

CURRICULUM VITAE

PERSONAL INFORMATION

Name (surname first): - **Modu**, Mallam Bako (Ph. D.)
Name otherwise called at secondary school: Adamu Baba (Bako)
Date of birth: - 31st December, 1965
Place of birth: - Gajiram
Local Government Area: - Nganzai
State of origin: - Borno
Blood group: - 'A' positive
Marital status: - Married, spouse with six children (Maryam, Fatima, Hauwa, Muhammad-Mustapha, Muhammad-El Amin and Ibrahim-Wulet)



CORRESPONDING ADDRESS: University of Maiduguri, Faculty of Agriculture,
Department of Fisheries. P. M. B. 1069, Bama Road,
Maiduguri. Borno, State.

Email address mammadu09@gmail.com; bakommodu@yahoo.com

G. S. M. 0803467 1898; 08183110930; 07083612932; 08054920754

Professional Membership: i) Fisheries Society of Nigeria (FISON: PM 1780)
ii) Asian Fisheries Society, Malaysia (NI: 2011S001)
iii) 1st State Chairman FISON (Borno 2016 to date)

EDUCATIONAL BACKGROUND:

A. HIGHER INSTITUTIONS ATTENDED WITH DATES

- 1) Institute of Tropical Aquaculture, Universiti Malaysia Terengganu, Poskod 21030, Kuala Terengganu, Darul Iman: from July 2009 to July 2013. **Ph. D. Aquaculture (Fish Health).**
- 2) Institute of Aquaculture, University of Stirling, Stirling, Scotland, FK9 4LA, Tel: +44(0) 1786 467878; Fax: +44 (0) 1786 472133, the UK. From: September 2003 to August 2004; **M.Sc. Aquaculture (Water quality & Aquatic Ecology)**
- 3) University of Maiduguri, Biological Sciences Department, Faculty of Sciences From: 1992-1998; **B.Sc. (Hons) Zoology**, NYSC- Exempted.
- 4) Federal Fresh water Fisheries School, Baga, L.C.R.I, P.M.B 1293 Maiduguri, from: 1986-1988; **OND Fisheries Management.**
- 5) Federal College of Fresh water Fisheries Technology, New-Bussa, Niger State; from: 21st September to 3rd October 1992; **Certificate of Intensive Senior Level Aquaculture Training**, on improved management practices for Aquaculture.

- 6) B. B. Computers, No: 6 ShehuLaminu Way Post office Round about, P. O. Box 530 Maiduguri Borno State, Nigeria. **Diploma in Computer**, November 2004.

B. SECONDARY SCHOOL (S) ATTENDED WITH DATES

- 1) Government Technical Secondary School Damagum, (now Yobe State). 1978-1980
- 2) Government Science Secondary School Potiskum, (now Yobe State). 1980-1983

C. PRIMARY SCHOOL (S) ATTENDED WITH DATES

- 1) Gajiram Central Primary School, Nganzai L.G.A. Borno State, 1972-1974
- 2) Lamisula Primary School, Maiduguri Metropolitan, L.G.A. Borno State, 1974-1975
- 3) Damagum Central Primary School Damagum, Fune L. G. A. (now Yobe State) 1975-1977
- 4) Kayeri Primary School Kayeri, Fune L. G. A. (now Yobe State) 1977-1978

WORKING EXPERIENCE

Present status:Senior Lecturer (SL)Promotion to Associate Professor/Reader (2017) in View [Academic Experience: **17 years**; 1999to date]

- 1) Senior Lecturer, Department of Fisheries, Faculty of Agriculture, University of Maiduguri, PMB 1069, Maiduguri, Borno State, Nigeria. 29thOctober 2007 to date.
- 2) Examination and Time Table Officer (Fisheries Dept.) 17th January 2014 to date; Postgraduate Coordinator (Fisheries Dept.) 22nd September, 2014 to date; Postgraduate Representative (Biological Sciences Dept.). 1st December, 2014 to date.
- 3) Head of Agricultural Technology Department (**H.O.D&Senior Lecturer**) MohametLawan College of Agriculture Maiduguri, From August 2005 to October 2007.
- 4) Ministry of Agriculture, Zonal office Gashua; as special assistance on fisheries data collection and monitoring: North-East Arid Zone Development Programme (NEAZDP); from April-October 1991.
- 5) Seconded from Ministry of Agriculture to Borno State Agricultural Development Programme (BOSADP) as Research officer in fisheries component from October 1991 to 1998. Later subject matter specialist (SMS FISH) Kukawa Zone III. Deployed back to Ministry and posted to Borno (MohametLawan) College of Agriculture as Lecturer, from August 1999.
- 6) Ministry of Agriculture Fisheries Section Bama; as fisheries superintendent from April 1989 to October 1991.

