

# CURRICULUM VITAE

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## Personal Information

Mahmoud Musa Mahmoud Nationality : Sudanese Date of Birth : January 1941 Place of Birth : El Fashir, Darfur, Sudan [...]

Mahmoud Musa Mahmoud

Nationality : Sudanese

Date of Birth : January 1941

Place of Birth : El Fashir, Darfur, Sudan

Marital Status: Married, with one daughter

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## Education

Ph.D. (1970) Ohio State University, USA M.S. (1967) Ohio State University, USA  
B.V.Sc. (1964) University of Khartoum with merits in [...]

Ph.D. (1970) Ohio State University, USA

M.S. (1967) Ohio State University, USA

B.V.Sc. (1964) University of Khartoum with merits in Parasitology and Pharmacology and prizes in Parasitology, Pharmacology and Pathology and Best Performance.

Sudan School Certificate (Division One) Khor Taqqat Secondary School (1959)

## Research

- Team Leader, Sudan National Council for Research Project on Human and Animal Trypanosomosis (Project No. ARC/MA9), 1975-1979. – Post-Ddoctoral [...]
- Team Leader, Sudan National Council for Research Project on Human and Animal Trypanosomosis (Project No. ARC/MA9), 1975-1979.
- Post-Ddoctoral Fellowship, Research Centre for Tropical Veterinary Medicine (C.T.V.M), University of Edinburgh (1978)-1979).
- Consultant for DANIDA (Denmark) at Sokoine University of Agriculture, Faculty of Veterinary Medicine Morogoro, Tanzania (1998) for M.V.Sc. courses.
- Scientists and Researcher, ILRAD (Nairobi) Kenya, March-April 1990.
- Author of more than 35 published research papers – still actively publishing.

## Research Publications

a. Thesis: 1. Mahmoud, M.M. (1967). M.S. Thesis (The Ohio State University entitled: “The host range and the effect of [...]

a. Thesis:

1. Mahmoud, M.M. (1967). M.S. Thesis (The Ohio State University entitled: “The host range and the effect of splenectomy on the host range and course of infection with *Babesia rodhaini*”.

2. Mahmoud, M.M. (1970). Ph.D. Thesis (The Ohio State University) entitled: “Studies on the stable antigens of African Trypanosomes: serodiagnosis of *Trypanosoma congolense* infection of rabbits by the latex fixation test. Dissertation Abstracts International (1971) 32B. No. 629.

b. Published Scientific Papers:

1. Mahmoud, M.M. and Kreier, J.P. (1970). Serodiagnosis of *T. congolense* infection of rabbits by the latex fixation test. 51st Conference of Research Workers in animal diseases, Chicago, Illinois, USA, Nov. 30 – Dec.1, 1970.

2. Mahmoud, M.M. and Kreier, J.P. (1972). *Trypanosoma congolense*: Latex fixation test for diagnosis of rabbit infection. *Expt. Parasitol.* 32: 1, 109-119.

