

## CURRICULUM VITAE

### A: PERSONAL INFORMATION

Name : Magomere Titus Obidi  
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### B: ACADEMIC QUALIFICATIONS

- (i) 2014: PhD (Genetics, Biotechnology and Plant Breeding), University of Guelph/University of Nairobi.
- (ii) 2004: MSc. (Genetics & plant breeding), University of Nairobi.
- (iii) 2003: MA. (Rural Sociology and Community Development), University of Nairobi.
- (iv) 1997: BSc. (Agriculture – Crop science option. Hons), University of Nairobi.
- (v) 1991: Dagoretti High School. Kenya Certificate of Secondary Education (K.C.S.E.).
- (vi) 1987: Muguga Green Primary School. Kenya Certificate of Primary Education (K.C.P.E.).

### C: PUBLICATIONS

#### Theses/Dissertations

- (i) PhD thesis, University of Guelph/University of Nairobi.  
“Interspecific hybridization between sorghum (*Sorghum bicolor* L. Moench) and its wild relatives and the implication on hybrid fitness”, 2014.
- (ii) MSc. thesis, University of Nairobi.  
“Molecular characterization and distribution of ‘*Candidatus Liberobacter*’ species/ strains in Machakos and Kakamega districts of Kenya”, 2004.
- (iii) MA. dissertation, University of Nairobi.  
“Factors influencing farmer participation in the adoption of horticultural innovations in Kakamega and Machakos districts of Kenya”, 2003.
- (iv) BSc. final year project paper, University of Nairobi.  
“The effect of B.A.P. on *Invitro* shoot multiplication in *Chrysanthemum cinerifolium* clone 443”, 1997.

#### Selected papers in peer reviewed journals

- (i) **Magomere, Titus O.**; Obukosia, Silas D.; Mutitu, Eunice; Ngichabe, Christopher; Olubayo, Florence and Shibairo, Solomon. Molecular characterization of ‘*Candidatus Liberibacter*’ species/strains causing huanglongbing disease of citrus in Kenya. *Electronic journal of biotechnology* [online]. April 2009, vol. 12, no. 2.
- (ii) **Magomere, Titus O.**; Obukosia, Silas D.; Mutitu, Eunice; Ngichabe, Christopher; Olubayo, Florence and Shibairo, Solomon. PCR Detection And Distribution Of Huanglongbing Disease And Psyllid Vectors On Citrus Varieties With Changes In Elevation In Kenya. *Journal of biological sciences*. 2009. vol. 9, no. 7, Page No. 697-709.
- (iii) **Magomere, Titus O.**; Ngugi K.; Obukosia, Silas D.; Mutitu, Eunice; and Shibairo, Solomon. 2014. Real Time PCR Mediated Determination Of The Spontaneous Occurrence Of *Sorghum Bicolor* Alleles In Wild Sorghum Populations. *African Journal of Biotechnology* (In press).

- (iv) **Magomere, Titus O.**; Ngugi K.; Obukosia, Silas D.; Mutitu, Eunice; and Shibairo, Solomon. 2014. Evaluation of Multiplex PCR in detection of crop alleles and differential hybridization among weedy sorghum populations. *Journal of biological sciences* (In press).
- (v) **Magomere, Titus O.**; Obukosia, Silas D.; Mutitu, Eunice; Ngichabe, Christopher; Olubayo, Florence and Shibairo, Solomon. Utility of the bacterial *rplKAJL-rpoBC* operon in characterization, phylogeny and identification of proteobacteria. 2014. *Journal of bacteriology*. (Under preparation).

#### Conference papers

- (i) **Magomere, Titus**; Chitere, P.O. and Ocharo, R. M. Farmer participation in adoption of horticultural innovations in Kenya: A comparison of Kakamega and Machakos districts. *Evangelischer Entwicklungsdienst (EED) Africa Alumni Conference*, 2009.

