



PERSONAL DETAILS

Name	Dr. Bala Yauri Muhammad	
Post	Assoc. Professor	
Department	-	
Date of Birth	12th November, 1960	
Nationality	Nigerian	
Address	Kulliyah of Pharmacy Department of Pharmacology International Islamic University Malaysia Kuantan, 25200, Pahang, Malaysia.	
E-mail	balamuhd@iiu.edu.my , balamuhd@yahoo.com	
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Marital Status	Married	
No. Of Children	5	

ACADEMIC

May 1994	School of Biological Sciences, University of Surrey, UK Ph.D. (Pharmacology)
Nov 86 - Oct 88	Usmanu Dan Fodiyo University, Sokoto, Nigeria M.Sc. (Pharmacology)
Oct. 79 - June 83	Ahmadu Bello University (ABU) Zaria, Nigeria B.Sc. (Pharmacy) with honors in pharmacology
1986 - 1988	Dhaka Board, Bangladesh. Higher Secondary Certificate (H.S.C) ('A' level)
1975 - 1986	Dhaka Board, Bangladesh. Secondary School Certificate (S.S.C) ('O' level)

SPECIALTY

1. CNS Pharmacology
2. Neurotoxicology
3. Developmental
4. Toxicology
5. Ethnopharmacology

RESEARCH INTEREST

Developmental Pharmacology & Toxicology, Neurotoxicology and Ethnopharmacology

WORKING EXPERIENCES / ACHIEVEMENT / CONTRIBUTION

Oct. 2004 - Present	Assistant Professor Kulliyah of Pharmacy International Islamic University, Malaysia
January 1998 - September 2004	Senior Lecturer and Acting HOD Pharmacology Dept., College of Health Sciences, UDUS, Nigeria, Postdoctoral Research Fellow (Neuroscientist), Medical Research Council (MRC), Toxicology Unit, University of Leicester, Lancaster Road, Leicester, LE1 9HN,
September 1994 - September 1997	Postgraduate Demonstrator School of Biological Sciences University of Surrey
1991- 1993	Lecturer Pharmacology Dept. College of Health Sciences, UDUS. Nigeria.
August 1985 - September 1990.	National Service Pharmacy Dept. Usmanu Danfodiyo University, Sokoto (UDUS), Nigeria.
August 1984 - July 1985	Part-time teaching School of Health Technology, Sokoto, Nigeria.
August 1984 - July 1985	Internship (Pharmacy) Training. Usmanu Dan Fodiyo University Teaching Hospital (UDUTH), Nigeria.
July 1983 - June 1984	

ONGOING RESEARCH ACTIVITIES (last 3 years)

1. Blood level serotonin of tryptophan, catecholamines and estrogen and their implications for mood changes during pregnancy and postpartum period. Co-Researcher. IIUM funded research project approved in August 2004. Total approved budget RM 41,5000.
2. Development and evaluation of bilayer photocatalysis-adsorption hybrid system for use in solar detoxification of environmental pollutants. Approved under Science fund from Ministry of Science, Technology and Innovation, Malaysia (MOSTI). Co-Researcher. Total Approved Budget RM 218,188.
3. Detection of toxic heavy metals in locally available traditional medicines. IFRGS funded research project. Principal researcher. Total Budget RM 15,000.

LIST OF PUBLICATIONS / PRESENTATIONS / ABSTRACT

Publications

1. **S.W. Hassan**, M. Lawal, **B.Y. Muhammad**, R.A. Umar, L.S. Bilbis, A.A. Ebbo and Y.U. Dabai. Isolation and Identification of Bioactive Antibacterial Component (s) In Root Extract of *Boscia angustifolia* (Capparidaceae). Functions. **Accepted for publication in Academic Journals USA.**
2. **S.W. Hassan**, M. Lawal, **B.Y. Muhammad**, R.A. Umar, L.S. Bilbis, U.Z. Faruk and A.A. Ebbo. Antifungal Activity and Phytochemical Analysis of Column Chromatographic Fractions of Stem Bark Extracts of *Ficus Sycomorus* L. (Moraceae) **Accepted for publication in Academic Journals USA.**

