

# Khadija Mohamed Ahmad

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## Personal Information

**Nationality:** Libyan

**Mobile phone:** 0918223767

**Associate Professor** at medical microbiology, Faculty of medicine, Sebha University

## Roles

- 2023 till now: Vice dean of faculty of medicine Sebha university
- Associate Professor at medical microbiology and immunology
- 2023-2021 officer of infection control department Sebha medical center and the head of PCR unit at Sebha medical center
- NCDC Tripoli Collaboration
- 2022-2020 Collaboration at pharmacy
- Journal of medical Science SUMJ: *Managing Editor* 2019 till now
- Member at ethical approval committee since 2023

## Career Overview

**PhD, Genetic, Lund University, Sweden.**

- PhD Thesis title: Genome dynamics and virulence in the human pathogen *Candida glabrata* 2014.
- March 2014: PhD degree, Specialization in genetic
- 2009 PhD study at Lund university/ Sweden
- 2006 :Biotechnology research center
- 2002- 2005 SHO at Anesthesia department
- 2001-1994 : MBCHB / Sebah University

## Research Areas

DNA extraction, RNA extraction, PCR and DNA purification, RT-qPCR, Pulse field gel electrophoresis (PFGE), Southern Blotting, Northern blotting, Phylogeny construction, Plasmid extraction and transformation, Primer design

### Research interest:

Antibiotic resistance, combination therapy (Synergism) - Nosocomial infection prevention and control

Infectious diseases

## External Activities

- Reviewer at different local and international journals e.g. Asian journal of research in infectious diseases
- Journal of medical Science SUMJ: *Managing Editor* 2019-2024
- Member at ethical approval committee since 2023
- Libyan medical research center Journal 2022-2023
- Supervisor of three master students

### Conferences:

- 1- International conference on Arginine and Pyrimidines, Lund, Sweden 2006.
- 2- EMBO Conference Series Experimental Approaches to Evolution and Ecology in Yeast, Heidelberg, 2010 (poster presentation).
- 3- EMBO conference - Comparative Genomics of Eukaryotic Microorganisms - San Feliu de Guixols, Spain – 15th – 20th October 2011 (poster presentation).
- 4- 18th Congress of the International Society for Human and Animal Mycology, Berlin, Germany (poster presentation).
- 5- National conference of hospital infection prevention & control 4-5 March 2017/ Misrata, Libya
- 6- First international conference on science and technology (1<sup>st</sup> ICST-2018)
- 7- 10 days course in the infection control, Sebha Medical center.
- 8- Breast cancer research conference, 2019 Tripoli
- 9- The 7<sup>th</sup> Libyan Medical Science conference October 2022/ Zawia Libya. Scientific committee member
- 10- Scientific committee of 6<sup>th</sup> international conference on science and technology 2/3- 10/ 2023

## المنشورات Publications

- 1- Small chromosomes among Danish *Candida glabrata* isolates originated through different mechanisms. Ahmad KM, Ishchuk OP, Hellborg L, Jørgensen G, Skvarc M, Stenderup J, Jøreck-Ramberg D, Polakova S, Piškur J. Antonie Van Leeuwenhoek. 2013 Jul; 104 (1):111-22.
- 2- Genome Structure and Dynamics of the Yeast Pathogen *Candida glabrata*. Khadija Mohamed Ahmad, Janez Kokošar, Xiaoxian Guo, Zhenglong Gu, Olena P. Ishchuk and Jure Piškur (2014). FEMS Yeast Research.
- 3- RNAi as a Tool to Study Virulence in the Pathogenic Yeast *Candida glabrata*. Olena P. Ishchuk, Khadija Mohamed Ahma, Katarina Koruza, Klara Bojanovič, Marcel Sprenger, Lydia Kasper, Sascha Brunke, Bernhard Hube, Torbjörn Säll, Thomas Hellmark, Birgitta Gullstrand, Christian Brion, Kelle Freel, Joseph Schacherer, Birgitte Regenber, Wolfgang Knecht, and Jure Piškur. Front Microbiol. 2019; 10: 1679. doi: 10.3389/fmicb.2019.01679
- 4- The haploid nature of *Candida glabrata* is advantageous under harsh conditions. Running title: *C. glabrata* haploids versus diploids. Olena P. Ishchuk, Silvia Polakova, Khadija Mohamed Ahmad, Praveen Chakravarthy, Sofia Mebrahtu Wisén, Sofia Dashko, Maryam Bakhshandeh, Leif Søndergaard, Victoria Rydengård, Artur Schmidtchen, John Synnott, Can Wang, Sarah Maguire, Geraldine Butler & Jure Piškur (Manuscript)
- 5- Genome dynamics and virulence in the human pathogen *Candida glabrata* (Ph. D thesis) 2014
- 6- Prevalence of Methicillin-resistant *Staphylococcus aureus* (MRSA) among *Staphylococcus aureus* collection at Sebha medical center. Khadija M. Ahmad, Almahdi A.M. Alamen, Fatima A. Atiya, Abdelkader A. Elzen. Journal of Advanced Laboratory Research in Biology.

