

CURRICULUM VITAE
PROF. SOLOMON IGOSANGWA SHIBAIRO
DEAN, FACULTY OF AGRICULTURE
UNIVERSITY OF NAIROBI
P.O. BOX 29053, 00625, KANGEMI, NAIROBI, KENYA
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1. PERSONAL INFORMATION.

1. **NAME:** Prof. Solomon Igosangwa Shibairo
2. **DATE OF BIRTH:** October 17, 1960
3. **GENDER :** Male
4. **MARRITAL STATUS** Married with five children
5. **PLACE OF BIRTH** Kimaran Village, Vihiga District in Kenya.
6. **SPOKEN & WRITTEN LANGUAGES** English, Kiswahili and Kiluhya (mother tongue)
7. **NATIONALITY:** Kenyan
8. **FAITH** Christian- Deacon and Sunday school teacher
9. **ADDRESSES**
 - a. Home Address: Mwewe Apartments, No. C8, Kileleshwa, Nairobi
Home Phone: +254 733240739
Home Email: solomonshibairo@yahoo.com
 - b. Work Address: The University of Nairobi, Faculty of Agriculture, P.O. Box 29053, 00625, Kangemi, Nairobi, Kenya
Work Phone: +254-2-2181354
Work Email: deanagric@uonbi.ac.ke; shibairo@uonbi.ac.ke

2. ACADEMIC QUALIFICATIONS

- a. Qualification & Year Awarded PhD (Plant Science) 1996
Institution & Country University of British Columbia, Canada
- b. Qualification & Year Awarded MSc. (Agronomy). 1989
Institution & Country The university of Nairobi, Kenya
- c. Qualification & Year Awarded BSc (Agriculture). 1985
Institution & Country The university of Nairobi, Kenya
- d. Qualification & Year Awarded Kenya Advanced Certificate Education. 1980
Institution & Country Kericho High School. Kenya

E	Qualification & Year Awarded	East African Certificate of Education. 1978
	Institution & Country	Kemeloi High School. Kenya
F	Qualification & Year Awarded	Certificate of Primary Education. 1974
	Institution & Country	Kericho High School. Kenya

3. SHORT COURSES/TRAINING

a.	Name of training & Dates	Performance Enhancement, 28 – 29 th July 2012
	Institution & Country	EMPOWERment™ RESOURCE TECHNOLOGIES LTD
a.	Name of training & Dates	Transformational Leadership, 13 – 15 January 2011
	Institution & Country	EMPOWERment™ RESOURCE TECHNOLOGIES LTD
B	Name of training & Dates	Phytosanitary Re-tooling, 14-15 September, 2009, at Nakuru, Kenya
	Institution & Country	Centre of Phytosanitary Excellence, Eastern Africa.
C	Name of training & Dates	Pedagogy training workshop held at CCU , 2008
	Institution & Country	University of Nairobi, Kenya
d.	Name of training & Dates	FAO regional workshop on GM Food Safety Assessment Training within Biosafety approach, 15-17 April, 2008.
	Institution & Country	FAO and Kenya Plant Health and Inspectorate Services, Nairobi, Kenya
E	Name of training & Dates	Scientific proposal writing, 19- 25 th November, 2006
	Institution & Country	ASARECA, held in Nairobi, Kenya
f.	Name of training & Dates	The Advanced course on the Production, Management and Safety Standards of Horticultural Crops. 22 August – 15 September, 2005
	Institution & Country	At Nanjing Agricultural University, in China.
g.	Name of training & Dates	Advanced training course on "PHOTOSYNTHESIS AND ALGAL BIOTECHNOLOGY, 12 May to 2 th June 1991
	Institution & Country	At Ben-Gurion University, The Jacob-Blaustein Institute for Desert Research, Sede-Boker Campus in Israel,

4. PROFESSIONAL /EMPLOYMENT HISTORY

a.	From date – Present	March 12, 2010 to Present
	Current Employer	The University of Nairobi.
	Current Position	Dean, Faculty of Agriculture

