

Rania Mohamed Hassan Baleela

C/O Dr Mohamed Hassan Baleela

P. O. Box 8326

Alamarat

KHARTOUM-SUDAN

Mobile: +249 (0) 123014120,

Email: raniabaleela@gmail.com, rania.baleela@uofk.edu

Many years quality experience in a variety of challenging situations, teaching, guiding and supervising both undergraduate and postgraduate students in addition to leading groups in voluntary working national societies and associations and organizing several conferences and workshops at Sudan national level. EIFL.net open access country coordinator, OASCIR project (1st Sudanese Institutional Repository) and SudHENL project manager. Extensively travelled inside and outside Sudan and well networked.

Areas of expertise

- Infectious and tropical diseases
 - Genetics
 - Population genetics
 - Molecular biology
 - Open access & repositories
 - Quality control of higher education
 - Digital content management systems
-

Education

Ph.D. of Infectious and tropical diseases: February, 2010, London School of Hygiene and Tropical Medicine (LSHTM), United Kingdom, research emphasis on molecular epidemiology and population structure of *Leishmania donovani*. Thesis title: “Sudanese *Leishmania donovani*: Population structure and recombination uncovered by multilocus microsatellite typing (MLMT), multilocus sequence typing (MLST) and DNA quantitation”.

High Diploma of Infectious and tropical diseases: February, 2010, LSHTM, UK.

M. Sc.: Zoology: 2003. University of Khartoum, Sudan, with research and thesis on haptoglobin, the plasma protein as a marker for susceptibility to acquire infection with

major tropical diseases.

B. Sc. Honours, 1st class: June 1999, University of Khartoum, Sudan. Thesis title: "The effect of aqueous extracts and powders of Neem leaflets at different developmental stages on *Trogoderma granarium* Everts and *Tribolium castaneum* Herbs."

Teaching experience:

1. Teaching Assistant, Sep. 1999-2005, University of Khartoum (U. of K.):

- Preliminary year Zoology practical
- Intermediate year invertebrate and vertebrate practical courses
- Third year ecology practical course
- Fourth year genetics practical courses
- Field trips supervision and guidance.

2. Lecturer, 2005-2010, U. of K.:

From 2005-Feb. 2006:

- Preliminary year Zoology practical
- Intermediate year invertebrate and vertebrate practical courses
- Third year ecology practical course
- Fourth year genetics practical courses
- Field trips supervision and guidance.

From 2006-2010:

- Conducted my Ph. D. studies.

3. Assistant Professor May 2010-present, U. of K.:

3.1 U. of K.:

- M. Sc. Molecular Biology course (SZM.2.2), class size 25- 57 students
- M. Sc. Molecular Animal Physiology (SZM.2.6), class size 25- 57 students
- High diploma Molecular biology, genetics and developmental biology (GEN604), class size 20 students
- Undergraduate (3rd Year) General and comparative physiology (ZOO303), class size 57-85 students
- Undergraduate (4th Year) molecular genetics course (ZOO405), class size 57-85 students
- Undergraduate (5th Year) advanced molecular biology course (ZOO560), class size 10-17 students

3.2 Sudanese Training Centre for Biotechnology, trains Ministry of Higher Education and Research attaché:

- High Diploma in Molecular Diagnosis of Infectious Disease, class size 10-18 students
-

Professional experiences:

Supervision (2010- present):

- **Postgraduate:**, I mentored 9 M. Sc. projects and 1 Ph. D. project.
- **Undergraduate:** I mentored 20 undergraduate projects,

Administrative and community service:

- Head Digital Content Department, U. of K. (2015-present)
 - Head Quality Control Unit at the Faculty of Science, U. of K. (2010- 2015)
 - Sudan Journal of Science editor (2012- present) _
http://sciencejournal.uofk.edu/index.php?option=com_content&view=article&id=58&Itemid=129&lang=en
 - Faculty of Science pilot institutional repository founder (OASCIR project documentation <http://uofkoascir.blogspot.com/> , 2011). Please note that this is the first Sudanese Institutional repository
 - University of Khartoum Institutional repository founder (2013)
(www.khartoumspace.uofk.edu)
 - Advisory board member of The African Centre for Veterinary Consulting <http://www.acvc.pro/>
-

