

Curriculum Vitae

Name : Mohamed Musa Mohamed-Ahmed

Date & Place of Birth : 1.1.1949, Sennar

Nationality : Sudanese

Religion : Moslem

Marital Status : Married with Five Children

Academic Qualification:

1: B. V. Sc. 1971, University of Khartoum, Sudan

2: Ph. D. 1981, The University of Liverpool, England

“The title of the thesis is: The effects of temperature and low doses of organophosphorus insecticides on the reproductive performance of the tsetse fly *Glossina morsitans morsitans*”.

General Education:

1954 – 1958 : Elementary School, Sennar, Central Sudan

1958 – 1962 : Intermediate School, Sennar Central Sudan

1962 – 1966 : Secondary School, Sennar, Central Sudan.

1966 – 1971 : Faculty of Veterinary Science, University of Khartoum, Sudan

Experience:

1971-75: District Veterinary Officer, Kadaguli, Nuba Mountains, Kordofan, Province.

- Team Leader, The National Animal Census and Disease Survey, Sudan Government/FAO.
- 1976: Joined the Veterinary Research Laboratories, Soba, Sudan, as an Assistant Research Officer and acting director of the Regional Veterinary Research Laboratory, Sennar, Central Sudan.
- 1977: Acting Director of the Regional Veterinary Research Laboratory, Kassala, Eastern Sudan.
- 1978-81: Ph. D. course, The University of Liverpool, England.
- 1982-83: Expatriate Research Officer, The National Tsetse and Trypanosomiasis Control Project, Mogadishu, Somalia.
- 1983-85: Director of the Regional Veterinary Research Laboratory Sennar, Central Sudan.
- 1985-88: Director of the Regional Veterinary Research Laboratory Nyala, South Darfur, Western Sudan.
- 1989: Head of the Tsetse and Trypanosomiasis Department, the Central Veterinary Research Administration, P.O. Box, 8067, Soba, Khartoum, Sudan.
- 1989-98: Postdoctorate Research Fellow, Research Associate and a Research Scientist, Tsetse

Research Programme Mbita Point Field Station,
International Centre of Insect Physiology and
Ecology, ICIPE, P.O. Box 30772 Nairobi, Kenya.

1999-to date: Head Department of the Biopathology, College of
Veterinary Medicine and Animal Production,
Sudan University of Science and Technology,
Khartoum, Sudan.

International Seminars Attended:

1. Tsetse and Trypanosomiasis seminar 1978, Edinburgh, Scotland.
2. Tsetse and Trypanosomiasis seminar 1980, Bristol, England.
3. Sterile Insect Technique (SIT) seminar, 1984, Lusaka, Zambia.
4. Nineteenth Meeting of the International Scientific Council for Trypanosomiasis Control Research, 23rd March – 7th April 1987, Lome, Togo.
5. Seminar for Africa on Animal Trypanosomiasis: tsetse control, diagnosis and chemotherapy using nuclear techniques and research meeting of the joint FAO/IAEA, coordinated research programmes on: development of practices for area-wide tsetse eradication or control with on the SIT and development of controlled-release formulations

- of pesticides using nuclear techniques. 11th to 15th February 1991. Muguga, Nairobi, Kenya.
6. The Six Annual Eastern Africa Network for Trypanosomosis (EANETT) Conference, 29th November to the 2nd December 2004, Khartoum, Sudan.

Students Supervised:

Many M. Sc. and several Ph. D. students have been supervised.

Current Research Activities:

We are currently involved in research leading, hopefully, to the development of odour-bait system for control of animal and human trypanosomiasis by control of horse flies (Diptera: Tabanidae) and control of tsetse flies (Diptera: Glossinidae). This is being done in collaboration with the Tropical Medicine Research Institute, Ministry of Health, Sudan, Camel Research Unit, University of Khartoum and the Tsetse and Trypanosomiasis Dept., Central Veterinary Research Laboratory, Soba, Khartoum. These activities are funded by the Sudan University, WHO of the United Nations and the Ministry of Health Sudan. This year (2008) we are in the process of formulating a project on improving methods of control of African Human trypanosomiasis (HAT) with Prof. Patrick Guerin, Switzerland, Dr Steven Mihok and scientists from six African countries, the Sudan included.

