

Osama Badri Mohammed

Department of Zoology,
College of Science, King Saud University,
P.O.Box 2455, Riyadh 11451,
Kingdom of Saudi Arabia.
Email: obmkkwrc@yahoo.co.uk or omohammed@ksu.edu.sa
Cell +966 50 4140713
Tel +966 1 4675756
Fax +966 1 4678514

URL: <http://www.researcherid.com/rid/C-3226-2011>
<https://orcid.org/0000-0001-5457-2555>
<https://scholar.google.com/citations?user=V5Q2r-0AAAAJ&hl=en>
<https://www.scopus.com/authid/detail.uri?authorId=7005092204>
Scopus ID: 7005092204

ACADEMIC QUALIFICATIONS

PhD 2000, Molecular Parasitology, College of Science, Kingston University, United Kingdom.

MVSc 1987, Veterinary Science, Parasitology, Faculty of Veterinary Science, University of Khartoum, Sudan.

BVSc 1983, Veterinary Science, Faculty of Veterinary Science, University of Khartoum, Sudan.

RESEARCH INTERESTS

Interested in conducting research in the field of veterinary laboratory medicine especially with subjects dealing with disease causing agents. Implementation of new methods involving DNA technology in diagnosing disease agents. Interested in parasites of domestic animals, humans and wildlife species in the Arabian Peninsula.

PROFESSIONAL EXPERIENCE

- Professor, Department of Zoology, College of Science, King Saud University, **2021- till present**
- Associate Professor, Department of Zoology, College of Science, King Saud University, **2015- 2021**
- Assistant Professor, Department of Zoology, College of Science, King Saud University, **2010 – 2015.**
- Head, Wildlife Health and Genetics, King Khalid Wildlife Research Centre and the Zoological Society of London, **2004 – 2010.**
- Senior Veterinary Research Scientist at the King Khalid Wildlife Research Centre and the Zoological Society of London **1992 - 2004.**

- Postgraduate student, College of Science, Kingston University, **1996-2000**.
- Veterinary Officer at the King Khalid Wildlife Research Centre in February **1987 - 1992**.
- Teaching Veterinary Parasitology to the 4th year's students at the Faculty of Veterinary Science, University of Khartoum, **1983 - 1987**.
- Post-graduate student, Department of Veterinary Parasitology, Faculty of Veterinary Science, University of Khartoum, **1983 - 1986**.

ACADEMIC ACCREDITATION

Coordinator of the Evaluation and Academic Accreditation of the Zoology Program since 2019. Duties includes: writing up of the program annual report. Collection and analysis of the data generated from the course reports. Revise and coordinate with specialized groups at the department regarding course specifications and study plans. Preparing the Key Performance Indicators (KPIs) for the program. Supervising, writing and revising the self-study report (SSR) for the program.

Member of the Advisory Congress of the Department of Zoology.

Member of the steering committee of the program.

PROFESSIONAL DEVELOPMENT

- Six-month training course at the Conservation Genetics Group of the Institute of Zoology, Zoological Society of London, on the basics of Molecular Biology and the use of molecular techniques in Conservation Genetics.
- Training on the use of the electron microscope to study the ultrastructure of protozoa at Kingston University, United Kingdom, 1996-2000.
- Participated in planning and implementation of TB eradication program in the different species of gazelles held at KKWRC.
- Drew plan for eradication and control of gastrointestinal parasites infecting gazelles at KKWRC.
- In 2003 visited Professor Milton M. McAllister at University of Illinois, Department of Veterinary Pathobiology, 2001 South Lincoln Avenue, Urbana, IL, USA 61802 for two weeks as a visiting Scientist.

TEACHING AND TRAINING EXPERIENCE

- Training of Saudi nationals who joined King Khalid Wildlife Research Centre Laboratories since its inception. on different laboratory diagnostic techniques including methods used in microbiology, parasitology, haematology, histopathology, biochemistry and molecular genetics.
- Giving lectures and training on aspects of veterinary care and diagnoses of animal diseases using different techniques. Students trained were from the Gulf Cooperation Council (GCC) and other Arab countries. The training program is organised by the Training Centre of the National Commission for Wildlife Conservation and Development and the King Khalid Wildlife Research Centre.
- Training final year students from the Faculty of Veterinary Medicine, King Faisal University both in English and Arabic. The training program includes lectures on

different aspects of animal management and disease diagnosis and practical applications of different laboratory techniques in detection of disease agents. The training used to be held at KKWRC.

- Teaching different subjects for under and post graduate students at the Department of Zoology, College of Science, King Saud University. Subjects included: General Parasitology (ZOO 212), Parasite Immunology (ZOO 412), Comparative Vertebrate Anatomy (ZOO 440), Mammalogy (ZOO 326), Chordata (ZOO 222), Advanced Parasitology (ZOO 510), Parasite Ecology (ZOO 515), Parasite Physiology (ZOO 512), Acarology (ZOO 516), Culturing of Parasites (ZOO 613), Applied Parasitology (ZOO 611).
- Training the Department of Zoology graduates on different field methods related to catching and identifying mammals. Such courses are organised as summer courses and students will be taken to the field and taught the different methods of catching and identifying mammalian species encountered.
- Training Saudi nationals on the use of new techniques in the veterinary diagnostic methods including the use of polymerase chain reaction (PCR) and DNA sequencing in identifying different disease agents including, bacteria, viruses and parasites.
- Teaching Veterinary Parasitology to the 4th year's students at the Faculty of Veterinary Science, University of Khartoum, 1983 - 1987.
- Giving lectures to postgraduate students at the Zoology Department, College of Science, King Saud University on the use of PCR that is complementary to the parasitology courses taught to the students.

TEACHING AT KING SAUD UNIVERSITY

Teaching at the Department of Zoology since 2010.

Teaching the following subjects at the undergraduate level at the Department of Zoology, College of Science King Saud University.

Comparative Vertebrates Anatomy (ZOO 420), Mammalogy (ZOO 326), Principles of Zoology (ZOO 103), Parasitology (ZOO 212).

Teaching also the following subjects at the postgraduate levels at the same Department:

Parasite Ecology (ZOO 515), Parasite Culture (ZOO 613), Parasite Physiology (ZOO 512), Zoonotic Parasites (ZOO 520), Advanced Parasitology and Entomology (ZOO 511 and ZOO 611).

VETERINARY LABORATORY EXPERIENCE

Worked at the King Khalid Wildlife Research Centre's veterinary diagnostic and research laboratories since 1987. The laboratories are equipped with almost modern machines used in different fields of veterinary diagnostics. Working and training Saudi staff in the following disciplines: methods used in microbiology, parasitology, haematology, histopathology, biochemistry, cell culture, and molecular biology including PCR and DNA sequencing using both manual and automated methods. In addition to conducting post mortem examination of dead animals and determine the possible causes of death.

