

# CURRICULUM VITAE

## 1.0 PERSONAL DETAILS:

**NAME:** CHACHA MWITA, PhD.  
**NATIONALITY:** TANZANIAN.  
**DATE OF BIRTH:** 23<sup>rd</sup> SEPTEMBER 1969.  
**PLACE OF BIRTH:** TARIME, TANZANIA.  
**MARITAL STATUS:** MARRIED  
**DEPARTMENT:** AQUATIC SCIENCES AND FISHERIES  
**COLLEGE:** AGRICULTURAL SCIENCES AND FISHERIES TECH  
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## 2.0 EDUCATION

- 2.1 2010 to 2016: Wellcome Trust Postdoctoral Fellow, Dar Es Salaam University.
- 2.2 2006 PhD (Parasitology) Dar Es Salaam University, Tanzania
- 2.3 2002 MSc. (Applied Zoology) Dar Es Salaam University, Tanzania
- 2.4 1999 BSc. (General Science) Dar Es Salaam University, Tanzania
- 2.5 1996 Diploma (Clinical Medicine), Ifakara Medical Training Institute, Tanzania.

## 3.0 ACADEMIC POSTS HELD AT UNIVERSITY OF DAR ES SALAAM

- 3.1 Assistant Lecturer, Department of Fisheries and Aquaculture, 2006.
- 3.2 Lecturer, Department of Fisheries and Aquaculture, 2006 - 2012
- 3.3 Senior Lecturer, Department of Aquatic Sciences and Fisheries, 2012-2017
- 3.4 Associate Professor (Parasitology), Department of Aquatic Sciences and Fisheries technology, January, 2018.

## 4.0 RESEARCH/CONSULTANCY

- 4.1 **2009 – 2013** IUCEA (VicRes): Investigating the effects of pollution on omega-3 polyunsaturated fatty acids (PUFAs) in commercial fish species in Lake Victoria. This project was funded by the Lake Victoria Research Initiative (VicRes). It was a collaborative study by scientists from the University of Dar Es Salaam and the University of Nairobi, Kenya. We investigated how pollutants from the community's subsistence activities such as agrofarming affect the levels of Omega-3 fatty acids in fishes of the Lake Victoria Basin.
- 4.2. **2010 – 2015** Afrique One (Consortium for Ecosystem and Population Health): Status, Epidemiology and Health impact of Cysticercosis in Iringa and Manyara regions of Tanzania. This was an extensive project that worked in close collaboration with communities in the Districts of Mbulu, Iringa Rural, Kongwa, Urambo, Mpanda, Sumbawanga and Mbozi. We studied the behaviour of the communities towards transmission of Taenia solium. I participated in this project as a postdoctoral fellow and chief researcher. The project was funded by the Wellcome Trust, UK.

- 4.3 **2016- 2021** Phase II of the Consortium Afrique One (Afrique One-ASPIRE) inaugurated on the 18<sup>th</sup> – 24<sup>th</sup> September 2016 in Kampala, Uganda. In this phase of the project, my role is to supervise research in the food-borne zoonosis subcomponent of the project as well as a member of one-health committee of the consortium.
- 4.4 **2016-2020** UDSM-SIDA Food Security; where I am involved as a supervisor in the *Taenia Solium* subproject and the Fish Breeding program subproject (Institute of Marine Science –IMS).
- 4.5 **2016-2017** Sea cucumber (sandfish) juveniles production technology funded by the Western Indian Ocean Marine Science Association (WIOMSA) where I am involved as a parasitologist monitoring the health status of the brood stock and the larvi to be produced. In this project, we have already constructed a mini-hatchery at Kunduchi capable of handling the production the larvi of marine and freshwater fish inclusive other marine invertebrate larvi such as the holothurians larvi in this case.

## **5.0 ADMINISTRATIVE POSTS HELD AT UNIVERSITY OF DAR ES SALAAM**

- 5.1 Head, Department of Aquatic Sciences and Fisheries Technology, January 2017-

## **6.0 ADMINISTRATIVE POSTS HELD OUTSIDE THE UNIVERSITY OF DAR ES SALAAM**

None

## **7.0 PROFESSIONAL AFFILIATION**

- 7.1 Member, Western Indian Ocean Marine Sciences Association (WIOMSA).

## **8.0 AWARDS**

- 8.1 LVEMP Scholarship for M.Sc. studies, Department of Zoology and Marine Biology, University of Dar es Salaam, 2000 – 2002.
- 8.2 LVEMP Scholarship for Ph.D. studies, Department of Zoology and Marine Biology, University of Dar es Salaam, 2003 – 2006.