Grants and research leading experience:

- EIFL grant for open access advocacy campaign project entitled: Building an Institutional Repository for the University of Khartoum (U. of K.): A proposal for eIFL.net call on Open Access advocacy campaigns [Open Access Scientific Institutional Repository (OASCIR)], 2011
- Sudanese Higher Education Ministry research grant for project entitled: Control of Kala-azar in Sudan: population genetics and epidemiology study, 2011-2013.
- EIFL grant for open access advocacy campaign project entitled: OA advocacy at Sudan Higher Education Institutions National level (SudHENL), 2012

Scholarships and awards

- UNDP/ World Bank/ WHO special programme for research and training in tropical diseases (TDR) grant support for M. Sc. thesis preparation (ID no. 950208 RSG).
- Academic merit scholarship of the Islamic Development Bank to obtain my Ph. D. (Feb. 2006- Aug. 2009).

Publications

- **Baleela Rania**, Llewellyn, M.S., Fitzpatrick, S., Kuhls, K., Schönian, G., Miles, M. A., Mauricio, I. L. (2014). *Leishmania donovani* populations in Eastern Sudan: temporal structuring and a link between human and canine transmission. *Parasites & Vectors*, 7:496 doi:10.1186/s13071-014-0496-4 [[Full article- PDF](#)]
- Hadeel E. Mohamed, Fathi Mohamed Ahmed Elrabaa and **Rania M. H. Baleela**. (2014). Control of *Periplaneta americana* using Boric Acid & Neem Tree leaflets powder. *Sudan Journal of Science (SJS)*
- Nada E. Ibrahim, **Rania M.H. Baleela**, Mustafa I. Elbashir, Hussein M. Ahmed, Isam Elkhider, Atif A. Elagib. (2012). Association of Hp 1-1 with liver disorders among Sudanese patients. *Journal of scientific and industrial research*. 3(6):403-405. doi:10.5251/ajsir.2012.3.6.403.405. [[Full Article - PDF](#)]
- **Baleela, R. M. H.**, Ibrahim, N. E., Osman, O. F. and Elagib, A. A. (2012). Distribution of Haptoglobin Phenotypes among Patients with HIV/AIDS, Hepatitis B, Liver Cirrhosis and Chronic Renal Failure in Sudan. *Sudan Journal of Science (SJS)*, 5(1).
- Miles, M. A., Llewellyn, M. S., Lewis, M. D., Yeo, M., **Baleela, R.**, Fitzpatrick, S., Gaunt, M. & Mauricio, I. L. (2009). The molecular epidemiology & phylogeography of *Trypanosoma cruzi* & parallel research on *Leishmania*: looking back & to the future. *Parasitology*, 136(12):1509-28.
- Siddig, S. A. & **Baleela, R. M. H.** (2007). The effect of aqueous extracts and powders of Neem leaflets at different developmental stages on *Trogoderma granarium* Everts and *Tribolium castaneum* Herbs. *Sudan Journal of Basic Sciences (B)*, 11:47-60.
- **Baleela, R.** and de Castro, P. (2010). Mapping activities at the Open Access Week 2010: An updated picture of the way Open Access is presently developing

worldwide (with particular attention to Africa). Doi http://e-archivo.uc3m.es/bitstream/10016/9712/1/OA_worldmapping_Africa.pdf.