3. Mahmoud, M.M. (1973). Splenectomy and experimental babesiosis. Sudan J. Vet. Sci. Ani. Husb. 15: 1, 15-23.
4. Mahmoud, M.M. and Malik, K.H. (1974). Infectivity of *Trypanosoma congolense* to the Nile rat (*Arvicanthis niloticus testicularis*) and its separation by DEAE – cellulose. Sudan. J. Vet. Sci. Ani. Husb., 15: 1, 384-41.
5. Mahmoud, M.M. (1976). Human trypanosomiasis in the Sudan. Medical Atlas of the Sudan. Medical Research Council, Sudan, National Council for Research.
6. Luckins, A.G.; Boid, R. Mahmoud, M.M.; El Malik, K.H.; Rae, P. and Gray, A.R. (1977). Serodiagnosis of infection with *T. evansi* in the Sudan. Exhibit 27, 18th Seminar on Trypanosomiasis Research, London School of Hygiene and Tropical Medicine, Sept. 22-3 (1977). Trans. Roy. Soc. Trop. Med. Hyg. 72: 122.
7. Mahmoud, M.M. and El Malik, K.H. (1977). Trypanosomiasis: Goats as a possible reservoir of *Trypanosoma congolense* in the Republic of Sudan. Trop. Anim. Hlth. Prod. 6: 167-170.
8. Mahmoud, M.M. (1978). The contribution of research to the development of animal wealth in southern Darfur. 1st Agricultural Conference, Nyala Southern Darfur, Sudan, Feb. 18-21, 1978 (in Arabic).
9. Mahmoud, M.M. and El Malik, K.H. (1978). Properties and pathogenesis of *Trypanosoma congolense*, *T. vivax* and *T. evansi* in the Sudan. Sudan J. Ve. Sci. Anim. Husb. 19: 1, 47-57.
10. El Malik, K.H. and Mahmoud, M.M. (1978). Experimental *T. congolense* and *T. evansi* infections: diagnosis by the immunofluorescent antibody test. Sudan Vet. Sci. Anim. Husb. 19: 1, 47-57.
11. Luckins, A.G.; Boid, Rae, P.; Mahmoud, M.M.; El Malik, K.H. and Gray, A.R. (1979). Serodiagnosis of infection with *T. evansi* in camels in Sudan. Tropical Animal Health and production III.
12. Gray, A.R.; Mahmoud, M.M.; Boid, R.; Luckins, A.G.; El Malik, K.H. and Rae, P. (1979). Epidemiological studies on *T. evansi* in Sudan. Trans. Roy. Soc. Med. Hyg. 73: 2, 136-137.
13. Mahmoud, M.M. and Cunningham, I. (1979). In vitro cultivation of *T. evansi* OAU/STRC/ISCTRC (International Scientific Council for Trypanosomiasis Research and Control), 16th meeting, Oct. 29 – Nov. 3, 1979, Yaoundé, Cameroon.
14. Mahmoud, M.M. and Osman, O.M. (1979). Trypanosomiasis of Sudan camels. Workshop on Camels in the Sudan, Dec. 18 – 20, 1979. IFS (Sweden): Provisional Report No. 6 “Camels” pp. 431-439.

15. Boid, R.; Luckins, A.G.; Rae, P.; Gray, A.R.; Mahmoud, M.M. and El Malik, K.H. (1980). Serum immunoglobulin levels and electrophoretic patterns of serum proteins in camels infected with *T. evansi*, *Vet. Parasitol.* 6, 333-340.
16. Boid, R.; Mahmoud, M.M. and Gray, A.R. (1980). Changes in the levels of some serum enzyme in dromedary camels infected with *T. evansi*, *Research I Vet. Sci.* 28: 336-340.
17. Mahmoud, M.M. and Gray, R.R. (1980). Trypanosomiasis due to *T. evansi* (steel, 1885) Balbiani, 1885, A review of recent research. *Trop. Anim. Hlth. Prod.* 12, 35-47.
18. Homeida, A.M.; El Amin, E.A.; Adam, S.E.I. and Mahmoud, M.M. (1980). The effect of Samorin (Isometamedium chloride) on *T. evansi* in mice, *Br. J. Exp. Path.* 16: 380-389.
19. Boid, R.; El Amin, E.A.; Mahmoud, M.M. and Luckins, A.G. (1981). *T. evansi* infection and antibodies in goats, sheep and camels in the Sudan. *Trop. Anim. Hlth. Prod.* 13, 141-146.
20. Homeida, A.M.; El Amin, E.A.; Adam, S.E.I. and Mahmoud, M.M. (1981). Toxicity of diminazene aceturate (Berenil) to camels. *J. Comp. Path.* 91, 335-360.
21. Hajer, I. and Mahmoud, M.M. (1982). Animal disease reporting in Sudan: A critical evaluation and a proposed system, *Sudan. J. Vet. Sci. Anim. Husb.* (1983).
22. El Amin, E.A.; Homeida, A.M.; Adam, S.E.I. and Mahmoud, M.M. (1982). The efficiency of diminazine aceturate (Berenil) against *Trypanosoma evansi* infection in mice. *J. Vet. Pharmacology and Therap.* 5: 259-565.
23. Mahmoud, M.M. (1988). Presiding chairman's opening and closing addresses. 10th Annual Medical KEMRI/KETRI Scientific Conference, Nairobi, Kenya, Feb. 6-10.1988.
24. Mahmoud, M.M. (1990). Chairman's keynote Address – "Conference on drug strategies for the control" of Animal Trypanosomiasis in the Sudan. Sudan Veterinary Association/Rhone Merrieux. 17-19 December 1991, Khartoum Sudan.
25. Mahmoud, M.M.; Rahman, A.H.; Malik, K.H.; Musa, M.M. and Ismail, A.A. (1991). Animal Trypanosomiasis: The situation in the Sudan. OAU/STRC/ SCTRC 21st Meeting, Yamoussoukro, Cote d'Ivoire, 21-25 October, 1991.
26. Ismail, A.A.; Mohmoud, M.M.; Ahmed, M.M.; Karim, E.I.; Malik, K.H. and Musa, M.M. (1991). Drug strategies for the control of animal trypanosomiasis in the Sudan. OAU/STRC/ISTRRC Meeting, Yamoussoukro Cote d'Ivoire, 21-25 October, 1991.