## **9.0 POSTS HELD OUTSIDE UNIVERSITY OF DAR ES SALAAM**

None

## **10.0 TEACHING/SUPERVISION**

- 10.1. Teaching three (3) undergraduate courses (DASF).
- 10.2. Supervising undergraduate 3<sup>rd</sup> year projects.

### **10.3. Postgraduate Supervision:**

#### **10.3.1. MSc. ---Completed**

- 10.3.1.1 **Tesha Julius (2012)**; Environmental Contamination by *Taenia* Eggs in Iringa Rural District, Tanzania.
- 10.3.1.2. **Geofrey B. Kamugisha (2013)**; Morphological and molecular relationships of small barb, *Barbus* spp. (Actinopterygii: Cyprinidae) from Malagarasi and Pangani river basins, Tanzania.
- 10.3.1.3. **Coletha Yohana (2013)**; The risk factors and socio-economic impact of Cysticercosis in Iringa rural.

- 10.3.1.4. **Patroba P. Matiku (2014)**; Assessment of the abundance, distribution and genetic variability of the tiger tooth croaker fish, *Otolithes ruber* (Schneider, 1801) along the marine coastal waters of Tanzania.
- 10.3.1.5. **Humphrey M. Mahudi (2015)**; Genetic variability among selected fish species along the Mwanza gulf, Lake Victoria.
- 10.3.1.6. **Agnes Robert (2015)**; Investigation on types and levels of omega-3 polyunsaturated fatty acids in four fish species from Lake Victoria, Tanzania.
- 10.3.1.7. **Twilumba Makene (2016)**; Genetic variation of *Taenia solium* metacestode in Tanzania.
- 10.3.1.8. **Mndeme Mussa (2017)**; Genetic diversity among tilapia species farmed at Kilombero valley, Tanzania.
- 10.3.1.9. **Khamis Othman Haji (2017)**; Scombrotoxin fish poisoning associated with Zanzibar landed fishes.

### **10.3.2 PhD. --Completed**

- 10.3.2.1. **Beda J. Mwang'onde (2014)**; Epidemiology and burden of human Cysticercosis in Mbulu district.
- 10.3.2.2. **Salome Daniel Shayo (2015)**; Epizootiology of microbial diseases of wild and cultured fish in the Mtera dam and its catchment area, Tanzania.

#### **PhD. – On-going**

- 10.3.2.3. **Justine D. Maganira (in progress)**; Detection of *Taenia solium* eggs in soil and food items in the southern highland regions, Tanzania.
- 10.3.2.4. **Redepta Athanas Kajungilo (In progress)**; Genetic improvement of fish and establishment of a sustainable breeding program of Tilapia in Tanzania.

## **11.0 CONFERENCES AND WORKSHOPS ATTENDED**

- 11.1 **August/December 2005** Advanced Molecular Biology, Molecular data analysis using Sequencher and Phylogenetic Analysis Using Parsimony (PAUP\*v. 4.0). Memorial University of Newfoundland, St. John's Canada.
- 11.2. **April 2007** International Training on "DNA Barcoding of Marine Life". National Bureau of Fish Genetic Resources, Lucknow, India
- 11.3 **September/October 2008** A training course on "Fish health management", held in South East Asia Fisheries Development Centre (SEAFDEC), in Tigbauan, Iloilo, the Philippines.
- 11.4. **May 2010** A visit to Finnish Environment Institute, Fresh Water Centre, Modelling and Assessment Unit, University of Jyväskylä, Finland.
- 11.5 **December 2013** Participated in the International Field School, Uganda: The Volkswagen Foundation financed summer school attracted over thirty participants from the Democratic Republic of Congo (DRC), Germany, Rwanda, Tanzania and Uganda. Mbarara University of Science and Technology (MUST) jointly organized the summer school with the Universities of Frankfurt and Giessen from Germany. Participants enjoyed guided walks through the dense and rugged terrain of the Bwindi, Mubwindi swamp and River Munyaga. They also visited Lake Bunyonyi, Queen Elizabeth National Park, Lakes George and Edward, Ssesse Island and Entebbe Zoo and Wildlife education Centre. I participated in this school as one of the trainer.
- 11.6. **September/December 2003** Food Industry and Agribusiness majoring in Fish Processing, Quality Control and HACCP. International Agricultural Centre of the Wageningen University, Wageningen, The Netherlands.