Conferences' presentations

- **Rania Baleela**, Martin S. Llewellyn, Sinead Fitzpatrick, Katrin Kuhls, Gabriele Schönian, Michael A. Miles, Isabel L. Mauricio. *Leishmania donovani* populations in Eastern Sudan: temporal structuring and a link between human and canine transmission. British Society of Parasitology Spring Meeting - Cambridge, UK – 6-9 April 2014
- **Rania M. H. Baleela**, Sinead Fitzpatrick, Katrin Kuhls, Gabriele Schonian, Michael A. Miles & Isabel L. Mauricio. (2011). Poster presentation No. 1356: Sudanese *Leishmania donovani* population structure: uncovered by multilocus microsatellite and sequence typing. American Society of Tropical Medicine and Hygiene 60th Annual Meeting, from December 4-8, 2011, Philadelphia Marriott Downtown, Philadelphia, Pennsylvania, USA.
- **Baleela, R.** (2008). Poster: Genetics of Sudanese *Leishmania donovani* sub-populations. Royal Society of Tropical Medicine & Hygiene, Research in Progress meeting held at Khalili Lecture Theatre, School of Oriental & African Studies, London University, United Kingdom.
- Haptoglobin phenotypes distribution among patients with viral infections in Sudan (HIV/AIDS & Hepatitis-B), presented at the 3rd conference of tropical diseases, 2003, Khartoum, Sudan.
- Haptoglobin phenotypes distribution in Sudanese subjects infected with major infectious diseases, presented at the 2nd meeting of the genetics of the populations of Sudan and east Africa (MGPSEA) from 1-3rd November 2002, Khartoum-Sudan.
- Haptoglobin phenotypes in different types of cancer in Sudan, presented at the Sudanese association of pathologists 9th scientific conference from 27-29 March 2001, Khartoum, Sudan.

Courses

- Molecular biology and forensic applications (DNA fingerprinting use in forensic

medicine), Naief Arabic Academy for Security Sciences (Kingdom of Saudi Arabia), held at The Institute of Nuclear Medicine, Gezeira University, Wad Madani-Sudan, September 1999.

- Cytogenetics and molecular cytogenetics of cancer, Lund University course, held at the Tropical Medicine Research Institute (TMRI)-Sudan, July 2001.
- Molecular biology workshop, TMRI-Sudan, May 2002.
- Molecular biology of *Leishmania* (theoretical and practical course), International Centre for Genetic Engineering and Biotechnology (ICGEB), Area Science Park, Trieste- Italy, October 2004.
- The pathology of pre-mRNA splicing diagnostic and mechanistic aspects, ICGEB, Area Science Park, Trieste- Italy, October 2005.
- Protein interaction technologies in biomedical research, ICGEB, New Delhi- India, December 2005.
- Effective project planning and evaluation in biomedical research, UNICEF/UNDP/ WORLD BANK /WHO special programme for research & training in tropical diseases, Kampala- Uganda, August 2005.
- Mind mapping, LSHTM, London-UK, 2008.
- Scientific paper writing, LSHTM, London-UK, 2007 & 2008.
- Small group teaching workshop, LSHTM, London-UK, 2008.
- Systematic reviewing, one day workshop, LSHTM, London-UK, 2008.
- Open Access Africa, Kenyatta University, Nairobi-Kenya, Nov. 2010.
- EIFL-FOSS Regional Seminar, Tanzania, 2011.
- Quality assessment and accreditation in higher education, U. of K., Sudan, May 2012
- Principles and concepts of total quality management, U. of K., Sudan, May 2012

References:

- Professor Suad Sulaiman: email address: suadsulaiman@gmail.com
- Professor El Amin El Rayah Mohamed, Department of Zoology, Faculty of Science, University of Khartoum, Khartoum- Sudan. email address: profelrayah5@gmail.com
- Dr Isabel L. Mauricio, Instituto de Higiene e Medicina Tropical/Unidade de Parasitologia e Microbiologia Médicas, UEI Parasitologia Médica, Rua da Junqueira, 100 1349-008 Lisboa, Portugal.

Email address: isabel.mauricio@ihmt.unl.pt