SUPERVISION OF POSTGRADUATE STUDENTS RESEARCH THESES EXAMINATION

- Al Goraish, S. A. 1998. King Saud University, Department of Zoology, College of Science. Title of the **MSc Thesis**: "Studies on the parasites of foxes in selected regions of Saudi Arabia".
- Al Saggaf, M. S. 2002. King Saud University, Department of Botany and Microbiology, College of Science. Title of the **MSc Thesis**: "Study and identification of some bacteria and fungi isolated from idmi gazelles (*Gazella gazella*) and reem gazelles (*Gazella subgutturosa marica*)".
- Al Khalifah, I. M. S. 2009. King Saud University, College of Science, Biodiversity Program. Title of the **MSc Thesis**: "Prevalence of Q-Fever agent in Idmi (*Gazella gazella*) and Reem (*Gazella subgutturosa marica*) gazelles at King Khalid Wildlife Research Centre in Thumamah.

THESES EXAMINATION

Internal examiner for MSC and PhD theses:

Department of Zoology, College of Science, King Saud University

External Examiner for MSC and PhD Theses

Department of Animals Production, College of Food and Agricultural Sciences.

Department of Parasitology, Faculty of Veterinary Medicine, University of Khartoum, Sudan.

Undergraduate and Postgraduate external examiner

Acts as an external examiner for the final year as well as M.V.Sc and PhD students at the Faculty of Veterinary Medicine, University of Khartoum, Sudan

SCHOLARSHIPS AND AWARDS

- The German fellowship office (DAAD) scholarship to conduct my MVSc research on the potential intermediate hosts of chicken cestodes in Sudan (1983).
- The Faculty of Veterinary Science prize for the best student in veterinary anatomy (1979).
- Professor C. V. Kanan prize for the best student in veterinary anatomy (1979).
- A small research grant from KACST (1997-1998) "Phylogenetics of Arabian gazelles".
- A research Grant from KACST (2008-2010) "Production of a vaccine against bacterial haemorrhagic septicemia of cattle and sheep in the Kingdom of Saudi Arabia".
- Field Conservation Fund Award 2007 to conduct a research project at the Institute of Zoology, Zoological Society of London, dealing with reproductive biology in the mountain gazelle (*Gazella gazella*).

SUPPORTED RESEARCH PROJECTS

- King Abdulaziz for Science and Technology (KACST) BIO-1588 S. Omer (PI)
10/13

" Studies on *Clostridium perfringens* in livestock in the Kingdom of Saudi Arabia"

This project is to investigate the prevalence of *Clostridium perfringens* in Saudi domestic livestock. Furthermore, the genetic identity of the organisms isolated will be studied and compared with other international strains of the organism.

Role: Key Personnel and co-investigator: lead field work for sample collection and perform genetic investigations on the isolated organisms.

- King Abdulaziz for Science and Technology (KACST) A. Alagaili (PI)
10/13

“Living on the edge: using advanced technology to unravel how Arabian Oryx (*Oryx leucoryx*) survive in the extreme deserts of Rub al-Khali (Empty Quarter) and Mahazat as-Sayd, Saudi Arabia”

COMPLETED RESEARCH SUPPORT

- ZSL Field Conservation Fund Mohammed (PI) 2007

The project dealt with the reproductive biology in the mountain gazelle (*Gazella gazella*). Resulted in a publication: **Osama B. Mohammed**, Daphne I. Green, William V. Holt C. (2011). Fecal progesterone metabolites and ovarian activity in cycling and pregnant Mountain gazelles (*Gazella gazella*). *Theriogenology* 75: 542-548.

- King Abdulaziz City for Science and Technology (KACST) Rob Hammond (PI)
1997-1998

“Phylogenetics of Arabian gazelles”. Resulted in a publication: Hammond, R. L., Macasero, W., Flores, B., **Mohammed, O. B.**, Wachter, T. and Bruford, M. W. (2001). Phylogenetic re-analysis of the Saudi gazelle, *Gazella saudiya* and its implications for conservation. *Conservation Biology*, 15: 1123-1133.

- King Abdulaziz City for Science and Technology (KACST) AT-92-2 Salah Babikir (PI)
2008-2010

“Production of a vaccine against bacterial haemorrhagic septicaemia of cattle and sheep in the Kingdom of Saudi Arabia”.

- King Abdulaziz for Science and Technology (KACST) AT-30-296 M. Hussein (PI)
10/11

“Q fever in Camels, Domestic Ruminants and Gazelles in Riyadh Area, Saudi Arabia”. This project is to determine the prevalence of Q fever in domestic livestock and wildlife in Saudi Arabia.

Role: Key Personnel and co-investigator: Perform serological testing and molecular characterization of the *Coxiella burnetti* in clinical samples.

PUBLICATIONS

- 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.
 - 17- 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.
 - 18- Qamer, S., Al-Abbadi, 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., Kopalani, 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.
 - 25- Subramaniyan, S., Pathalam, G., Antony, S., Michael, G.P., Samuel, R., Kedike, B., Sekar, A., Boovaragamurthy, A., Osamu, S., Mahmoud, A.H. and **Mohammed, O.B.**, (2021). Mosquitocidal effect of monoterpene ester and its acetyl derivative from *Blumea mollis* (D. Don) Merr against *Culex quinquefasciatus* (Diptera: Culicidae) and their insilico studies. *Experimental Parasitology*, 223, p.108076.
 - 26- Haq, S.M., Calixto, E.S., Yaqoob, U., Ahmed, R., Mahmoud, A.H., Bussmann, R.W., **Mohammed, O.B.**, Ahmad, K. and Abbasi, A.M., (2020). Traditional Usage of Wild Fauna among the Local Inhabitants of Ladakh, Trans-Himalayan Region. *Animals*, 10(12):, p.2317.
 - 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/S1984-29612020008. 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.
 - 32- Amor, N., Farjallah, S., Merella, P., Alagaili, A.N. and **Mohammed, O.B.** (2020). Multilocus approach reveals discordant molecular markers and corridors for gene flow between North African populations of *Fasciola hepatica*. *Veterinary Parasitology*, 278, p.109035.
 - 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.
- 36- Małgorzata Pilot, Andre E. Moura, Innokentiy M. Okhlopkov, Nikolay V. Mamaev, Abdulaziz N. Alagaili, **Osama B. Mohammed**, Eduard G. Yavruyan, Nina, H. Manaseryan, Vahram Hayrapetyan, Natia Kopaliani, Elena Tsingarska, Miha Krofel, Pontus Skoglund and Wiesław Bogdanowicz. (2019). Global Phylogeographic and Admixture Patterns in Grey Wolves and Genetic Legacy of An Ancient Siberian Lineage. **Scientific Reports**, **9**: Article number 19328.
- 37- Coimbra, Joao Paulo; Alagaili, Abdulaziz N.; Bennett, Nigel C.; **Mohammed, O. B.** and Manger P. R. (2019). Unusual topographic specializations of retinal ganglion cell density and spatial resolution in a cliff-dwelling artiodactyl, the Nubian ibex (*Capra nubiana*). **Journal of Comparative Neurology**, **527** (17): doi.org/10.1002/cne.24709
- 38- Hashem, A.M., Al-amri, S.S., Al-subhi, T.L., Siddiq, L.A., Hassan, A.M., Alawi, M.M., Alhabbab, R.Y., Hindawi, S.I., **Mohammed, O.B.**, Amor, N.S. and Alagaili, A.N., (2019). Development and validation of different indirect ELISAs for MERS-CoV serological testing. **Journal of Immunological Methods**, **466**: 41-46.
- 39- Hart, D. W., Alghamdi, A. A., Bennett, N. C., Mohammed, O. B., Amor, N. M., and Alagaili, A. N. (2019). The pattern of reproduction in the Libyan jird (*Meriones libycus*; Rodentia: Muridae) from central Saudi Arabia in the absence of rainfall. **Canadian Journal of Zoology**, **97**(3): 210-219.
- 40- Omar, O.I., Elamin, E.A., Omer, S.A., Alagaili, A.N. and **Mohammed, O.B.** (2018). Seroprevalence of *Dirofilaria immitis* in dogs and cats in Riyadh City, Saudi Arabia. **Tropical Biomedicine**, **35**: 531-540.
- 41- Kleynhans, D. J., Sarli, J., Hatyoka, 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.
- 42- Hart, D. W., Alghamdi, A. A., Bennett, N. C., **Mohammed, O. B.**, Amor, N. M. and Alagaili, A. N. (2018). The pattern of reproduction in the Libyan jird, *Meriones libycus*, (Rodentia: Muridae), from central Saudi Arabia in the absence of rainfall. **Canadian Journal of Zoology**, <https://doi.org/10.1139/cjz-2017-0317>
- 43- Amor, N., Farjallah, S., **Mohammed, O.B.**, Alagaili, A. and Bahri, L., (2018). Molecular characterization of the nematode *Heterakis gallinarum* (Ascaridida: Heterakidae) infecting domestic chickens (*Gallus gallus domesticus*) in Tunisia. **Turkish Journal of Veterinary and Animal Sciences**, **42**(5): 388-394.

