



## Abdinasir Yusuf Osman

- Doctor of Veterinary Medicine (DVM), 2009 - University of Khartoum-Sudan
- Master of Veterinary Science (MVSc) in Epidemiology, 2012 - University Putra Malaysia
- Doctor of philosophy in Epidemiology and Public Health, 2016 - Universiti Putra Malaysia
- Global Health, 2015 - Imperial College London
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### PERMANENT HOME ADDRESS

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### POSTAL/TELEPHONE CONTACTS

Department of Clinical Studies,  
Faculty of Veterinary Medicine,  
Universiti Putra Malaysia 43400 UPM,  
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### POSITION

1. President of Somali Veterinary Medical Association (SVMA)
2. Senior Lecturer at Universiti Malaysia Kelantan (UMK)

### EDUCATION

- Doctor of Philosophy (PhD), 2016 : Universiti Putra Malaysia (UPM)
- Master of Veterinary Science (MVSc), 2012: Universiti Putra Malaysia (UPM)
- Doctor of Veterinary Medicine (DVM), 2009: University of Khartoum, Sudan.
- Global Health, 2015, Imperial College London
- Formal Private Education council (Senior Secondary School Examination) (2003), Ahmed Gurey Secondary School, Mogadishu- Somalia.

## **TEACHING AND RESEARCH EXPERIENCE**

- Tutor in University Putra Malaysia, 2012- 2016.
- Participated in teaching undergraduate students in Veterinary Epidemiology; courses taught includes; Veterinary Epidemiology, Veterinary public health, and zoonotic diseases, 2012-to date.
- Participated in teaching undergraduate students in Ruminant Medicine (Field Rotation); 2011-2013.
- Participated in teaching undergraduate students in Veterinary Microbiology; courses taught includes; general Bacteriology, and Epidemiology OCT-DEC 2009.
- Participated in the Faculty's research focus (CLA research), Universiti Putra Malaysia 2010-2013.

## **WORK EXPERIENCE AND CLINICAL PRACTICE**

- Lab assistant, 2009 to 2015
- Research Assistant, 2010-to 2016
- Participated in meat inspection at the state government abattoir, Sudan
- Participated in clinical diagnosis of cases presented to University Veterinary hospital, Khartoum, Sudan, 2008- 2009.

## **AWARDS/PRIZES**

- Merit Scholarship Program (MSP), Islamic Development Bank (IDB), Kingdom of Saudi Arabia, 2013-to 2016
- International Graduate Research Fellowship (IGRF), 2012-2013.
- Special Graduate Research Assistantship (SGRA), Universiti Putra Malaysia 2011-Dec, 2011-2012.
- Federal Government Undergraduate Scholarship Winner 2003-2009.
- Islamic Charitable Projects Association, Scholarship Winner 1997 -2002.

## CAPACITY BUILDING SEMINARS/WORKSHOPS

- Participated in training workshop on **“The First National Seminar On Advanced biostatistics: Spatial Spatiotemporal Data Analysis ”** Organised by Faculty of Medicine and Health Science, Universiti Putra Malaysia, in collaboration with Ministry of Health, Malaysia, 2011.
- Participated in training workshop on **“Methodological issues in Research: Fundamental issues in study design and data analysis (part 1 & 2)”** Organised by Faculty of Veterinary Medicine, Universiti Putra Malaysia, 2010.
- Participated in training workshop on **“ Approaches in Data Analysis”** Organised by Faculty of Veterinary Medicine, Universiti Putra Malaysia, 2012.
- Participated in seminar on **“Recent Advances in Animal Health and Production No.34”** Organised by Faculty of Veterinary Medicine, Universiti Putra Malaysia, 2011.
- Participated in seminar on **“Issues in Postgraduate Research (with emphasis on intermediate SPSS for Biological Science)”** Organised by School of Graduate Studies(SGS), Universiti Putra Malaysia, 2011.
- Participated in seminar on **“Issues in Postgraduate Research (with emphasis on Basic SPSS for Biological Science)”** Organised by School of Graduate Studies (SGS), Universiti Putra Malaysia, 2011.
- Participated in Workshop on **“Basic Statistical Analysis Using SPSS”** Organised by School of Graduate Studies (SGS), Universiti Putra Malaysia, 2011.
- Participated in Workshop on **“Research Design and Method”** Organised by School of Graduate Studies(SGS), Universiti Putra Malaysia, 2010.
- Participated in Seminar on **“Managing your Research”** Organized by School of Graduate Studies(SGS), Universiti Putra Malaysia, 2011.
- Participated in Seminar on **“Scientific Writing and Publishing in Journal Seminar”** Organised by School of Graduate Studies(SGS), Universiti Putra Malaysia, 2011.
- Participated in Seminar on **“Thesis Examination Seminar ”** Organized by School of Graduate Studies(SGS), Universiti Putra Malaysia, 2011.
- Participated in Seminar on **“Research Proposal Writing Seminar”** Organized by School of Graduate Studies (SGS), Universiti Putra Malaysia, 2011.
- Participated in Seminar on **“Insight in Postgraduate Research Seminar ”** Organized by School of Graduate Studies (SGS), Universiti Putra Malaysia, 2011.
- Participated in Seminar on **“Enhancing Soft Skills Seminar ”** Organized by School of Graduate Studies(SGS), Universiti Putra Malaysia, 2011.