3. **S.W. Hassan**, M. Lawal, **B.Y. Muhammad**, R.A. Umar, L.S. Bilbis and Y. Saidu. Effects of Anthraquinone Glycosides and Aqueous Ethanol Extracts of *Ficus Sycomorus* L. (Moraceae) on Rat liver and kidney Functions. **Accepted for publication in Academic Journals USA.**
4. Hassan, S.W., Umar, R.A., M. Lawal, L.S. Bilbis, **Muhammad, B.Y.** and Dabai, Y.U. Evaluation of Antibacterial Activity and Phytochemical analysis of Root Extracts of *Boscia Angustifolia*. **African Journal of Biotechnology**, 2006, 5 (18): 1602-1607.
5. **S.W. Hassan**, R.A. Umar, Lawal, M., Bilbis, I.S., **B.Y. Muhammad**, U.Z. Faruk and A.A. Ebbo. Effect of Alkaloidal and Aqueous Ethanol Extracts of Roots of *Boscia angustifolia* (Capparidaceae) on Hepatorenal Functions in Albino Rats. **Asian journal of Biochemistry**, 1 (4): 287-296, 2006.
6. Hassan, S.W., Umar, R.A., Lawal, M., Bilbis, I.S., and **Muhammad, B.Y.** Evaluation of Antifungal Activity of *Ficus Sycomorus* L. (Moraceae). **Biological and Environmental Sciences Journal for the Tropics**, 2006, 3(2): 18-25.
7. S.O Bello , **B.Y. Muhammad**, K.S. Gammaniel, I. Abdu-Aguye, H. Ahmed, C.H. Njoku. Food items may be compliant high throughput drug library waiting to be tapped: a proof of concept study. **Journal of Applied Sciences Research**, 1 (1): 30-34, 2005, **INSInet Publication**
8. S.O Bello , **B.Y. Muhammad**, K.S. Gammaniel, I. Abdu-Aguye, H. Ahmed, C.H. Njoku. Preliminary evaluation of the toxicity and some pharmacological properties of the aqueous crude extract of *Solanum melongena*. **Research Journal of Agriculture and Biological Sciences**. 2005, **INSInet Publication**
9. Etuk, E.U., Onyeyili, P.A. and **Muhammad, B.Y.** 2005. Pharmacokinetics of Chloramphenicol Following Intravenous and Intramuscular Administration of Healthy Sokoto Red Goats. **Int. J. Pharmacol.** 1 (3): 213-217. (**ANSI Publication**)
10. Bello, S.O., **Muhammad, B.Y.**, Bello AY, Ukatu, AI, Ahmad BM, Adeneye, AA and Cherima, JY. 2005. The pattern of Infection and in vivo response to Chloroquine by uncomplicated *Plasmodium falciparum* malaria in northwestern Nigeria. **African Journal of Biotechnology**, 2005, 4 (1): 79-82.
11. Bello, S.O., **Muhammad, B.Y.**, Gammaniel, K.S., Abdu-Aguye, I. Ahmed, H., Njoku, C.H., and Salka, U.H., 2004. Randomized double blind placebo controlled clinical trial of *Solanum melongena* L. fruit in moderate to severe asthmatics. **J. Med. Sci.**, 4 (4): 263-269. (**ANSI net**)
12. **Muhammad, B.Y.**, Verschoile, R.D. and Ray, D.E., 2003. Developmental Toxicity of pyrethroids. **Arch. Toxicol.** 77 : 48-49.
13. Bello S. Oricha and **Muhammad, B.Y.** 2003. Children as missing factors in toxicological evaluations and the fallacy of a "placental barrier. **BMJ**, 325:1132
14. Bello S. Oricha and **Muhammad, B.Y.** 2003. Doxycycline Induced Intracranial Hypertension In Africa: The Drug, The Diseases and the Doctor. **BMJ**, 236:613-614.
15. Kitchen, I., Crook, T.J., **Muhammad, B.Y.** and Hill, R.G. 1994, Weaning activates the development of a d-opioid receptor subtype in the rat. **Br. J. Pharmac.** 111,121P.
16. **Muhammad, B.Y.** and Kitchen, I. 1993, A method for the study of swimming stress and stress-induced antinociception in preweanling rats. **J. Pharmacol.**

Toxicol. Meth. 29: 139-141.

