

**PROF AGNES WAKESHO MWANG'OMBE, EBS**

PhD and DIC, Plant Pathology(Imperial College of Science, Technology and Medicine of Univ. of London), MSc., Plant Pathology & BSc Agriculture(Univ. of Nairobi)

Official Address:

**Prof. A. W. Mwang'ombe, EBS
Professor of Plant Pathology,
Department of Plant Science and Crop Protection,
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University of Nairobi,
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Languages: Excellent abilities in English and Kiswahili (widely used in East Africa upto the village level). Very conversant with mother tongue language (Kitaita).

Personal data:

1. FAMILY NAME: **MWANG'OMBE**
2. FIRST NAMES: **AGNES WAKESHO**
3. NATIONALITY: **KENYAN**
4. CIVIL STATUS: **MARRIED with one daughter**

5. A) EDUCATION:

Institution	Imperial College of Science , Technology and Medicine, London University
Date	1988
Degree/diploma obtained	PhD in Plant Pathology, DIC in Plant Pathology. Thesis entitled "Specificity in pea blight caused by <i>Pseudomonas syringae</i> pv. <i>pisi</i>".

Institution:	University of Nairobi
Date	1982; 1977
Degree/diploma obtained	MSc Plant Pathology; BSc Agriculture. Thesis entitled "Tolerance in <i>Colletotrichum coffeanum</i> Noack to Benomyl and other related systemic fungicides".
	KCPE
AWARDS/Recognition	<ol style="list-style-type: none"> 1. 12th December 2008: Awarded EBS By His Excellency The President of Kenya in recognition of Academic Work in the Country. 2. 1st October 2009: Awarded the Best Woman Researcher for Outstanding Contribution to Crop Production In Africa during The 9th African Crop Science Society Conference (ACSS) which was held in Cape Town, South Africa from 28th September to 1st October 2009. 3. I received an IMPRESSA Award for recognition of excellence in Capacity building, Networking and mentoring young professionals, during RUFORUM Conference on 28th August 2015 in Namibia. 4. I was recognized and honored through tribute as one of the Kenyan women who have excelled in academia : Thursday, May 19, 2011 on International Women's day

6(b)Current and past Key posts held: Work Experience:

- i) Professor of Plant Pathology (1st January 2008 to current), Department of Plant Science and Crop Protection, University of Nairobi.**
- ii) Served as Principal, College of Agriculture and Veterinary Sciences, University of Nairobi from 19th May 2005 to 14th September 2015.**
- iii) Served as Dean (13.3.2003-18.5.2005), Faculty of Agriculture, College of Agriculture and Veterinary Sciences, University of Nairobi.**
- iv) Advisory Committee Member at BecA-ILRI Hub: For InnovAfrica- Innovations in Technology, Institutional and Extension Approaches towards Sustainable Agriculture and enhanced Food and Nutrition Security in Africa (EU Africa Research & Innovation Partnership, a cooperation between EU and AU (the African Union): June 2017 to current.**
- v) Steering Advisory Committee Member of GFAR in Rome, Italy: February 2017 to Current.**
- vi) Currently serving as a Board member of Center for Corporate Governance (CGC): From September 2016 to current.**
- vii) Board Member of ATPS since February 2010 to July 2014.**
- viii) Consortium Board of CGIAR (CB-CGIAR) Member in Montpellier, France : Since February 2011 to 30th June 2016.**
- ix) Chairperson, Kenya Institute for Public Policy, Research and Analysis (KIPPRA) in Nairobi, Kenya from April 2007 to June 2013.**
- x) Board Member of Vision 2030 Delivery Board in Nairobi, Kenya: April 2008-July 2015.**
- xi) Board Member of Kenya Forestry Research Institute in Muguga, Kenya: 31st December 2012 to 30th December 2015.**
- xii) First chairperson, Kenya Professional of Women in Agriculture and Environment Association (KEPAWAE):1995-2001.**
- xiii) Director at Kenya Commercial Bank- Largest Commercial Bank with a country wide network: 1998-June 2001).**

- xiv) Kenya High School (A National Secondary school admitting girls from all over Kenya) : 2000 to 2004.
- xv) Coast Institute of Technology: 2000 to 2003.
- xvi) Board member of African Crop Science Society since 1997. Initially elected to represent women Scientists on the Board but in 2001 elected as a Vice President of African Crop Science Society.
- xvii) President of African Crop Science Society (Elected): October 2003 upto 2005.
- xviii) Advisory Board Member: CTA, Ede, Netherlands: From February 2003 to 2005.
- xix) Scientific Advisory Committee Member: CTA, Ede, Netherlands: Since February 2005 to 2010.
- xx) Technical Advisor Committee Member: BASIC based at ICRAF under ANAFE: 2003 upto 2006.
- xxi) Technical Advisory Committee Member: RUFORUM based in Kampala, Uganda: 2003 upto 2007.
- xxii) Advisory Panel Committee Member, Farm Africa: March 2003 to 2009.
- xxiii) CGIAR Gender Diversity Program based in ICRAF: Advisory Committee Member and Mentor of young women in Agricultural Sciences through a Fellowship Program to Strengthen the Careers of African Women Scientists in Agricultural and Environmental Sciences: 2005-2007: Funded by The Rockefeller Foundation,
- xxiv) African Women in Agricultural Research and Development (AWARD)
Member and Vice-Chair: 2008 to 2011; Funded The Bill and Melinda Gates Foundation

7. LANGUAGE SKILLS:

<i>Language</i>	<i>Reading</i>	<i>Speaking</i>	<i>Writing</i>
English	Excellent	Excellent	Excellent
Kiswahili	Very good	Good	Good
Kitaita (Mother tongue)	Excellent	Excellent	Excellent

8. MEMBERSHIP OF PROFESSIONAL BODIES: **African Crop Science Society(in addition served as President of the Society-2003-05, Vice President-2001-03); Kenya Professional Association of Women in Agriculture and Environment(in addition served as Chairperson of the Society-1996-2002).**

9. Other skills: **Computer skills** (MS word, excel, PowerPoint; **Research grants:** applied , negotiated and attracted funds for agricultural research and capacity building programs from various donors

10. Knowledge, Experience and Abilities:

Relevant Work Experience:

- a) **Served as Principal, College of Agriculture and Veterinary, Sciences, University of Nairobi from from 14th September 2005 upto 14th September 2015.**
Ag. Principal from 19th May 2005 upto 13th September 2005.
- b) **Dean, Faculty of Agriculture (from 13/3/2003 upto 18th May 2005) and Associate Professor of Plant Pathology, Faculty of Agriculture ,University of Nairobi:**
- c) **17 March 1988:** Date of joining University of Nairobi.
- d) **Full Professor of Plant Pathology, Department of Plant Science and Crop Protection: January 2008.**
- e) **Associate Professor in Plant Pathology, Department of Crop Protection, Faculty of Agriculture: May 1997.**
- f) **Senior Lecturer in Plant Pathology in the Department of Crop Science: April 1991.**
- g) **Lecturer in Plant Pathology in the Department of Crop Science: 17th March 1988.**
- h) **Year of Appointment at other Institutions before joining University of Nairobi:**
- | | | |
|---------------------------------|---|--|
| August 1980 - Sept. 1984 | - | Senior Research Officer in Plant Pathology |
| | | Coffee Research Foundation, Ruiru. |
| 1977 - July 1980 | - | Research Officer in Plant Pathology at National Plant Breeding Station, Njoro. |

Institutional/organizational development: As one of the Principals in University of Nairobi, I have been involved in strategic planning, reorganization and implementation of programs in the College of Agriculture and Veterinary Sciences. Has been involved in strategic planning, reorganization and implementation of programs of RUFORUM;

Multi-stakeholder processes/dialogue: This has been utilized extensively during strategic planning in 2003 and 2005 and 2008 for RUFORUM and University of Nairobi respectively and as an advisory committee member in CTA, Netherlands since 2003. An active member of KAPP (Kenya Agricultural Productivity

Program) during its formative stage (2003 upto 2005) hosted in KARI. This is in addition to the several research partnerships/collaborations with various Institutions including development partners directly under my docket.