- Participated in Seminar on “**English for Publishing Seminar** ”Organized by School of Graduate Studies(SGS), Universiti Putra Malaysia, 2010.
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- Participated in Seminar on “**Guide to Thesis Writing** ”Organized by School of Graduate Studies (SGS), Universiti Putra Malaysia ,2010.
- Participated in Seminar on “**Presentation Skills Seminar** ”Organized by School of Graduate Studies(SGS), Universiti Putra Malaysia, 2010.

## SELECTED PUBLICATIONS

### 2016

1. **Osman, A. Y.,** Abdullah, F. F. J., Kadir, A. A., & Saharee, A. A. (2016). Immuno-pathophysiological responses of mouse model to experimental infection with *Brucella melitensis* and its lipopolysaccharides via intraperitoneal route. *Microbial Pathogenesis*, 100, 17-29.
2. **Osman, A. Y.,** JESSE, F. F., KADIR, A. A., & Aziz, A. (2016). The epidemiology and immunopathophysiology of brucellosis in small ruminant. *Pertanika Journal of Scholarly Research Reviews*, 2(1), 11-21.
3. **Osman, A. Y.,** Abdullah, F. F. J., Kadir, A. A., & Saharee, A. A. (2016). Comparative Immuno-pathophysiological responses of mouse model to experimental infection with *Brucella melitensis* and its lipopolysaccharides via intranasal route of exposure. *Microbial Pathogenesis, Elsevier*.
4. **Osman, A. Y.,** Abdullah, F. F. J., Kadir, A. A., & Saharee, A. A. (2016). Comparative Immuno-pathophysiological responses of mouse model to experimental infection with *Brucella melitensis* and its lipopolysaccharides via oral route of exposure. *BMC Veterinary Research*.
5. **Osman, A. Y.,** Abdullah, F. F. J., Kadir, A. A., & Saharee, A. A. (2016). Immuno-pathophysiological responses of mouse model to experimental infection with *Brucella melitensis* and its lipopolysaccharides via subcutaneous route of exposure. *Comparative pathology, Springer*.

### 2015

1. **Osman, A. Y.,** Abdullah, F. F. J., Chung, E. L. T., Abba, Y., Sadiq, M. A., Mohammed, K., ... & Saharee, A. A. (2015). Caseous Lymphadenitis in a Goat: A Case Report. *International Journal of Livestock Research*, 5(3), 128-132.
2. Tijjani, A. N., Muhammad, A. S., Mohammed, K., Abba, Y., Teik, E. L. T. C. L., Adamu, L., ... & Abdullah, F. F. J. (2015). Management of horn gore injury and urticaria in a dairy cow: A case report. *Journal of Advanced Veterinary and Animal Research*, 2(3), 366-368.
3. Abdullah, F. F. J., Chung, E. L. T., Sadiq, M. A., Abba, Y., Tijjani, A., Mohammed, K., ... & Laila, M. A. M. (2015). Management of fetal dystocia caused by carpal flexion in ewe: A case report. *Journal of Advanced Veterinary and Animal Research*, 2(2), 225-228.