- 7) Haskoning Engineering Consultants Nigeria Ltd Maiduguri; from 1984 as a field and office clerk.

Project/Dissertations/Thesis

1. Ecology of Monogeneans on the Gills of Two Species of Freshwater Fishes In Relation To the Water Quality in Kenyir Lake, Terengganu, Malaysia. Ph.D. (Aquaculture) Thesis, Institute of Tropical Aquaculture, Universiti Malaysia, Terengganu (2013).
2. Preliminary investigation into carbon dioxide (CO₂) level in an Atlantic cod (*Gadus morhua* L) Hatchery. M.Sc. (Aquaculture) Thesis, Institute of Aquaculture, University of Stirling, FK9 4LA, Scotland, UK (2004).
3. Comparative Morphometric Studies of Tilapias (*Cichlidae*) of Lake Alau. BSc. Hon. (Zoology) Project. Department of Biological Sciences, University of Maiduguri (1998).
4. Fish Species Composition of Artisanal Fishermen Catches In Dadin-Kowa, Bauchi State. OND (Fisheries and Aquaculture Management) Project, Federal Freshwater Fisheries School, Baga, Maiduguri (1988).

PROFESIONAL ACHIEVEMENT:

Discovery of a **NEW SPECIES** of Fish gill parasite: Monogenea (*Dactylogyrus terengganusis* n. sp) from a cyprinids fish (*Hampala macrolepidota*) in two tributaries of Kenyir Lake, Malaysia. Details in Current Research Journal of Biological Sciences, 4 (4) 488-491 at <http://.Maxwellscientific.org.com>

PUBLICATIONS:

- 1) **Modu, B. M.** (2005). Comparative Morphometric Studies of Tilapias (*Cichlidae*) of Lake Alau, Borno State. *Journal of Arid Zone Fisheries Vol. 2. No. 12005*, pp. 43-51.
- 2) **Modu, B. M.**, O. D. Sule, & N. O. Bankole, (2006). Fish Species Composition of Artisanal Fishermen Catches in Lake Alau, Borno State Nigeria, *Agrosatellite Journal Vol. 1 No: 3* pp. 56-62.
- 3) A. Usman, **B. M. Modu** and Y. U. Paiko (2009). Assessment of Water Quality Parameters in Lake Alau. *Proceedings of the 24th Annual Conference of the Fisheries Society of Nigeria. Vol 2:149-152.*
- 4) M. Y. Diyaware, **B. M. Modu** & U. P. Yakubu (2009). Effect of different dietary protein levels on growth performance and feed utilization of hybrid catfish