Capacity development: As a Lecturer at the College of Agriculture and Veterinary Sciences, has been involved in Capacity building programs since 1988, as Dean, Faculty of Agriculture(2003-2005) revised existing and initiated new training programs in the faculty, **engaged as a consultant for RAIN-ASARECA(2006)** in assessing the need for, formulating a and institutional capacities for mounting a postgraduate program(MSc and PGD) in Agricultural Information and Communication Management for East and Central Africa.

2004-2005: Involved directly as Dean Faculty of Agriculture to develop a regional PhD in Dryland Resources Management for funding by Rockefeller Foundation through RUFORUM. This program is hosted by Department of LARMAT, Faculty of Agriculture. This program introduced the first PhD program with a taught course component and now it has been adopted by University of Nairobi since 2015. This program was modeled around the USA Universities experience.

March 2006: Development of Postgraduate Programme for Enhancement of Skills in Agricultural Information and Communication in the ASARECA Region. The terms of reference included: (i) development of criteria for selecting participating institutions and selection of universities and regional partners to participate in the study; (ii) Analysis of the content of MSc programs in agricultural sciences of various universities and identify the prevalent ICT/ICM skills gaps necessary for course module development; (iii) The assessment of the curricular needs for a specialized MSc program in agricultural information and communication management and the demand for graduates of such a program; (iv) Assessment of the curricular needs of a postgraduate diploma level of training in AICM and its potential benefit to industry; (v) To design generic course curricula for MSc and postgraduate diploma course programs and for the bridging course module for enhancing ICT/ICM capacity among graduates; (vi) The development of criteria necessary for selecting a university to mount the course programs; (vi) To develop and recommend criteria for selecting student beneficiaries for the

training program; (vii) To evaluate other forms of intervention for their suitability for inclusion as components of the proposed training program, and (viii) To recommend feasible strategies for implementing the training program in an equitable and sustainable manner in the region.;

2008-2011: Developed a short term skills enhancement program co-hosted by CAVS and KEPHIS for building capacities in Phytosanitary rules and regulations for ECA/COMESA countries. In addition, developed senate approved courses at Certificate, PG Diploma and Masters. This was through FAO funding. It was a collaborative program with UoN, FAO, CABI, Dutch government. The Phytosanitary Centre of Excellence (COPE) will be established with two major functions:

1. To train phytosanitary inspectors and quality control experts from National Plant Protection Organizations (NPPOs), as well as sensitize farmers and exporter associations on phytosanitary matters both on practical and academic levels;
2. To provide the private sector industry and the NPPOs with inputs in Plant Risk Analysis (PRA) and pest management in African countries to enhance the import and export of agricultural commodities to protect plant resources and enhance access to export markets.

The training will be done in collaboration with the CAVS at [University of Nairobi](http://www.universityofnairobi.ac.ke), KEPHIS and other collaborating phytosanitary regulatory institutions in the East African region. <http://www.copeeastafrica.org>

2010-Current: www.semis-africa.org

Our guiding moto is “GROWING THE SEED INDUSTRY IN AFRICA”

SEMI is a UoN capacity building program funded by AGRA and started in 2010. It started with short term skills enhancement courses for private seed company and NPPOs personnel in Sub Saharan Africa. The courses include seed production; seed business management; seed marketing; seed drying, processing and storage; Seed Quality Assurance and Seed Enterprise Quality Management; Plant Protection Organisations (NPPO’s) Quality Regulators; Seed Production Field Diagnostic.

In 2011-2012 SEMI developed an MSc, PG Diploma and Certificate courses which were senate approved and the MSc was mounted in 2014 attracting regional students which are AGRA sponsored. This program is building the needed capacity which is helping mobilize high yielding breeder varieties for improved Agricultural productivity.

SEMI is a collaborative program where I am the main program Coordinator/PI at UoN, with partners namely Iowa State University, CIMMYT, KALRO, KEPHIS, Kenya seed, Leldet seed company, Drylands Seed Company and Private Consultants.

SEMI's capacity building program has had three phases which have in the process established seed processing plant and associated facilities for training and seed quality assessments for learning, research and support private seed sector.

SEMI's by December 2020 has trained 1320 personnel in private Seed Sector and allied personnel in 22 countries in Sub Saharan Africa.

SEMI's went virtual during the COVID 19 era. SEMI's skills course modules went virtual and thereafter trained participants from University of Rwanda sponsored by AGRA and another virtual workshop was sponsored by Syngenta Foundation for Sustainable Agriculture (SFSA) and participants were drawn from Nigeria and Tanzania Seed Private companies.

2016 (March): Conducted Training of Training Workshop for West Africa Francophone countries in Senegal for NPPOs and Seed Regulators, Seed Business Management, Seed Marketing, Seed Production and Pests diagnostics in seed crops.

26 - 29th September 2017: Hosted the Global Forum of Agricultural Research (GFAR) workshop, at SEMI's in the University of Nairobi, on the initiative on Transformational Learning and Student Leadership Development.

This initiative was developed in collaboration with GFAR, RUFORUM and University of Nairobi where I was the key person in the University of the Nairobi. This initiative aims to incorporate comprehensive transformational learning and student leadership development which is needed in our agricultural and life science schools and universities, to develop not only academic knowledge, but also intellectual, professional, physical, spiritual and emotional aspects of the students. The transformational approach will inspire, guide and equip the students with the knowledge, skills and attitudes to meet their aspirations, access resources and grow into qualified, skilled and knowledgeable graduates capable of realizing their individual targeted future through finding their way through entrepreneurship, leadership, appropriate employability or agri-business venturing, and possessing the agility and the ability to innovate and lead the progress of their societies and of research and knowledge in their domains and realize the targeted developmental impact.

Research and Research to policy linkages: Field of expertise: Agriculture but subspecialised in plant pathology with emphasis on plant resistance to diseases, pathogen specialization, seed borne pathogens and diseases. In addition, actively involved in action research and Agricultural development projects. Incorporates Participatory Rural Approach in field research and agricultural technology transfer targeting rural women farmers through their women groups for needs assessment, project planning and implementation. Expert in project identification, writing project proposals ,Scientific papers and reports, implementation and monitoring of projects. As a trainer , has trained several MSc students and PhD Students in the last 27 years. All my work is gendered. Has good international relations which has

helped in attracting research funds, initiate collaborative projects and higher education links.

As a researcher and one of the policy makers in the University of Nairobi, has been actively engaged in Agricultural activities, policy formulation and implementation. At CTA, has been involved in policy briefs formulation in the area of Agriculture, Environment and tertiary education; **Training through Open and distance learning (ODL): Initiated and operationalised a collaborative pilot ODL program among University of Nairobi, University of Florida, CIAT and Makerere University. This program had pilot students. Later initiated implementation of ODL programs at CAVS.**

Girl Child education in Kenya:

During my spare time, I devote my time to helping young girls from disadvantaged backgrounds access education:

Through Kenya Professional Association in Agriculture and Environment (KEPAWAE) and as a Chairperson(1995 to 2002), I had attracted International Funds for the benefit of brilliant girls from resource poor families who are financially supported right through their High School education.

