

# Curriculum Vitae

## Personal Information

Name: Nesrin R. Mwafi  
Date of birth: 29/1/1977  
Current Address: Nesrin R. Mwafi  
Department of Biochemistry and Molecular  
Biology Faculty of Medicine,  
Mutah University,  
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## Education

- **PhD**, Genetics and Molecular Biology, Faculty of Medicine/ University of Heidelberg, Germany, Grade: magna cum laude, 2014. Thesis title: “Medaka *Wnt8a1* Regulates Posterior Axis Formation independently of the Wnt/b-catenin Pathway.”
- **M.Sc.**, Pharmacology and Biotechnology, Sheffield Hallam University, Sheffield, United Kingdom, Grade: 80.83% (Distinction), 2007. Dissertation Title: “Ferrocene Conjugated Nucleosides as Potential Inducers of Apoptosis in Cancer Cells.”
- **B.Sc.**, Pharmacy, Jordan University, Amman, Jordan, Grade: 3.45/4.00 (Very Good), 2000.
- **Secondary School**: Al-Karak Secondary School, Jordan, Grade: 96.4%, 1995.

## Employments Experience

- 09/2022 – Present: Dean of Faculty of Allied Medical Sciences, Mutah University, Jordan.
- 09/2020 – 09/2022: Head of Biochemistry, Molecular Biology and Physiology Department, Faculty of Medicine, Mutah University, Jordan.
- 6/2021- Present: Associate Professor, Biochemistry, Molecular Biology and Physiology Department, Faculty of Medicine, Mutah University, Jordan
- 09/2014 – 6/2021: Assistant Professor, Biochemistry, Molecular Biology and Physiology Department, Faculty of Medicine, Mutah University, Jordan
- 09/2016 – 09/2017: Dean Assistant for Quality Assurance, Faculty of Medicine, Mutah University, Jordan.
- 09/2007 – 04/2010: Lecturer, Faculty of Medicine, Mutah University, Jordan.
- 03/2005 - 06/2005: Dispenser, Lloyds Pharmacy, Sheffield, UK.
- 04/2004-11/2004: Pharmacist, Wjood Pharmacy, Al-Karak, Jordan.
- 01/2003-03/2004: Pharmacist, Dr. S. Fakeeh Hospital, Jeddah, Saudi Arabia.
- 04/2002-12/2002: Pharmacist, Wahaj Pharmacy, Al-Karak, Jordan.
- 07/2000-03/2002: Pharmacist, Nassar Pharmacy, Al-Karak, Jordan.

## **Research Interest**

- Genetic diseases and metabolic disorders (e.g. Alkaptonuria)
- Molecular pathways involved in embryonic development
- Molecular mechanisms of canonical and non-canonical *Wnt* pathways implicated in posterior axis formation
- Genetic Factors involved in cancer development
- Gene analysis and interpretation
- Gene expression using In Situ hybridization
- Morpholino-specific Gene knockdown

## **Teaching Experience**

- Molecular Biology
- Pharmacology
- Biochemistry
- Biochemistry Lab
- Molecular Biology Lab

## **Publications**

### **Journals**

Amjad Al-Tarawneh, Muhamad Al-Limoun, Ali M Khlaifat, Ibrahim Tarawneh, Nesrin Mwafi, Khaled Khleifat, Moath Alqaraleh, Hussam Mizhe. (2023). Bacterial quality of urinary tract in patients with alkaptonuria. Accepted in The American Journal of the Medical Sciences.

Hana' Qudsieh, Suhair Qudsieh, Nesrin Mwafi. (2022). Clinical and radiological presentation of familial Mayer-Rokitansky Küster-Hauser syndrome in three sisters with literature review. Middle East Fertility Society Journal, Volume 27, Issue 1, pp. 1-10.

Al Zubi K., Mwafi N., Alrawashdeh H., Al Sarireh F., Somkuwar A, Abdulmannan D. (2022). The first reported case of CDH3-related hypotrichosis with juvenile macular dystrophy from Jordan: a case report, Ophthalmic Genetics, DOI: 10.1080/13816810.2022.2028298

Khalil R., Ali D., Mwafi N., Alsaraireh A., Obeidat, L., Albsoul, E., Al Sbou', I. (2021). Variant Analysis of Alkaptonuria Families with Significant Founder Effect in Jordan. BioMed Research International, Volume 2021, Article ID 1515641. <https://doi.org/10.1155/2021/1515641>

Mwafi N., Ali D., Khalil R, Alsbou' I., Saraireh A. (2021) Novel R225C variant identified in the HGD gene in Jordanian patients with alkaptonuria. AIMS Molecular Science, 8(1): 60-75. doi: 10.3934/molsci.2021005

Mwafi N, Alasmar A., Al-Momani M., Alazaydeh S., Alajoulin O., Alsalem M., Kalbouneh H. (2021). Alkaptonuria with extensive ochronotic degeneration of the Achilles tendon and its surgical treatment: a case report and literature review. Asian Biomed., 15(3): 129-136.

Mwafi N., Al-Rawashdeh I., Al-Kubaisy W., Ezzat W., Al-Qazaqi R., Salameh M. (2021). Prevalence and factors related to obesity and fast food consumption among Mutah University Students, Jordan. Journal of the Pakistan Medical Association, 71(6): 86-90. <https://doi.org/10.47391/JPMA.274>

Al-Qtaitat A., Mwafi N., Albtoosh A., Al-Dalaien N. (2020). A new tool for early diagnosis of rheumatoid arthritis using combined biomarkers; synovial MAGE-1 mRNA and serum anti-CCP and RF. Pan African Medical Journal, 36(270).