- (*Heterobranchus bidorsalis* *Clarias anguillaris*) fry in north-east Nigeria. *African journal of biotechnology* vol. 8 (16)3954-3957.
- 5) **Modu, B. M.** (2009). Towards an Efficient Water Quality in Fish Farming in the Arid Zone (**Book Chapter 18**) In *Issues in the Geography of Borno State Vol I*. Ed Waziri, M., Kagu, A., & Monogonu, A. K.
 - 6) Usman, A., **Modu, B. M.** and Paiko, Y. U. (2011). Assessment of Some Water Quality Parameters in Lake Alau Borno State, North Eastern Nigeria. *Nigerian Journal of Fisheries Science and Technology*. 2(1): 28-33.
 - 7) **Modu, B. M.**, M. F. Saiful, M. Kartini, Zaleha Kassim, Marina Hassan & F. M. Shaharom-Harrison. (2011). Impact of Monogenean Parasite in Relation to Water quality Effects on the Structural changes in the Gills of Freshwater Cat Fish, *Hemibagrus nemurus* Valenciennes 1840 University Malaysia Terengganu annual seminar (UMTAS 2011), Permai hotel Kuala Terengganu, Malaysia 11-13 July 2011. Available on www.umt.edu.my/umtas2011/pernerbitumt_pp74-80) LS 017
 - 8) **Modu, B. M.**, M. F. Saiful, M. Kartini, Zaleha Kassim, Marina Hassan & F. M. Shaharom-Harrison. (2012). Spatial Distribution of Monogenean and their Prevalence in Two Freshwater Fish Species in Relation to some Physico-chemical Parameters of Lake Kenyir, Malaysia. (*Journal of Sustainability Science & Management* 7 (2) 179-185).
 - 9) **Modu, B. M.**, M. F. Saiful, M. Kartini, Zaleha Kassim, Marina Hassan & F. M. Shaharom-Harrison. (2012). Effects of Water Quality and Monogenean Parasite in the Gills of Freshwater Cat Fish, *Hemibagrus nemurus* Valenciennes 1840. (*Current Research Journal of Biological Sciences*, 4 (3) 242-246
 - 10) **Modu, B. M.**, M. F. Saiful, Zaleha Kassim, Marina Hassan & F. M. Shaharom-Harrison. (2012). A New Species of Gill Monogenea (*Dactylogyrus terengganensis* n. sp) from *Hampala macrolepidota* Van Hasselt & Kuhl 1823 (Cyprinidae) in Sungai Kiang and Tanjung Mentong, Kenyir Lake: Malaysia. (*Current Research Journal of Biological Sciences*, 4 (4) 488-491
 - 11) **Modu, B. M.** (2012). Ecology and Physico-chemical Analysis of Kenyir Lake: In *Fish Parasites of Lake Kenyir, Peninsular Malaysia*. Ed Shaharom F. 2012. (**Book Chapter 1**). <http://www.umt.edu.my/pernerbitumt>
 - 12) **Modu, B. M.**, Suzanne, A. (2012). Platyhelminthes: Monogenea: In *Fish Parasites of Lake Kenyir, Peninsular Malaysia*. Ed Shaharom F. 2012. (**Book Chapter 4**). Pernerbit UMT. <http://www.umt.edu.my/pernerbitumt>.
 - 13) Biu, A. A., Gwana, A. M., **Bako, M. M.**, Basse, E. E., Bagudu, B. Y., Bukar-Kolo, Y., Sadiq, A. B., Mustapah, U. M., and Abdullahi, M. M. (2014). Survey on the

- awareness of schistosomosis infections in Gomboru-Ngala, North-Eastern Nigeria. *European journal of Preventive Medicine*.2 (5) 69 – 80.
- 14) Gwana, A. M., **Bako, M. M.**, Auwal, M. S., Bagudu, B. Y., Kadai, K. I., Sadiq, A. B., Halima, M. B. (2014). Physico - microbiological and chemical examination of domestic water used by the college of Agriculture community, Maiduguri, North-Eastern Nigeria. *International Journal of Science, Technology and Society*2 (4) 63 – 68.
 - 15) Gwana, A. M., **Bako, M. M.**, Bagudu, B. Y., Sadiq, A. B., Abdullahi, M. M. (2014). Determinations of phytochemical, vitamin, mineral and proximate compositions of varieties of watermelon seeds cultivated in Borno State, North – Eastern Nigeria. *International Journal of Nutrition and Food Sciences* 5 (4) 238 – 245.
 - 16) Abubakar AbdullahiBiu, Gwana Adamu Mohammed, Bukar-Kolo M. Yachilla, **Bako M. Modu**, UmaruBuba Wakil, Abdullahi M. Mai, Ali Abba GanaBenisheikh, Adarju M. B. (2015). Effects of Sorting on Cannibalism in Catfish (*Clarias gariepinus*) Rose in Concrete Tanks in Maiduguri, North-Eastern Nigeria. *Animal and Veterinary Sciences*3 (2): 67-73. doi: 10.11648/j.av.s.20150302.16.
 - 17) **Modu, B. M.**, Zaleha, K., and Shaharom-Harrison, F. M. (2014). Water Quality Assessment Using Monogenean Gill Parasites of Fish in Kenyir Lake Malaysia. *Nigerian Journal of Fisheries and Aquaculture*. 2 (1) 39-49.
 - 18) **Modu, B. M.**, Zaleha, K., and Shaharom-Harrison, F. M. (2016) Monogenean Parasites As Bioindicator for Water Quality Status in Two Cultured Pond Fish Species in Perlok, Malaysia. *Nigerian Journal of Fisheries and Aquaculture*. 4 (1) 14-21.
 - 19) **Modu, B. M.** (2016). Fish Health Management. *Fish farming Training Manual for youths in Borno State, Nigeria.* (**Book Chapter, 9**) Organized by Federal Government of Nigeria in Collaboration with Federal College of Freshwater Fisheries Technology, Baga, Borno State, Nigeria (Ed) M. Y. Diyaware, R. A. Obande & M. B. Mshelia.
 - 20) Umar, A., **Modu, B. M.** Abdullahi, A., James, T., Ahmed, A., Abubakar, U., Kucheli, M., Harira, G. and Ibrahim, I. (2017). Studies on the Toxicity of Crude and Refined Oil on Nile Tilapia (*Oreochromis niloticus* L), *Nigerian Journal of Fisheries and Aquaculture* 5 (1): 51 – 55.
 - 21) **B. M. Modu.**, A. Usman, A. Zaleha K, Shaharom-Harrison F. M. and M. H bin H. Mahmud (2017). Prevalence of Monogenean Gill Parasites of Two Pond-Cultured Fish Species in Perlok, Malaysia. *Nigerian Journal of Fisheries and Aquaculture* 5 (1): 63 – 73
 - 22) Hassan M., **Modu M. B.**, Mohammed A. A. (2017). Effects of Water Melon (*Citrullus Lanatus*) on Growth Performance of *Oreochromis Niloticus* (L) Fingerlings