27. Gardiner, P.R. and Mahmoud, M.M. (1992). Salivarian trypanosomes causing diseases in livestock outside sub-Saharan Africa. In Parasitic Protozoa Vol. II 2nd ed. J.P. Kreier and J. Baker, editors, Academic Press, 1992, 277-314.
28. Logan-Henfrey, L.L.; Gardiner, P.R. and Mahmoud, M.M. (1992). Animal trypanosomiasis in sub-Saharan Africa, in: Parasitic Protozoa Vol. II 2nd ed. J.P. Kreier and J. Baker, editors. Academic Press, 1992, 157-276.
29. Ali, N.A.; Mahmoud, M.M. and Mohammed, A.M. (1996). Trials on preservation of viable cysticercoids of *Raillientina tetragona* in the laboratory. Sud. J. Vet. Sci. Anim. Husb. (in press).
30. Mahmoud, M.M.. *Trypanosoma evansi* in Sudan: An overview of current research and evaluation of its impact on Sudan camel wealth and husbandry – RCPMI – Obihiro/OIE – Paris International symposium on strategies for research and control of surra trypanosome infection RCPMI, Obihiro University, Obihiro, Japan 19-22 August 1998.
31. Mahmoud, M.M. (1998). The impact of drought on the seasonal migration pattern of the Rizeigat camel owning tribes in and outside Northern Darfur States, Sudan. Conference on Africa and Globalization, University of Bayreuth, Germany, October 8-10, 1998.
32. Bakri, E.I. and Mahmoud, M.M. (2007). The effect of the drug Cymelarsan on *Trypanosoma evansi* in rabbits Sud. J. Vet. Sci. Anim. Husb. (in press).
33. Khidir, S.A. and Mahmoud, M.M. (2007). Blood and gastrointestinal parasites of local indigenous chicken breeds. Sud. J. Vet. Sci. Anim. Husb. (in press).
34. Ali, R.A.M. and Mahmoud, M.M. (2007). Susceptibility of goats to *Trypanosoma evansi* infection. Sud. J. Vet. Sci. Anim. Husb. (in press).

#### Varied and Diversified Experience

1. Chairmanship of two agricultural schemes in North Darfur (Sagel Naam and Kebkabya). This method policy making, management, production and sale of produce.
2. Chairmanship of various technical committees studying priorities of development strategies for Darfur.
3. Crisis management during the turmoil in the Southern Sudan and Darfur and participation in the conflict resolution.
4. As a legislator, participating for 13 years as a parliamentarian and chairman of a parliamentary committee, Sudan National Assembly on Education and Scientific Research.

5. University administration which entailed promotion of university objectives, management of budgets, personnel, recruitment of teaching and technical staff and higher education and research development and capacity building for a period of 8 years (1987-1992) and (1997-1999).
6. Promotion of community participation and training of cadres and resolution of community problems.
7. Political awareness and active participation in national politics.
8. International exposure to foreign experiences around the globe as may be seen in the detailed C.V. this includes, scientific and research collaboration with other scientists and institutes.
9. Capacity building including institutional development, community participation and human resources development and strengthening of managerial systems.
10. Member preparatory committee on Darfur – Darfur Dialogue and consultation (Article 31-Darfur Peace Agreement DPA).
11. Member of D-JAM and Track II Launch Workshop Nairobi, 27 June, 2006 as education and basic services consultant.
12. Chairman, technical committee to rehabilitate and revive Sagel Naam Agricultural Project, North Darfur (2008).

