

CURRICULUM VITAE

Name: Bashir Osman Mohammed **Salim** (BVM, MVM & PhD)

Status: Assistant Professor of Veterinary Parasitology and Livestock Genetics

Nationality: Sudanese

Date of birth: 12/10/1979

Marital Status: Married

Languages: Arabic (mother), English (Fluent) and Japanese (Intermediate)

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Appointments and experiences:

- **Post-doctoral research fellow** at Centre for Genetics and Genomics, Faculty of Medicine and Health Sciences, School of Life Sciences, The University of Nottingham, United Kingdom. From January 2013 up to now.
- **Assistant professor** at the Department of Parasitology, Faculty of Veterinary Medicine, University of Khartoum, from October 2011 up to now
- **Zoonosis control expert credential** from Graduate School of Veterinary Medicine, Hokkaido University, Japan (2009 to 2011).
- **Lecturer** at the Department of Parasitology, Faculty of Veterinary Medicine, University of Khartoum, Sudan (2009 – 2011).
- **Teaching assistant** at the Department Parasitology, Faculty of Veterinary Medicine, University of Khartoum, Sudan. (2005 – 2008).
- **Research assistant** at Commission of Biotechnology and Genetic Engineering, National Research Center, Sudan April - September 2005.

Professional scientific contribution:

Peer-reviewer to the following international peer-reviewed journals:

[Infection](#), [Genetics and Evolution](#), [Parasites and Vectors](#), [Veterinary Parasitology](#), [Research in Veterinary Science](#) & [Acta tropica](#)

Administrative experience:

- Coordinator for master by courses and research, Department of Parasitology, Faculty of Veterinary Medicine, University of Khartoum. From February 2012, for one academic year.
- Acting Head Department of Parasitology from April – September (2013).
- Secretary for the Board of the Department of Parasitology, Faculty of Veterinary Medicine. From February to December (2012).
- Member of the examination committee, in charge of the fourth year undergraduate. February 2012, for one academic year.
- Member of the committee for unifying the transcript for master degree by courses and research, Faculty of Veterinary Medicine, February (2012).

Submitted grants and funding proposals:

- *Theileria annulata* Subunit Vaccine. Japanese government scholarship Monbusho (Monbukagakusho) from Ministry of Education, Culture, Sports, Science and Technology of Japan, May 2007 (¥10720000)
- Examining polycistronic transcriptional mechanisms in trypanosomes using RNNi and super-resolution imaging. Arab fund fellowship program (Kuwait November 2013).
- The mechanisms of IL-17 related immunity against the infectious abortifacient *Neospora caninum*. University of Nottingham for Nottingham Research Fellowship, United Kingdom (October 2013).
- Consequences of concomitant infection with *Mycobacterium bovis* and *Theileria annulata*. Alexander von Humboldt fellowship for postdoctoral research, Germany (2012).
- Molecular epidemiology of trypanosome parasites in camels and equids in relation to drug resistance. Islamic Development Bank Merit Scholarship for High Technology for post-doctoral research fellow, Saudi Arabia (2012)

Awards:

- Awarded the Islamic Development Bank Merit Scholarship for High Technology for post-doctoral research fellow (2012).
- Awarded the Japanese government scholarship Monbusho (Monbukagakusho) from Ministry of Education, Culture, Sports, Science and Technology of Japan (MEXT) (2008).
- Awarded the Ministry of higher education and scientific research scholarship, Sudan for M.Sc. study (2006)

Awards during undergraduate study:

1. The Faculty of Veterinary Medicine Prize for the Second best academic (2003).
2. The University of Khartoum Prize for the best academic performance in in the 5th year class (2004).
3. The University of Khartoum Prize for the best academic performance in Medicine, Pharmacology & Toxicology (2004).
4. Prize of undersecretary of the Federal Ministry of Animal Resources and Fisheries for the best academic performance in 5th year class (2004)