- 11.7. 26 – 30<sup>TH</sup> June 2000: A workshop on identification of *Plasmodium falciparum* DHFR and DHPS variants by use of molecular biological methods at Ifakara health research and development centre.
- 11.8. December 2002: A workshop on Wildlife diseases organized by TAWIRI- Arusha, Tanzania.
- 11.9. September 15<sup>th</sup> -26<sup>th</sup> 2003: participated in an international course on unit operations in food preservation in the International agricultural centre of the Wageningen University, The Netherlands.
- 11.10. September 29<sup>th</sup> –October 2<sup>nd</sup> 2003: participated in an international Seminar on food safety and consumer concerns in the International agricultural centre of the Wageningen University, The Netherlands.
- 11.11. October 6<sup>th</sup> – 17<sup>th</sup> 2003: participated in an international course on Quality management systems in the food supply chain in the International agricultural centre of the Wageningen University, The Netherlands.
- 11.12. October 20<sup>th</sup> -31<sup>st</sup> 2003: participated in an international course on Application of HACCP in food processing enterprises in the International agricultural centre of the Wageningen University, The Netherlands.
- 11.13. November 12<sup>th</sup> -14<sup>th</sup> 2003: participated in the workshop on innovation of food production systems, organized by the Wageningen business School of Wageningen University, The Netherlands.
- 11.14. November 17<sup>th</sup> -28<sup>th</sup> 2003: participated in an international course on Agribusiness development and investment analysis in the International agricultural centre of the Wageningen University, The Netherlands.
- 11.15. November 26<sup>th</sup> – 28<sup>th</sup> 2003: participated in the workshop on efficient consumer response, organized by the Wageningen business School of Wageningen University, The Netherlands.
- 11.16. 13<sup>th</sup>-17<sup>th</sup> February 2006: Attended a training course on effective teaching methods for UDSM academic staff, organized by CCE-UDSM.
- 11.17. 28<sup>th</sup> August – 1<sup>st</sup> September 2006: Attended a training course on the integration of ICT in teaching and learning, organized by CCE-UDSM.
- 11.18. 5<sup>th</sup> – 9<sup>th</sup> March 2007: Attended a training course on writing fundable research/project proposals, organized by CCE-UDSM.
- 11.19. 31<sup>st</sup> July – 2<sup>nd</sup> August 2007: Participated in a workshop on research supervision skills for UDSM academic staff, organized by CCE-UDSM.
- 11.20. 13<sup>th</sup> -15<sup>th</sup> February 2008: Attended a training course on advanced teaching and assessment methodology, organized by CCE-UDSM.

## **12.0 PUBLICATIONS:**

### **12.1.0 PUBLICATIONS IN REFERRED JOURNALS**

- 12.1.1 Revania, KW, Samwel, ML, Godfrey, WN, Chacha, **JM** and Yunus, DM (2017) Temporal patterns in phytoplankton, zooplankton and fish composition, abundance and biomass in Shirati Bay, Lake Victoria, Tanzania. *Lakes and Reservoirs: Research and Management*, 22: 19-42.
- 12.1.2 **Mwita, CJ** and Nyalusi, S. (2015) Effects of Copper on Haematological Parameters in the African Freshwater cichlid, *Oreochromis Urolepis*. *Huria Journal*, 19:8-14.
- 12.1.3 Mwita **CJ** (2015) Morphometric Relationships among the Clariid Fishes of the Lake Victoria Basin, Tanzania. *Open Journal of Marine Science*, 5: 26-32.  
<http://dx.doi.org/10.4236/ojms.2015.51003>.

