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### Personal details

- Full Name: Abdul Aziz Abdullah Bin Dukhyil.
- Nationality: Saudi.
- Place and date of birth: Riyadh – 30/10/1968.
- Associate Professor at Medical Laboratories Sciences department - College of Applied Medical Sciences - Majmaah University
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### Academic status

- **Ph.D. in Molecular Biology of DNA (2000)** – Department of Molecular Biology and Biotechnology – college of Pure Science – University of Sheffield, UK.  
The title of the thesis: (Investigations of Error-Prone Repair Using Mutant Bacterial DNA Methyltransferase).
- **B.Sc. in Biochemistry (1992)** – College of Science – King Saud University, Riyadh.

### Expertise

- Associate Professor at Medical Laboratories Sciences department - College of Applied Medical Sciences - Majmaah University (2019 –to date).
- Assistant Professor at Medical Laboratories Sciences department - College of Applied Medical Sciences - Majmaah University (2014 – 2019).
- Vice Dean for Business Development and Execution at King Salman Institute for Studies and Consulting Services (KSISCS) – Majmaah University (2019 – 2020).

- Vice Dean for Graduate Studies and Scientific Research at College of Applied Medical Sciences - Majmaah University (2014 – 2019).
- Head of Basic and Health Research Center - Majmaah University (2016 – 2019).
- Consultant at King Salman Institute for Studies and Consulting Services (KSISCS) – Majmaah University (2018 – 2019).
- Head of Forensic Sciences Department at King Fahd Security College – Riyadh (2008- 2013).
- Supervisor of Laboratories at King Fahd Security College – Riyadh (2005- 2013).
- DNA profiling expert at DNA profiling department – Public Security (1992 – 2005).

#### **Committees and Councils Memberships**

- Member of the Scientific Counsel at Jouf University (2021-to date).
- Member of the Academic Recruitment Committee at Majmaah University (2017- 2019).
- Member of the Academic Promotion Committee at Majmaah University (2017- to date).
- Member of the Postgraduate Studies Committee at Majmaah University (2017- to date).
- Member of the committee involved in establishing the Forensic Sciences College at Nief Arab University for Security Sciences (2003).

#### **Academic contributions**

- Teaching of DNA profiling Techniques at Nief Arab University for Security Sciences.
- Member of the committee involved in establishing the Forensic Sciences College at Nief Arab University for Security Sciences (2003).
- Member of the Institutional Review Board (IRB) at King Abdul Aziz Medical City, Riyadh – Saudi Arabia (2005-2008).
- Member of the Academic Board at King Fahd Security College, Riyadh – Saudi Arabia (2005-2006).

- Member of the committee establishing the Forensic DNA master curriculum at College at Nief Arab University for Security Sciences (2009).
- Consultant at Natural Resources and Environment Research Institute - KACST (2009-2010).
- Consultant at Genome Research Chair – Biochemistry Department King Saud University (2010).

### Research experiences

- Mir SA, Noor M, Manzar MD, Alshehri B, Alaidarous M, **Dukhyil AAB**, Banawas S, Madkhali Y, Jahan S, Kashoo FZ, Iqbal D, Zia Q, Alsagaby SA, ALDosari S. Prevalence of rheumatoid arthritis and diagnostic validity of a prediction score, in patients visiting orthopedic clinics in the Madinah region of Saudi Arabia: a retrospective cross-sectional study. PeerJ, 2022; 10:e14362. (<https://doi.org/10.7717/peerj.14362>).
- Rudrapal M., Khairnar S., Khan J., **Bin Dukhyil A.**, Ansari M., Alomary M., Alshabrimi F., Palai S., Deb P. and Devi R. Dietary Polyphenols and Their Role in Oxidative Stress-Induced Human Diseases: Insights into Protective Effects, Antioxidant Potentials and Mechanism(s) of Action. Frontiers in Pharmacology, 2022. 13:806470. doi: 10.3389/fphar.2022.806470.
- Rahat Ali, Mohammad Islamuddin, Shams Tabrez, Mohammed Alsaweed, Mohammed A. Alaidarous, Bader M. Alshehri, Saeed Banawas, **Abdul Aziz Bin Dukhyil**, Abdur Rub (2021). Embilica officinalis L. inhibits the growth and proliferation of Leishmania donovani through the induction of ultrastructural changes, mitochondrial dysfunction, oxidative stress and apoptosis-like cell death, Biomedicine & Pharmacotherapy, Volume 143, 112156.
- Ahmad Mir S, Firoz A, Alaidarous M, Alshehri B, **Aziz Bin Dukhyil A**, Banawas S, Alsagaby SA, Alturaiki W, Ahmad Bhat G, Kashoo F, Abdel-Hadi AM, (2021). Identification of SARS-CoV-2 RNA-dependent RNA polymerase inhibitors from the major phytochemicals of Nigella