- 7- Co-expression of Extended spectrum  $\beta$ -lactamase (ESBL) and AmpC  $\beta$ -lactamase among *Pseudomonas aeruginosa* clinical isolates in sebha medical center. 2019. Khadija Mohamed Ahmad, Almahdi Ahmed Mohamed Alamen, Shamsi Abdullah Mohamd saad shamsi, Abdelkader A. Elzen. *Journal of Pure and Applied Sciences*, 18(1)
- 8- Emergence of AmpC  $\beta$ -Lactamase and Metallo-  $\beta$ - Lactamase producing *Klebsiella pneumoniae* in Sebha, Libya. Khadija Mohamed Ahmad, Almahdi Ahmed Mohamed Alamen, Shamsi Abdullah Mohamd saad shamsi, Abdelkader A. Elzen 2019. *Medical journal of Islamic world academy of sciences*. DOI:10.5505/ias.2019.93798
- 9- Understand the Genomic Diversity and Evolution of Fungal Pathogen *Candida glabrata* by Genome-wide Analysis of Genetic Variations. 2020. Gue X, Zhang R' LI Y, Wang Z, Ishchuk OP, Ahmad KM, Wee J, Piskur J, Shapiro JA, Gu Z'. *Methods*
- 10- Prevalence of Malaria infection in Fezzan region (south of Libya). Nassr M. Hamid, Alsadig M. Abdalla, Ali Z. Aldlouli, Ali A. AlMaki, Abraheem M. Mansour, Abdunabi A. Masoud, Khadija M. Ahmad. *Journal of Medical Sciences*. 2018, 13(1), DOI:<https://doi.org/10.51984/joms.v13i1.315>
- 11- *Burkholderia cepacia* Complex, an Emerging Nosocomial Pathogen at Health Care Facilities in Sebha, Libya. Saad Shamsi S, A. Elzen A, M. Ahmad K. *JoMMID*. 2021; 9 (4): 178-184
- 12- Prevalence of acid-resistant Verotoxin-producing *Escherichia coli* associated with diarrhea. 2022. Shamsi S. Shamsi, Amira A. Al-Basheer, Fatima S. Alfage, Abdelkader A. Elzen, Khadija M. Ahmad. *Acta Microbiologica Hellenica*, June 2022, 67(1): 49.
- 13- The haploid nature of *Candida glabrata* is advantageous under harsh conditions. OP Ishchuk, S Polakova, KM Ahmad, P Chakravarthy, SM Wisen, *YEAST* 32, S215-S215.
- 14- Co-infection as a Risk Factor in COVID-19 Mortality Rate. AAA Senussi, KM Ahmad - *Journal of Medical Sciences*, vol 17 No. 1 (2022).
- 15- Detection of foodborne microbes in distributed eggs within the city of Misurata, Libya. 2023. Rasha R. Shaaib; Ibrahim A. Teka ; Khadija M. Ahmed. *Journal of Academic Research (Applied Sciences)*, 24, 2023
- 16- Antibiotics Resistance among Nosocomial *Burkholderia cepacia* Isolates Detected in Sebha, Libya. Shamsi S. Shamsi, Khadija M. Ahmad, Abdelkader A. Elzen. *J Med Bacteriol*. Vol. 11, No. 1, 2 (2023): pp.11-18 [jmb.tums.ac.ir](http://jmb.tums.ac.ir)
- 17- Evaluation of four commercial COVID-19 diagnostic RT-PCR kits used in Libya. 2023. Khadija M. Ahmad, Shamsi S Shamsi, Mohammed B Alsubbi, Ali A. Aldalouli, Hamad A Almahdi Alkeelani M M Alkeelani and Ibrahim A. Mohamed. *SEBHA UNIVERSITY JOURNAL OF JOURNAL OF MEDICAL SCIENCES*. VOL.18NO.12023DOI:10.51984/JOMS.V18I1.2600. [doi.org/10.51984/joms.v18i1.2600](https://doi.org/10.51984/joms.v18i1.2600)
- 18- Probiotic Potential of *Bifidobacterium* Species in Cancer Patients: Isolation, Antibiotic Susceptibility, and Antibacterial Efficacy. 2024. Shamsi, Shamsi Saad, Israa Abdullah Malli, Jamela Mohamed Alsahi, Khadija Mohamed Ahmed, and Fatima Ali Abdunabi. *Acta Microbiol. Bulg.* 2024; 40(02). <https://doi.org/10.59393/amb24400212>
- 19- Combating Biofilm: Melatonin's Role in Mitigating Multidrug-Resistant Uropathogens in Cancer. SS Shamsi, KM Ahmed, HH Al-Griw, AM Abobaker, FA Abdunabi. *Egyptian Journal of Medical Microbiology* 34 (3)

## Other:

1. Orcid: <https://orcid.org/0000-0002-4230-3822>
2. Web of science :<https://www.webofscience.com/wos/author/record/JAC-0676-2023>
3. google scholar :<https://scholar.google.com/citations?hl=en&user=k5DNkYoAAAAJ>
4. ARID: <https://portal.arid.my/ar-LY/ApplicationUsers/Details/cca8a35a-faf7-4bcc-b7f2-7f93dfafc9b2>
5. research gate: <https://www.researchgate.net/profile/Khadija-Ahmad>
6. [linkedin.com/in/khadija-ibrahem-62b466176/](https://www.linkedin.com/in/khadija-ibrahem-62b466176/)