CGIAR GENDER DIVERSITY PROGRAM BASED IN ICRAF:

Served as committee member for the East African countries as well as a mentor for young women in Agricultural Sciences. The program was funded by The Rockefeller Foundation. (2005 upto 2008).

From March 2008 to 2011: AWARD Steering Committee member and Vice-Chair. AWARD which is Funded by Bill and Melinda Gates Foundation.

11. SUMMARY OF CONSULTANCY SERVICES UNDERTAKEN:

Afew examples are below:

Date	7-26 th October 2018
Location	Ghana and Cote D'Ivoire
Organization	AAU/World Bank
Position	Consultant
Description	ACE Impact Evaluation and site verification
Date	May 2016 to October 2016
Location	Kenya, Tanzania, Rwanda and Cameroon

Organization	BecA-ILRI Hub
Position	Consultant
Description	Review Panel for the BecA-Sweden Partnership activities
Financed by	SIDA-Sweden
Date:	2006(February to November but on average one week per month)
Location:	ASARECA Countries but localised at Entebbe
Company / Financed by:	RAIN –ASARECA; EU
Position:	Consultant

Description	<p>Development of Postgraduate Programme for Enhancement of Skills in Agricultural Information and Communication in the ASARECA Region.</p> <p>The terms of reference included: (i) development of criteria for selecting participating institutions and selection of universities and regional partners to participate in the study; (ii) Analysis of the content of MSc programs in agricultural sciences of various universities and identify the prevalent ICT/ICM skills gaps necessary for course module development; (iii) The assessment of the curricular needs for a specialized MSc program in agricultural information and communication management and the demand for graduates of such a program; (iv) Assessment of the curricular needs of a postgraduate diploma level of training in AICM and its potential benefit to industry; (v) To design generic course curricula for MSc and postgraduate diploma course programs and for the bridging course module for enhancing ICT/ICM capacity among graduates; (vi) The development of criteria necessary for selecting a university to mount the course programs; (vi) To develop and recommend criteria for selecting student beneficiaries for the training program; (vii) To evaluate other forms of intervention for their suitability for inclusion as components of the proposed training program, and (viii) To recommend feasible strategies for implementing the training program in an equitable and sustainable manner in the region.</p> <p>To name a few, other Curricula developed under my research grants:</p> <ol style="list-style-type: none"> 1. COPE for horticulture export practitioners in East and Central Africa. Program developed in collaboration with: UoN, CABI, KEPHIS. 2. MSc-Seed Technology and Business Management but under the support of AGRA. 3. PhD Dryland Resources-with RUFORUM but under the support of Rockefeller Foundation.
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Date:	October- November 2006
Location:	Nairobi & Naivasha, Kenya
Company / Financed by:	IDRC

Position:	Consultant
	ACE consultant under World Bank through AAU, Acra (2013-2014 & 2018)
Description:	<p>To refine selection criteria and assess and select concept notes on climate change adaptation in Africa: a program on research and capacity building.</p> <p>The purpose of the CCAA programme is to <i>significantly improve the capacity of African countries to adapt to climate change in ways that benefit the most vulnerable</i>. This overall purpose is broken down into four objectives:</p> <ol style="list-style-type: none"> 1. To strengthen the capacity of African scientists, organizations, decision makers and others to contribute to adaptation to climate change. 2. To support adaptation by rural and urban people, particularly the most vulnerable, through action research. 3. To generate a better shared understanding of the findings of scientists and research institutes on climate variability and change. 4. To inform policy processes with good quality science-based knowledge. <p>Continues to review concept notes and proposals on Climate and Change under the CCAA programme for IDRC.</p>
Date:	31st March to 17th April 2003 and July 2003:
Location:	Seychelles
Company / Financed by:	FAO
Position:	Consultant
Description:	FAO Mission in Seychelles on Diagnostics of Plant diseases and writing of a field/ farmers plant diseases (occurring in Seychelles) manual. Produced a diagnostic manual for FAO.

Date:	25th November- 6th December 2002:
Location:	Nairobi
Company / Financed by:	FAO
Position:	Technical Support person
Description:	International Standards for Phytosanitary Measures and Phytosanitary Systems Evaluation Training Workshop organized by FAO at CABI International Africa Regional Centre, Nairobi, Kenya.

Date:	May 2002
Location:	Nairobi
Company / Financed by:	FAO
Position:	Served as a Trainer at a FAO Workshop:

Description:	FAO Workshop: Senior Plant Quarantine Officers Training In Contemporary Phytosanitary Measures and Procedures, at Agricultural Information Centre, Kabete, Nairobi..
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Date:	29th October –2nd November 2001.
Location:	At Agricultural Information Centre, Kabete, Nairobi
Company / Financed by:	FAO
Position:	Trainer
Description:	FAO Workshop: Senior Plant Quarantine Officers Training In Contemporary Phytosanitary Measures and Procedures, at Agricultural Information Centre, Kabete, Nairobi

Date:	2000:
Location:	Coast, Kenya
Company / Financed by:	Pathfinder
Position:	Consultant
Description:	To evaluate the impact of HIV/AIDS and resources available for home care of AIDS patients in Kisauni and Likoni in Mombasa District, Kenya.

Date:	1999
Location:	Maasai Mara, Kenya
Company / Financed by:	CDC
Position:	Consultant
Description:	Served as a consultant to map resources and plan for their utilization in the context of man, wildlife and introduction of crop farming in Maasai Mara, Kenya.

12. Funds Mobilization:

a) Fund raising efforts through University:

Successfully negotiated with and received funds from donors through the University of Nairobi for the following projects:

Sources:

- i) Dean's Committee, University of Nairobi. Title of research project: The mechanism of infection to coffee, *Coffea arabica*, by *Colletotrichum coffeanum* Noack.

Date of start: January 1990

Value: Ksh. 103,897.

- ii) Commonwealth Sciences

Value: \$1800

Date: 1989

Project Title: Pilot studies on the relationship between disease, insects and weeds in intercropping systems.

- iii) Rockefeller Foundation
Value: US\$ 60,000
Date: 1991
Project Title: Bean Pathology Project
- iv) BADC (Belgium)
Value : Ksh. 30 million
Date: 1996-2001
Project Title: ASAL PIGEONPEA
- v) EU
Value: Euros 543,500
Date: 1997-2001
Project Title: ASAL PIGEONPEA
- vi) Rockefeller Foundation,
Date :1998-2001
Project title: Beans/maize intercrop
Value: US\$ 60,000
- vii) Rockefeller Foundation
Date: June 2001-May 2003.
Value:US\$74,227.
Project Title: Determination of prevalence and incidence of bean root rot disease complexes and their causal agents in Farmers' fields in Eastern and Coast provinces of Kenya.
- viii) Rockefeller Foundation:
Date: December 1, 2002- November 30,2003
Value: US\$20,700
Project title: Curriculum and staff development in the faculty of Agriculture, University of Nairobi, Kenya: review, evaluation, and way forward .
- ix) Rockefeller Foundation
Gray leaf spot disease of maize in Kenya: **US\$:74,100.**
Start: 2004
End : 2007
- X) USAID : A collaborative program on Strengthening Environmental and Agricultural Capacities through Distance Education (SEAC-DE) -A Collaborative Program of University of Florida and CIAT in Partnership with University of Nairobi and Makerere University. It is a funded Pilot Project for Africa
US\$12,000.
Start: 2005
End: 2009
- xi) RAIN-ASARECA: Proposal and Scientific writing workshops for academic staff members of the

College of Agriculture and Veterinary Sciences, University of Nairobi in November 2006: : **Euros22,422..**

