM, Abdelhamid MM, Altayb HN, Hassan MM, **Hussain M.A.** Detection and Molecular Characterization of *gyrA* and *gyrB* Genes of MDR-*Salmonella typhi* Isolated from Clinical Sample in Sudan *EC Microbiology*.
- 6- Aboud, Salwa A., Abdallah El-yamani, **Mohamed A. Hussain**, and A. Ahmed. "Prevalence and Antibiotics Sensitivity of *Staphylococcus aureus* Skin Infection in Children in Khartoum, Sudan." *Curr Res Micro. Biotechnol* 3, no. 4 (2015): 690-693.
- 7- Areej A. Khalfalla, Hanan E. Hassan, Mona O. Ahmed , Amar.A.Dowd , Suzan Homeida, **Mohamed A. Hussain**, Sofia B. Mohamed and Mohamed M. Hassan. "Novel

deleterious nonsynonymous SNPs within HLA-H (HFE) gene can be used as diagnostic marker to predict hereditary Hemochromatosis: Using bioinformatics analysis" *Int J Comput Bioinfo In Silico Model*. 2015, 4(2): 643-650.

8- Hassan, Mohamed M., Sofia B. Mohamed, **Mohamed A. Hussain**, and Amar A. Dowd. "Deleterious Nonsynonymous SNP Found within HLA-DRB1 Gene Involved in Allograft Rejection in Sudanese Family: Using DNA Sequencing and Bioinformatics Methods." *Open Journal of Immunology* 5, no. 04 (2015): 222.

9- Rawaa E Biraima, Sabreen E Mohamed, Mona A Hajo, Anas M Elnazeer and **Mohamed A Hussain** "Microbiological quality assessment of antacid suspensions available in Sudan" *The Pharma Innovation Journal* 2016; 5(9): 17-19.

10- Budoor M Alnoaemi, Sulafa I Mohammed, Nora H Sayedahmed, Al-Husein M Chyad and **Mohamed A Hussain** " Evaluation of sensitivity and specificity of immunochromatographic test for detection of malaria parasites *P. falciparum* / *P. vivax* in Sudan" *The Pharma Innovation Journal* 2016; 5(9): 20-22.

Coming soon publications

- 1- Prevalence of vulvovaginal candidiasis among pregnant woman in Africa, A systematic review and Meta-analysis. (**Accepted** in journal of infection in developing countries).
 - 2- Knowledge, attitude and practice of community pharmacists towards dispensing antibiotics without prescription in Sudan. (**Accepted** in journal integrated pharmacy research and practice).
 - 3- On the way of understanding Covid-19: A comparative genomic analysis.
 - 4- Comparative genomic analysis of MDR- *P.aeruginosa* ST 235 isolated from Sudan.
 - 5- Novel deleterious mutation in *folP* gene in MDR-*Salmonella typhi* isolated from clinical sample in Sudan.
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Referees:

- 1- Dr: Alamin Ibrahim Alneima professor of pharmaceutical Microbiology, department of Pharmaceutics, Faculty of Pharmacy, Khartoum University.
 - 2- Dr: malik Suliman Mohamed, Associated professor of pharmaceutical Microbiology and Biotechnology at Al-Jouf University, Saudi Arabia.
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