Talks and Reports:

1. Histochemistry of cholinesterase in the reproductive and nervous systems of the tsetse fly *Glossina morsitans morsitans*, Dept. of Veterinary Parasitology, Liverpool School of Tropical Medicine, England 1981.
2. Distribution of tsetse flies in Kurmuk District, Blue Nile Province Sudan, Veterinary Research Administration, Soba, Khartoum, Sudan.
3. Tsetse and Trypanosomiasis situation in the Sudan, SIT Seminar, Lusaka, Zambia 1984.
4. Multiple-drug-resistant Trypanosomes in South Darfur Province, Sudan. Talk delivered to policy-makers at the headquarters of the Ministry of Animal Resources, Khartoum, Sudan.
5. Delivered a country report entitled “bovine trypanosomiasis in the Sudan” to the 19th meeting of the International Council for Trypanosomiasis Control Research, 23rd March to 7th April 1987, Lome, Togo.

Publications:

1. **Mohamed-Ahmed, M. M., & Dairri, M. F. (1987)** Trypanosome infection rate of *Glossina Pallidipes* at Mareery, Somalia. Trop. Anim. Hlth. Prod. 19, 11-21.
2. **Mohamed-Ahmed, M. M., Atta Elmannan, A. M. & Osman, O. M. (1988)** Phoretic mites on the horn fly *Haematobia minuta* (Diptera: Muscidae). Sudan J. Vet. Sci. Anim. Husb. 27, 31-34.
3. **Mohamed-Ahmed, M. M., (1989)** Distribution of tsetse in Kurmuk District, Blue Nile Province, Sudan. Sudan J. Vet. Sci. Anim. Husb. 28. 45-54.
4. **Mohamed-Ahmed, M. M., Ahmed, A. I. & Ishag, A. (1989)** Trypanosome infection rate of *Glossina morsitans submorsitans* in South Darfur Province. Trop. Anim. Hlth. Prod. 21, 239-244.
5. **Mohamed-Ahmed, M. M., Abdu Elkarim, E. I. & Rahman, A. H. (1992)** Multiple drug-resistant trypanosomes in South Darfur Province. Trop. Anim. Hlth. Prod. 24, 179-181.
6. **Mohamed-Ahmed, M. M., Otieno, I. H. and Muchiri. J. M (1992).** An evaluation of the suppression of *Glossina pallidipes* by the odour-baited insecticide-coated targets in the Lambwe Valley, Kenya. Tsetse control, diagnosis and chemotherapy using nuclear techniques.

- Proceeding of a seminar jointly organized by the International Atomic Energy Agency and the Food Agriculture Organization of the United Nations (FAO), Maguga, Kenya, 11-15 February 1991. Published IAEA-TECDOC-634-251.
7. **Mohamed-Ahmed, M. M.,** E. I. Abdel-Karim & A. H. A/Rahman (1992). A successful control of multiple-drug-resistant bovine trypanosome strains by Samorin chemotherapy in South Darfur. Sudan J. Vet. Res. 11, 15-27.
 8. **Mohamed-Ahmed, M. M.,** E. I. Abdel-Karim & A. H. Rahman. (1993). Reproductive status, age and catch compositions of a natural population of *Glossina morsitans submorsidans* in Bahr El Arab fly belt, Sudan. Insect Sci. Applic. 14, 445-453.
 9. **Mohamed-Ahmed, M. M.,** Otieno, L. H. and Muchiri, J. M. (1994). Effect of temperature on the ovarian development in the pupa of *Glossina pallidipes* Austen. Influence of temperature on the sequence of the first egg-follicle maturation. Insect Sci. Applic. 15, 367-270.
 10. **Mohamed-Ahmed, M. M.,** Otieno, L. H. and Muchiri, J. M. (1994). Effect of temperature on the ovarian development in the pupa of *Glossina pallidipes* Austen. Estimation of

- environmental temperature exposure of the pupa from the size of first egg -follicle Insect Sci. Applic. 15, 361-365.
11. **Mohamed-Ahmed, M. M.,** A. Odulaja & F. P. Oloo. (1994). Ecology of *Glossina fuscipes fuscipes* along Lake Victoria shores, Homa Bay District Western Kenya. Diel activity and host preferences. Proceedings the third International Conference on tropical Entomology, Satellite Meeting on Tsetse Behaviour and Ecology, 6th – 9th November, 1994, Mombasa, Kenya.
 12. **Mohamed-Ahmed, M. M.,** & Odulaja, A. (1997) Diel activity and host preferences of *Glossina fuscipes fuscipes* (Newstead) along the shores of Lake Victoria, Kenya. Bull. Ent. Res. 87, 176-186.
 13. **Mohamed-Ahmed, M. M.,** & Wynholds, Y. (1997) Effects of vegetation and weather on trap catches of *Glossina fuscipes fuscipes* near Lake Victoria, Kenya, Entomologia Exp. Applic. 85, 231-236.
 14. **Mohamed-Ahmed, M. M.,** (1998) Olfactory responses of *Glossina fuscipes fuscipes* (Diptera: Glossinidae) to the monitor lizard *Varanus niloticus niloticus*. Bull. Ent. Res. 88, 111-117.
 15. **Mohamed-Ahmed, M. M.,** & Mihok, S. (1999). Responses of *Glossina fuscipes fuscipes* (Newstead) (Diptera:

- Glossinidae) and other Diptera to carbon dioxide in linear and dense forests. Bull. Ent. Res. 89, 177-186.
- 16. Mohamed-Ahmed, M. M.** (2001). Parasites of Farm Animals in the Sudan (in Arabic). College of Veterinary Medicine and Animal Production, Sudan University for Science and Technology, G Town Pess, Khartoum, 320 PP.
- 17. Mohamed-Ahmed, M. M.,** Mohamed, Y. O. and El Rayah (2000). Responses of *Glossina fuscipes fuscipes* (Diptera: Glossinidae) to traps in Juba area, southern Sudan. In The 6th Annual Eastern Africa Network for Trypanosomosis (EANETT) Conference. 29th November-2nd December 2004, Khartoum, Sudan.
- 18. Mohamed-Ahmed, M. M.,** M. A. ABdulla Mohamed, Y. O. and El Rayah and El Dirdiri, Y. (2007) Trapability of periurban populations of horseflies (Diptera: Tabanidae) in Khartoum state, Sudan. Journal of Science and Technology 8, 46-65.
- 19.- Mohamed-Ahmed M. M.** (2007). Ecology of Tabanidae and Muscidae in the Sudan (Abstract). Proceedings of the 6th African Veterinary Association Conference, 7-9 December 2007, Khartoum , Sudan, p74.
- 20. Mohamed-Ahmed M. M.** (2007) Responses of Tabanidae And Muscidae (Diptera) to fresh and fermented host urines.

- Proceedings of the 6th African Veterinary Association Conference, 7-9 December 2007, Khartoum , Sudan, p75.
21. **Mohamed-Ahmed M. M.** (2007) Responses of Tabanidae and Muscidae (Diptera) to whole host odours. Proceedings of the 6th African Veterinary Association Conference, 7-9 December 2007, Khartoum , Sudan, p76.
22. Rahman, A. H., Abdel-Karim, E. I. and **Mohamed-Ahmed, M. M.** (1991). Studies on the natural resistance to tsetse-borne trypanosomiasis of some Sudanese Zebu cattle breeds. International Scientific Council for Trypanosomiasis Control Research (ISCRC). Twenty-first meeting, Yamoussoukro (Cote D'Ivoire) 1991, Publication No. 116. 165.
23. Rahman, A. H., Abdel-Karim, E. I. and **Mohamed-Ahmed, M. M.** (1997). The efficiency of chemotherapy and chemoprophylaxis in control of bovine trypanosomiasis in nomadic cattle of South Darfur Province. Sudan J. Vet. Sci. Anim. Husb. 36, 149-157.
24. Kitron, U and **Mohamed-Ahmed, M. M.** (1996). Spatial analysis of the distribution of tsetse flies in the Lambwe Valley, Kenya, using landsat TM satellite imagery and GIS. I. Anim. Ecol. 65, 371-380.
25. Odulaja, A. & **Mohamed-Ahmed, M. M.** (1997). Estimation

- of the absolute efficiency of the biconical trap for *Glossina fuscipes* Newstead along the Lake Victoria shore, Kenya. Entomolgia Expt. Applic. 82, 19-24.
26. Mohamed, Y. O., **Mohamed-Ahmed, M. M.** and El Rayah Factors influencing the incidence of sleeping sickness in Bahr El Gebel State, southern Sudan. In The 6th Annual Eastern Africa Network for Trypanosomosis (EANETT) Conference. 29th November-2nd December 2004, Khartoum, Sudan.
27. Suliman, T. A., Mohamed, Z. A., Rahman, A. H. and **Mohamed-Ahmed, M. M.** (2003) The pathology of *Trypanosoma vivax* isolated from foreign cattle breeds outside the Sudanese tsetse belt in Kenana calves. The Sudan Journal of Veterinary Research 18,56-63.
28. Mohamed, Y. O., **Mohamed-Ahmed, M. M.**, El Malik, K. H. and El Rayah, I. E. (in press) Distribution pattern of *Glossina fuscipes fuscipes* in Bahr El Jebel state, Southern Sudan. International Journal of Insect Science.