4. Abdullah, F. F. J., Chung, E. L. T., Sadiq, M. A., Adamu, L., Haron, A. W., Abba, Y., ... & Lila, M. A. M. (2015). Lameness in cattle herd due to lime toxicity: A case report. *Journal of Advanced Veterinary and Animal Research*, 2(2), 229-231.
5. Abba, Y., Abdullah, F. F. J., Chung, E. L. T., Sadiq, M. A., Mohammed, K., **Osman, A. Y.**, ... & Saharee, A. A. (2015). Biochemical and pathological findings of pregnancy toxemia in Saanen doe: A case report. *Journal of Advanced Veterinary and Animal Research*, 2(2), 236-239.
6. Abdullah, F. F. J., Chung, E. L. T., Abba, Y., Tijjani, A., Sadiq, M. A., Mohammed, K., ... & Haron, A. W. (2015). Management of Clinical Case of Endometritis in a Cow: A Case Report. *Journal of Veterinary Advances*, 5(4), 887-890.
7. Chung, E. L. T., Abdullah, F. F. J., Abba, Y., Tijjani, A., Sadiq, M. A., Mohammed, K., ... & Haron, A. W. (2015). Clinical Management of Pneumonic Pasteurellosis in Boer Kids: A Case Report. *International Journal of Livestock Research*, 5(4), 94-99.
8. Faez Firdaus, J. A., Sadiq, M. A., Mohammed, K., Tijjani, A., Abba, Y., LimTeik, C., ... & Saharee, A. A. (2015). A clinical case of navel and joint ill in a calf-medical management. *International Journal of Livestock Research*, 5(5), 103-108.
9. Sadiq, M. A., Mohammed, K., **Osman, A. Y.**, Adamu, L., Lila, M. A. M., & Haron, A. W. Left Temporomandibular Joint Luxation in a Boer Goat-A Case Report.
10. Chung, E. L. T., Abdullah, F. F. J., Abba, Y., Tijjani, A., Sadiq, M. A., Mohammed, K., ... & Haron, A. W. (2015). Clinical Management of Pneumonic Pasteurellosis in Boer Kids: A Case Report. *International Journal of Livestock Research*, 5(4), 94-99.

## 2014

1. **Osman, A. Y.**, Abdullah, J., Firdaus, F., Adamu, L., Abdullah, T. T., Azuan, M. H., ... & Saharee, A. A. (2014). The study of caseous lymphadenitis: dose dependent infection of *C. pseudotuberculosis* in mouse model via oral inoculation. *Research Opinions in Animal & Veterinary Sciences*, 4(3).
2. Abdullah, F. F. J., Adamu, L., Ismael, N. A. B., **Osman, A. Y.**, Haron, A. W., Zamri-Saad, M., & Saharee, A. A. (2014). Clinical Responses and Reproductive Pathological Changes Associated with *Brucella Melitensis* and It. *International Journal of Animal and Veterinary Advances*, 6(1), 15-22.
3. Tijjani, A., Roslim, N., Awang, D. N., Saharee, A. A., Saad, M. Z., & Haron, A. W. Trypanosomosis in a Sambar Deer.
4. Abdullah, F. F. J., Tijjani, A. N., Abba, Y., Adamu, L., Mohammed, K., Osman, Y. A., ... & Haroun, A. W. (2014). Allergic dermatitis in a bull: a case report. *Journal of Veterinary Advances*, 4(2), 409-412.
5. Abdullah, F. F. J., Radzuan, N. S., Tijjani, A., Adamu, L., Abba, Y., Mohammed, K., ... & Saad, M. Z. (2014). Stage II Keratoconjunctivitis in a goat: a case report. *IOSR Journal of Agriculture and Veterinary Science*, 7(1 ver. 4), 16-18.
6. Abdullah, F. F. J., Abba, Y., Adamu, L., Tijjani, A., Mohammed, K., **Osman, A. Y.**, ... & Haron, A. W. (2014). Management of grade I vaginal prolapse in a Friesian cross: a case report. *IOSR Journal of Agriculture and Veterinary Science*, 7(1 ver. 4), 74-77.
7. Abdullah, F. F. J., **Osman, A. Y.**, Abba, Y., Adamu, L., Mohammed, K., Tijjani, A., ... & Haron, A. W. (2014). Stage two milk fever in a dairy cow: a case report. *IOSR Journal of Agriculture and Veterinary Science*, 7(1 ver. 4), 71-73.