- 44- Mahmoud, A.H., Abou-Tarboush, F., Rady, A., Amor, N., Alanazi, K. and **Mohammed, O.B.**, (2018). Genetic characterization of Awassi (Naeimi) sheep in Saudi Arabia based on microsatellite markers. *Research Journal of Biotechnology*, **13(3)**: 1-7.
- 45- Davimes, J.G., Alagaili, A.N., Bhagwandin, A., Bertelsen, M.F., **Mohammed, O.B.**, Bennett, N.C., Manger, P.R. and Gravett, N. (2018). Seasonal variations in sleep of free-ranging Arabian oryx (*Oryx leucoryx*) under natural hyperarid conditions. *Sleep*, **41(5)**: p.zsy038.
- 46- Sawsan A. Omer., Ashwag A. Alzuraiq and **Osama B. Mohammed** (2017). Prevalence and molecular detection of *Sarcocystis* spp. infection in the dromedary camel (*Camelus dromedarius*) in Riyadh city, Saudi Arabia. *Tropical Biomedicine*, **28**: 4962-4965.
- 47- Alagaili, A.N., Bennett, N.C., **Mohammed, O.B.** and Hart, D.W. (2017). The reproductive biology of the Ethiopian hedgehog, *Paraechinus aethiopicus*, from central Saudi Arabia: The role of rainfall and temperature. *Journal of Arid Environments*, **145**: 1-9.
- 48- Davimes, J.G., Alagaili, A.N., Bertelsen, M.F., **Mohammed, O.B.**, Hemingway, J., Bennett, N.C., Manger, P.R. and Gravett, N., (2017). Temporal niche switching in Arabian oryx (*Oryx leucoryx*): Seasonal plasticity of 24 h activity patterns in a large desert mammal. *Physiology & behavior*, **177**: 148-154.
- 49- Alagaili, A. N., N. C. Bennett, **O. B. Mohammed**, I. S. Zalmout, and J. G. Boyles. (2017). Body temperature patterns of a small endotherm in an extreme desert environment. *Journal of Arid Environments* **137**: 16-20.
- 50- Streicher, S., Lutermann, H., Bennett, N.C., Bertelsen, M.F., **Mohammed, O.B.**, Manger, P.R., Scantlebury, M., Ismael, K. and Alagaili, A.N., (2017). Living on the edge: Daily, seasonal and annual body temperature patterns of Arabian oryx in Saudi Arabia. *PloS one*, **12(8)**: p.e0180269.
- 51- Joshua G. Davimes, Abdulaziz N. Alagaili, Nigel C. Bennett, **Osama B. Mohammed**, Adhil Bhagwandin, Paul R. Manger and Nadine Gravett. (2017). Neurochemical organization and morphology of the sleep related nuclei in the brain of the Arabian oryx, *Oryx leucoryx*. *Journal of Chemical Neuroanatomy*, **81**: 53 – 70.
- 52- A.N. Alagaili, N.C. Bennett, **O.B. Mohammed**, I.S. Zalmout, J.G. Boyles. (2017). Body temperature patterns of a small endotherm in an extreme desert environment. *Journal of Arid Environments*, **137**: 16 – 20.
- 53- Justin G. Boyles, Nigel C. Bennett, **Osama B. Mohammed**, and Abdulaziz N. Alagaili. (2017). Torpor Patterns in Desert Hedgehogs (*Paraechinus aethiopicus*) Represent Another New Point along a Thermoregulatory Continuum. *Physiological and Biochemical Zoology*, **90**: 445 - 452.
- 54- Mads F Bertelsen, **Osama Mohammed**, Tobias Wang, Paul R Manger, David Michael Scantlebury, Khairi Ismael, Nigel C Bennett and Abdulaziz Alagaili. (2017). The hairy lizard: heterothermia affects anaesthetic requirements in the Arabian oryx (*Oryx leucoryx*). *Veterinary Anaesthesia and Analgesia*, **44**: 899-904.