Supervision for postgraduate research

Acted as co-supervisor:

- Ms Eiman Ahmed Abdelmutalab Ahmed (BVM, 2006, University of Khartoum, Sudan). Sequencing and Phylogenetic Analysis of the Capripoxvirus G- Protein-Coupled Chemokine Receptor Gene (GPCR) of Some Sudanese Isolates. Khartoum October (2011).
- Ms Sana Ibrahim Mohamed Adam (BSc, 2006, University of Khartoum University, Sudan). Differentiation between Virulent and Avirulent Newcastle Disease Virus Isolates Using the Cleavage Site Motif of the Fusion Protein. Khartoum, January (2012).
- Ms Hoyam Omer Ahmed Elhaj (BPharm, 2004, University of Khartoum). Co-Infection of *Theileria annulata* and *Mycobacterium bovis* Infection in Cattle in Sudan. Khartoum (2012)

Teaching experiences:

- Teaching practical sessions to under and postgraduate graduate students since (2006).
- Lecturing protozoology to the 3rd year class undergraduates, since (2011).
- Lecturing Molecular Parasitology and Control of parasites subjects to master by courses students (2011).
- Participating in field trips for clinical and preclinical students in which students are exposed to the livestock in the field and animal production systems all over the country (2006-2012).

Qualifications:

- **PhD: Doctor of Veterinary Medicine**, in Molecular parasitology, September 2011, Graduate School of Veterinary Medicine, Hokkaido

University, Japan. Funded by Scholarship awarded from the Ministry of Education, Culture, Sports, Science and Technology of Japan (MEXT).

*It was carried under a collaborative research between the Faculty of Veterinary Medicine, University of Khartoum and **Research Center for Zoonosis Control, Hokkaido University** on the subject of Molecular Epidemiology of animal and human trypanosomiases in Africa and equine piroplasmoses.*

The main research topics covered were Molecular Parasitology, Genetic Diversity and Population Genetics of Parasites. The thesis title is "Molecular epidemiological studies of protozoan diseases in domestic animals in the Sudan"

- **MVM: Master of Veterinary Medicine**, in parasitology September (2008), from the Department of Parasitology, Faculty of Veterinary Medicine, University of Khartoum, Sudan. Funded by grant from the Ministry of Higher Education and Scientific Research, Sudan. Thesis title for master degree "Molecular, Serological and Parasitological Detection of Piroplasmosis of Horses in the Sudan"
- **BVM: Bachelor of Veterinary Medicine**, October (2004), Faculty of Veterinary Medicine, University of Khartoum, Sudan. I graduated as second best academic performance student with Very Good Grade and during which I had awarded several prizes from both Faculty of Veterinary Medicine and University of Khartoum.

International peer reviewed publications in PubMed:

1. **Salim B**, Bakheit AM and Sugimoto C. Molecular detection of Equine Trypanosomes in the Sudan. *Vet. Parasitol.* (Inpress)
2. **Salim B**, Bakheit AM and Sugimoto C. Rapid detection and identification of *Theileria equi* and *Babesia caballi* by high-resolution melting (HRM) analysis. **Parasitology Res**, 2013, 112(11): 3883-6. PMID: [23990047](#)
3. Abdellatif MM, **Salim B**, Ibrahim AA, Asil T, Khalafalla AI. Analysis of TK and C18L genes of wild-type and cell culture passaged camelpox virus. **Virolog Sin.** 2013. 28(4): 239-41. PMID: [23913181](#)
4. **Salim B**, Bakheit AM, Sugimoto C. Current Status of Equine Piroplasmosis in the Sudan. **Infect. Genet. Evol.** 2013, 16C: 191-199. PubMed PMID: [23485745](#)
5. **Salim B**, de Meeûs T, Bakheit AM, Kamau J, Nakamura I and Sugimoto C. Population genetics of *Trypanosoma evansi* from Camel in the Sudan. **PLoS Neg Trop Dis.** 2011, 5(6): e1196. PubMed PMID [21666799](#)
6. **Salim B**, Bakheit MA, Sir Elkatim S, Kamau J, Nakamura I, Kakao R, Sugimoto C. An Outbreak of Bovine Trypanosomiasis in the Blue Nile State, Sudan. **Parasit Vectors.** 2011, 4: 74 PubMed PMID [21569459](#)
7. **Salim B**, Bakheit MA, Kamau J, Nakamura I, Sugimoto C. Molecular epidemiology of camel trypanosomiasis based on ITS1 rDNA and *RoTat 1.2* VSG gene in the Sudan. **Parasit Vectors** 2011, 4:31. PubMed PMID: [21375725](#)