Prof. Mahmoud Musa Mahmoud

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## **Employment and Positions Held**

- Vice Chancellor, Al Fashir University (1997 – 1999) – Professor of Preventive Veterinary Medicine, University of Khartoum (1983-today) – [...]
- Vice Chancellor, Al Fashir University (1997 – 1999)
- Professor of Preventive Veterinary Medicine, University of Khartoum (1983-today)
- Vice Chancellor, University of Juba, Juba, Sudan (1987-1999)
- Head, Department of Preventive Medicine and Veterinary Public Health, Faculty of Veterinary Science, University of Khartoum (1974-1978), (1985-1987).

- Professor Preventive Medicine, Faculty of Veterinary Medicine, Al Fateh University, Tripoli, Libya (1981-1984).
- Post Doctoral Fellow, Department of Tropical animal Health, CTVM, University of Edinburgh (1978-1979), UK.
- Associate Professor, University of Khartoum (1978-1982).
- Acting Dean, Faculty of Veterinary Science, University of Khartoum (1978).
- Acting Dean of Students, University of Khartoum (1977-1978).
- Deputy Dean of Students, University of Khartoum (1977-1978).
- Member of Senate, University of Khartoum (1975-1987; 1991-2000) to date-2008.
- Representative of Faculty of Veterinary Science and Board Member in University Teaching Hospital's Board at Soba (1977-1978), University of Khartoum.
- Representative of Faculty of Veterinary Science in University of Khartoum Technicians Board (1975-1976).
- Lecturer, Department of Preventive Medicine and Veterinary Public Health, University of Khartoum (December, 1970-1978).
- Teaching Assistant, Department of Microbial and Cellular Biology, Research Associate and Instructor for USDA Processed Food inspectors' Courses (1967-1970) in Ohio State University, Columbus, Ohio, USA.

## **Membership in Scientific and Research Institutions**

- Member, Sudan Veterinary Medical Council (1995-1997). – Member, World Veterinary Educators Committee, O.I.E., Paris (1993-1997) – Editor in Chief, [...]
- Member, Sudan Veterinary Medical Council (1995-1997).
- Member, World Veterinary Educators Committee, O.I.E., Paris (1993-1997)
- Editor in Chief, Sudan Journal of Veterinary Science and Animal Husbandry (1993-1997).
- President, Sudan Veterinary Association (1993-1997).
- Member, Sudan National Council for Research Board (1988).
- Member, Sudan Council for Higher Education Board (1989).

- Member, Sudan Council on Curriculum of General Education Board (1999).
- Member, United States Animal Health Association (1978).
- Member, Edinburgh University C.T.V.M. Club (1978).
- Member, Technical Committee for the Establishment of Darfur University College (1975-1976).
- Member (founding), Sudan Veterinary Association Residence.
- Member, Sudan Veterinary Association (1964 to date).
- Member, Executive Committee of Arab Veterinary Association and Assistant Secretary General for Scientific Research (1993-1997).
- Member OIE Ad hoc Committee on World Veterinary Education, Paris.
- Member, OIE (Paris) Ad hoc Committee on Non-Tsetse Transmitted Animal Trypanosomosis (1993-to date).
- Member, Research Committee on Agriculture, Veterinary, Natural Resources and Environmental Studies, Ministry of Higher Education and Scientific Research (2008).

## **Post Graduate Supervision**

Supervised, graduated and examined considerable numbers of MVSC, M.S. and Ph.D. students, mainly in the University of Khartoum on vector-borne [...]

Supervised, graduated and examined considerable numbers of MVSC, M.S. and Ph.D. students, mainly in the University of Khartoum on vector-borne parasitic infections, immunology and poultry internal parasites, tick borne disease and zoonosis.