- 55- Amin O.M., Heckmann R.A., **Mohammed O.B.**, Evans R.P. 2016. Morphological and molecular descriptions of *Moniliformis saudi* n. sp. (Acanthocephala: oniliformidae) from the desert hedgehog, *Paraechinus aethiopicus* (Ehrenberg) in Saudi Arabia, with a key to species and notes on histopathology. **Folia Parasitologica**, 63: 014 doi: 10.14411/fp.2016.014.
- 56- Richard Chawana, Nina Patzke, Abdulaziz N. Alagaili, Nigel C. Bennett, **Osama B. Mohammed**, Consolate Kaswera-Kyamakya, Emmanuel Gilissen, Amadi O. Ihunwo, John D. Pettigrew, Paul R. Manger. (2016). The Distribution of Ki-67 and Doublecortin Immunopositive Cells in the Brains of Three Microchiropteran Species, *Hipposideros fuliginosus*, *Triaenops persicus*, and *Asellia tridens*. The Anatomical Record, 299: 1845 – 1860. DOI: 10.1002/ar.23460.
- 57- Daniella L Pereira, Jacklynn Walters, Nigel C Bennett, Abdulaziz N Alagaili, **Osama B Mohammed**, Sanet H Kotzé. (2016). The comparative gastrointestinal morphology of *Jaculus jaculus* (Rodentia) and *Paraechinus aethiopicus* (Erinaceomorpha). **Journal of Morphology**, 277: 671-679.
- 58- Olga Johnson, Sumine Marais, Jacklynn Walters, Elizabeth L van der Merwe, Abdulaziz N Alagaili, **Osama B Mohammed**, Nigel C Bennett, Sanet H Kotzé. (2016). The distribution of mucous secreting cells in the gastrointestinal tracts of three small rodents from Saudi Arabia: *Acomys dimidiatus*, *Meriones rex* and *Meriones libycus*. **Acta Histochemica**, 118: 118-128.
- 59- Joshua G Davimes, Abdulaziz N Alagaili, Nadine Gravett, Mads F Bertelsen, **Osama B Mohammed**, Khairy Ismail, Nigel C Bennett, Paul R Manger. (2016). Arabian Oryx (*Oryx leucoryx*) Respond to Increased Ambient Temperatures with a Seasonal Shift in the Timing of Their Daily Inactivity Patterns. *Journal of Biological Rhythms*, Epub 2016 May 6.
- 60- Małgorzata Pilot, Tadeusz Malewski, Andre E Moura, Tomasz Grzybowski, Kamil Oleński, Stanisław Kamiński, Fernanda Ruiz Fadel, Abdulaziz N Alagaili, **Osama B Mohammed**, Wiesław Bogdanowicz. (2016). Diversifying Selection Between Pure-Breed and Free-Breeding Dogs Inferred from Genome-Wide SNP Analysis. *G3 (Bethesda)*. Epub 2016 May 27.
- 61- Tanya Calvey, Nina Patzke, Nigel C Bennett, Kaswera-Kyamakya onsolate, Emmanuel Gilissen, Abdulaziz N Alagaili, **Osama B Mohammed**, John D Pettigrew, Paul R Manger. (2016). Nuclear organisation of some immunohistochemically identifiable neural systems in five species of insectivore-*Crocidura cyanea*, *Crocidura olivieri*, *Sylvisorex ollula*, *Paraechinus aethiopicus* and *Atelerix frontalis*. *Journal of Chemical Neuroanatomy*, 72: 34-52.
- 62- Mahmoud, A. H.; Farah, M. A.; Abou-tarboush, F. M.; Rady, A. M., Alanzi, K. M. and **Mohammed O. B.** (2016). Molecular Characterization of Ghrelin gene in sheep of Saudi Arabia. *Research Journal of Biotechnology*, 11: 39-44.
- 63- Sarli, J., Lutermann, H., Alagaili, A. N., **Mohammed O. B.**, and Bennett N. C. (2016). Seasonal reproduction in the Arabian spiny mouse, *Acomys dimidiatus* (Rodentia:

- Muridae) from Saudi Arabia: The role of rainfall and temperature. *Journal of Arid Environments*, 124: 352-359.
- 64- Malgorzata Pilot · Tadeusz Malewski · Andre E. Moura · Tomasz Grzybowski · Kamil Oleński · Anna Ruś · Stanisław Kamiński · Fernanda Ruiz Fadel · Daniel S. Mills · Abdulaziz N. Alagaili · **Osama B. Mohammed** · Grzegorz Kłys · Innokentiy M. Okhlopkov · Ewa Suchecka · Wiesław Bogdanowicz. (2015). On the origin of mongrels: evolutionary history of free-breeding dogs in Eurasia. **Proceedings of The Royal Society B-Biological Sciences**, 282, 1820 Article Number: 20152189.
- 65- Richard Chawana, Nina Patzke, Abdulaziz N. Alagaili, Nigel C. Bennett, **Osama B. Mohammed**, Consolate Kaswera-Kyamakya, Emmanuel Gilissen, Amadi O. Ihunwo, John D. Pettigrew, Paul R. Manger. (2016). The Distribution of Ki-67 and Doublecortin Immunopositive Cells in the Brains of Three Microchiropteran Species, *Hipposideros fuliginosus*, *Triaenops persicus*, and *Asellia tridens*. **The Anatomical Record**, DOI: 10.1002/ar.23460.
- 66- Bastos, Armanda D. S.; **Mohammed, Osama B.**; Bennett, Nigel C.; et al. (2015). Molecular detection of novel Anaplasmataceae closely related to *Anaplasma platys* and *Ehrlichia canis* in the dromedary camel (*Camelus dromedarius*). **Veterinary Microbiology**, 179: 310-314
- 67- Chawana, R.; Alagaili, A.; Patzke, N.; Kaswera, C., Gilissen E., **Mohammed, O. B.**, Bennett, N. C., Ihunwo, A. O., Manger, P. R. (2015). Microbats have adult neurogenesis which appears to vary with the different foraging ecologies and evolutionary history. 25th Biennial Meeting of the International-Society-for-Neurochemistry Jointly with the 13th Meeting of the Asian-Pacific-Society-for-Neurochemistry in Conjunction with the 35th Meeting of the Australasian-Neuroscience-Society Location: Cairns, AUSTRALIA Date: AUG 23-27, 2015. Sponsor(s): Int Soc Neurochemistry; Asian Pacific Soc Neurochemistry; Australasian Neuroscience Soc *Journal of Neurochemistry* Volume: 134, Special Issue: SI Supplement: 1 Pages 251-252. Meeting Abstract: WTH02-03 Published: AUG 2015.
- 68- Małgorzata Pilot, Tadeusz Malewski, Andre E. Moura, Tomasz Grzybowski, Kamil Oleński, Anna Ruś, Stanisław Kamiński, Fernanda Ruiz Fadel, Daniel S. Mills, Abdulaziz N. Alagaili, **Osama B. Mohammed**, Grzegorz Kłys, Innokentiy M. Okhlopkov, Ewa Suchecka and Wiesław Bogdanowicz. (2015). On the origin of mongrels: evolutionary history of free-breeding dogs in Eurasia. *Proc. R. Soc. B* 282: 20152189.
- 69- Joshua Sarli, Heike Lutermann, Abdulaziz N. Alagaili, **Osama B. Mohammed**, Nigel C. Bennett. (2015). Reproductive patterns in the Baluchistan gerbil, *Gerbillus nanus* (Rodentia: Muridae), from western Saudi Arabia: The role of rainfall and temperature. *Journal of Arid Environments*, **113**: 87-94.
- 70- **Osama B. Mohammed**, Abdulrahman M. Jarelnabi, Riyadh S. Al-jumaah, Mohammed A. Alshaikh, Amel O. Bakheit, Sawsan A. Omer, Abdulaziz N. Alagaili and Mansour F. Hussein. (2014). *Coxiella burnetii*, the causative agent of Q fever in Saudi Arabia:

molecular detection from camel and other domestic livestock. *Asian Pacific Journal of Tropical Medicine*, **7**: 715-719.