8. Kamau J, de Vos AJ, Playford M, **Salim B**, Kinyanjui P, Sugimoto C: Emergence of new types of *Theileria orientalis* in Australian cattle and possible cause of theileriosis outbreaks. **Parasit Vectors** **2011**, 4:22. PubMed PMID: [21338493](#)
9. Kamau J, **Salim B**, Yokoyama N, Kinyanjui P, Sugimoto C. Rapid discrimination and quantification of *Theileria orientalis* types using ribosomal DNA internal transcribed spacers. **Infect Genet Evol.** **2011**. 11(2): 407-14. PMID: [21145431](#)
10. **Salim B**, Bakheit AM, Kamau J, Nakamura I and Sugimoto C. Nucleotide sequence heterogeneity in the small subunit ribosomal RNA gene within *Theileria equi* from horses in Sudan. **Parasitol. Res** **2010**, 106 (2): 493-8. PMID: [19953269](#)
11. **Salim B**, Hassan SM, Bakheit MA, Alhassan A, Igarashi I, Karanis P. and Abdelrahman MB. Diagnosis of *Babesia caballi* and *Theileria equi* infections in horses in the Sudan using ELISA and PCR. **Parasitol Res.** **2008**, 103 (5): 1145-1150. PMID: [18618143](#)

Forthcoming publications:

- Al-Mathen F, Charruru P, Peters J, **Salim B**, Abdussamad MA, Raziq A, Faye B, Al-Eknaah M, Watzer C, Hanotte H, Burger AP. Dynamics of domestications and trading revealed by global genetic diversity of the dromedary [Under review to "Proceedings of the royal society B"]
- **Salim B**, Taha MK, Hanotte O, and Mwacharo. MJ. Historical demographic profiles and genetic variation among the only African indigenous diary zebu breed: The Butana and Kenana of the Sudan [Submitted to Journal of Animal Genetics]
- **Salim B**, Al-Mathen F, Hanotte O, and Mwacharo MJ. An insight into the history of African cattle pastoralism: Full mitochondrial genome study of African cattle. [In Preparation and targeting "Proceedings of the royal society B"]

Conferences and seminars:

- 5th Annual Next Generation Sequencing Congress collocated with the Single Cell Analysis Congress. Organised by Oxford Global Conferences. 18-19 November (2013), London, United Kingdom.
- 3rd International Young Researcher Seminar for Zoonosis Control. (Population genetic analysis of *Trypanosoma evansi* in the Sudan). held on September 16-17, (2011), in Sapporo, Japan.
- XIII International Congress of Bacteriology and Applied Microbiology by organized International Union of Microbiological Societies 2011 Congress (IUMS). 6-10 September (2011), Sapporo, Japan
- 31st Conference of the International Scientific Council for Trypanosomiasis Research and Control (ISCTRC). (Population genetic structure and

reproductive strategies of African trypanosomes). 12-16 September (2011), Bamako, Mali.