- xii) March 2007 upto 18 Months later : Agricultural Innovation Dryland Africa (AIDA)- EU (INCO) Project : **Euros 274,000.**
Project Partners : CIRAD- Coordinator, University Of Nairobi, AGHYMET Regional Center, RUFORUM, Bunda College, University of Malawi, Plant Research International WUR, Wageningen University & Research, FARA and CTA Netherlands.
- xiii) March 2007 upto 2 years later : ACCCA Pilot Action Livelihoods under climate variability and change: An analysis of the adaptive capacity of rural poor to access water scarcity in Kenya's drylands.
Funds: US\$70,000. Supporter: United Nations Institute for Training and Research (UNITAR), Geneva
- xiv) **Title: IMPROVED FOOD AND NUTRITION SECURITY AND ECONOMIC EMPOWERMENT OF WOMEN FARMERS AND HIV/AIDS AFFECTED FAMILIES, THROUGH PROMOTION OF PRODUCTION AND MARKETING OF MILK AND VEGETABLES IN KENYAN COAST.** It's a collaborative project between Centre for Sustainable Livelihoods, University College Cork/College of Agriculture and Veterinary Science, University of Nairobi
Donor: IrishAid
Amount: Euros187,000 for two years
Start: 2007
End: 2010
- xv) **Title: African Phytosanitary Centre of Excellence (COPE).** Partners : University of Nairobi (**UoN**), International Plant Protection Convention (IPPC) hosted by FAO, CAB International (CABI), Kenya Plant Health Inspectorate Service (KEPHIS), Inter African Phytosanitary Council (IAPSC) and NPPO, Netherlands.
Amount to UoN: US\$60,000.
Donor: FAO
Start: March 2008
End: 2011
- xvi) **SEED ENTERPRISE MANAGEMENT INSTITUTE (SEMI)s:**
Amount US\$4.7 Million
Start: 1st February 2010
Period: Three years
- xvii) **RESEARCH TITLE:**
IMPROVED FOOD AND NUTRITION SECURITY AND LIVESTOCK FEED FOR ECONOMIC EMPOWERMENT OF WOMEN FARMERS THROUGH PROMOTION OF DISEASE FREE CASSAVA PLANTING

**MATERIALS IN AN INTEGRATED CASSAVA AND LEGUME INTERCROP
IN KENYAN COAST**

Amount: Kshs7,000,000.

Start: July 2011

Donor: NACOST

Period: Three years

xviii) SEMIs Phase II:

Amount: US\$1.82 Million

Donor: AGRA

Start: June 2014

Period: Two years

xix. SEMIs Phase 111

Amount: US\$718,000

Donor: AGRA

Start: November 2016

End: February 2018

xx. Cassava project

Amount: US\$350,000.

Donor: Master Card Foundation through RUFORUM

Start: 1st April

End: 31st December 2021.

xxi) SEMIs-ToT-South Sudan

Donor: AGRA

Amount: US\$75,000.

Date: July 2019

xxii. Guava and Cowpea project

Donor: BLE, Germany

Amount: Euro: 995,000

Start: 1st September 2018

End: 31st 2022

xxiii) SEMIs

Donor: AGRA

Amount: US\$75,000.

Date: January 2020.

xxiv)ESSA- Earth observation and environmental sensing for climate-smart sustainable agropastoral ecosystem transformation in East Africa.

Donor: EU

Amount: Euro5,000,000.

Start: December 2020.

End: April 2024.

xxv)SEMIs-ToT-Rwanda

Donor: AGRA

Amount: US\$75,427.

Date: February 2020.

xxvi)Syngenta Foundation for Sustainable Agriculture (SFSA): October 2020-December 2020: Supported virtual Workshop in Seed Business Management and Seed Marketing: Participants from Nigeria and Tanzania.

b) **African Crop Science Society:**

(i) Source of Funds: The Rockefeller Foundation:

Date: October 1, 2002- December 31,2003.

Value: US\$37,026.

Project title: Support of the organizational and management structures of The African Crop Science Society conference(6th ACSS) held in Kenya: 12-17th October 2003.

ii) Source of Funds: Rockefeller Foundation, Ford Foundation, TWAS and locally: For actual conference (6th ACSS Conference) events and sponsorship: **US\$300,000.**

iii) 7th ACSS Conference, Entebbe Uganda: Mainly Women Scientists and a few male Scientists: Ford Foundation, Sygenta. Total value: **US\$15,000.**

iv) 8th ACSS Conference, El Mania, Egypt : so far attracted **US\$5000.**

c) Kenya Professional Association for Women in Agriculture and Environment (KEPAWAE):

(i) funds I have personally negotiated for:

■ Setting of KEPAWAE Secretariat and short training for members:US\$50,000

■ Girl Child Programme funds:Us\$30,000-1997

Us\$30,000-1998

Us\$28,500-1998

-Others: Gender network: Us\$ 5,000

Directory: Us\$ 6,000

Ford Foundation: **US\$63,000.**(December 1999 to December 2001)

Ford Foundation:US\$78,200(September 2001- August 2003)

EDDI under USA Embassy: **US\$100,000.**(Kepawae girlchild program-April 2000).

EDDI under USA Embassy: **US\$100,000.**(Kepawae girlchild program July 2001).

K. Hofwyck: **US\$53,000**(Kepawae girlchild fees and mentoring).

Anonymous USA Donor : **US\$150,000.**

13. POSTGRADUATE SUPERVISION:

a) Supervision of MSc.

Research students :

1. J. Kimenju - 1989/90 - Identification of resistance in tomato cultivars to *Clavibacter michiganense* subsp. *michiganense* using isoenzyme patterns, bacterial cell count and stem discoloration.
2. E. Njoya, 1989/90 - Etiology and effect of plant age and leaf position on the susceptibility of pigeonpea (*Cajanus cajan*) to the leafspot pathogen *Mycovellosiella cajani*.
3. S.O. Otieno, 1989/90 - Assessment of the level of bean (*Phaseolus vulgaris*) seed infection by *Pseudomonas syringae* pv. *phaseolicola* and its implications on disease incidence and severity.

4. J. O. Ondura, 1989/90 - The influence of organic mulches on maize (*Zea mays*), weeds and diseases.
5. E. K. Gichuru - 1991/92 Isozyme patterns and enzyme activities of *Coffea arabica* cultivars susceptible and resistant to coffee berry disease.
6. G. O. Isanda - 1991/92 - Assessment of bean seed (Cv Rose coco - GLP-2) for infection/contamination by anthracnose pathogen, *Colletotrichum lindemuthianum* (Sacc and Magn) Bri & Cav.
7. T. W. Karanja - 1991/92 - Bean (Cv Rose coco -GLP-2) seed assessment for infection/contamination by ALS pathogen, *Phaeoisariopsis griseola*.
8. P. N. Ngaruiya - 1991/92 - Antibiotic activity of some plant extracts on *Pseudomonas syringae* pv. *phaseolicola* (Burk 1926) Young, Dye and Wilkie 1978 and *Xanthomonas campestris* pv *phaseoli* (Smith) Dowson.
9. Njambere, E.N. 1993/94: Cultural and morphological characterization of *Mycovellosiella phaseoli* Deighton and assessment of bean lines for resistance to floury leafspot.
10. Wagara, I. N. 1993/94. Resistance of *Phaseolus vulgaris* L. to angular leafspot and pathogenic variation in *Phaeoisariopsis griseola* (Sacc.) Ferr.
11. M. W. Wakahiu - 2000. Assessment of level of bean (*Phaseolus vulgaris* L.cv. Rosecoco GLP-2) seed infection and contamination by *Macrophomina phaseolina* and its implication on disease incidence and severity.
12. J. N. Kigamwa - 2002. Assessment of seedborne inoculum of *Pyricularia grisea* (Cooke) Sacc. in finger millet, *Eleusine corocana* and its implication on disease incidence and severity.
13. Ateka, E. M.1999: Studies on the interaction between root-knot nematodes(*Meloidogyne spp.*) and the bacterial wilt pathogen, *Ralstonia solanacearum*, in potatoes. Pp96 MSc.UoN.
14. Gatheca, F.M.-2000: Screening for resistance to *Mycovellosiella* leafspot and sporulation of *Mycovellosiella cajani* in pigeonpea lines.
15. Wachenje, C. W.-2002: Bean production constraints, bean seed quality and effect of intercropping on floury leaf spot disease and yields in Taita Taveta district, Kenya..
16. Mwaniki, A. W.-2002: Assessment of bean production constraints and seed quality and health of improved common bean seed.
17. Githinji Thiong'o-2004: Bean root rots in Embu district: Graduated in 2005