- 71-** A.N. Alagaili, **O.B. Mohammed**, N.C. Bennett, and M.K. Oosthuizen. (2014). Now you see me, now you don't: The locomotory activity rhythm of the Asian garden dormouse (*Eliomys melanurus*) from Saudi Arabia. *Mammalian Biology*, **79**: 195-201.
- 72-** R. Chawana, A. Alagaili, N. Patzke, M. A. Spocter, **O. B. Mohammed**, C. Kaswera, E. Gilissen, N. C. Bennett, A. O. Ihunwo and P. R. Manger. (2014). Microbats appear to have adult hippocampal neurogenesis, but post-capture stress causes a rapid decline in the number of neurons expressing doublecortin. *Neuroscience*, **277**: 724–733.
- 73-** Alagaili A.N., Briese T., Mishra N., Kapoor, V., Sameroff, S.C., de Wit, E., Munster V. J., Hedsley, L. E., Zalmout, I. S., Kapoor, A., Epistein, J. H., Karesh, W. B., Daszak, P., **Mohammed, O. B.**, Lipkin, W. I. (2014). Middle East Respiratory Syndrome coronavirus infection in dromedary camels in Saudi Arabia. *Mbio*, **5**: e00884-14
- 74-** Briese T., Mishra N., Jaln, K., Zalmout, I. S., Jabado, O., Karesh, W. B., Daszak, P., **Mohammed, O. B.**, Alagaili A.N., Lipkin, W. I. *Mbio* (2014). Middle East Respiratory Syndrome coronavirus quasispecies that include homologues of human isolated revealed through whole-genome analysis and virus cultured from dromedary camels in Saudi Arabia. *Mbio*, **5**: e01146-14
- 75-** Jacklynn Walters, Sumine , arais, Olga Johnson, Nigel C. Bennett, Abdulaziz N. Alagaili, **Osama B. Mohammed** and Sanet H. Kotzé (2014). The comparative gastrointestinal morphology of five species of muroid rodents found in Saudi Arabia. *Journal of Morphology*, **275**: 980–990.
- 76-** Alagaili, A.N., **Mohammed O.B.**, Bennett, N.C. and Oosthuizen, M.K. (2014). Down the wadi: The locomotory activity rhythm of the Arabian spiny mouse, *Acomys dimidiatus* from the Arabian Peninsula. *Journal of Arid Environments*, **102**: 50-57.
- 77-** T.C. Bray, **O.B. Mohammed**, Thomas M. Butynsk, T. Wronski, M. Sandouka and A.N. Alagaili (2014). Genetic variation and subspecific status of the grey wolf (*Canis lupus*) in Saudi Arabia. *Mammalian Biology*,
- 78-** Nina Patzke, Muhammad A. Spocter, Karl Æ. Karlsson, Mads F. Bertelsen, Mark Haagenen, Richard Chawana, Sonja Streicher, Consolate Kaswera, Emmanuel Gilissen, Abdulaziz N. Alagaili, **Osama B. Mohammed**, Roger L. Reep, Nigel C. Bennett, Jerry M. Siegel, Amadi O. Ihunwo and Paul R. Manger (2013). In contrast to many other mammals, cetaceans have relatively small hippocampi that appear to lack adult neurogenesis. *Brain Structure and Function*, **220**: 361-383. DOI 10.1007/s00429-013-0660-1
- 79-** Bray, T.C., **Mohammed, O.B.** and Alagaili, A. N. (2013). Phylogenetic and demographic insights into Kuhl's pipestrelle, *Pipestrellus kuhlii*, in the Middle East. *PLoS ONE*, **8**: 1-7.

- 80- Alagaili, A.N., **Mohammed O.B.**, Bennett, N.C. and Oosthuizen, M.K. (2013). A tale of two jirds: the locomotory activity patterns of the King jird (*Meriones rex*) and Libyan jird (*Meriones libycus*) from Saudi Arabia. ***Journal of Arid Environments*, 88:** 102-112.
- 81- Elamin, M.H., Daghestani, M.H., Omer, S.A., Elobeid M.A., Virk, P., Al-Olayan, I.M., Hassan, Z.K., **Mohammed O.B.** and Aboussekhra, A. (2013). Olive oil oleuropein has anti-breast cancer properties with higher efficiency on ER-negative cells. ***Food and Chemical Toxicology*, 53:** 310-316.
- 82- **Mohammed O. B.**, Alagaili, A. N., Sandouka M. A., Omer, S. A., Elamin, M H., Abuelzein, E. M. E. (2013). Seroprevalence of some diseases in livestock living within protected areas designated for wildlife reintroduction in Saudi Arabia. ***African Journal of Microbiology Research*, 7:** 1574-1578.
- 83- Elamin, M. H., Hassan, Z. K., Omer, S. A., Daghestani, M. H., Al-Olayan, E. M., Virk, P., ... & **Mohammed, O. B.** (2013). Apoptotic and antiproliferative activity of olive oil hydroxytyrosol on breast cancer cells. *Journal of Medicinal Plants Research*, 7(32), 2420-2428.
- 84- Apio, A., **Mohammed, O. B.**, Omer, S. A., & Wronski, T. (2013). Cross infection with gastro-intestinal tract parasites between domestic goat and endemic Farasan gazelle (*Gazella gazella farasani*) in Farasan Islands, Saudi Arabia. *Journal of King Saud University-Science*, 25(4), 325-329.
- 85- Mahmoud, A. H., Alshaikh, M.A., Aljumaah R.S. and **Mohammed O. B.** (2013). Genetic characterization of Majaheem camel population in Saudi Arabia based on microsatellite markers. ***Research Journal of Biotechnology*, 8:** 26-30.
- 86- Abdulaziz N. Alagaili, Sawsan A. Omer, Tim C. Bray, **Osama B. Mohammed.** (2013). Reference data of haematology and serum biochemistry in adult wild-caught Libyan jird (*Meriones libycus*) from central Saudi Arabia. *Journal of King Saud University-Science*, 25: 307-311.
- 87- **Mohammed, O. B.**, Alagaili, A. N., and Omer, S. A. (2012). Redescription of *Eimeria dorcadis* Mantovani, 1966 (Apicomplexa: Eimeriidae) from the dorcas gazelle (*Gazella dorcas*) in Saudi Arabia. *Folia Parasitologica*, 59(1), 27.
- 88- Hassan, Z.K., Elamin, M.H., Daghestani, M.H., Omer, S.A., Al-Olayan, I.M., Elobeid M. A., Virk, P. and **Mohammed O.B.** (2012). Oleuropein induces anti-metastatic effects in breast cancer. ***Asian Pacific Journal of Cancer Prevention*, 13:** 4555-4559.
- 89- Omer S.A., Al-Olayan, I.M., Elamin, M.H., Hassan, Z.K., Daghestani, M.H. and **Mohammed O.B.** (2012). Experimental *Cassia senna* intoxication in Lohmann broiler chicks. ***Journal of Medicinal Plants Research*, 6:** 3306-3310.
- 90- Alagaili, A.N., Oosthuizen, M.K., Bennett, N.C. and **Mohammed O.B.** (2012). Lights out, let's move about: locomotory activity patterns of Wagner's gerbil (*Gerbillus dasyurus*) from the desert of Saudi Arabia. ***African Zoology*, 47:** 195-202.
- 91- **Osama B. Mohammed**, Abdulaziz N. Alagaili, Sawsan A. Omer, and Mansour F. Hussein. (2012). Parasites of the Arabian Oryx (*Oryx leucoryx*, Pallas, 1777) and Their

