

CURRICULUM VITAE

A: Personal details:

NAME: **Dr. Ntale Muhammad**
NATIONALITY: Ugandan
PROFESSION: Analytical Chemist/Environmental Chemist
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Academic qualifications:

- a) **BSc** (Chemistry), **Hons, Upper Second**, Makerere University, 1993.
- b) **MSc** (Analytical chemistry), Makerere University, 1997.
- c) Postgraduate Diploma in Education (**PGDE**), Makerere University, 1999.
- d) **PhD, Analytical Chemistry**, Makerere University/Karolinska Institute (Sweden), 2009.

Other professional training/workshops/conferences:

- a) Trained at Kenyatta University, Nairobi, in polarographic/voltammetric techniques for analysis of metal ions in water systems, July-August, 1993.
- b) Trained in statistical methods and computer applications in research, held at the Institute of statistics and Applied Economics, Makerere University, 15th April – 3rd May 2002.
- c) Trained in Advanced Gender Research Methodology, Held at the Department of Women and Gender Studies, Makerere University, 7th July – 18th July, 2003.
- d) Trained at Karolinska Institute, Sweden, in analytical techniques for detecting/measuring drugs and their metabolite concentrations in biological samples, February-June, 2004.
- e) Pharmacogenetics of drug metabolism workshop, Nairobi, Kenya 25-27 August, 2003.
- f) The 5th Laboratory Manager's Workshop for East and Southern Africa, Regency Hotel, Kampala 4th to 8th December, 2006.
- g) Bionalytical investigations workshop (19th to 20th April 2010, Department of Pharmacology & Therapeutics, Makerere University, Uganda). Theoretical and practical aspects. Supported by WHO and GTZ.
- h) Gas chromatography-Mass spectrometer workshop in Nairobi, Kenya (4th-5th October 2010) – supported by Shimadzu /Estec, Kenya.
- i) Training Workshop on Eco-Design organised by Uganda Cleaner Production Centre and Vienna Technical University, Austria. August, 2002.

- j) Environmental Management Navigator Workshop: Life Cycle Assessment (LCA), Life Cycle Design (LCD), Cleaner Production Assessment (CPA), Environmental Cost Accounting (ECA), Environmental Performance Evaluation (EPE), Corporate Environmental Reporting (CER) and Green Supply Chain Management (GSCM), February 2006. Supported by UNEP/Wuppertal Institute Collaborating Centre on Sustainable Consumption and Production.
- k) UNIDO Training of Trainers in Environmental Management Systems; ISO 14001, December 2006.

Membership of professional bodies and committees:

- Member of the International Association of Therapeutic Drug Monitoring and Clinical Toxicology, 2007-2009.
- Registered member of Uganda Association for Impact Assessment.
- Committee member of the National steering committee for development of sustainable consumption and production plans for Uganda-Funded by UNEP.

Selected publications:

1. **Muhammad Ntale**, Jude T. Nyangababo and Knut Schroeder. Drop Amalgam Voltammetric study of Lead Complexation by Natural Inorganic Ligands in a salt Lake. *Bull. Chem. Soc. Ethiop.* **2004**, **18(1)**, 91-100.
2. Obua C, **Ntale M**, Lundbland M. S *et al.* Pharmacokinetic interactions between chloroquine, sulfadoxine and pyrimethamine and their bioequivalence in a generic fixed- dose combination in healthy volunteers in Uganda. *African Health Sciences Vol 6 No. 2 June 2006*.
3. Celestino Obua, Urban Hellgren, **Muhammad Ntale**, Lars L. Gustafsson, Jasper W. Ogwal-Okeng, Toufigh Gordi and Markus Jerling. Population pharmacokinetics of chloroquine and sulfadoxine and treatment response in children with malaria: Suggestions for an improved dose regimen. *British Journal of Clinical Pharmacology*, **65: 4, 493-501 (2007)**.
4. **M. Ntale**, M. Mahindi, J.W. Ogwal-Okeng, L.L. Gustafsson, O. Beck. A field-adapted HPLC method for determination of amodiaquine and its metabolite in whole blood dried on filter paper. *Journal of Chromatography B*, **859 (2007) 137-140**.
5. C. Obua, **M. Ntale**, J.W. Ogwal-Okeng, L.L. Gustafsson, U. Hellgren and M.G. Petzold. Impact of Nutritional Status on Fixed-dose Chloroquine and Sulfadoxine/Pyrimethamine Combination Treatment of Malaria in Ugandan Children. *International Journal of Tropical*