18. Kipsumbai, P.-2004: Bean root rots in Taita Hills: Graduated in 2004
19. Mwalugho Mcharo: started in 2004/2005: Grey leafspot of Maize: pathogen variability and host resistance. Graduated in 2009.
20. Margaret Katumbi: started in 2004/2005: Grey leafspot of Maize: pathogen variability using molecular techniques.
21. Julia Mnyambo: started in 2007/2008: Crop Protection aspects for Indigenous Vegetables. Graduated in 2009
22. Charles Orek: Started 2006: Drought resistance in sorghum : Graduated in 2009
23. MSc Thesis by Mary Njonjo-Quality of Cowpea seeds used by framers in Makueni and Taita Taveta counties and its effect in Crop Performance (2018), pp 103.
24. MSc Thesis by Fulano Alex Muremi-Management of pests and diseases in snap beans by use of microbial antagonists and plant extracts (2016), pp 108
25. MSc Thesis by Buyela Sharon Natecho -Quality of wheat seed in Nakuru county and the effect of seed treatment on seed viability and vigour (2017), pp 89
26. MSc Thesis by E. Atsango Wesonga - Use of amino oligosaccharins and Alternaria activated protein in management of crown gall and enhancement of growth in roses (2017-2019)
27. MSc Thesis by Masheti O. Yona- Resilience of bean genotyped to major bean diseases over time and environments (2017-2019).
28. **MSc Thesis by Samwel Angira Onyango-Development of protein and mineral enriched cassava root-millet-cowpea leaves composite flour from selected popular cassava varieties in Kilifi and Taita-Taveta counties, Kenya(2017-2019).**
29. **MSc Thesis by Amos Nyangira Tirra- Economic analysis of smallholder farmers' participation in the cassava marketing value chain in Taita-Taveta and Kilifi counties, Kenya (2017-2019).**
30. MSc Thesis by Anthony Livoi- Prevalence of Cassava Bacterial Blight in Kenyan Coast and Its Detection in Planting materials.(2017-2019).
31. MSc Thesis by Rose N. Kamau- Potential of companion cropping in the management of whiteflies and associated cassava viral pathogen in Kenyan coast.(2017-2019).

32. MSc Thesis by Samuel Mumira Mwathi- Microbial and chemical content of fermented cassava leaves from selected varieties in Kilifi and Taita Taveta counties as affected by lactic acid bacteria species, storage and packaging (2018-2020).
33. **MSc Thesis by Sospeter Gachuhi Gachamba (2017-2019):** Detection of *Ralstonia Solanacearum* by loop mediated isothermal amplification and identification of potential sources of infection in a selected seed network.
34. **MSc Thesis by** Kidasi Patrick Clay (2018-2020): Validation of protocols for mass production of quality healthy cassava planting materials.
35. **MSc Thesis by Elijar Mwangi (2019-2021):** Cassava peels for poultry feeds.
36. MSc Thesis by **Miano Ann Wanjiru**-Post harvest handling knowledge and practices of cow peas leaves by handlers in Kitui and Taita Taveta counties and the physicochemical changes of the leaves during storage(2018-2020).

b) PhD students Supervision :

1. D. M. Masaba - 1989/92. Biological control of *Colletotrichum Coffeanum* (PhD - registered at University of Reading).
2. Kinyua, M. G. 1992/95 - Transfer of genes for resistance to yellow rust (*Puccinia striiformis*) from wild emmer (*Triticum dicoccoides* Korn) into Kenyan wheat commercial varieties.
3. Songa, W. 1992/95 - Biology of *Macrophomina phaseolina* (Tassi) Gold. in relation to dry bean (*Phaseolus vulgaris* L.) and selection for ashy stem blight cultivars for the semi-arid areas of Kenya (Ph.D - registered at University of Reading, England).
4. Omondi, C. O. 1994/1998. Variation in Pathogenicity of and resistance of arabica coffee to strains of *Colletotrichum kahawae* (Synon. *C. coffeanum*).
5. Kimenju, J. W. 1994/98 - Identification and biological control of lesion nematodes (*Pratylenchus* spp.) affecting maize production in Kenya.
6. Kiprop, K. Ezekiel(start in 1997-2001). Screening for resistance to Fusarium wilt in pigeonpea and variability of *Fusarium udum* .PhD.
7. Wagara, I. N.(start 2000-2004). PhD.: Molecular and Virulence characterization of *Phaeoisariopsis griseola* and reaction of bean cultivars to races of the angular leaf spot pathogen. (2005).

8. Bellancile Uzayisenga (Start 2018-2021). PhD- Surveillance, identification and management of Brachiaria grass diseases in Rwanda.
9. Joshua Owade Ombaka (Start 2018-2021). **Physico-chemical, sensory and keeping qualities of cowpea leaves soup mixes.**
10. **Florence Munguti (Start 2018-2021). Distribution and molecular characterization of viruses and vectors associated with cassava brown streak disease in coastal region of Kenya.**

14. **Membership of Professional Bodies:** :

1. **British Society for Plant Pathology since 1982-1996.**
2. Kenya Society for Plant Pathology - since 1989 but now dormant.
3. African Crop Science Society-Since 1993.
4. **Founder Member of Kenya Professional of Women in Agriculture and Environment Association(KEPAWAE):1995 and ASALFO in 2000.**

15. **Extra curriculum:**

1. **First chairperson, Kenya Professional of Women in Agriculture and Environment Association(KEPAWAE):1995-2001.**
2. **Board Member :**
 - a) **Director at Kenya Commercial Bank.** (Since 1998-June 2001)
Largest Commercial Bank with a country wide net-work.
 - b) **Kenya High School**(Since 2000 to 2004)- A National Secondary school admitting girls from allover Kenya.
 - c) **Coast Institute of Technology:** From 2000 to 2003.
 - d) **Board member of African Crop Science Society** since 1997.
Initially elected to represent women Scientists on the Board but in 2001 elected as a Vice President of African Crop Science Society.
 - e) **President of African Crop Science Society:** Elected October 2003 upto 2005.
 - f) **Advisory Board Member: CTA, Ede, Netherlands:** From February 2003 to 2005.
 - g) **Scientific Advisory Committee Member: CTA, Ede, Netherlands:** Since February 2005 to 2013.