8. Khaing, A. T., Ching, T. S., Abba, Y., Jesse, F. F. A., **Osman, A. Y.**, Adamu, L., ... & Tijjani, A. (2014). An outbreak of Glasser's disease from two farms in Malaysia. *J. Vet. Adv*, 4(3), 442-448.
9. Abdullah, F. F. J., Adamu, L., Kee, S. Y., **Osman, A. Y.**, Haron, A. W., & Roslim, N. (2014). Concurrent bloat and rectal prolapse in a cow. *International Journal of Livestock Research*, 4(1), 155-160.
10. **Osman, A. Y.**, Haron, A. W., Yimer, N., Awang, D. N., & Roslim, N. Surgical Management of a Second Degree Perineal Laceration in a Buffalo Sequel to Dystocia.
11. Abdullah, F. F. J., Mohammed, K., Abba, Y., Adamu, L., **Osman, A. Y.**, Tijjani, A., ... & Haron, A. W. (2014). Retained placenta associated with *Escherichia coli* infection in a dairy cow. *International Journal of Livestock Research*, 4(2), 120-125.
12. Marimuthu, M., Abdullah, F. F. J., Mohammed, K., Sangeetha, D., Poshpum, O. S., Adamu, L., ... & Tijjani, A. (2014). Prevalence and antimicrobial resistance assessment of subclinical mastitis in milk samples from selected dairy farms. *American Journal of Animal and Veterinary Sciences*, 9(1), 65.
13. Abdullah, F. F. J., Tijjani, A., Adamu, L., Abba, Y., Mohammed, K., **Osman, A. Y.**, ... & Zamri, M. (2014). Ulcerative Balanitis in a Bull. *International Journal of Livestock Research*, 4(2), 114-116.
14. Abdullah, F. F. J., Adamu, L., Kee, S. Y., **Osman, A. Y.**, Haron, A. W., & Roslim, N. (2014). Concurrent bloat and rectal prolapse in a cow. *International Journal of Livestock Research*, 4(1), 155-160.
15. Adamu, L., Jesse, F. F., **Osman, A. Y.**, Sabri, J., Norsidin, M. J., Zamri-Saad, M., ... & Saharee, A. A. (2014). Vegetative valvular endocarditis in a calf: a clinical report. *Research Opinions in Animal & Veterinary Sciences*, 4(1).
16. Awad, F. M. A., Mohamed, M. A., **Osman, A. Y.**, Abu-Hassan, Z. A., & Ibrahim, N. (2014). In vivo assesment of anti-trypanosomal effect of rosemary (*Rosmarinus officinalis*) in rabbits. *IOSR J Agric Vet Sci*, 7, 45-54.

## 2013

1. Abdullah, F. F. J., **Osman, A. Y.**, Adamu, L., Azri, N. A., & Wahid, A. (2013). Caseous Lymphadenitis in a Goat. *Veterinary Journal*, 52, 513-514.
2. Awada, F. M., Hasanb, Z. A. A., Osmanc, A. Y., & Ibrahima, N. (2013, November). Therapeutic activity of crude ethanolic extract of *Artemisia herba alba* against *Trypanosoma evansi* in rabbits. In *AIP Conference Proceedings* (Vol. 1571, p. 177).
3. Ali Awad, F. M., **Osman, A. Y.**, Abu-Hassan, Z. A., & Ibrahim, N. (2013). Anti-trypanosomal effects of chloroform extracts of *Artemisia herba-alba* against *Trypanosoma evansi* infection in rabbits: clinical, parasitological and haemato-biochemical responses. *Research Opinions in Animal & Veterinary Sciences*, 3(11).
4. Abdullah, F. F. J., Adamu, L., **Osman, A. Y.**, Zakaria, Z., Abdullah, R., Saad, M. Z., & Saharee, A. A. (2013). Clinico-pathological Responses of Calves Associated with Infection of " *Pasteurella multocida*" Type B and the Bacterial Lipopolysaccharide and Outer Membrane Protein Immunogens. *International Journal of Animal and Veterinary Advances*, 5(5), 190-198.
5. Abdullah, F. F. J., Nik, N. B., Saad, M. Z., Haron, A. W., Omar, A. R., Sabri, J., ... & Saharee, A. A. (2013). Clinico-pathological Changes Associated with " *Brucella melitensis*" Infection and its Bacterial

