

## Osama Badri Mohammed

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### 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

- Assistant Professor, Department of Zoology, College of Science, King Saud University, **2010 – Present**.
- 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 4<sup>th</sup> 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**.

## **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 EXPERIENCE**

- Teaching Veterinary Parasitology to the 4<sup>th</sup> year's students at the Faculty of Veterinary Science, University of Khartoum, 1983 - 1987.
- Participated in training of Saudi nationals on different laboratory diagnostic techniques including methods used in microbiology, parasitology, haematology, histopathology, biochemistry and molecular genetics.
- Participated in giving lectures 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.
- Involved in 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.
- 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.
- 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.

## **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**

- 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 Sagga, 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.

## **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 septicaemia 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**

### **ON GOING RESEARCH SUPPORT**

- King Abdulaziz for Science and Technology (KACST) BIO-1588      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) 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 gazelle*). 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 gazelle*). *Theriogenology* 75: 542-548.

- King Abdulaziz City for Science and Technology (KACST) 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 saudia* and its implications for conservation. *Conservation Biology*, 15: 1123-1133.

- King Abdulaziz City for Science and Technology (KACST) AT-92-2 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 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- 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.
- 2- 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
- 3- **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.
  - 4- 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.
  - 5- 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.
  - 6- Alagaili A.N., Brieese T., Mishra N., Kapoor, V., Sameroff, S.C., de Wit, E., Munster V. J., Hedsley, L. E., Zalmout, I. S., Kapoor, A., Epstein, J. H., Karesh, W. B., Daszak, P., **Mohammed, O. B.**, Lipkin, W. I. (2014). Middle East Respiratory Syndrome coronavirus infection in dromedary camels in Saud Arabia. *Mbio*, **5**: e00884-14
  - 7- Brieese 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 hmomlogues of human isolated revealed through whole-genome analysis and virus cultured from dromedary camels in Saudi Arabia. *Mbio*, **5**: e01146-14
  - 8- 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.
  - 9- 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.
  - 10- 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*, **79**: 409-413.
  - 11- 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.
  - 12- 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.
  - 13- 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.

- 14- **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.
- 15- 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.
- 16- 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.
- 17- 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.
- 18- 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.
- 19- 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.
- 20- **Osama B. Mohammed**, Abdulaziz N. Alagaili and Sawsan A. Omer (2012). Redescription of *Eimeria dorcadis* Mantovani, 1966 (Apicomplexa: Eimeriidae) from the dorcas gazelle (*Gazella dorcas*) in Saudi Arabia. *Folia Parasitologica*, **59**: 27-31.
- 21- **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>
- 22- 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)
- 23- 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.
- 24- Maha H. Elamin, Ebtesam 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.
- 25- 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).
- 26- 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.

- 27- 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.
- 28- 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.
- 29- 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.
- 30- 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).
- 31- 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).
- 32- **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.
- 33- Wronski T., Wachter 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).
- 34- Wachter 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)
- 35- **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).
- 36- 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)
- 37- 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.

- 38- 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.
- 39- 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.
- 40- Alshaikh, M. A. A., Al-Haidry, A. I., Al-Jumaah, R. S., **Mohammed, O. B.**, Al-Korashi, M. M., Omer, S. A., Gar Elnabi, 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.
- 41- **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.
- 42- 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)
- 43- **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.
- 44- 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.
- 45- **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.
- 46- 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.
- 47- 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.
- 48- **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.
- 49- **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.
- 50- **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.
- 51- **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.
- 52- 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.
- 53- 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.
- 54- **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

- 55- 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 3<sup>rd</sup> Annual Meeting of Wildlife Disease Association (Africa and Middle east section). Abu Dhabi, 10-13 December 2004.
- 56- **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 3<sup>rd</sup> Annual Meeting of Wildlife Disease Association (Africa and Middle East section). Abu Dhabi. 10-13 December 2004.
- 57- 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 3<sup>rd</sup> Annual Meeting of Wildlife Disease Association (Africa and Middle East section). Abu Dhabi, 10-13 December 2004.
- 58- **Mohammed, O.B.** (1990). Two new species of *Eimeria* (Apicomplexa: Eimeriidae) *E. idmii* and *E. rheemi* from Arabian gazelles in Saudi Arabia. The 6<sup>th</sup> International Conference of Wildlife Disease Association (WDA), Berlin, GDR. 6.
- 59- **Mohammed, O.B.** (1992). Studies of the gastro-intestinal parasites of some Arabian gazelles. SBS 13<sup>th</sup> Annual Meeting on environment protection and components (animals, plants, water and soils), College of Agriculture and Veterinary Medicine, King Saud University, Qassim Branch, Buraidah. 98.
- 60- **Mohammed, O.B.** (1994). Toxoplasmosis in some Arabian gazelles in Saudi Arabia. SBS 15<sup>th</sup> 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.
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the Arabian Oryx in the Arabian Peninsula, the 23<sup>rd</sup> Annual Meeting of the Saudi Biological Society. King Fahad Cultural Centre, Riyadh, 21<sup>st</sup> – 23<sup>rd</sup> April 2007.

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- 71- Stievenart, C. and **Mohammed, O. B.** (2005). Current and emerging diseases in a captive flock of adult houbara bustard (*Chlamydotis macqueenii*). Proceedings of the 3<sup>rd</sup> 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 6<sup>th</sup> 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 13<sup>th</sup> Annual Meeting of the Saudi Biological Society, King saud University, Qassim Branch, Buraidah, 1992.

- The 15<sup>th</sup> 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 27<sup>th</sup> 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 3<sup>rd</sup> Annual Meeting of Wildlife Disease Association (WDA Africa and Middle East section). Abu Dahbi, UAE, December 2004.
- The 4<sup>th</sup> 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 23<sup>rd</sup> Annual Meeting of the Saudi Biological Society. King Fahad Cultural Centre, Riyadh, 21<sup>st</sup> – 23<sup>rd</sup> April 2007.
- The 24<sup>th</sup> Annual meeting of the Saudi Biological Society, Taiba University, Medina, Saudi Arabia. 7<sup>th</sup> – 9<sup>th</sup> April 2009.
- American Society for Microbiology (ASM) Biodefense and Emerging Disease Research Conference, Washington DC, Marriot Wardman Park Hotel, 25-27 February 2013.

## **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.