- 12.1.4 Agnes R., Mfilinge, P., Limbu, S.M and **Mwita, CJ** (2014) Fatty Acid Composition and Levels of Selected Polyunsaturated Fatty Acids in Four Commercial Important Freshwater Fish Species from Lake Victoria, Tanzania. *Journal of Lipids*, Volume 2014, Article ID 712134, 7 pages, <http://dx.doi.org/10.1155/2014/712134>.
- 12.1.5 Mwita, C., Yohana, C., Nkwengulila, G. (2014) Indigenous Knowledge, Practices, Beliefs and Social Impacts of Porcine Cysticercosis and Epilepsy in Iringa Rural. *Health*, 6: 2894-2903. <http://dx.doi.org/10.4236/health.2014.621328>.
- 12.1.6 Mwita, **CJ** (2014) Metazoan Parasites of Clariid Fishes, Lake Victoria: Reflection of the Original Fauna in the Lake? *Natural Science*, 6: 651-658. <http://dx.doi.org/10.4236/ns.2014.69064>.
- 12.1.7 **Mwita, CJ** (2014) The Community of Parasites Infecting *Clarias gariepinus* in the Tanzanian Waters: A Case of Lake Victoria. *Open Journal of Ecology*, 4: 873-882. <http://dx.doi.org/10.4236/oje.2014.414073>.
- 12.1.8 Mwang'onde, B.J., Nkwengulila, G. and **Chacha, M.** (2014) The risk factors for human cysticercosis in Mbulu District, Tanzania. *Onderstepoort Journal of Veterinary Research* 81(1), 5 pages. <http://dx.doi.org/10.4102/ojvr.v81i2.719>.
- 12.1.9 **Mwita, CJ** and Hieromin L. (2014) Population Biology of the Metazoan Parasites Infecting Fishes from Lakes Uba and Ruwe, Lower Rufiji Floodplain, Tanzania. *Natural Science*, 6: 700-708. <http://dx.doi.org/10.4236/ns.2014.610070>.
- 12.1.10 **Mwita, CJ and** Kamugisha, BG (2014) Analysis of body shapes among *Barbus trimaculatus*, *Barbus paludinosus* and *Barbus jacksonii* (Actinopterygii: cyprinidae) from Malagarasi and Pangani River basins based on geometric morphometric method. *Tanzania Journal of Science*; 40: 90-101.
- 12.1.11 Revania, KW; Samwel, ML; Godfrey, WN; **Chacha, JM** and Yunus DM (2014) Spatial patterns of zooplankton distribution and abundance in relation to phytoplankton, fish catch and some water quality parameters at Shirati bay, Lake Victoria-Tanzania. *Tanzania Journal of Science*; 40: 20-33.
- 12.1.12 Yohana, C., **Mwita, C.J.** and Nkwengulila, G (2013) The Prevalence of Porcine Cysticercosis and Risk Factors for Taeniasis in Iringa Rural District. *International Journal of Animal and Veterinary Advances* 5(6): 251-255.
- 12.1.13 **Mwita C.J,** Tesha J. and Nkwengulila G. (2013) Environmental Contamination by *Taenia* eggs in Iringa Rural District, Tanzania. *The Open Environmental Engineering Journal*, 6: 1-6.
- 12.1.14 Shayo,S.D., **Mwita,C.J.** and Hosea,K.M (2013) Cytochrome b. nucleotide sequences for Bacterial parasites infecting Tilapia species from Mtera Hydropower Dam, Tanzania. GeneBank, Acc. No: JQ712140, JQ810743, JQ810744, JQ712142, JQ810742, JQ810747, JQ810748, JQ810730. In [www.ncbi.nlm.nih.gov](http://www.ncbi.nlm.nih.gov).
- 12.1.15 Shayo SD, **Mwita CJ,** Hosea K (2012) Ulcerative *Aeromonas* Infections in *Tilapia* (*Cichlidae: Tilapiini*) from Mtera Hydropower Dam, Tanzania. *Open Access Scientific Reports*, 1: 115. doi:10.4172/scientificreports.115
- 12.1.16 Shayo S.D, **Mwita C.J** and Hosea K.M (2012) Virulence of *Pseudomonas* and *Aeromonas* bacteria recovered from *Oreochromis niloticus* (Perege) from Mtera hydropower Dam; Tanzania. *Annals of Biological Research*, 3(11):5157-5161.
- 12.1.17 Beda J.M, Nkwengulila G. and **Mwita C.** (2012) The Serological Survey for Human Cysticercosis Prevalence in Mbulu District, Tanzania. *Advances in Infectious Diseases*, 2: 62-66 doi:10.4236/aid.2012.23009

