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المملكة العربية السعودية

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المؤهلات الأكاديمية:

الدكتوراة 2000 طفيليات جزيئية كلية العلوم؛ جامعة كنغستون؛ المملكة المتحدة

الماجستير 1987 طفيليات كلية العلوم البيطرية؛ جامعة الخرطوم؛ السودان

البكالوريوس 1983 علوم بيطرية كلية العلوم البيطرية؛ جامعة الخرطوم؛ السودان

الإهتمامات البحثية:

الاهتمام بالقيام بأبحاث تتعلق بتشخيص الأمراض التي تسببها كائنات حية. استخدام الطرق الحديثة من تقنيات الأحماض النووية في أغراض تشخيصية. الاهتمام بالطفيليات التي تصيب الإنسان والحيوان والحيوانات ال فطرية بشبه الجيرة العربية.

الخبرات الأكاديمية والعملية:

أستاذ الطفيليات الجزيئية بقسم علم الحيوان، كلية العلوم، جامعة الملك سعود ٢٠٢١- حتى الآن

أستاذ مشارك بقسم علم الحيوان، كلية العلوم جامعة لملك سعود 2015م – ٢٠٢١

أستاذ م ساعد بقسم علم الحيوان، كلية العلوم جامعة لملك سعود 2010م – 2015م

رئيس قسم صحة الح يوانات الفطرية والوراثة مركز الملك خالد لآبحاث الحياة الفطرية، جمعية لندن لعلوم الحيوان 2004م – 2010م

كبير الباحثين بمركز الملك خالد لبحاث الحياة الفطرية، جمعية لندن لعلوم الحيوان 2000م-2004م
طالب دكتوراة بكلية العلوم جامعة كنغستون المملكة المتحدة 1996م – 2000م
طبيب بيطري بمركز الملك خالد لبحاث الحياة الفطرية، جمعية لندن لعلوم الحيوان 1987م-1992م
مساعد تدريس بقسم الطفيليات وتدریس مادة الطفيليات (القسم العمل ي) لطلاب السنة الرابعة
بكلية العلوم البيطرية بجامعة الخرطوم 1983م – 1987م
طالب دراسات عليا بقسم الطفيليات كلية العلوم البيطرية بجامعة الخرطوم 1983م-1986م

التدريب:

سنة اشهر تدريب في مجموعة الوراثة الدزيئية بمعهد لندن لعلوم الحيوان، جمعية لندن لعلوم
الحيوان، لندن، عن اساسيات التقنية الحيوية او الاحياء الجزئية واستخدام التقنيات الحيوية في مجال
المحافظة الوراثةية .

تدريب في استخدام المجهر الالكتروني وذلك لدراسة التركيبات الدقيقة لوحيدة الخلية بجامعة كنغستون
بالمملكة المتحدة 1996م – 2000م.

المشاركة في وتنفيذ برنامج التخلص من السل الرئوي وسط قطعان الحيوانات الفطرية ويشمل ذلك
الغزلان والمها العرب ي بمركز الملك خالد لبحاث الحياة الفطرية .

رسم خطة للتحكم والتخلص من الطفيليات الداخلية التي تصيب الغزلان والمها الهربي بمركز الملك
خالد لبحاث الحياة الفطرية.

في العام 2003 عملت ك باحث زائر للاستاذ ميلتون ماكاليستر في قسم بيولوجية الامراض في كلية
الطب البيطري بجامعة الينوي بالولايات المتحدة الامريكية.

تدريب المتدربين السعوديين الملتحقين بمركز الملك خالد لبحاث الحياة الفطرية منذ انشائه على
التقنيات المستخدمة في التشخيص بالمركز. وتشمل التقنيات المستخدمة في مجال الاحياء الدقيقة،
الطفيليات، الدم والكيمياء الحيوية والانسجة المريضة بالاضافة الى الكيمياء الحيوية والوراثة
الجزئية.