17. **Muhammad, B.Y.** and Kitchen, I. 1993, Effect of delayed weaning on opioid receptor control of swim stress-induced antinociception in the developing rat. *Br. J. Pharmacol.* 109: 651-654.
18. **Muhammad, B.Y.** and Kitchen, I. 1993, Effect of chronic maternal diazepam treatment on the development of stress-induced antinociception in young rats. *Pharmacol. Biochem. Behav.* 47: 927-933.
19. Kitchen, I., Crook, T.J., **Muhammad, B.Y.** and Hill, R.G. 1993, Evidence that weaning activates the developmental expression of a d-opioid receptor subtype in the rat. *Developmental Brain Res.*, 78: 147-150.
20. Bello, S.O. and **Muhammad, B.Y.** 2003. The Uncertainty principle versus clinical equipoise in Clinical trials in sub-Saharan Africa: are they really tenable. *Annals of African Medicine, vol.2 No.2: 99-100.*
21. Bello, S.O., **Muhammad, B.Y.** 2003. Dipyrrone (Novalgin, Metamizole): Banned and Unbanned... the dilemma of a commonly prescribed and over the counter Drug. *Annals of African Medicine, vol.2 No.2: 101-102.*
22. O.P Ajagbonna, H.G. Mikahil, **B.Y. Muhammad** and P.A. Onyeyili, 2003. Trypanocidal Efficacy of *Allium Sativum* (Garlic) in Rabbits infected with Trypanosome Brucei. *Proceedings of the 28th Annual Conference of the Nigerian Society for Animal production.* 28: 11-12.
23. Mikahil, H.G. Ajagbonna, O.P. Muhammad B.Y and Onyeyili, P.A. 2003. Garlic as a Natural Agent for the Treatment of Trypanosomiasis: **A preliminary report.** *Proceedings of the 39th NVMA Conf. Sokoto.*
24. O.P Ajagbonna, H.G. Mikahil and **B.Y. Muhammad.** 2003. Effects of aqueous extract of *Allium Sativum* (Garlic) on haematological and biochemical parameters in rabbits infected with trypanosome brucei. *Proc. 8th Ann. Conf., Anim. Sci. Ass. Of Nig. (ASAN), Sept. 16th-18th Fed. Univ. of Tech., Minna, Niger State, Nigeria.*
25. O.P Ajagbonna, M. M. Hamisu and **B.Y. Muhammad.** 2003. Anthelmintic activity and haematological effects of aqueous seed extract of *Carica papaya* (pawpaw). *Proc. 8th Ann. Conf., Anim. Sci. Ass. Of Nig. (ASAN), Sept. 16th-18th Fed. Univ. of Tech., Minna, Niger State, Nigeria.*
26. Bello, S.O. and **Muhammad, B.Y.** 2002. The Pharmacology of Venoms. *Sokoto J. of Vet. Sciences*, 4 : 1, S18-S20.
27. **Muhammad, B.Y.** and Bello, S.O. 2002. Pharmacotherapeutic Management of Pain in Animal Bite: The Involvement of Opioid and Non-Opioid Mechanisms. *Sokoto J. of Vet. Sciences*, 4 : 1, S21-S25.
28. Nwosu, S.A., **Muhammad, B.Y.** and Bello, S.O. 2002. Some Ethno Pharmacological Approach in the Management of Animal Bites. *Sokoto J. of Vet. Sciences*, 4 :1, S26-S28.
29. Muyibi, S.A., Olorede, B.R., Onyeyili, P.A., Osunkwo, U.A., **Muhammad, B.Y.** and Ajagbonna, O.P., 2000. Haematological and Histopathological changes of *Cassia Occidentalis* Leaf Extract in Rats. *Nig. J. Nat. Prod. And Med.*, 4: 48-51.
30. Edafiogho, I.O., **Muhammad, B.Y.** and Unekwe, P.C., 1989, Some pharmacological effects of an enaminone ester on isolated rat uterus. *Nigerian*

31. Edafigho, I.O. Elueze, E.I., Muhammad, B.Y., Nwaje, E.E. and Udomah, M.G., 1987, The lethal effects of an iodine-containing disinfectant on a pathogenic anaerobe. *Nigerian Journal of Basic and Applied Sciences*. 1(1): 103-107.