- The 2nd International Young Researcher Seminar in Zoonosis Control. (Characterization of *Theileria orientalis* putative hemolysins). From 13-14 September (2010) Hokkaido University, Japan.
- The 1st International Young Researcher Seminar in Zoonosis Control (High resolution melting analysis of sequence variation in *EMA-1* gene and *18S rRNA* gene within *Theileria equi* and differentiation from *Babesia caballi*). 19-21 August (2009), Niseko City, Hokkaidō Prefecture Japan.
- The 79th Annual Meeting of the Japanese Society of Parasitology. (Genetic Diversity of *Theileria equi* in Sudan Based on *18S rRNA* gene Sequence). From 20-21 May (2010), Asahikawa City, Hokkaidō Prefecture, Japan.
- The 10th Biennial Conference of the Society for Tropical Veterinary Medicine (STVM). (Species Identification of *Theileria equi* and its Differentiation from *Babesia caballi* by High Resolution Melting (HRM) Analysis), 29 June - 3 July (2009), Media Docks, Lubeck Germany.

Workshops and symposia

- 5th International Symposium on Animal Functional Genomics. Evidence of common signatures of selection in the genomes of West African cattle and the Yoruba human population. From 9-11 September (2013), Guarujá-SP, Brazil.
- Browsing Genomes with Ensembl and Ensembl Genomes Workshop. The Genome Analysis centre, 6th June (2013), Norwich, United Kingdom.
- First workshop on diagnostic tools. Molecular epidemiology network for promotion and support of delivery of live vaccines against *Theileria parva* and *Theileria annulata* infection in Eastern and Northern Africa. Participated as in instructor in the DFG Germany-African Cooperation Project in Infectionology. 13-17 November (2011), Khartoum, Sudan.
- The first International Meeting for Protozoan Diseases, Japan Society for promotion of Science (JSPS) Africa – Asia – Science Platform Program Date September 6 – 7- (2007), Place NRCPD/ Obihiro, Hokkaido, Japan.
- African Research Forum on Emerging and Reemerging Infections. From 15-16 December (2008), Hokkaido University, Japan
- Parasite Vector genomics II in Sapporo, 21-22 October (2008), Hokkaido University, Japan.

Online periodical

Salim, B. 11 May. *Developing a Piroplasmiasis Control Strategy for Sudan 2013.* (URL: <http://www.thehorse.com/articles/31860/developing-a-piroplasmiasis-control-strategy-for-sudan>)

Training and courses:

- Bio-Linux Course organised by British Antarctica Survey, Natural Environmental Research Council, 24 October (2013). Cambridge United Kingdom.
- Empirical Population Genetics Training Course. During in the period 15 – 18 October 2012, in collaboration with CRD and CIRDES. Faculty of Veterinary Medicine, University of Khartoum, Sudan
- Training course in: Introduction to Remote Sensing: Principles and Applications. Period from 7-11 November (2010), Faculty of Forestry, University of Khartoum, Sudan.
- Training course at the National Research Center for Protozoan Diseases held on August 21 to September 16, (2007), Obihiro, Hokkaido, Japan.
- Training course in cattle health and production at Arab Company for Agriculture and Animal Resources. Period from Oct. 2nd to Nov. 5th (2005). Khartoum, Sudan
- Training course at the Faculty of Veterinary Medicine University of Pretoria and Onderstepoort Veterinary Institute (OVI), via international Veterinary Students Association (IVSA) from April 22nd to 21st May (2004), Pretoria, South Africa.

GenBank® publications

Nucleotide sequences of the small subunit ribosomal RNA gene of *Theileria equi* and *Trypanosoma evansi* were submitted to the GenBank and were available to retrieve by clicking ([here](#))

Professional memberships:

- Sudan Veterinary Council
- The Japanese Society of Parasitology
- Member of the IDB scholars association in the UK

Referees:

1. Olivier Hanotte, Professor, Centre for Genetics and Genomics, School of Life Sciences, The University of Nottingham, UK
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3. Mohammed Ahmed Bakheit, Associate professor, Veterinary Infection-Biology and-Immunology, Research Center Borstel, Borstel, Germany
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