تقديم محاضرات في النواحي البيطرية وتشخيص الامراض باستخدام التقنيات المختلفة. الطلاب
اللائي يتم تدريبهم من دول الخليج وبعض الدول العربية الاخرى . يتم تنظيم البرامج التدريبية بواسطة
الهيئة الوطنية لحماية الحياة الفطرية آنذاك ومركز الملك خالد لبحاث الحياة الفطرية.

تدريب طلاب السنة النهائية بكلية الطب البيطري بجامعة الملك فيصل في ادارة الحيوانات الفطرية
وتشخيص الامراض وبعض التقنيات الاخرى. يتم انعقاد التدريب بمركز الملك خالد لبحاث الحياة
الفطرية.

تدريس الطلاب بقسم علم الحيوان (لمرحلتي البكالوريوس والدراسات العليا) العديد من المقررات لا
كثرت من 10 سنوات. وتشمل المقررات 326 حين، 420 حين، 212 حين ، 511 حين، 510 حين، 512 حين،
515 حين، 516 حين، 517 حين، 520 حين، 611 حين، 613 حين،

الإشراف على طلاب الدراسات العليا:

الإشراف على العديد من طلاب الدراسات العليا لمرحلي الماجستير والدكتوراة.
إضافة الى ال علم كمتحن خارجة وداخلي للعديد من طلاب الماجستير والدكتوراة بجامعة الملك سعود .

الجوائز والمنح الدراسية والمشاريع البحثية

منحة دراسية من الحكومة الالمانية DAAD وذلك لتنفيذ برنامج الماجستير بكلية العلوم البيطرية بجامعة الخرطوم عام 1983م.

جائزة كلية العلوم البيطرية كأفضل طالب في مادة التشريح .

جائزة بروفيسر سي في كانان بكلية العلوم البيطرية جامعة الخرطوم كأفضل طالب في مادة التشريح .

جائزة كلية العلوم البيطرية كأفضل طالب في مادة الطفيليات.

دعم من مدينة الملك عبد العزيز للعلوم والتقنية وذلك لدراسة العلاقات الوراثية في الغزلان العربية 1997-1998

دعم من مدينة الملك عبد العزيز للعلوم والتقنية 2008 الى 2010 وذلك لتنفيذ بحث يتعلق بانتاج فاكسين ضد التسمم الدموي بالمملكة العربية السعودية

دعم من جمعية لندن لعلوم الحيوان وذلك لتنفيذ مشروع يتعلق بالتكاثر في الغزال الجبل ي 2007م

دعم من مدينة الملك عبد العزيز للعلوم والتقنية في اطار مشروعات الخطة الوطنية للتقنية والابتكار وذلك ل اجراء دراسات حول بكتيريا التسمم المعوي بحيوانات المزرعة بالمملكة العربية السعودية.

دعم من مدينة الملك عبد العزيز للعلوم والتقنية في اطار مشروعات الخطة الوطنية للتقنية والابتكار وذلك لتنفيذ مشروع يتعلق بالمها العربي وكيفية تاقلمه للظروف البيئية بمحميتي محازة الصيد وعروق بني معارض بالربع الخالي.

تحكيم العديد من الابحاث العلمية في المجلات العالمية المتخصصة في المجال مثل

Journal of Parasitology, Parasitology Research, Folia Parasitologica, Proceedings of the Royal Society B, Acta Parasitologica, Saudi Journal of Biological Sciences, African Journal of Biotechnology, African Journal of Microbiology Research.

الإنتاج العلمي والمؤتمرات العلمية:

- 1- **Mohammed, O.B.**, E.M. Al-Shaebi, S.A. Omer, R.A. Abdel-Gaber (2024). Morphological and molecular studies on a nematode parasite, *Syphacia obvelata*, infecting laboratory mice (*Mus musculus*) in Saudi Arabia. *Arquivo Brasileiro de Medicina Veterinária e Zootecnia.*, 76 (1): 84-92.
- 2- Alrashedi, H., Omer, S., Almutairi, A., Al-Basher, G., & **Mohammed, O.** (2023). Determination of aflatoxin M1 (AFM1) in dairy sheep, goats and camel milk in Hail Region, Kingdom of Saudi Arabia and evaluation of different methods reducing its concentrations in milk. *Environmental Pollutants and Bioavailability*, 35(1), 2283056.
- 3- Alotaibi, B. H., Amor, N., Merella, P., **Mohammed, O. B.**, & Alagaili, A. N. (2022). Genetic diversity of wild rodents and detection of *Coxiella burnetii*, the causative agent of Q fever, in Saudi Arabia [Erratum: September 2022, v. 46 (3); p. 987].
- 4- Alotaibi, B. H., Amor, N., Merella, P., **Mohammed, O. B.**, & Alagaili, A. N. (2022). Genetic diversity of wild rodents and detection of *Coxiella burnetii*, the causative agent of Q fever, in Saudi Arabia. *Veterinary Research Communications*, 46(3), 769-780.
- 5- Albeshr, M., Alsharief, R., Al-Otibi, F., Al-Shaebi, E. M., **Mohammed, O. B.**, & Abdel-Gaber, R. (2023). Morphological, molecular, and histopathological studies on *Hadjelia truncata* from *Columba livia domestica* and its role as an environmental biological indicator. *Journal of Nematology*, 55(1).
- 6- Abdel-Gaber, R., Al-Shaebi, E. M., Yehia, R. S., Omer, S. A., El-khadragy, M. F., Al Quraishy, S., & **Mohammed, O. B.** (2023). Identification of sheep eimerian parasites, *Eimeria crandallis* and *Eimeria faurei*, employing microscopic and molecular tools. *Journal of Animal Physiology and Animal Nutrition*. 2023: 1–14
- 7- Gunner, Richard M., Rory P. Wilson, Mark D. Holton, Nigel C. Bennett, Abdulaziz N. Alagaili, Mads F. Bertelsen, **Osama B. Mohammed** et al. "Examination of head versus body heading may help clarify the extent to which animal movement pathways are structured by environmental cues?" *Movement Ecology* 11, no. 1 (2023): 71.
- 8- Abdel-Gaber, R., Quraishy, S. A., Al-Hoshani, N., Al-Shaebi, E. M., **Mohammed, O. B.**, Marey, A., & Dkhil, M. (2023). Observations of the coccidian infection, *Eimeria labbeana*-like, in experimentally infected domestic pigeons (*Columba livia domestica*) associated with pathological effects. *Arquivo Brasileiro de Medicina Veterinária e Zootecnia*, 75, 1127-1135.
- 9- Abdel-Gaber, R., Al Quraishy, S., Al-Hoshani, N., Al-Otaibi, T., Omer, S. A., Alajmi, F., ... & **Mohammed, O. B.** (2023). Morphological and molecular phylogenetic analyses of the apicomplexan parasites, *Eimeria media* and *Eimeria stiedai*, infecting the domestic rabbits, *Oryctolagus cuniculus*. *Journal of King Saud University-Science*, 35(9), 102935.
- 10- Al Quraishy, S., Al-Shaebi, E. M., Hawsah, M. A., Al-Otaibi, T., Al-Megrin, W. A., El-khadragy, M. F., ... & **Mohammed, O. B.** (2022). Morphological and molecular approaches for identification of murine *Eimeria papillata* infection. *Journal of King Saud University-Science*, 34(6), 102164.
- 11- Almahallawi, R., Omer, S.A., Hazazi, H., Amor, N., Mohammed, H.O. and **Mohammed, O.B.**, (2022). Occurrence of anaplasmosis among sheep (*Ovis aries*) and goats (*Capra*

hircus) in madina and tabuk, saudi arabia. *Journal of King Saud University-Science*, p.101929.