Abstract Publications

1. S.O. Bello and B.Y. Muhammad, 2002. Use, Misuse and Abuse of herbal Medicine: Implications Medical Practice, Presented at the XXIXth Annual Regional Conference of the West African Society for Pharmacology (WASP), 21st-23rd October, 2002, P30, (Abstract).
2. S.O. Bello and B.Y. Muhammad, A Hamidu, C.H. Njoku and A.N.Suleiman 2002. Local Disease Phenotype Guided Animal Models And The Use Of Appropriate Technologies In Evaluating Herbal Medicine: A Case Study. , Presented at the XXIXth Annual Regional Conference of the West African Society for Pharmacology (WASP), 21st-23rd October, 2002, P68, (Abstract).
3. S.O. Bello and B.Y. Muhammad, A Hamidu, C.H. Njoku. Efficacious Extracts Used as a "cassette Dose" May Identify Unknown Pathways in Disease Pathogenesis: A Hypothesis. Presented at the XXIXth Annual Regional Conference of the West African Society for Pharmacology (WASP), 21st-23rd October, 2002, P64, (Abstract).
4. S.O. Bello and B.Y. Muhammad, A.N.Suleiman, 2002. Some Candidate Selection Criteria In Herbal Research May Be Misleading. , Presented at the XXIXth Annual Regional Conference of the West African Society for Pharmacology (WASP), 21st-23rd October, 2002, P69, (Abstract).
5. S.O. Bello and B.Y. Muhammad 2002. Current Strategies Against HIV In Africa May Be Ineffective: A Review. , Presented at the XXIXth Annual Regional Conference of the West African Society for Pharmacology (WASP), 21st-23rd October, 2002, P72, (Abstract).
6. S.O. Bello and B.Y. Muhammad 2002. Introducing The Guided Minimal Animal LD50 Method For Herbal Medicine, Presented at the XXIXth Annual Regional Conference of the West African Society for Pharmacology (WASP), 21st-23rd October, 2002, P88, (Abstract).
7. S.O. Bello, B.Y. Muhammad, A Hamidu, C.H. Njoku and A.N.Suleiman 2002. Is Toxicological Evaluation Of Herbal Products In Models Of The Disease Target More Predictive Of Clinical Situations? A Case Study of Solanum Melongena L. And Arachis Hypogea L., Presented at the XXIXth Annual Regional Conference of the West African Society for Pharmacology (WASP), 21st-23rd October, 2002, P89, (Abstract).
8. F. Tahzib., B.Y. Muhammad and I. Y. Garba. In Sofowora A. (ed). Some Traditional Curative and Preventive Remedies For Snake Bites. The State of Medicinal Plant Research In Nigeria, I.V.P / 1986 (Abstract).
9. I.O. Edafigho, J.O.S. Osisanya, E.E. Nwajei, E.I. Elueze and B.Y. Muhammad. Synthesis of a Potential antiparasitic Agent. Proceedings of The Annual Conference of the Society of Pathologists, held at Usmanu Dan Fodiyo University of Sokoto, Sept. 25-28, 1988. (Abstract).

1. Bala Yauri Muhammad and Ahmed Awaisu. The Need for Enhancement of Research, Development and Commercialization of Natural Medicinal Products: Lessons From The Malaysian Experience. A Paper Presented at The Science & Technology Conference, Nicon Trascorp Hilton Hotel, Abuja - Nigeria. Theme: Bridging the Digital and Scientific Divides: Forging Partnerships with the Nigerian Diaspora, 25th - 27th July, 2006.
2. Bala Yauri Muhammad. Developmental Neurotoxicity of DDT and Pyrethroids: Effects on Behaviour and Neurochemistry. Seminar Presentation at the Faculty of Medicine, Health Science Centre, Organized by the Department of Applied Therapeutics, Faculty of Pharmacy, Kuwait University, 26th December, 2005.
3. F.B.O. Mojiminiyi, M. Dikko, B.Y. Muhammad, P.D. Ojobor, O.P. Ajagbonna, R.U. Okolo, U.V. Igbokwe, U.E. Mojiminiyi, M.A. Fagbemi, S.O. Bello, T.J. Anga. Antihypertensive Effect of An Aqueous Extract of the Calyx of Hibiscus sabdariffa. A Paper Presented at the International Conference on Medicinal Plants, Dynasty Hotel Kuala Lumpur, 2005, 5-7 December 2005.
4. S.O Bello, B.Y. Muhammad, K.S. Gammaniel, I. Abdu-Aguye, H. Ahmed, C.H. Njoku. Preliminary evaluation of the toxicity and some pharmacological properties of the aqueous crude extract of Solanum melongena A Paper Presented at the International Conference on Medicinal Plants, Dynasty Hotel Kuala Lumpur, 2005, 5-7 December 2005.
5. Bala Yauri Muhammad. Ethics in Animal Care and Experiments. Workshop Presentation at the Kulliyah of Pharmacy, International Islamic University, Kuantan Campus, Malaysia.
6. Bala Yauri Muhammad. Pharmacological Receptors: Basic Concepts, Research tools and Clinical Application, UDUS, Feb. 2000.