- h) **Technical Advisory Committee Member: BASIC based at ICRAF under ANAFE:** From 2003 upto 2006.
- i) **Technical Advisory Committee Member: RUFORUM based in Kampala, Uganda:** From 2003 upto 2007.
- j) **Advisory Panel Committee Member, Farm Africa:** From March 2003 to 2010.
- k) **CGIAR Gender Diversity Program based in ICRAF:** Advisory Committee Member and Mentor of young women in Agricultural Sciences through a Fellowship Program to Strengthen the Careers of African Women Scientists in Agricultural and Environmental Sciences :
 - 2005-2007: Funded by The Rockefeller Foundation,
 - 2008 to 2011: AWARD Member and Vice-Chair: Funded The Bill and Melinda Gates Foundation
- l) **Chairperson, Kenya Institute for Public Policy, Research and Analysis (KIPPRA) from April 2007 to 2013.**
- m) **Program Advisory Committee (PAC) Member of Consultative Group on International Agricultural Research (CGIAR)'s Global Open Food and Agricultural University (AGROCURI formerly GO-FAU) from January 2007 to 2010.**
- n) Sustainable Development (A challenge for European Research) Conference Scientific Committee members . Refer to the official website in the EU structure: http://ec.europa.eu/research/sd/conference_en.html - hosted from 26-28th May 2009, Brussels.
- o) Board Member of Vision 2030 Delivery Board since April 2008- July 2015.
- p) Board Member of ATPS since February 2010- July 2014.
- q) Consortium Board of CGIAR Member-February 2011-2016
- r) Board Member of FEP: 2011- to 2015
- s) Board Member of KEFRI Board 31st December 2012 to 30th December 2015.
- t) Board Member of Center for Corporate Governance: Since 2016- Current
- u) Scientific Advisory Member for BecA Program-Innov Africa-Since 2016- Current.

v) Scientific Advisory Member for GFAR (Rome) –Since 2016-
Current

16. LIST OF PUBLICATIONS:

a) Before promotion to Associate Professor:

1. M.Sc. Thesis (1983) - Tolerance in *Colletotrichum coffeanum* Noack to benomyl and other related systemic fungicides. pp. 149, University of Nairobi, Kenya.
2. Ph.D. thesis (1987) - Specificity in pea blight disease caused by *Pseudomonas syringae* pv *pisii*, pp.159. Imperial College of Science, Technology and Medicine, University of London, England.
3. Comparative efficacy of nine fungicides for control of coffee leaf rust in 1981/82 period in Kenya. Kenya Coffee (1983) 48(567): 169-174.
4. Field evaluation of fungicides for the control of coffee berry disease 1981/82 period in Kenya. Kenya coffee (1984) 49 (575): 75-86.
5. Control of coffee rust in Kenya by copper based fungicides. Kenya Coffee (1985) 50 (584): 307-316.
6. The persistence of benomyl tolerance in *Colletotrichum coffeanum* in Kenya. Kenya Journal of Sciences series B (1988) 9: 55-65.
7. Laboratory evaluation of new fungicides against coffee berry disease. Proceedings of the 1st Workshop “Coffee Berry Disease” Addis Ababa, 19-23 July, 1982 pp. 221-229.
8. Field performance of new copper formulations against coffee berry disease in Kenya Coffee Kenya 51 (593) : 47-53.
9. Field evaluation of fungicides for the control of coffee berry disease in Kenya, Kenya Coffee 51 (598): 201-211.
10. Possible survival mechanisms and control of coffee berry disease fungus strains resistant to Benzimidazole fungicides - at a symposium on integrated pest management in tropical and subtropical cropping systems - Bad Durkheim, West Germany, organized by DLG, February 8th - 15th 1989 Vol. 111. 799-804.
11. Effects of temperature on appressorium formation and pathogenicity of *Colletotrichum coffeanum*. Journal of Plant Protection in the tropics 8(3) : 181-188 (1991).

12. Tolerance in isolates of *Colletotrichum coffeanum* Noack to Prochloraz-manganese in Kenya. *Pesticide Science* (1992) 34: 371-373 (Extended Abstract).
13. Some mechanisms implicated in the survival of benomyl tolerant strains of *Colletotrichum coffeanum* Noack, Casual agent of Coffee berry disease.

Discovery

- and *Innovation* (1992) 4 (no. 2): 109-115.
14. Reaction of pigeonpea genotypes to a leaf spot disease caused by *Mycovellosiella cajani*. *Proceedings of the First Legumes (pigeonpea) Workshop* (1990) eds L. Singh, R.P. Ariyanayagam, S.N. Silim, M.V. Reddy pp 155-164.
15. The effect of media and light regimes on cultural and morphological characteristics and sporulation of *Phaeoisariopsis griseola*. *East Africa Agricultural and Forestry journal* (1994) 59 (3): 241-251.
16. Performance of advanced generation bean lines selected for multiple disease resistance 1993 in J.B. Smithson (ed). *Proceedings of the fourth Bean Research Workshop, March 3-7 1993 CIAT, African Workshop Series*.
17. Tolerance in isolates of *Colletotrichum coffeanum* to prochloraz-Mn in Kenya. *Journal of Phytopathology* (1994) 140: 114-122.
18. Isolation of race and cultivar - specific elicitors from intercellular fluids of compatible interactions of *Pseudomonas syringae* pv. *pisi* and pea. *Journal of Phytopathology* 143: 303 -305 (1995)
19. Assessment of infection and/or contamination of cv. Rosecoco GLP-2 bean seed by *Pseudomonas syringae* pv. *phaseolicola* in Kenya. *East African Agricultural and Forestry Journal* 60 (3) 149-155 (1995).
20. Pre-penetration events and sporulation of *Colletotrichum kahawae* Waller and Bridge (Syn. *Colletotrichum coffeanum* Noack) on different cultivars of *Coffea arabica*. *East African Agricultural and Forestry Journal* 59 (4) : 327-336 (1994)
21. Some characteristics of pea necrosis elicitor from compatible interactions of *Pseudomonas syringae* p.v. *pisi* and *Pisum sativum*, *African Crop Science Journal* , 4 (No. 1.) : 89-95, (1996).

22. Level of seed-borne *Colletotrichum lindemuthianum* on common bean cv. Rosecoco - GLP2 from small scale farmers in Kenya, African Crop Science Conference Proceedings, Kampala 14-18 June 1993. PP 260-262.
23. Antibiotic Activity of some plant extracts on *Pseudomonas syringae* pv. *Phaseolicola*_(Burk , 1926) Young ,Dye and Wilkie and *Xanthomonas campestris* pv. *phaseoli* (Smith) Dowson. Kenya Journal of Sciences Series B.
24. Cultural studies of *Mycovellosiella cajani* (Henn) Rangel ex Trotter (Syn. *Cercospora cajani* Henn). East African Agricultural and Forestry Journal (1996) Vol. 62 (No 1)
25. Peroxidase activity of *Coffea arabica* cultivars resistant and susceptible to coffee berry disease. African Crop Science Journal (1996). 4 (No 2): 223-232.
26. Screening common bean accessions for resistance to charcoal rot (*Macrophomina phaseolina*) in Eastern Kenya, Exp. Agric. 33: 459-468 (1997).
27. The potential of cropping systems for management of *Macrophomina phaseolina* in semi-arid areas of Eastern Kenya. African Crop Science Conference Proceedings(1997): vol.3:1069-1075.

b) Publications After Promotion to Associate Professor and Full Professor:

28. (a) E. N. Njambere, **A. W. Mwang'ombe**, P. M. Kimani and G. M. Siboe: Screening for resistance to floury leaf spot of beans. **African Crop Science Proceedings vol. 3: 1091-1097, 1997 (ISSN1023-070X).**
- (b) J. W. Kimenju, S. W. Waudu, **A. W. Mwang'ombe**, R. A. Sikora and R.P.Schuster:
Distribution of lesion nematodes associated with maize in Kenya and susceptibility of maize cultivars to *Pratylenchus zaeae*. **African Crop Science Journal(1998): Vol.6(no.4):367-375.**
29. S. O. Otieno, **A. W. Mwang'ombe**, M. Shanker: Halo-blight severity on *Phaseolus vulgaris* CV. Rosecoco-GLP-2 plants and seeds as influenced by the time of inoculation by the time of inoculation. **Kenya Journal of Science series B(1998):12(1&2):21-27.**