- Prevalence in the Kingdom of Saudi Arabia. *Comparative Parasitology*, **79**: 288-292. DOI: <http://dx.doi.org/10.1654/4543.1>
- 92- Mahmoud, A. H., Alshaikh, M.A., Aljumaah R.S. and **Mohammed O. B.** (2012). Genetic variability of camel (*Camelus dromedarius*) populations in Saudi Arabia based on microsatellites analysis. *African Journal of Biotechnology*, **11**: 11173-11180, DOI: [10.5897/AJB12.1081](https://doi.org/10.5897/AJB12.1081)
- 93- Omer Sawsan A, Wronski Torsten, Alwash Azzam, Elamin Maha H, **Mohammed Osama B**, Lerp Hannes. (2012). Evidence for persistence and a major range extension of the smooth-coated otter (*Lutrogale perspicillata maxwelli*; Mustelidae, Carnivora) in Iraq. *Folia Zoologica*, **61**: 172-176.
- 94- Maha H. Elamin, Ebtessam M. Al-Olayan, Sawsan A. Omer, Abdulaziz N. Alagaili and **Osama B. Mohammed.** (2012). Molecular detection and prevalence of *Toxoplasma gondii* in pregnant women in Sudan. *African Journal of Microbiology Research*, **16**: 208-311.
- 95- Ibrahim Al-Khalifa, Riyadh Al-jumaah, Mansour Hussein, **Osama Mohammed**, Sawsan Omer and William Macasero. (2012). Serologic prevalence of *Coxiella burnetii* in captive wild ruminants in Saudi Arabia. *Journal of Comparative Clinical Pathology*, **21**: 33-38. DOI: [10.1007/s00580-010-1061-y](https://doi.org/10.1007/s00580-010-1061-y).
- 96- Alagaili, A. N., **Mohammed, O. B.** and Omer, S. A. (2011). Gastrointestinal parasites and their prevalence in the Arabian red fox (*Vulpes vulpes arabica*) from the Kingdom of Saudi Arabia. *Veterinary Parasitology*, **180**: 336-339.
- 97- Sawsan A. Omer, Wafa A. I. A-Megrin, Mai A. ELobeid, Abdulaziz N. Alagaili and **Osama B. Mohammed.** (2011). A new protocol for the treatment of *Brucella melitensis* Infection in Neumann's gazelle (*Gazella erlangeri*) from Saudi Arabia using oxytetracycline and streptomycin. *African Journal of Biotechnology*, **10**: 11075-11080.
- 98- Mohammed S. Al Saggaf, Sawsan A. Omer, Abdulla S. Khaliel, Abdulaziz N. Alagaili and **Osama B. Mohammed.** (2011). Normal Bacterial Flora from Idmi (*Gazella gazella*) and Reem Gazelles (*Gazella subgutturosa marica*) in Saudi Arabia. *African Journal of Microbiology Research*, **5**: 5090-5096.
- 99- Abdulaziz N. Alagaili, Douglas A. James and **Osama B. Mohammed.** (2011). Timing and pattern of moult in Kuhl's bat, *Pipistrellus kuhlii*, in Saudi Arabia. *Acta Chiropterologica*, **13**: 465-470.
- 100- Sawsan A. Omer, Ann Apio, Torsten Wronoski and **Osama Mohammed.** (2011). A new coccidian parasite (*Eimeria farasanii* n. sp.) indicates parasite-host specificity in endemic Farasan gazelle. *International Journal of Zoological Research*, **7**: 85-92. DOI: [10.3923/ijzr.2011.85.92](https://doi.org/10.3923/ijzr.2011.85.92).
- 101- Omer, S. A., **Mohammed, O. B.** and Adam, S. E. I. (2011). Antimicrobial activity of *Commiphora myrrha*. *Research Journal of Medicinal Plants*, **5**: 65-71. DOI: [10.3923/rjmp.2011.65.71](https://doi.org/10.3923/rjmp.2011.65.71).

- 102- Osama B. Mohammed**, Daphne I. Green, William V. Holt C. (2011). Fecal progesterone metabolites and ovarian activity in cycling and pregnant Mountain gazelles (*Gazella gazelle*). *Theriogenology* 75: 542-548.
- 103- Wronski T., Wacher T., Hammond R. L., Winney B., Hundertmark K., Mark J. Blacket., Mohammed O. B., Flores. B., Omer. S. A., Macasero. W., Plath. M., Ralph Tiedemann, R. and Bleidorn, C.** (2010). Two reciprocally monophyletic mtDNA lineages elucidate the taxonomic status of Mountain gazelles (*Gazella gazelle*). *Systematics and Biodiversity*, **8**: 119-129. DOI: [10.1080/14772001003613192](https://doi.org/10.1080/14772001003613192).
- 104- Wacher T., Wronski T., Hammond R. L., Winney B., Hundertmark K., Mark J. Blacket., Mohammed O. B., Omer. S. A., Macasero W., Lerp H., Plath. M. and Bleidorn, C.** (2011). Phylogenetic analysis of mitochondrial DNA sequences reveals non-monophyly in the Goitred gazelle (*Gazella subgutturosa*). *Conservation Genetics*. 12: 827-831. DOI [10.1007/s10592-010-0169-6](https://doi.org/10.1007/s10592-010-0169-6).
- 105- Mohammed, O. B., Omer, S. A. and Macasero W. V. and Kock, R. A.** (2011). Serum biochemistry reference range values for Arabian Mountain gazelle (*Gazella gazella*) and Arabian Sand gazelles (*Gazella subgutturosa marica*) at King Khalid Wildlife Research Centre. *Journal of Comparative Clinical Pathology*, 20: 187-191. DOI: [10.1007/s00580-010-0976-7](https://doi.org/10.1007/s00580-010-0976-7).
- 106- Mansour F. Hussein, Riyadh S. Al-jumaah . Abdelgadir Homeida, Ahmed A. Alhaidary, Mohammed A. Alshaikh, Abdulrahman Garelnabi, Osama Mohamed, Sawsan Omer,** (2010). Hemostatic profile, platelets, and blood constituents of the Arabian oryx (*Oryx leucoryx*). *Journal of Comparative Clinical Pathology*, 19: 585-591. DOI: [10-1007/s00580-009-0928-2](https://doi.org/10.1007/s00580-009-0928-2)
- 107- Hussein, M. F., Al-Jumaah, R. S., Al-Haidary, A., Mohammed. O. B., Omer. S. A., Gar Elnabi. A. And Macasero. W. V.** (2010). Platelet indices and their relation to red cell parameters in the dromedary camel (*Camelus dromedarius*). *Veterinarski Arhiv*, 80: 375-382.
- 108- M. F. Hussein, R. S. Aljumaah, A. M. Homeida, A. A. Alhaidary, M. A. Alshaikh, A. Gar Elnabi, O. B. Mohammed, Sawsan A. Omer, and W. V. Macasero.** (2010). Coagulation Profile and Platelet Parameters of the Arabian Sand Gazelle (*Gazella Subgutturosa Marica*): Comparison with Humans and Camels. *Journal of Wildlife Diseases*, **46**: 1165-1171.
- 109- Hussein, M. F., Al-Jumaah, R. S., Al-Haidary, A., Alshaikh, M. A., Gar Elnabi, A., Mohammed, O. B., Omer. S. A. and Macasero, W. V.** (2009). Blood platelet indices and parallel red cell parameters in the Arabian mountain gazelle. *Research Journal of Biological Sciences*, 4: 785-788.
- 110- Alshaikh, M. A. A., Al-Haidry, A. I., Al-Jumaah, R. S., Mohammed, O. B., Al-Korashi, M. M., Omer, S. A., Gar EINabi, A. R. and Hussein, M. F.** (2007). First detection of *Brucella abortus* in camel serum in Saudi Arabia using the Polymerase Chain Reaction. *Journal of Applied Animal Research*, **31**: 149-152.