- Medicine 3 (3): 53-59, 2008.**
6. **M. Ntale**, J.W. Ogwal-Okeng, M. Mahindi, L.L. Gustafsson, O. Beck. A field-adapted sampling and HPLC quantification method for lumefantrine and its desbutyl-metabolite in whole blood spotted on filter paper. **Journal of Chromatography B**, **876 (2008) 261-265.**
 7. **Muhammad Ntale**, Celestino Obua, Jackson Mukonzo, Margarita Mahindi, Lars L. Gustafson, Olof Beck and Jasper Ogwal-Okeng. Field-adapted sampling of whole blood to determine the levels of amodiaquine and its metabolite in children on treatment with amodiaquine plus artesunate (AQ+AS) combination. **Malaria Journal 2009, 8:52 doi: 10.1186/1475-2875-8-52.**
 8. Jolocam Mbabazi, H. Twinomuhwezi, J. Wasswa, **M. Ntale**, G. Mulongo, J. Kwetegyeka and K.H. Schroder. Speciation of heavy metals in water from the Uganda side of Lake Victoria. **International Journal of Environmental Studies Vol. 67, No. 1, February 2010, 9-15.**
 9. Jolocam Mbabazi, John Wasswa and **Muhammad Ntale**. Equilibrium and kinetic studies of the stannate (IV)-polyol reaction. **Bull. Chem. Soc. Ethiop. 2010, 24(3), 001-010.**
 10. Mbabazi Jolocam, **Ntale M**, Kwetegyeka J, Mulongo G. Twinomuhwezi H. and Namuyomba P. Stannate (IV) and antimonite (V) hexahydroxy-anion complexes with di- and polyhydric phenols. **Research Journal of Chemical Sciences Vol. 1 (2) May (2011).**
 11. Jolocam Mbabazi, J. Kwetegyeka, **M. Ntale** and J. Wasswa Ineffectiveness of Nakivubo wetland in filtering out heavy metals from untreated Kampala urban effluent prior to discharge into Lake Victoria. **Uganda African Journal of Agricultural Research Vol. 5(24), pp. 3431-3439, 18, ISSN 1991-637X ©2010 Academic Journals.**
 12. Robert Balikuddembe, Joshua Kayiwa, David Musoke, **Muhammad Ntale**, Steven Baveewo, Paul Waako and Celestino Obua. Plasma Drug Level Validates Self-Reported Adherence but Predicts Limited Specificity for Nonadherence to Antiretroviral Therapy. **International Scholarly Research Network, ISRN Pharmacology, Volume 2012, Article ID 274978, 7 pages:**

doi:10.5402/2012/274978.

Work experience:

1995 – 1999	Assistant Lecturer, Department of Chemistry, Makerere University.
1999 – 2010	Lecturer, Department of Chemistry, Makerere University.
2011 - todate	Senior Lecturer, Department of Chemistry, Makerere University

Courses taught:

Analytical, environmental and applied chemistry courses.

On-going research

- Currently doing work on environmental restoration of polluted and degraded habitats of Queen Elizabeth National Park in Kasese District, Western Uganda. Research sponsored by the Swedish International Development Agency (SIDA).

Other academic responsibilities:

- Acting Head of Department of Chemistry (2008 – 2010).
- Head of Department of Chemistry (2011- todate)
- External examiner (Chemistry) for Mbarara University of Science and Technology 2008/2009, 2009/2010, 2010/2011.
- External examiner (Chemistry) for Kampala International University, 2010/2011.
- Supervision of several graduate students

Referees:

1. Professor Oryem -Origa Hannington, Department of Biological Sciences, School of Biosciences, College of Natural Sciences, Makerere University.
2. Associate Professor Dr. S. A Nyanzi, Department of Chemistry, School of Physical Sciences, College of Natural Sciences, Makerere University



Dr. Ntale Muhammad
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Makerere University