CONFERENCE PRESENTATIONS.

- A. Usman, B. M. Modu and Y. U. Paiko (2009).** Assessment of Water Quality Parameters in Lake Alau. *Proceedings of the 24th Annual Conference of the Fisheries Society of Nigeria. Vol 2:149-152.*
- Modu, B. M., M. F. Saiful, M. Kartini, Zaleha Kassim, Marina Hassan & F. M. Shaharom-Harrison (2010).** Spatial distribution of monogenean and their prevalence in two freshwater fish species in relation to some physico-chemical parameters of Lake Kenyir, Malaysia. National Postgraduate Seminar 2010 (NPS, 30th Dec. 2010). **Poster Presentation.**
- Modu, B. M., M. F. Saiful, M. Kartini, Zaleha Kassim, Marina Hassan & F. M. Shaharom-Harrison. (2011).** Impact of Monogenean Parasite in Relation to Water quality Effects on the Structural changes in the Gills of Freshwater Cat Fish, *Hemibagrus nemurus* Valenciennes 1840 University Malaysia Terengganu annual seminar (UMTAS 2011), Permai hotel Kuala Terengganu, Malaysia 11-13 July 2011. **Oral Presentation.**
- Modu, B. M., M. F. Saiful, M. Kartini, Zaleha Kassim, Marina Hassan and F. M. Shaharom-Harrison. (2011).** Prevalence of Gill Monogenean (*Dactylogyrus* Diesing 1850) from *Hampala macrolepidota* in Sungai Kiang and Tanjung Mentong, Tasik Kenyir: Malaysia 1st international fisheries symposium (IFS, 2011), Permai hotel Kuala Terengganu, Malaysia, 3rd-5th October 2011. **Oral Presentation.**
- Modu, B. M., M. F. Saiful, Zaleha Kassim, Marina Hassan and F. M. Shaharom-Harrison. (2011).** *Dactylogyrus macrolepidoti* (monogenea: *Dactylogyridae*) as bioindicator of water quality: evidence from field survey. The Third International Symposium on Cage Aquaculture in Asia 2011 (CAA3 2011), held on 16 – 19 November 2011; in Putra World Trade Centre (PWTC), Kuala Lumpur, Malaysia. **Oral Presentation.**
- Modu, B. M., Zaleha, K., and Shaharom-Harrison, F. M. (2014)** Monogenean Parasites As Bioindicator for Water Quality Status in Two Cultured Pond Fish Species in Perlok, Malaysia. Fisheries Society of Nigeria (FISON) 29th Annual Conference (Markurdi 2014) 24th - 29th November 2014. **Oral Presentation.**

A. Usman., A. I. Gamawa, and **B. M. Modu** (2017). Water quality of Waste Reservoir in Nigerian Bottling Company for Aquaculture, Maiduguri, Nigeria. *Multi-Disciplinary International Conference on "Integration of Science, Social Science, Humanities and Technology in Curreent Scenario: The Global Perspectives"* Organized by VidyaVikas Education Society 22nd April 2017. Mumbai, India.

REFEREE (S)

- 1) Professor. Bulama Kagu (Dean PG Unimaid) University of Maiduguri, P.M.B 1069 Borno State, Nigeria.
- 2) Professor. ShettimaUmaraBulakarima (Director,Centre for Distance Learning Unimaid), University of Maiduguri, P.M.B 1069 Borno State, Nigeria.
- 3) Alhaji Mustapha Umar, No: 59, 3 Bedroom Gujba Road Housing Estate, P. O.Box 406, Damaturu, Yobe State, Nigeria.