- Lipopolysaccharides (LPS) in Male Mice. *International Journal of Animal and Veterinary Advances*, 5(5), 165-170.
6. Abdullah, F. F. J., Adamu, L., Hazirah, N., **Osman, A. Y.**, Mansor, R., Haron, A. W., ... & Saharee, A. A. (2013). Clinical and Reproductive Pathological Changes Associated with *Brucella melitensis* and Its Lipopolysaccharides in Female Mice via Oral Inoculation. *American Journal of Animal and Veterinary Sciences*, 8(3), 104.
  7. Jesse, F. F. A., Adamu, L., **Osman, A. Y.**, Wahid, A., Saharee, A. A., Abdullah, R., ... & Zakaria, Z. (2013). Biochemical and haematological alterations in mice inoculated with outer membrane protein, lipopolysaccharides and whole cells of *Pasteurella multocida* type B2. *Am. J. Vet. Res*, 8(3), 152-158.
  8. Khaleel, M. M., Abdullah, F. F. J., Adamu, L., **Osman, A. Y.**, Haron, A. W., Saad, M. Z., & Omar, A. R. (2013). Acute phase protein responses in mice infected with river water contaminated by *Pasteurella multocida* type B: 2. *American Journal of Animal and Veterinary Sciences*, 8(3), 159.
  9. Abdullah, F. F. J., Khaleel, M., Adamu, L., **Osman, A. Y.**, Haron, A. W., Saad, M. Z., & Omar, A. R. (2013). Polymerase chain reaction detection of *Pasteurella multocida* type B: 2 in mice infected with contaminated river water. *American Journal of Animal and Veterinary Sciences*, 8(3), 146.
  10. Jesse, F. F., Adamu, L., **Osman, A. Y.**, Muhdi, A. F. B., Haron, A. W., Saharee, A. A., ... & Omar, A. R. (2013). Polymerase Chain Reaction Detection of "*C. pseudotuberculosis*" in the Brain of Mice Following Oral Inoculation. *International Journal of Animal and Veterinary Advances*, 5(1), 29-33.
  11. Abdullah, F. F. J., Adamu, L., **Osman, A. Y.**, Haron, A. W., & Saharee, A. A. (2013). Clinical management of stage III infectious bovine keratoconjunctivitis associated with *Staphylococcus aureus* in a dairy cow: a case report. *IOSR Journal of Agriculture and Veterinary Science*, 4(4), 69-73.
  12. Abdullah, F. F. J., Adamu, L., **Osman, A. Y.**, Haron, A. W., & Saharee, A. A. (2013). Clinical management of an outbreak of Babesiosis in a herd of cattle: a case report. *IOSR Journal of Agriculture and Veterinary Science*, 4(4), 78-83.
  13. Abdullah, F. F. J., **Osman, A. Y.**, Adamu, L., Zakaria, Z., Abdullah, R., Saad, M. Z., & Saharee, A. A. (2013). Acute phase protein profiles in calves following infection with whole cell, lipopolysaccharides, and outer membrane protein extracted from *Pasteurella multocida* type B: 2. *Asian Journal of Animal and Veterinary Advances*, 8(4), 655-662.
  14. Ho, C. L., Abdullah, F. F. J., Adamu, L., **Osman, A. Y.**, Awang, D. N., Taslim, N., ... & Saharee, A. A. (2013). Suspected caprine arthritis-encephalitis (CAE) in a Boer cross kid: a case report. *IOSR Journal of Agriculture and Veterinary Science*, 5(4), 35-40.
  15. Saad, M. Z., Zakaria, Z., Abdullah, R., & Saharee, A. A. (2013). Acute phase protein profile and clinico-pathological changes in mice associated with the infection of *Pasteurella multocida* type B and the bacterial lipopolysaccharide and outer membrane protein immunogens. *Journal of Animal and Veterinary Advances*, 12(2), 186-193.
  16. Abdullah, F. F. J., Adamu, L., Yee, J. Y., **Osman, A. Y.**, Haron, A. W., & Saharee, A. A. (2013). Suspected Johne's disease in a herd of dairy cattle: a case report. *IOSR Journal of Agriculture and Veterinary Science*, 4(1), 58-62.
  17. Abdullah, F. F. J., Adamu, L., Jamal, M. H. A., **Osman, A. Y.**, Haron, A. W., Awang, D. N., & Roslim, N. (2013). Parasitic Gastro-enteritis (PGE) concurrent with Eperythrozoonosis in a goat: a case report. *IOSR Journal of Agriculture and Veterinary Science*, 4(1), 63-66.