sativa: An in silico approach. Saudi J Biol Sci. 2021 Sep 8. doi: 10.1016/j.sjbs.2021.09.002. PMID: 34518755; PMCID: PMC8426002

- Iqbal, Danish, Md T. Rehman, **Abdulaziz Bin Dukhyil**, Syed M.D. Rizvi, Mohamed F. Al Ajmi, Bader M. Alshehri, Saeed Banawas, M. S. Khan, Wael Alturaiki, and Mohammed Alsaweed, (2021). High-Throughput Screening and Molecular Dynamics Simulation of Natural Product-like Compounds against Alzheimer's Disease through Multitarget Approach, Pharmaceuticals 14, no. 9: 937. <https://doi.org/10.3390/ph14090937>
- Alqahtani, Saeed M., Suliman A. Alsagaby, Shabir A. Mir, Mohammed Alaidarous, **Abdulaziz Bin Dukhyil**, Bader Alshehri, Saeed Banawas, Wael Alturaiki, Naif K. Alharbi, Taif A. Azad, and Waleed Al Abdulmonem (2021). Seroprevalence of Viral Hepatitis B and C among Blood Donors in the Northern Region of Riyadh Province, Saudi Arabia, Healthcare 9, no. 8: 934. <https://doi.org/10.3390/healthcare9080934>
- Rahman F, Tabrez S, Ali R, Akand SK, Zahid M, Alaidarous MA, Alsaweed M, Alshehri BM, Banawas S, **Bin Dukhyil AA**, Rub A (2021). Virtual screening of natural compounds for potential inhibitors of Sterol C-24 methyltransferase of Leishmania donovani to overcome leishmaniasis. J Cell Biochem. 2021 May 6. doi: 10.1002/jcb.29944.
- Tabrez S, Rahman F, Ali R, Muhammad F, Alshehri BM, Alaidarous MA, Banawas S, **Dukhyil AAB**, Rub A (2021), Repurposing of FDA-approved drugs as inhibitors of sterol C-24 methyltransferase of Leishmania donovani to fight against leishmaniasis. Drug Dev Res. 2021 Apr 30. doi: 10.1002/ddr.21820. PMID: 33929761
- Tabrez S, Rahman F, Ali R, Akand SK, Alaidarous MA, Alshehri BM, Banawas S, **Dukhyil AAB**, Rub A (2021), Targeting sterol alpha-14 demethylase of Leishmania donovani to fight against leishmaniasis. J Cell Biochem. 2021 Apr 4. doi: 10.1002/jcb.29922. PMID: 33817826.
- Alabdallat N. and **Bin Dukhyil A.** (2020) In vitro anticoagulant activity of methanolic extracts of Artemisia herba-alba, Achillea fragrantissima

and *Citrullus colocynthis* grown in Saudi Arabia. *Indian Journal of Traditional Knowledge*; 2020 (accepted).

