

MARY NDUTA MWANGI-CURRICULUM VITAE

<i>Nationality</i>	<ul style="list-style-type: none"> • Kenyan
<i>Qualifications</i>	<ul style="list-style-type: none"> • PhD Fellow Banana Biotechnology (Kenyatta University) • Msc (Genetics) 1991 - Kenyatta University - Nairobi, Kenya • Research Topic: The Genetic side effects of selected medicinal plant extracts used in Kenya. • Bed (science) Hons Education, Botany , Zoology (1986); Msc Botany (Genetics) 1991 - Kenyatta University - Nairobi, Kenya; Molecular Biology
<i>Work Experience</i>	<ul style="list-style-type: none"> • 1986-1987 Graduate Teacher Kambui Girls High School • 1989- 2004- Teaching & Research - Kenyatta University Department of Botany
<i>Current Position</i>	<ul style="list-style-type: none"> • 2004-to-date- Teaching & Research - Lecturer, Department of Biochemistry and Biotechnology, Kenyatta University • Teaching courses in Biotechnology, Forensic DNA and Cell and Molecular Biology programs.
<i>Other Skills</i>	<ul style="list-style-type: none"> • Biotechnology (Molecular Biology; cell and tissue culture) • Trainer HIV and AIDS mainstreaming in University Curricular • Effective project Planning and Management (EPP) • Research Management (ISNAR) • Networking • Intellectual Property Rights • Gender and leadership for change • Client-oriented breeding methods • Science Communication
<i>Other engagements</i>	<ul style="list-style-type: none"> • Executive Secretary Association of African Women in Science and Engineering (AWSE). • Member of Open Forum For Agricultural Biotechnology (OFAB) programming committee • Associate Member of International Service for the Acquisition of Agri-Biotechnology Applications (ISAAA AfriCentre) • Development of training of trainers Modules for HIV/AIDS mainstreaming in the curricular of African Universities (in collaboration with AWSE, UNESCO, CUE) • Development of Forensic science and Biotechnology programs at Kenyatta University • Mentoring young women scientists • Empowering Women scientists and Engineers • Working with rural farmers in Biotechnology transfer, popularizing and conservation of indigenous food crops.

<p>Conference Papers</p>	<ul style="list-style-type: none"> • 2013- Mwangi, M. N., Wamue-Ngare, G., Muyonga, J. , Nganga, Z. W. and Manyama, A. Potential of the Banana Tissue Culture (TC) Technology in addressing the HIV-Poverty –Malnutrition cycle among People Living With HIV and AIDS (PLWHAs) in the Lake Victoria Basin .Paper presented during the INWES Regional Conference, 19th to 21st November, 2013, Nairobi Kenya. • 2010-Biotechnology for Economic Empowerment of Farmers, Opportunities and Challenges in Banana Tissue Culture Adoption in Kenya. Paper presented at the 2010 AWSE Conference entitled A Decade into the 21st Century: The Contribution of African Women Scientists and Engineers.AWSE conference, Nairobi • 2009- Bridging the Technology gap in Banana Improvement: The Case of Biotechnology Adoption by Developing Countries. The second joint ISHS-ProMusa symposium ‘Global perspectives on Asian challenges’ was held in Guangzhou, China, 14-18 September 2009 • Assesment of Induced Mutations of two popular Kenyan Banana Cultivars for Improved resistance to <i>Mycosphaerella musicola</i> and <i>M.fijiensis</i> in Kenya. ISHS/ProMusa Symposium: Recent advances in Banana crop protection for Sustainable Production and Improved Livelihoods. Nelspruit South Africa September 10-14, 2007;
<p>Research Grants</p>	<ul style="list-style-type: none"> • ‘Biotechnology for Sustainable Agriculture in Africa: The important Role of Women’s Indigenous Knowledge’. 10th Gender and Science and Technology (GASAT) Conference: 29th October-2nd November 2000, Abuja, Nigeria. • 2011-National Council for Science and Technology Grant 2011- Establishment of Integrated on Farm Nurseries of Tissue Culture (TC) Bananas and Multipurpose Trees (MTPs) For Sustainable Food Security and Wealth Creation in selected counties of Western and Nyanza. (Principal Investigator) • 2009- Developing capacity for participatory and marker assisted plant breeding to mitigate low crop productivity and food security (EU-ACPCAPACITATE East Africa S&T Project FED /2009/218788 (Kenyatta University Project Leader) • VICRES grant 2007 : “Banana tissue culture and nutrient enhancement for food security and income generation among people living with AIDS in the Lake Victoria basin.(Collaborator)
<p>Relevant Training</p>	<ul style="list-style-type: none"> • International Women in Science and Engineering (IWISE) 1999 Research grant Helping women farmers in Kenya in the cultivation and marketing of bananas • OSSREA, 10th Gender Issues Research Competition Grant titled “Towards Practical Solutions In Enhancing Food Security: The Gender Factor In Indigenous Crop