- 12.1.18 Ogoyi, D.O., **Mwita, C.J.**, Nguu, E.K., and Shiundu, P.M. (2011) Determination of heavy metal content in water, sediment and microalgae from Lake Victoria, East Africa. *The Open Environmental Engineering Journal*, 4, 156-161.
- 12.1.19 **Mwita C.J.** (2011) Variability in parasite's structural patterns with respect to man-made disturbances in Mwanza gulf, Lake Victoria, Tanzania. *Tanzania Journal of Science*, 37: 49-57.
- 12.1.20 **Mwita C.J.** (2011) Host-parasites relationship for Lake Victoria clariid fishes and their parasite fauna. *Tanzania Journal of Science*, 37: 179-185. **(Short communication)**.
- 12.1.21 **Mwita, C.J.** and Nkwengulila, G. (2010) Phylogenetic relationship of the metazoan parasites of the Clariid fishes of Lake Victoria inferred from partial 18s rDNA sequences. *Tanzania Journal of Science*, 36: 47-58.
- 12.1.22 **Mwita, C.J.** and Nkwengulila, G. (2008) Molecular phylogeny of the Clariid fishes of Lake Victoria, Tanzania, inferred from cytochrome b DNA sequences. *Journal of Fish Biology*, 73:1139-1148.
- 12.1.23 **Mwita, C.J.** and Nkwengulila, G. (2008) Determinants of the parasite community of clariid fishes from Lake Victoria, Tanzania. *Journal of Helminthology*, 82: 7-16.
- 12.1.24 **Mwita, C.J.**, Nkwengulila, G. and Mgaya, Y.D. (2006) Lake Victoria Clariid fishes cyt b. nucleotide sequences. GeneBank, Acc. No: DQ646345 – DQ646374. In [www.ncbi.nlm.nih.gov](http://www.ncbi.nlm.nih.gov).
- 12.1.25 **Mwita, C.J.**, Nkwengulila, G. and Mgaya, Y.D. (2006) Lake Victoria parasites of Clariid fishes 18S ribosomal nucleotide sequences. GeneBank, Acc. No: DQ813444 – DQ813465. In [www.ncbi.nlm.nih.gov](http://www.ncbi.nlm.nih.gov).
- 12.1.26 **Mwita, C.J.** and Nkwengulila, G. (2004) Parasites of *Clarias gariepinus* (Burchell, 1822) from the Mwanza Gulf, Lake Victoria. *Tanzania Journal of Science*, **30**(1): 53-62.
- 12.1.27 Nkwengulila, G. and **Mwita, C.J.** (2004) Spatial distribution of parasites along the gut of the catfish *Clarias gariepinus* (Burchell, 1822) (Clariidae) from the Mwanza Gulf, Lake Victoria. *Tanzania Journal of Science*, **30**(1): 63-70.

## 12.2.0 BOOKS AND CHAPTERS IN BOOKS

- 12.2.1 **Mwita, C.J.** (2002). Diversity and Abundance of the Parasite Fauna of the Catfish *Clarias Gariepinus* (Burchell, 1822) (Clariidae) From the Mwanza Gulf, Lake Victoria. MSc. Thesis, UDSM, 175 pp.
- 12.2.2 **Mwita, C.J.** (2006). Studies on the Determinants of the Parasites' Community Structure of the Clariid Fishes in Lake Victoria. PhD Thesis, UDSM, 197 pp.

## 12.3.0 CONFERENCE PROCEEDINGS

- 12.3.1.1 Ogoyi, D.O., **Mwita, C.J.**, Nguu, E.K., Wasonga, C.O. and Shiundu, P.M. (2009) Effects of heavy metal pollution on microalgae richness and diversity in Lake Victoria. *VicRes proceedings*. 193-210 pp.

## 12.4.0 OTHER RESEARCH PUBLICATIONS/REPORTS

- 12.4.1 **Mwita, C.J.**, Ogoyi, D.O, Nguu, E.M, and Shiundu, P. (2009) Effects of pollution on Omega-3 Polyunsaturated Fatty Acids (PUFAs) in commercial fish species in Lake Victoria. 37 pp. Year I Report Submitted to VicRes.

12.4.2 **Mwita, C.J.**, Ogoyi, D.O, Nguu, E.M, and Shiundu, P. (2012) Experimental simulation on the influence of pollution on the biosynthesis of omega-3 polyunsaturated fatty acids (pufas) in microalgae. VicRes report.

### **12.5.0 CONSULTANCY REPORTS**

12.5.1 Mgaya YD and **Mwita CJ** (2012) Assessment of the implementation of fisheries management measures to address the decline of Nile perch stock in Lake Victoria. National Audit Office of Tanzania (NAOT). 46 pp.

12.5.2 Mwita CJ, Onyango PO, Pamba SZ and George S (2018) Mariculture Scoping Report. Report for South West Indian Ocean Fisheries Governance and Shared Growth Program (SWIOFish), TANZANIA. 87 pp.

Date: May 2018

Signature:

A handwritten signature in black ink, appearing to be 'm' followed by a stylized flourish.