- 12- Alotaibi, B.H., Amor, N., Merella, P., **Mohammed, O.B.** and Alagaili, A.N., (2022). Genetic diversity of wild rodents and detection of *Coxiella burnetii*, the causative agent of Q fever, in Saudi Arabia. *Veterinary research communications*, pp.1-12.
- 13- Prabu, D., Kumar, P.S., Rathi, B.S., Sathish, S., Anand, K.V., Kumar, J.A., **Mohammed, O.B.** and Silambarasan, P., (2022). Feasibility of magnetic nano adsorbent impregnated with activated carbon from animal bone waste: Application for the chromium (VI) removal. *Environmental Research*, 203, p.111813.
- 14- Omer, S.A., Alsuwaid, D.F. and **Mohammed, O.B.**, (2021). Molecular characterization of ticks and tick-borne piroplasms from cattle and camel in Hofuf, eastern Saudi Arabia. *Saudi Journal of Biological Sciences*, 28(3), pp.2023-2028.
- 15- Hussein, A.M., Taha, Z.B., Malik, A.G., Hazim, D.K., Ahmed, R.J., **Mohammed, O.B.**, Rasul, K.A., Bazaz, S. and Rashid, D., (2021). Totally antibiotic resistance *Pseudomonas aeruginosa* isolated from patients with blood stream infection. *Applied Nanoscience*, pp.1-8.
- 16- Mukhtar, S., Xiaoxiong, Z., Qamer, S., Saad, M., Mubarik, M.S., Mahmoud, A.H. and **Mohammed, O.B.**, (2021). Hepatoprotective activity of silymarin encapsulation against hepatic damage in albino rats. *Saudi Journal of Biological Sciences*, 28(1), pp.717-723.
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- 18- Qamer, S., Al-Abadi, A.A., Sajid, M., Asad, F., Khan, M.F., Khan, N.A., Sthanadar, A.A., Akhtar, M.N., Mahmoud, A.H. and **Mohammed, O.B.**, (2021). Genetic analysis of honey bee, *Apis dorsata* populations using random amplified polymorphic DNA (RAPD) markers. *Journal of King Saud University-Science*, 33(1), p.101218.
- 19- Kumar, K.V., Subha, T.J., Ahila, K.G., Ravindran, B., Chang, S.W., Mahmoud, A.H., **Mohammed, O.B.** and Rathi, M.A., (2021). Spectral characterization of hydroxyapatite extracted from Black Sumatra and Fighting cock bone samples: A comparative analysis. *Saudi Journal of Biological Sciences*, 28(1), pp.840-846.
- 20- Pilot, M., Moura, A.E., Okhlopkov, I.M., Mamaev, N.V., Manaseryan, N.H., Hayrapetyan, V., Kopaliani, N., Tsingarska, E., Alagaili, A.N., **Mohammed, O.B.** and Ostrander, E.A., (2021). Human-modified canids in human-modified landscapes: The evolutionary consequences of hybridization for grey wolves and free-ranging domestic dogs. *Evolutionary applications*, 14(10), pp.2433-2456.
- 21- Hart, D.W., Alharbi, Y.S., Bennett, N.C., Amor, N.M., **Mohammed, O.B.** and Alagaili, A.N., (2021). Seasonality and climatic control of reproduction in wild-caught female Lesser Egyptian jerboa (*Jaculus jaculus*) from central Saudi Arabia. *Journal of Arid Environments*, 195, p.104631.
- 22- Manger, P.R., Patzke, N., Spocter, M.A., Bhagwandin, A., Karlsson, K., Bertelsen, M.F., Alagaili, A.N., Bennett, N.C., **Mohammed, O.B.**, Herculano-Houzel, S. and Hof, P.R., (2021). Amplification of potential thermogenetic mechanisms in cetacean brains compared to artiodactyl brains. *Scientific Reports*, 11(1), pp.1-15.