	<p>Production”.</p> <ul style="list-style-type: none"> • 2013-Project Management training under the Capacitate East Africa EU-ACP S&T Project FED /2009/218788. • 2013-Statistics for plant breeders training under the Capacitate East Africa EU-ACP S&T Project FED /2009/218788. • 2010-Networking training under the Capacitate East Africa EU-ACP S&T Project FED /2009/218788. • 2010-Client –Oriented breeding training under the Capacitate East Africa EU-ACP S&T Project FED /2009/218788- on building capacity for participatory plant breeding to mitigate low crop productivity and poor food security • 2007-WHO/TDR Effective Project Planning and Implementation Training. TRC-KARI 28th-31st May 2007 • 2007-WHO/TDR Effective Project Planning and Implementation Training. TRC-KARI 28th-31st May 2007 • 2007-Intellectual Property Training Program for Eastern Africa conducted by CIPP McGill University, ICIPE, SEAPRI, UON and KIPI 11th June-29th June 2007. • 2000-Gender and Leadership for Change training: Winrock International March 2000- Workshop. ESAMI headquarters, Tanzania. • Leadership training; INWES, AWSE- Workshop for African Women Scientists and Engineers, Nairobi Kenya • 1999-Leadership/Gender Training and Scientific attachment in Biotechnology Institute of Theoretical and Applied Physics, Iowa State University, IWISE, UNESCO/ Winrock- IWISE 1999 Summer program, Iowa State University USA. • 1998-EU(INCO) –The 2nd International Training Workshop on Application of Biotechnology to Plant Breeding and Crop protection in Coconut. Dar es Salaam 15th to 28th August 1998. Presentation: The status of Plant Biotechnology in Kenya. • 1997-ISNAR- Agricultural Research Management and Strategic planning training 1997, Leipsig Germany • 1997-The Netherlands Governments Special Program on Biotechnology/ Kenya Biotechnology Platform: Training Course: Molecular Biology Techniques for Researchers /Scientists from Public and Private Institutions in Kenya January-February 1997. • 1997-15th IAEA/FAO Interregional Training Course: Advances in Technologies for Induced Mutations in the improvement of Crops, IAEA Laboratories, Siebersdorf near Vienna, Austria 20th May to 27th June 1997. • 1997-DSE/ZEL International Training Course: Micropropagation and Related Techniques for the Conservation and Use of Plant Genetic Resources and the
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<p>Publications</p>	<p>Improvement of Crops. August to December 1997; Leipsig Germany.</p> <ul style="list-style-type: none"> • M. Mwangi, S.W. Waudu, E.M. Kahangi (2011) In vitro mutation induction for the improvement of mycosphaerella fijiensis resistance in two banana cultivars grown in Kenya. ISHS Acta Horticulturae 897: International ISHS-ProMusa Symposium on Global Perspectives on Asian Challenges • Mbaka J.N., Mwangi M. and Mwangi M.N. (2008). Banana farming as a business: the role of tissue cultured planting materials in Kenya. Journal of Applied Biosciences 9 (1): 354 - 361. • Wamono E.B.K; Kaaya A.N.; Ng'ang'a Z., Wamue G., Manyama, A., Mwangi M. and J.H Muyonga (2011) Nutrient-Enhancement of matooke Banana For Improved Nutrient Intake Of People Living With HIV/AIDS in Rakai District, Uganda. African Journal of Food, Agriculture, Nutrition, Nutrition and Development (AJFAND) online VOI 11 NO 4, July 2011. • A. Manyama, E. Wamono, J.H. Muyonga, G.Wamue-Ngare, M.N. Mwangi and Z.W. Ng'ang'a (2010) Banana tissue culture and nutrient enhancement for food security and income generation among people living with AIDS in the Lake Victoria basin. Journal of African Affairs 6-90. • Mwangi, M.N ; G.Wamue-Ngare J.H. Muyonga, Z.W. Ng'ang'a and A. Manyama (2010) Biotechnology for the economic empowerment of Farmers; The opportunities and challenges in Banana tissue culture adoption in Kenya. Proceedings of the African Women in Science and Engineering (AWSE) Conference: A decade into the 21st century; the contribution of African women scientists and engineers, Nairobi, Kenya, 18th - 20th August 2010. • Mwangi, M. N1., Wamue-Ngare, G2., Muyonga, J3., Nganga, Z. W.4 and Manyama, A.5 Adoption of Banana Improvement technologies to curb the HIV-Poverty-Malnutrition-Cycle. IN PRESS Acta Horticulturae
<p>Professional memberships</p>	<ul style="list-style-type: none"> • African Women in Science and Engineering (AWSE) • African Biotechnology Network • Association of African Women in Research and Development (AAWORD) • International Women in Science and Engineering (IWISE) • Gender and Science and Technology (GASAT). • International Women Scientists and Engineers (INWES) • International Society for Horticultural Science (ISHS) • ISAAA associate member