- Selmi M., **Bin Dukhyil A.** and Belmabrouk H. (2020). Numerical Analysis of Human Cancer Therapy Using Microwave Ablation. *Appl. Sci.* 10: 211-227. doi:10.3390/app10010211.
- Bader Alshehri, Palanisamy Manikandan, Ahmed Abdel-hadi, **Abdul Aziz Bin Dukhyil**, Mohammed Alaidarous, Saeed Banawas, Raed A. Alharbi, Saleh A. Aloyuni, Csaba Vágvolgyi, László Kredics, Sándor Kocsubé, Esam S. Al-Malki, Rajendran Vijayakumar, Kanesan Panneer Selvam, Coimbatore Subramanian Shobana. (2020). Corneal ulcer/keratitis derived *Aspergillus flavus* & *Aspergillus tamaris* and their RAPD-PCR typing. *Journal of King Saud University – Science.* 32 (2020) 2103–2111.
- Shabir A. Mir, Bader M. Alshehri, Mohammed Alaidarous, Saeed S. Banawas, **Abdul Aziz A. Bin Dukhyil** and Mohammad K. Alturki (2020). Prevalence of Hemoglobinopathies ( $\beta$ -Thalassemia and Sick Cell Trait) in the Adult Population of Al Majma'ah, Saudi Arabia. *Hemoglobin*, Volume 44: 47-50.
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- **Abdul Aziz A. Bin Dukhyil.** (2019) Dual Role of CD40 Receptor Signaling in Host Protection and Diseases Progression Against *Leishmania* Infection. *Journal of Biological Sciences*, 19: 1-6.
- **Abdul Aziz A. Bin Dukhyil.** (2018) Targeting Trypanothione Reductase of *Leishmania major* to fight against Cutaneous Leishmaniasis. *Infectious Disorders - Drug Targets.* 2018 May 2. doi:10.2174/1871526518666180502141849.
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“Expression and production optimization of the cationic antimicrobial peptide - indolicidin by the recombinant *E. coli* C41 (DE3) clones”, *Acta Biologica Szegediensis*, 62(1), pp. 61-66. doi: 10.14232/abs.2018.1.61-66

- Alaidarous M, Choudhary RK, Waly MI, Mir S, **Bin Dukhyil A**, Banawas SS, Alshehri BM. (2018) The prevalence of transfusion-transmitted infections and nucleic acid testing among blood donors in Majmaah, Saudi Arabia. *J Infect Public Health*. 2018 Apr 24. doi: 10.1016/j.jiph.2018.04.008.
- Alabdallat N. and **Bin Dukhyil A**. (2018) Significance of HBV NAT Among HBs Antigen-Negative Blood Donors in Saudi Arabia. *Lab. Medicine*; 2018 May 15. doi: 10.1093/labmed/lmy023.
- Mohammed Albujja, **Abdul Aziz Bin Dukhyil**, Abdul Rauf Chaudhary, Ahmed Kassab, Ahmed Refaat, Saranya Babu, Mohammad Okla, and Sachil Kumar. (2018) Evaluation of Skin Surface as an Alternative Source of Reference DNA Samples: A Pilot Study. *Journal of Forensic Sciences*; 63: 227-233.
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- **Abdul Aziz Bin Dukhyil** (2008). Book title "Importance of DNA Profiling in Paternity and Forensic Crimes". Published by Security Research Center at King Fahd Security College.
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- Abdulaziz A. Al-Khedhairy, Misbahul Arfin and **Abdul Aziz Bin Dukhyil**. "Molecular cloning and sequencing of rabbit presenilin-1 cDNA fragment". (2002) *Acta Biochemica Polonica*; 49 (4): 1013–1017.
- **Abdul Aziz Bin Dukhyil**, "Security applications of DNA databases". (2004) *Security Research Journal*; 13 (28): 89-137.
- Reviewing articles submitted to Security Research Journal (Published by King Fahd Security College – Riyadh) and other journals.