- 111- Mohammed, O. B.,** Omer, S. A. and Sandouka, M. A. (2007). The efficacy of Ivermectin and Levamisole against natural *Nematodirus spathiger* infection in the Arabian Sand Gazelle (*Gazella subgutturosa marica*) and the Arabian Mountain Gazelle (*Gazella Gazella*) In Saudi Arabia. ***Veterinary Parasitology*, 150:** 170-173.
- 112- Kock, R. A.,** Soorae, P. S. and **Mohammed, O. B.** (2007). Role of veterinarians in re-introductions. ***International Zoo Year Book*, 41:** 24–37. DOI: [10.1111/j.1748-1090.2007.00013.x](https://doi.org/10.1111/j.1748-1090.2007.00013.x)
- 113- Mohammed, O. B.,** Davies, A., Hussein, H. S., Dazsak, P. and Ellis, J. (2003). *Hammondia heydorni* from the Arabian Mountain gazelle and red fox in Saudi Arabia. ***Journal of Parasitology*, 89:** 535-539.
- 114- Hammond, R. L.,** Macasero, W., Flores, B., **Mohammed, O. B.,** Wachter, T. and Bruford, M. W. (2001). Phylogenetic re-analysis of the Saudi gazelle, *Gazella saudiya* and its implications for conservation. ***Conservation Biology*, 15:** 1123-1133.
- 115- Mohammed, O. B.,** Davies, A. J., Hussein, H. S. and Daszak, P. 2000. *Sarcocystis* infections in gazelles at the King Khalid Wildlife Research Center, Saudi Arabia. ***Veterinary Record*, 146:** 218-221.
- 116- Ellis, J. T.,** Morrison, D. A., Liddell, S., Jenkins, M. C., **Mohammed, O. B.** and Dubey, J. P. (1999). The genus *Hammondia* is paraphyletic. ***Parasitology*, 118:** 357-362.
- 117- Abu Elzein, E. M. E.,** Sandouka, M. A., Al-Afaleq, A. I., **Mohammed, O. B.** and Flamand, J. R. B. (1998). Arbovirus infections of ruminants in Al-Rub Al-Khali desert. ***Veterinary Record*, 142:** 196-197.
- 118- Mohammed, O.B.** (1997). Parasites of Arabian gazelles. In: *The Gazelles of Arabia*. (Edited by Habibi, K., Abuzinada, A. H. and Nader, I. A.) NCWCD, Riyadh, Publication No 29. Pp 192-207.
- 119- Mohammed, O.B.** and Flamand, J. R. B. (1996). Experimental infection of Arabian sand gazelle, *Gazella subgutturosa marica* with *Eimeria rheemi*. ***Journal of Parasitology*, 82:** 356-357.
- 120- Mohammed, O.B.** and Hussein, H.S. (1994). Antibody prevalence of toxoplasmosis in Arabian gazelles and oryx in Saudi Arabia. ***Journal of Wildlife Diseases*, 30:** 560-562.
- 121- Mohammed, O.B.** and Hussein, H.S. (1992). *Eimeria idmii* n. sp. (Apicomplexa: Eimeriidae) from the Arabian Mountain gazelle, *Gazella gazella* in Saudi Arabia. ***Journal of the Helminthological Society of Washington*, 59:** 120-124.
- 122- Hussein, H.S.** and **Mohammed, O.B.** (1992). *Eimeria rheemi* n. sp. (Apicomplexa: Eimeriidae) from the Arabian sand gazelle, *Gazella subgutturosa marica* (Artiodactyla: Bovidae) in Saudi Arabia. ***Journal of the Helminthological Society of Washington*, 59:** 190-194.
- 123- Rietkerk, F. E.,** Griffin, J. F. T., Wood, B., Mubarak, S., Delima, E., **Mohammed. O. B.,** Lindsay, N. and Williamson, D. T. (1992). Treatment of bovine tuberculosis in an Arabian oryx. ***Journal of Zoo and Wildlife Medicine*, 24:** 523-527.

- 124- Mohammed, O.B.,** Hussein, H.S. and Elowni, E.E. (1988). The ant, *Pachycondyla sennaarensis* (Mayr) as an intermediate host for the poultry cestode, *Raillietina tetragona* (Molin). *Veterinary Research Communications*, **12**: 325-327.

CONFERENCE PROCEEDINGS

- 125-** Al Saggaf, M., **Mohammed, O. B.** and Al Khalil, M. (2005). Bacterial normal flora from mountain (*Gazella gazella*) and sand (*Gazella subgutturosa marica*) gazelles in Saudi Arabia. Proceedings of the 3rd Annual Meeting of Wildlife Disease Association (Africa and Middle east section). Abu Dhabi, 10-13 December 2004.
- 126- Mohammed, O. B.,** Omer, S. A., Macasero W. V. and Hundertmark, K. J. (2005). Molecular Characterization of *Brucella* infecting Arabian Sand gazelle (*Gazella subgutturosa marica*) in Saudi Arabia. Proceedings of the 3rd Annual Meeting of Wildlife Disease Association (Africa and Middle East section). Abu Dhabi. 10-13 December 2004.
- 127-** Hobbs. G., Hundertmark, K. J., Mubarak, S., Sandouka M. A and **Mohammed O. B.** (2005). Relationship between inbreeding and juvenile mortality in captive-bred gazelles. Proceedings of the 3rd Annual Meeting of Wildlife Disease Association (Africa and Middle East section). Abu Dhabi, 10-13 December 2004.
- 128- Mohammed, O.B.** (1990). Two new species of *Eimeria* (Apicomplexa: Eimeriidae) *E. idmii* and *E. rheemi* from Arabian gazelles in Saudi Arabia. The 6th International Conference of Wildlife Disease Association (WDA), Berlin, GDR. 6.
- 129- Mohammed, O.B.** (1992). Studies of the gastro-intestinal parasites of some Arabian gazelles. SBS 13th Annual Meeting on environment protection and components (animals, plants, water and soils), College of Agriculture and Veterinary Medicine, King Saud University, Qassim Branch, Buraihad. 98.
- 130- Mohammed, O.B.** (1994). Toxoplasmosis in some Arabian gazelles in Saudi Arabia. SBS 15th Annual Meeting on the biological natural aspects in the Kingdom of Saudi Arabia. Biology Department, Faculty of Applied Sciences, Umm Al Qurra University, Makkah AlMukarramah. 62.
- 131- Mohammed, O. B.** (2002). Control of gazelle parasites at King Khalid Wildlife Research Centre (KKWRC). The 27th International Veterinary Congress, Tunisia.
- 132- Mohammed, O. B.** (2009). The use of Polymerase Chain Reaction in detection of some pathogenic bacteria in wildlife and other animals at King Khalid Wildlife Research Centre, Saudi Arabia. The 24th Annual meeting of the Saudi Biological Society, Taiba University, Medina, Saudi Arabia. 7th – 9th April 2009.
- 133- Mohammed, O. B.,** Daszak, P. and Hammond, R. L. (1997). Studies on *Sarcocystis* parasites in gazelles in Saudi Arabia. In: *Proceedings and Abstracts of the VIIIth International Coccidiosis Conference and European COST820 Workshop 'Control of Coccidiosis into the Next Millennium'*, Oxford University, Great Britain, 71-72.