## **Scientific Travels and Visits**

- Surveys for diseases all over Sudan since graduation in 1964 to date. – Graduate Studies in the USA during [...]
- Surveys for diseases all over Sudan since graduation in 1964 to date.
- Graduate Studies in the USA during 1965-1970. A study period for both M.S. and Ph.D.
- Visited U.K. Scientific Institutes: London School of Hygiene and Tropical Medicine, Lister Institute, Mill Hill, Agricultural Research Councils in Ascot and Compton,

Universities of Edinburgh, Glasgow, Liverpool, Manchester, Bristol, Cambridge (Molteno Institute) and Sanford University (1975, 1976, 1978, 1982).

- Scientific Consultant to DANIDA in Sokoine University, Tanzania.

i) Participation in International Scientific Conferences:

- Presiding Chairman, KETRI-KEMRI 10th Annual Medical Scientific Conference, Nairobi, Kenya, Feb. 6 – 10, 1988.

- Chairman Conference on Drug Strategies, jointly organized by Sudan Veterinary Association and Rhone Merrieu (17-19 Dec. 1990), Khartoum.

- Conference on Tsetse Traps and Targets, KETRI, Muguga, Kikuyu, Kenya.

- OAU/IBAH/ISCRTC Conference to Trypanosomosis Research and Control, Yammosukuro, Ivory Coast, 21-25 October 1991.

- OAU/IBAH/ISCRTC Conference to Trypanosomosis Research and Control, Yaounde, The Cameroon 29 October – 3 November 1979.

- Trypanosomosis Seminar, No. 18 (1977), London.

- Conference of Research Workers in Animal Diseases, Chicago, Illinois, USA, November – December 1/1970.

- USA, International Visitors Programme (USIA), Feb. – March, 1989.

- Bayreuth University, Germany, Conference on Globalization in Africa, October, 10-12, 1998.

j) Conferences of University Presidents, Vice Chancellors and Rectors:

Arab Universities: (As Vice Chancellor)

Sana'a, Yemen February 1988

Nouakchott, Mauritania February 1989

Benghazi, Libya February 1990

Doha, Qatar November 1991

Sana'a, Yemen February 1997

Suez, Egypt February 1998

Amman, Jordan April 1999

African Universities: (As Vice Chancellor)

Cairo, Egypt January-February 1989

Accra, Ghana November 1990

Arusha, Tanzania February 1999

International Universities: (As Vice Chancellor)

International Union of Universities, Helsinki, Finland, August 1990.

k) Professional Activities and Participations as President of Sudan Veterinary Association:

- Baghdad/Iraq 6th Arab Veterinary Conference November 1993
- Paris/France World Veterinary Association, May 1994
- Amman/Jordan Arab Veterinary Association, October 1994
- Irbid/Jordan Arab Veterinary Association, April, 1995
- Yokohama/Japan, World Veterinary Conference September 1995
- Paris OIE Ad hoc Committee on NTTAT 1995, 1996, 1997, 1998, 2001-2007
- Cordoba/Spain, Arab-European Veterinary Conference, November, 1996
- Arab Veterinary Association Conference, November, 1996, Sana'a, Yemen
- Obihiro/Japan, Conference on T. evansi control, August, 19-22, 1998.
- Namibia/World Veterinary Association, 1997.

l) Other Activities:

- World Bank Consultant on Basic Education, Track II (Abuja Agreement, 2006 to date)

## **Teaching and Research Activities**

- Taught epidemiology, prevention and control of infectious diseases due to protozoa, helminths, bacteria, rickettsia, viruses and ectoparasites affecting animal [...]

- Taught epidemiology, prevention and control of infectious diseases due to protozoa, helminths, bacteria, rickettsia, viruses and ectoparasites affecting animal production, with special emphasis on haemotropic diseases such as Trypanosomosis, Theileriasis and Babesiosis and camel diseases.
- Taught human trypanosomosis at the Institute of Tropical Medicine, Sudan National Council for Research – a post-graduate course (1977).
- Taught Parasitology at the Institute for Medical Laboratory Technology, University of Khartoum (1975-1978).
- Trained assistant research officers from the Sudan Central Veterinary Research Laboratories, Soba, on techniques in Trypanosomosis and haemoprotozoan infections (1978).
- Taught Zoonosis in the Academy of Medicine and Technology, Khartoum.
- Taught M.S. Courses in Tropical Veterinary Animal Health, University of Khartoum, Masters degree course (2005-to-date).