#### Journal and conference abstracts, conference presentations and posters.

- (i) **Magomere, Titus O.**; Obukosia, Silas D.; Mutitu, Eunice; Ngichabe, Christopher; Olubayo, Florence and Shibairo, Solomon. Utility of the bacterial *rplKAJL-rpoBC* operon in characterization, phylogeny and identification of proteobacteria. III International Conference on Environmental, Industrial and Applied Microbiology (BioMicroWorld2009), 2-4 December, Lisbon (Portugal).
- (ii) **Magomere T.O.**; Tardif F. and Pauls K. P. Gene Flow From Sorghum Bicolor To Its Weedy Relatives And Its Consequences; *Proceedings of the joint meeting of the Canadian Society of Plant Physiologists Eastern Regional Meeting & the 40th Plant Development Workshop. McMaster University Hamilton Ontario*, December 2<sup>nd</sup> 2006.
- (iii) **Magomere T.O.**; Tardif F. and Pauls K. P. Gene Flow from Sorghum Bicolor to its weedy relatives and its consequences; Genetic polymorphisms and recombination hotspots on the sorghum genome. 7<sup>th</sup> workshop on sustainable horticultural production in the tropics. 28<sup>th</sup> Nov – 1<sup>st</sup> Dec 2007.
- (iv) **Magomere, Titus O.**; Obukosia, Silas D.; Mutitu, Eunice; Ngichabe, Christopher; Olubayo, Florence and Shibairo, Solomon. PCR detection of “*Candidatus Liberobacter africanus*” that cause Huanglongbing disease on citrus plants in Machakos and Kakamega districts of Kenya. 1<sup>st</sup> all Africa congress on biotechnology. *African biotechnology stakeholders forum congress*, 22-26<sup>th</sup> September 2008.
- (v) **Magomere, Titus**; Chitere, P.O. and Ocharo, R. M. Farmer participation in adoption of horticultural innovations in Kenya: A comparison of Kakamega and Machakos districts. *Evangelischer Entwicklungsdienst (EED) Africa Alumni Conference*, 2009.
- (vi) **Magomere, Titus O.**; Obukosia, Silas D.; Mutitu, Eunice; Ngichabe, Christopher; Olubayo, Florence and Shibairo, Solomon. Distribution of Huanglongbing disease and Psyllid vectors on Citrus varieties with changes in elevation in Kenya. *African journal of agricultural research*, 2009.
- (vii) **Magomere T.O.**; Obukosia S.D.; Mutitu E.W.; Ngichabe C.; Olubayo F. and Kimani Waithaka. Comparison of the intergenic region of the ribosomal proteins (L10-L12) gene of Kenyan ‘*Candidatus*’ *Liberobacter* species. *African crop science*, 2003.
- (viii) Obukosia S.D.; Mutitu E.; Waithaka K.; Olubayo F. and **T. Magomere**. Molecular Indexing for the Huanglongbing Disease of Citrus. Spring 2002. *In Vitro Cell. Dev. Biol.* 38, P-1265 [http://altweb.jhsph.edu/publications/journals/iva/iva38\\_suppl/iva38suppl-toc.htm](http://altweb.jhsph.edu/publications/journals/iva/iva38_suppl/iva38suppl-toc.htm)

#### D: EMPLOYMENT

2007- 2014: Tutorial Fellow, University of Nairobi, Department of plant science and crop protection.

2005-2007: Graduate research assistant, University Of Guelph, Department of plant science.  
1998-2004: Research assistant; University of Nairobi; Crop science department [Citrus Tissue Culture Project].

**E: RESEARCH PROJECTS**

- (i) 2010-2014: Compare fitness characteristics of ABS event 188 X wild hybrids and non-ABS X wild hybrids in Nebraska and Kenya. University Of Nairobi, Africa Harvest, Danforth (Investigator).
- (ii) 2010-2012: “Interspecific hybridization within sorghum genus and transfer of *sorghum bicolor* alleles to weedy sorghum populations (*S. sudanense*; *S. halepense*; *S. bicolor* subsp. *verticilliflorum*) with the effects on hybrid fitness and fecundity”. University Of Nairobi, Africa Harvest, Danforth (Principal investigator).
- (iii) 2005-2007: Gene flow from *Sorghum bicolor* to its weedy relatives and its consequences. University Of Guelph, OAC/ University of Nairobi (Principal investigator).
- (iv) 2001-2004: Characterization of ‘Candidatus’ Liberobacter species / strains and survey of citrus pests. Funded by Rockefeller foundation (FORUM). (MSc student and research assistant basis).
- (v) 2000-2003: Social economic factors influencing farmer participation in the adoption of horticultural innovations in Machakos and Kakamega districts of Kenya. Okumenisches Studienwerk e.v. Bochum, Germany (Principal investigator).
- (vi) 1999-2001: Citrus tissue culture tree project. Funded by The Netherlands Special Biotechnology Programme under the auspices of ‘Kenya Agricultural Biotechnology Platform’. (Research assistant).

**F: SHORT SEMINARS/WORKSHOPS AND COURSES**

- (i) September 2008-August 10; University Based Learning Cycle (Activity 2). Strengthening of University capacity for promoting, facilitating and teaching rural innovation processes (SUCAPRI).
- (ii) 3rd -7th February 2003; Marker Assisted Selection for Agriculture. Kawanda Agricultural Research Institute C.I.A.T. (Uganda).
- (iii) August-December 2000; Gene Manipulation For Agriculture. Osaka Prefecture University (JICA- Japan).
- (iv) February-March 1998; Management for Development Coordinators/ Project Officers. CORAT (Africa). Management and development centre.
- (v) July-August 1994; Project Development and Management. Leadership Training Center, National Council Of Churches Of Kenya.