- 23- Jain, R.P., Jayaseelan, B.F., Alphonse, C.R.W., Mahmoud, A.H., **Mohammed, O.B.**, Almunqedhi, B.M.A. and Pushpabai, R.R., (2021). Mass spectrometric identification and denovo sequencing of novel conotoxins from vermivorous cone snail (*Conus inscriptus*), and preliminary screening of its venom for biological activities in vitro and in vivo. *Saudi journal of biological sciences*, 28(3), pp.1582-1595.
- 24- Husain, A., Iram, F., Siddiqui, A.A., Almutairi, S.M., **Mohammed, O.B.**, Khan, S.A., Azmi, S.N.H. and Rahman, N., (2021). Identification of metabolic pathways involved in the biotransformation of eslicarbazepine acetate using UPLC-MS/MS, human microsomal enzymes and in silico studies. *Journal of King Saud University-Science*, 33(2), p.101281.
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- 27- **Mohammed, O. B.**, Duszynski, D. W., Amor, N., & Alagaili, A. N. (2020). A novel coccidian (Apicomplexa: Eimeriidae) from *Scotophilus leucogaster* (Chiroptera: Vespertilionidae) in southern Saudi Arabia. *Parasitology Research*, 119(11): 3845-3852. doi: 10.1007/s00436-020-06913-y.
- 28- **Mohammed, O.B.**, Amor, N., Omer, S.A. and Alagaili, A.N. (2020). Seroprevalence of *Toxoplasma gondii* and *Neospora caninum* in Dromedary camels (*Camelus dromedarius*) from Saudi Arabia. *Revista Brasileira De Parasitologia Veterinária*, 29(1):e019119. doi: 10.1590/S1984-296120200008. eCollection 2020.
- 29- **Mohammed, O.B.**, Aljedaie, M.M., Alyousif, M.S. and Amor, N., 2020. *Eimeria tamimi* sp. n.(Apicomplexa: Eimeriidae) from the rock hyrax (*Procavia capensis jayakari*) in central Saudi Arabia. *Folia Parasitologica*, 67: p.001.
- 30- Omer, S. A., Al-Olayan, E. M., Babiker, S. E. H., Aljulaifi, M. Z., Alagaili, A. N., & **Mohammed, O. B.** (2020). Genotyping of *Clostridium perfringens* Isolates from Domestic Livestock in Saudi Arabia. *BioMed Research International*, doi.org/10.1155/2020/9035341.
- 31- Omer, S. A., Babiker, S. E. H., Aljulaifi, M. Z., Al-Olayan, E. M., Alagaili, A. N., & Mohammed, O. B. (2020). Epidemiology of enterotoxaemia in livestock in the Kingdom of Saudi Arabia. *Journal of King Saud University-Science*, 32: 2662-2668.
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- 33- **Mohammed, O. B.**, Omar, Omar, I., Elamin, Elgailani A., Hamid O. Bushara. , Sawsan A. Omer and Abdulaziz N. Alagaili. (2019). Seroprevalence of *Toxoplasma gondii* in household and stray cats of Riyadh, Saudi Arabia. *Veterinaria Italiana*, 55: 241-245.
- 34- Aylward, M., Beselaar, L. C., Alagaili, A. N., Amor, N. M., **Mohammed, O. B.**, and Kotzé, S. H. (2019). A comparative morphological and histological study of the gastrointestinal tract

- of four insectivorous bat species: *Asellia tridens*, *Chaerephon pumilus*, *Nycteris thebaica*, *Rhinopoma hardwickii*. **Journal of Morphology**, **280**: 1106-1117.
- 35- Alagaili, A. N., Briese, T., Amor, N. M., **Mohammed, O. B.**, and Lipkin, W. I. (2019). Waterpipe smoking as a public health risk: Potential risk for transmission of MERS CoV. **Saudi Journal of Biological Sciences**, **26**(5): 938-941.
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- 41- Kleynhans, D. J., [Sarli, J.](#), [Hatvoka, L. M.](#), [Alagaili, A. N.](#), [Bennett, N. C.](#), **Mohammed, O. B.**, [Bastos, A. D. S.](#) (2018). Molecular assessment of *Bartonella* in *Gerbillus nanus* from Saudi Arabia reveals high levels of prevalence, diversity and co-infection. **Infection Genetics and Evolution**, **65**: 244-250.
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- 43- Amor, N., Farjallah, S., **Mohammed, O.B.**, Alagaili, A. and Bahri, L., (2018). Molecular characterization of the nematode *Heterakis gallinarum* (Ascaridida: Heterakidae)

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