18. Awad, F. M., Hasan, Z. A. B. A., & **Osman, A. Y.** (2013). Antitrypanosomal effects of crude ethanolic extract of *Artemisia herba alba* following experimental infection of rabbits.
19. Awad, F. M., Hasan, Z. A. B. A., & **Osman, A. Y.** (2013). Antitrypanosomal effects of crude ethanolic extract of *Artemisia herba alba* following experimental infection of rabbits.
20. Abdullah, F. F. J., **Osman, A. Y.**, Adamu, L., Yusof, M., Syamil, M., Omar, A. R., ... & Saad, M. Z. (2013). Polymerase chain reaction detection of *Pasteurella multocida* type B: 2 in mice following oral inoculation. *Asian Journal of Animal and Veterinary Advances*, 8(3), 493-501.

## 2012

1. **Osman, A. Y.**, Abdullah, F. F. J., Saharee, A. A., Sabri, J., Bejo, S. K., & Haron, A. W. (2012). Acute phase response in mice experimentally infected with whole cell and exotoxin (PLD) extracted from *Corynebacterium pseudotuberculosis*. *Journal of Animal and Veterinary Advances*, 11(21), 4008-4012.
2. **Osman, A. Y.**, Abdullah, F. F. J. B., & Saharee, A. A. (2012). Sero-Prevalence of Caseous Lymphadenitis Evaluated by Agar Gel Precipitation Test among Small Ruminant Flocks in East Coast Economic Regions in Peninsular Malaysia. *Journal of Animal and Veterinary Advances*, 11(19), 3474-3480.
3. **Osman, A. Y.**, Abdullah, F. F. J., Saharee, A. A., Haron, A. W., Sabri, I., & Abdullah, R. (2012). Haematological and biochemical alterations in mice following experimental infection with whole cell and exotoxin (PLD) extracted from *C. Pseudotuberculosis*. *J Anim Vet Adv*, 11(24), 4660-7.
4. Khuder, Z., **Osman, A. Y.**, Jesse, F. F., Haron, A. W., Saharee, A. A., Sabri, J., ... & Abdullah, R. (2012). Sex hormone profiles and cellular changes of reproductive organs of mice experimentally infected with *C. pseudotuberculosis* and its exotoxin phospholipase D (PLD). *IOSR Journal of Agriculture and Veterinary Science*, 1(3), 24-29.

## 2010

1. Husna, M. E., Saadia, A. Y., Elmansoury, H. Y., **Osman, A. Y.**, Majid, A. M., & Renz, A. (2010). Efficacy of Chloroquine, Ivermectin and Artemether on *Onchocerca Gutturosa* in Zebu calves in Sudan. *Bulletin of Animal Health and Production in Africa*, 58(3).
2. Younis, S. A., HM EL Basheir, A. M. Ahmed, Y. A. Elmansoury, A. M. Magid, and A. Y. Osman. "Post-Treatment Cyto-Adherence and Lymphocytes Proliferation in *Onchocerca Gutturosa* Infected-Zebu Calves." *Bulletin of Animal Health and Production in Africa* 58, no. 4 (2010).
3. Younis, S. A., Basheir, H. E., Ahmed, A. M., Elmansoury, Y. A., Magid, A. M., & **Osman, A. Y.** (2010). Post-Treatment Cyto-Adherence and Lymphocytes Proliferation in *Onchocerca Gutturosa* Infected-Zebu Calves. *Bulletin of Animal Health and Production in Africa*, 58(4).
4. Abakar, A. D., & **Osman, A. Y.** (2004). Haematological and biochemical changes following concurrent infections with coccidia and haemonchus contortus in desert lambs. *Journal of Animal and Veterinary Advances*.



### **Membership of Professional Associations/Societies**

- Somali Veterinary Medical Association.
- Somali Veterinary Medical Association.
- Euro-arab veterinary association

### **Statistical Software**

- R
- SPSS
- JMP,SAS
- Sigma Plot
- Epi info

### **Prof. Dr. Hj. Abdul Aziz Saharee**

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### **Prof. Dr. Hussni O. Mohammed**

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