30. **A. W. Mwang'ombe**, F. Olubayo, J. P. Baudoin and G. Mergeai: Assessment of crop based farming systems With a focus on pigeonpea in one selected district in Arid and Semi-Arid Lands in the Kenyan Coast. **Proceedings of the International Workshop under European Commission contract N. ERB IC18 CT97 0139: pp 95-104 (1998).**
31. I. N. Wagara, **A. W. Mwang'ombe** and G. M. Siboe: Colonisation of resistant and susceptible bean tissues by *Phaeoisariopsis griseola* (Sacc) Ferr. **African Crop Science Journal (1999):7(no. 4):523-530.**
32. E. K. Kiprop, **A. W. Mwang'ombe**, J. P. Baudoin, P. M. Kimani and G. Mergeai: Occurrence of pathogenic pathotypes of *Fusarium udum* Butler in Kenya. **African Crop Science Conference Proceedings, vol.4 pp.479-487 (1999) (ISSN 1023-070X/99).**
33. C. O. Omondi, P.O. Ayiecho, **A. W. Mwang'ombe** and H.Hindorf: Reaction of some *Coffea arabica* genotypes to strains of *Colletotrichum kahawae*, the cause of coffee berry disease. **Journal of Phytopathology(2000): 148: 61-63.**
34. E. M. Ateka, **A. W. Mwang'ombe**, and J. W. Kimenju: Studies on the interaction between *Ralstonia solanacearum*(Smith) and *Meloidogyne spp.* in potato. **African Crop Science Journal vol. 9(no.3) pp527-535 (2001).**
35. E. M. Ateka, **A. W. Mwang'ombe**, and J. W. Kimenju: Reaction of potato cultivars to *Ralstonia Solanacearum* in Kenya. **African Crop Science Journal vol. 9 No.1, pp251-256, 2001.**
36. C. O. Omondi, P.O. Ayiecho, **A. W. Mwang'ombe** and H.Hindorf: Resistance of *Coffea arabica* cv Ruiru 11 Tested with different isolates of *Colletotrichum kahawae*, the causal agent of coffee berry disease. **Euphytica121:19-24, 2001.**
37. C. W. Wachenje, **A. W. Mwang'ombe**, F. Olubayo and W. Songa: Effect of intercropping maize with different Bean genotypes on the incidence and severity of floury leaf spot disease and yield of beans. **African Journal of Plant Protection vol. 10, pp15-31, 2000.**
38. Guy Mergeai, Paul Kimani, **Agnes Mwang'ombe**, Florence Olubayo, Cecile Smith, Paul Udi, Jean-Pierre Baudoin and Alain Le Roi: Survey of pigeon pea production systems, utilization and marketing in semi-arid lands of Kenya. **Biotechnologie, Agromie Societe et Environnement:5 (3):145-153(2001).**

39. J. P. Baudoin, T. Vanderborght, P.M. Kimani and A. W. Mwang'ombe : Common bean(*Phaseolus vulgaris*) in “**Crop Production in Tropical Africa ed. By R. H. Raemaekers DGIC ISBN 90-806822-1-7**”:pp.317-334.
40. Laxman Singh, S. N. Silim, J. P. Baudoin, P.M. Kimani and A. W. Mwang'ombe : Pigeon pea(*Cjanus cajan*(L.) Millspuagh in“**Crop Production in Tropical Africa ed. By R. H. Raemaekers DGIC ISBN 90-806822-1-7**”:pp.360-377.
41. E. K. Kiprop, A. W. Mwang'ombe, J. P. Baudoin, P. M.. Kimani and G. Mergeai: Cultural characteristics, pathogenicity and vegetative compatibility of *Fusarium udum* isolates from pigeonpea (*Cajanus cajan* (L) Millsp.) in Kenya. **European Journal of Plant Pathology 108: 147-154, 2002.**
42. E. K. Kiprop, J. P. Baudoin, A. W. Mwang'ombe, P. M.. Kimani, G. Mergeai and A. Maquet: Characterization of Kenyan isolates of *Fusarium udum* from pigeonpea (*Cajanus cajan* (L) Millsp.) by cultural characteristics, aggressiveness and AFLP analysis. **Journal of Phytopathology 150: 517-525, 2002.**
43. F. M. Gatheca and A. W. Mwang'ombe: Evaluation of host- pathogen interaction of *Mycovelossiella cajani* with pigeonpea. **African Crop Science Journal vol.11 (no.1): 49-53, 2003.**
44. E. W. Kimani, A. W. Mwang'ombe and P. M. Kimani : Cultural studies of pigeonpea, *Mycovelossiella cajani*(HENN) RANGEL EXTROTTER (SYN. *Cerspora cajani* HENN) : **E. Afri. Agric. For. Journal 67(1):1-10 (2001).**
45. A. W. Mwang'ombe, Kigamwa, J.N. and Mibey, R.K.: State of farmers' finger millet seed health with special reference to *Pyricularia grisea* in Kenya in “ **Integrated Pest Management Conference Proceedings**”:pp 195-199, 2002.
46. I. N. Wagara, A. W. Mwang'ombe, J. W. Kimenju, R. A. Buruchara, R. Jamnadass and P. A. O. Majiwa. Genetic diversity of *Phaeoisariopsis griseola* in Kenya as revealed by AFLP and group-specific primers. **Journal of Phytopathology 152, 235-242, 2004.**
47. A. W. Mwang'ombe, E. K. Kiprop, J. P. Baudoin, P. M.. Kimani and G. Mergeai: Histology of resistant and susceptible pigeonpea infected with *Fusarium udum*. **African Crop Science Conference Proceedings vol. 5: 123-128, 2001 (ISSN 1023-070X).**

48. E. K. Kiprop, A. W. Mwang'ombe, J. P. Baudoin , P. M. Kimani and G. Mergeai: Genetic variability among *Fusarium udum* isolates from pigeonpea. **African Crop Science Journal vol.13 (no.3): 163-172 (2005).**
49. I. N.Wagara, A. W. Mwang'ombe, J.W. Kimenju & R.A. Buruchara: Virulence, variability and physiological races of the angular leaf spot pathogen *Phaeoisariopsis griseola* in Kenya. *African Plant Protection* **11:23-31 (2006)**
50. A. W. Mwang'ombe, G. Thiong'o, F. M. Olubayo and E. K. Kiprop: DNA Microsatellite analysis of Kenyan isolates of *Rhizoctonia solani* from common bean (*Phaseolus vulgaris* L.). *Plant Pathology Journal* **6(1): 66-71 (2007)**
51. A. W. Mwang'ombe, G. Thiong'o, F. M. Olubayo and E. K. Kiprop: Occurrence of root rot disease of common bean (*Phaseolus vulgaris* L.) in association with bean stem maggot (*Ophiomyia* sp.) in Embu district, Kenya. *Plant Pathology Journal* **6(2): 141-146 (2007).**
52. A. W. Mwang'ombe, I. N.Wagara, J.W. Kimenju & R.A. Buruchara: Occurrence and severity of the angular leaf spot of common bean in Kenya as influenced by geographical location, altitude and agro-ecological zones. *Plant Pathology Journal* **6(3): 235-241 (2007).**
53. Agnes W. Mwang'ombe , Pixley K. Kipsumbai1, Ezekiel K. Kiprop, Florence M. Olubayo and Joel W. Ochieng: Analysis of Kenyan isolates of *Fusarium solani* f. sp.*phaseoli* from common bean using colony characteristics, pathogenicity and microsatellite DNA. *African Journal of Biotechnology* Vol. 7 (11), pp. 1662-1671, 3 June, 2008. Available online at <http://www.academicjournals.org/AJB>. ISSN 1684-5315 © 2008 Academic Journals.
54. Editors: M.P. Nampala, J.S. Tenywa, A.W. Mwangombe, M.Osiru, R. Kawuki & M. Biruma. The proceedings of the **Sixth African Crop Science Conference held 12-17 October 2003, Nairobi, Kenya**. The theme of the Conference was *Harnessing crop technologies to alleviate hunger and poverty in Africa*. The papers published herein were included on merit subsequent to a rigorous peer review process. *Click on the links below to access the different sections of the proceedings* Here it is: http://www.acss.ws/?t=a_conf&s=4

a. Crop Improvement

- b. Crop Physiology and Agronomy
- c. Crop Protection
- d. Entomology
- e. Nematology
- f. Post Harvest Utilisation
- g. Socio economics
- h. Soil Fertility Management
- i. Sustainable Agriculture
- j. Weeds
- k. Index by Author