AL-Qtaitat A., Mwafi N., Albtoosh A., Al-Dalaien S. (2020). The possible Ameliorating and Antioxidant Effects of Curcumin against Cyclosporine-Induced Renal Impairment in Rats Kidney, Bulletin of Environment, Pharmacology and Life Sciences Bull. 9(8).

Al-Shagahin H., Mwafi N., Khasawneh M., Al Zubi K., Alsbou M. (2019). Ear, nose, and throat manifestations of alkaptonuria patients from Jordan, Indian Journal of Otolaryngology, 25(3), Publisher: Medknow Publications.

Albatayneh E., Al-Sbou M., Mahgoub S., Mwafi N., Alnawaiseh N. (2019). Serum Oxidative-Antioxidative Status in Patients with Alkaptonuria. J Clin Med Res. ;11(5):337-344. doi: 10.14740/jocmr3801

Mwafi N., Beretta C.A., Paolini A., Carl M. (2014). Divergent Wnt8a Gene Expression in Teleosts. PLoS ONE 9(1): e85303 doi:10.1371/ journal.pone.0085303.

Al-Sbou M. and Mwafi N. (2013). A Previously Undiagnosed Case of Alkaptonuria: A Case Report. Turkish Journal of Rheumatology 28 (2), p132

Al-Sbou M., Mwafi N., Abu Lubad M. (2012). Identification of forty cases with alkaptonuria in one village in Jordan. Rheumatol Int, 16;32(12):3737- 40.

Al-Sbou M. and Mwafi N. (2010). Nine cases of Alkaptonuria in one family in southern Jordan. Rheumatol Int 3;32(3):621-5.

## **Conferences**

Nesrin Mwafi, Beate Wittbrodt, Jochen Wittbrodt and Matthias Carl. "Wnt8a regulates posterior axis formation independently of the b - catenin pathway". Joint International Meeting of the German Society for Cell Biology (DGZ) and the German Society for Developmental Biology (GfE), Heidelberg, March, 2013.

Nesrin Mwafi, Beate Wittbrodt, Jochen Wittbrodt and Matthias Carl. "A Non-canonical Role for Wnt8a in Medaka". Regulatory Networks in Development, the 9th GfE school, Günzburg, Germany, Sep, 2012.

Nesrin Mwafi, Beate Wittbrodt, Jochen Wittbrodt and Matthias Carl. "A Novel Role for Wnt8a in Posterior Axis Formation. Annual Conference of the German Genetic Society (GFG), Würzburg, Germany, Sep, 2011.

Nesrin Mwafi. "Ferrocene conjugated nucleosides as potential inducers of apoptosis in cancer cells." The International Nanotechnology Conference, Riyadh, Saudi Arabia, April, 2009.

Attending The 5th Middle East Molecular Biology (MEMBS) Congress and Exhibition 2018 – Jordan from 3-6 October 2018□

Attending The First MENA Metabolic & Genetic Conference (Virtual), 11th – 12th June 2021, <https://mena-metabolic-and-genetic-conference-maarefah-management.vfairs.com/en/>

Participant in "Trends in sequencing techniques, new era for NGS" Online Workshop at Alexandria Faculty of Medicine/ Molecular Biology Lab & Cancer Genetics Unit. Thursday 24th June 2021

### **Training Courses**

1. Attending The building capacity online training course entitled "what bioinformatics can do for you? " Module 1 organized by the Egyptian center of bioinformatics and genomics (ECBAG) from Feb 2021
2. Attending The building capacity online training course entitled "Manipulation of Biological Sequences, PCR and primer design" Module 2 organized by the Egyptian center of bioinformatics and genomics (ECBAG) from April 2021
3. Attending The building capacity online training course entitled "Different PCR techniques and sequence analysis " Module 3 organized by the Egyptian center of bioinformatics and genomics (ECBAG) from May 2021
4. Attending The building capacity online training course entitled "Applications of DNA sequence analysis , Global alignments" Module 4 organized by the Egyptian center of bioinformatics and genomics (ECBAG) from July 2021
5. Attending The building capacity online training course entitled "DNA sequence analysis and pairwise alignments" Module 5 organized by the Egyptian center of bioinformatics and genomics (ECBAG) from Sep 2021
6. Attending The building capacity online training course entitled " theories and algorithms of sequence local alignments" Module 6 organized by the Egyptian center of bioinformatics and genomics (ECBAG) from November 2021

7. Attending The building capacity online training course entitled “Multiple sequence alignments MSA and applications” Module 7 organized by the Egyptian center of bioinformatics and genomics (ECBAG) from Dec 2021

### **Honors and Awards**

- PhD Scholarship from the German Academic Exchange Services (DAAD), 2010-2014.
- Faculty of Health and Wellbeing Prize of Sheffield Hallam University/UK for being the best MSc student for the 2007 year.

### **Languages**

- Arabic: native language
- English: very good commands
- Deutsch: very good commands

### **Professional Societies**

- Administrative member, Jordanian Alkaptonuria Society, 2012.
- Member in the Jordanian Pharmaceutical Association since 2000.
- Member in Middle East Molecular Biology Sources (MEMBS),

### **References**

Available upon request