- 134- Mohammed, O. B.,** and Hussein, M. F. (2007). Parasites of Arabian oryx (*Oryx leucoryx*) at King Khalid Wildlife Research Centre. The International Conference on the Arabian Oryx in the Arabian Peninsula, the 23rd Annual Meeting of the Saudi Biological Society. King Fahad Cultural Centre, Riyadh, 21st – 23rd April 2007.
- 135- Mohammed, O. B.,** Mubarak, S. M., Nader, I. A. and Wachter, T. W. (2002). Captive breeding and reintroduction of Arabian sand and Mountain gazelles in Saudi Arabia. The 27th International Veterinary Congress, Tunisia.
- 136- Mohammed, O. B.,** Omer, S. A., Macasero, W. W. and Hundertmark, K. J. (2005). Molecular characterisation of *Brucella* infecting Arabian sand gazelle (*Gazella subgutturosa marica*) in Saudi Arabia. Proceedings of the 3rd Annual Meeting of Wildlife Disease Association (Africa and Middle east section). Abu Dhabi, 10-13 December 2004.
- 137- Mohammed, O. B.,** Sandouka, M. A. and Abu Elzein, E. M. E. (2003). Disease surveys of livestock in some protected areas where gazelles have been reintroduced in Saudi Arabia. Presented at the Diseases at the Interface Between Domestic Livestock and Wildlife Species meeting. July 17-18, 2003, Scheman Conference Center, Ames, Iowa, USA
- 138- Rebholz, W.,** Williamson, D. T., Flavell, B., **Mohammed, O. B.** and Al Tamimi, F. (1996). Genetics of Saudi dorcas gazelle: which is the real thing? In: *Conservation of Arabian Gazelles- Proceedings of the Symposium Establishing Priorities for Gazelle Conservation in the Arabian Peninsula*, Edited by Greth, A., Magin, C. and Ancrenaz, M. Riyadh, Saudi Arabia, NCWCD, Riyadh, Saudi Arabia. 119-127.
- 139- Rietkerk, F. E.,** Lindsay, N., Tatwany, H., Mubarak, S., **Mohammed, O. B.** and Williamson, D. T. (1991). Population dynamics of a captive herd of Arabian sand gazelles. Proceedings of the International symposium (Ongules/Ungulates) Toulouse, France, Edited by Spitz, F., Janeau, G., Gonzales, G. and Aulagnier, S.
- 140- Sandouka, M. A., Mohammed, O. B.** and Abu Elzein, E. M. E. (2005). Serological surveys for diseases in livestock within protected areas designated for re-introduction of Arabian gazelles and oryx in Saudi Arabia. Proceedings of the 3rd Annual Meeting of Wildlife Disease Association (Africa and Middle east section). Abu Dhabi, 10-13 December 2004.
- 141- Stievenart, C. and Mohammed, O. B.** (2005). Current and emerging diseases in a captive flock of adult houbara bustard (*Chlamydotis macqueenii*). Proceedings of the 3rd Annual Meeting of Wildlife Disease Association (Africa and Middle east section). Abu Dhabi, 10-13 December 2004.

CONFERENCES, SEMINARS AND SYMPOSIA

- A symposium of the Faculty of Veterinary Science, University of Khartoum, Sudan, on the occasion of the Golden Jubilee, Friendship Hall, Khartoum, 1987.
- International Symposium on the Development of Animal Resources, Friendship Hall, Khartoum, 1988.
- The 6th International Conference of Wildlife Diseases Association, Berlin, Germany, 1990.

- Workshop on Priorities of Research on Tick and Tick-borne Diseases in Sudan, Central Veterinary Research Laboratory, Khartoum, Sudan, 1990.
- The First Scientific Conference, National Centre for Research, Friendship Hall, Khartoum, 1993.
- The 13th Annual Meeting of the Saudi Biological Society, King saud University, Qassim Branch, Buraidah, 1992.
- The 15th Annual Meeting of the Saudi Biological Society, Umm Al-Qurra University, Makkah AlMukarramah, 1994.
- The VIIth International Coccidiosis Conference and European COST820 Workshop, Keble College, Oxford University, Great Britain. 1997.
- The 27th International Veterinary Congress, Tunisia, Tunis, 2002.
- Diseases at the Interface Between Domestic Livestock and Wildlife Species. July 17-18, 2003, Scheman Conference Center, Ames, Iowa, USA.
- The 3rd Annual Meeting of Wildlife Disease Association (WDA Africa and Middle East section). Abu Dahbi, UAE, December 2004.
- The 4th Annual Meeting of Wildlife Disease Association (WDA Africa and Middle East section). Naynuki, Kenya, september 2006.
- The International Conference on the Arabian Oryx in the Arabian Peninsula, the 23rd Annual Meeting of the Saudi Biological Society. King Fahad Cultural Centre, Riyadh, 21st – 23rd April 2007.
- The 24th Annual meeting of the Saudi Biological Society, Taiba University, Medina, Saudi Arabia. 7th – 9th April 2009.
- American Society for Microbiology (ASM) Biodefense and Emerging Disease Research Conference, Washington DC, Marriot Wardman Park Hotel, 25-27 February 2013.

REVIEWER AND EDITPOROIRIAL BOARD

Member of the Editorial Borad of *Al-Anbar Journal of veterinary Sciences*

Reviewed and reviewing articles for the following Journals: *Journal of Parasitology*, *Parasitology Research*, *Folia Parasitologica*, *Proceedings of the Royal Society B*, *Saudi Journal of Biological Sciences*, *African Journal of Biotechnology*, *African Journal of Microbiology Research*.

MEMBERSHIPS

1. Secretary of the Wildlife Disease Association (Africa and Middle East Section), WDA-AMES.
2. Member of the Saudi Biological Society (SBS).
3. Member of the World Association for Wildlife Veterinarians (WAWV).
4. Member of the British Veterinary Zoological Society (BVZS).
5. Member of the Sudan Veterinary Association (SVA).
6. Member of the Arab Veterinary Teachers and Research Workers.
7. Member of the IUCN Veterinary Specialist Group.