Since being Appointed as Full Professor:

55. D. M. Nyariki, A. W. Mwang'ombe and D. M. Thompson

Land-Use Change and Livestock Production Challenges in an Integrated System: The Masai-Mara Ecosystem, Kenya
J Hum Ecol, 26(3): 163-173 (2009).

56. P.M Mwanyumba, A. Mwang'ombe, E. Lenihan, F. Olubayo, M. S. Badamana, R.G. Wahome and J. W. Wakhungu.

Participatory analysis of the farming system and resources in Wundanyi location, Taita district, Kenya: A livestock perspective.
Livestock Research for Rural Development 22(2): 1-13 (2010).

57. P.M Mwanyumba, R.G. Wahome, A. Mwang'ombe, E. Lenihan and M. S. Badamana.

A dynamic study of Small Holder mixed farms in Wundanyi, Taita district, Kenya: Activities, performance and interactions.
Livestock Research for Rural Development 22(3):1-13(2010).

58. The challenges of rehabilitating denuded patches of a semi-arid environment in Kenya.

Kevin Z. Mganga^{1*}, Moses M. Nyangito¹, Nashon K. R. Musimba¹, Dickson M. Nyariki¹, Agnes W. Mwangombe², Wellington N. Ekaya³, William M. Muiru², Daniele Clavel⁴, Judith Francis⁵, Ralph von Kaufmann⁶ and Jan Verhagen⁷

African Journal of Environmental Science and Technology Vol. 4(7), pp. 430-436, July 2010

Available online at <http://www.academicjournals.org/AJEST>
 ISSN 1991-637X ©2010 Academic Journals

59:

Livelihoods under Climate Variability and Change: An Analysis of the Adaptive Capacity of Rural Poor to Water Scarcity in Kenya's Drylands

¹A.W. Mwang'ombe, ²W.N. Ekaya, ¹W.M. Muiru, ¹V.O. Wasonga, ³W.M. Mnene, ¹P.N. Mongare and ¹S.W. Chege

¹University of Nairobi, Kenya

²Regional Universities Forum for Capacity Building in Agriculture, Uganda

³Kenya Agricultural Research Institute, Kenya

60.I. N.Wagara, **A. W. Mwang'ombe**, J.W. Kimenju & R.A. Buruchara.
Variation in aggressiveness of *Phaeoisariopsis griseola* and angular leafspot development in common bean.

Journal of Trop. Microbiol. Biotechnol. , 2007, 3(2): 3-13.

61. I. N.Wagara, **A. W. Mwang'ombe**, J.W. Kimenju & R.A. Buruchara. Variation of the selected common bean genotypes to physiological races of *Phaeoisariopsis griseola* occurring in Kenya.

African Crop Science Journal Vol19, No4, pp343-355 (2011)

62. Kevin Z. Mganga, Nashon K. R. Musimba, Moses M. Nyangito, Dickson M. Nyariki, **Agnes W. Mwang'ombe**, Wellington N. Ekaya, William M. Muiru, Daniele Clavel, Judith Francis, Ralph von Kaufmann and Jan Verhagen. The role of Moisture in the successful rehabilitation of denuded patches of a Semi-Arid environment in Kenya.

Journal of Environmental Sciences and Technology 3(4): 195-207, 2010

63. K. Z. Mganga, N. K.R. Musimba, M. M. Nyangito, D. M. Nyariki and **A. W. Mwang'ombe**. Improving Hydrological responses of degraded soils in Semi-Arid Kenya.

Journal of Environmental Science and Technology 3(4): 217-225, 2010.

64. K. Z. Mganga, N. K.R. Musimba, D. M. Nyariki, M. M. Nyangito and **A. W. Mwang'ombe**. The choice of grass species to combat desertification in semi-arid Kenyan rangelands is greatly influenced by their forage value for livestock.

The Journal of the British Grassland society/The Official Journal of the European Grassland Federation (cr)2013: pp 1-7

65. Consumer Demand for Value-added Products of African Indigenous Vegetables in Coastal Kenya: The Case of Sun-dried and Frozen Cowpea Leaves

By Julius J. Okello,^a * Margaret J. Hutchinson,^b Agnes Mwang'ombe,^b Jane Ambuko,^b Florence Olubayo,^b and Martin Mwakangalu^c

<http://dx.doi.org/10.5304/Jafscd.2015.061.004>, pp. 189–207

Published online November 12, 2015

66. Challenges and opportunities in Cassava production among the rural households in Kilifi County in the Coastal Region of Kenya.

By: ¹Mwang'ombe, A. W., ¹Mbugua, S. K., ¹Olubayo, F. O., ¹Ngugi, E. K.,
²Mwinga, R., ²Munga, T., ¹Muiru, W. M.*

¹University of Nairobi, ²Kenya Agricultural Research Institute.

* Corresponding Author

<http://dx.doi.org/10.5304/jafscd.2015.061.004>, pp. 189–207

Published online November 12, 2015

67. The challenges posed by *Ipomoea kituensis* and the grass-weed interaction in a reseeded semi-arid environment in Kenya

Mganga, Kevin Z.; Musimba, Nashon K. R.; Nyariki, Dickson M.; Nyangito, Moses M.; Mwang'ombe, Agnes W.; Ekaya, Wellington N.; Muiru, William M.
International journal of current research Vol. 11, pp.001 - 005, December , 2010

68. Grass Reseeding Technology as a Means of Rehabilitating Degraded Lands and Improving Livelihoods of Agro-pastoral Communities in Semi-arid Kenya

Nyariki, Dickson M.; Mganga, Kevin Z.; Musimba, Nashon K. R.; Nyangito, M. M.; Mwang'ombe, Agnes W.; Ekaya, W. N.; Muiru, W. M.; Clavel, D.; Francis, J.; Von Kaufmann, R.; Verhagen, J.
Agricultural Innovations for Sustainable Development: Contributions from the Finalists of the 2009/2010 Africa-wide Women and Young Professionals in Science Competitions:
Agri Innovation Book Volume 3 Issue 2-pp170(2011); FARA/CTA/RUFORUM.

69. A “win-win” scenario: the use of sustainable land management technologies to improve rural livelihoods and combat desertification in semi-arid lands in Kenya

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Compiled and edited by: **Prof. Agnes W. Mwang'ombe, Prof. Evans Aosa, Prof. Justus M. Munyoki, Prof. Florence Olubayo Dr. Lawrence R. M'Ragwa, Dr. Dora C. Kilalo, Dr. Felister M. Nzuve, Dr. Kennedy O. Ogollah**

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