	Position Description	Managing the academic, administrative and social issues in the Faculty of Agriculture
b.	From date – date	2006 to Present
	Employer	The University of Nairobi
	Position	Associate Professor
	Position Description	Teaching, Research and Extension in The Department of plant Science and Crop Protection.
c.	From date – date	1997 to 2006
	Employer	The University of Nairobi
	Position	Senior Lecturer
	Position Description	Teaching, Research and Extension in The Department of plant Science and Crop Protection.
d.	From date – date	1991 to 1997
	Employer	The University of Nairobi
	Position	Lecturer
	Position Description	Teaching, Research and Extension in The Department of Crop Science.
E	From date – date	1992 to 1996
	Employer	The University of British Columbia, Canada, Department of Plant Science
	Position	Research – Assistant
	Position Description	Assisting in tutorials in Biometry, Botany and Horticulture
F	From date – date	1999 to 2003
	Employer	Jomo Kenyatta University of Agriculture and Technology, in Departments of Food Science and Postharvest and of Horticulture
	Position	Part-Time Senior Lecturer
	Position Description	Teaching Postharvest Physiology and Technology
G	From date – date	1989 to 1991
	Employer	The University of Nairobi
	Position	Assistant- Lecturer
	Position Description	Teaching and Research at the Department of Crop Science
H	From date – date	1987 to 1988
	Employer	Ministry of Agriculture

Position	Lecturer
Position Description	Teaching Crop Science to Diploma Students
I From date – date	July 1985 to October 1985
Employer	Ministry of Agriculture, Keiyo-Marakwet District
Position	District Farm Management Officer
Position Description	Advice Farmers in farm management issues

I have computer skills in Microsoft Office, Power Point, Excel, Internet Skills and Proficiency in Learning Management Systems

5. MEMBERSHIP OF PROFESSIONAL ORGANIZATIONS AND AWARDS

(A) PROFESSIONAL ORGANIZATIONS

Member of the Agricultural Society of Kenya (ASK).

Member of the Crop Science Society of Kenya (C.S.S.K.).

Member of the African Crop Science Society

Member of the Soil Science Society of East Africa

National subject panel member for Horticulture Panel for Kenya Institute of Education

Member of the Horticultural Society of Kenya

(B) AWARDS

Awarded a Ph.D Scholarship by Canadian International Development Agency (CIDA)-**1991-1996**.

Awarded a Scholarship to complete a certificate course in Algae Biotechnology by Ministry of Foreign Affairs of the government of Israel- **1991**

Awarded M.Sc. Scholarship by The University of Nairobi Kenya -**1985 – 1988**

Awarded B.Sc. Scholarship by ministry of Education Kenya -**1980 - 1985**

6. WORK AND PROFESSIONAL EXPERIENCE

(A) TEACHING EXPERIENCE

AT THE UNIVERSITY OF NAIROBI

COURSE	DEGREE PROGRAMME	YEARS
Seed Science	M.Sc. (Agronomy and Plant Breeding)	2005-To date
Post—Harvest Physiology and Technology	M.Sc. (Horticulture) and M.Sc. (Food Science and Technology)	2002 –To date
Vegetable Production	B.Sc. (Agriculture)	1998-To date
Crop Production Systems	M.Sc. Agricultural Resource Management	2005

Beverages and Medicinal plants	M.Sc. (Horticulture)	2003
Crop Physiology	M.Sc. (Horticulture, Plant Breeding and Agronomy)	1997-2002, 2005
Biometrics	M.Sc. (Plant Protection)	2000-2008
Advanced topics in field crop production	M.Sc. (Agronomy)	2002
Advanced Vegetable Production	M.Sc. (Horticulture)	1999-2004
Physiological factors affecting crop yield	B.Sc. (Agriculture)	1997-1998
Introduction to Agriculture	B.Sc.(Agricultural Engineering)	1988-1991
Industrial crop production	B.Sc. (Agriculture)	1989-1990
Crop production II: Plant propagation and production of perennial crops	B.Sc. (Agriculture)	1988-1991
Crop production I: Production of field crops	B.Sc. (Agriculture)	1988-1991

AT THE UNIVERSITY OF BRITISH COLUMBIA CANADA

COURSE	DEGREE PROGRAMME	YEARS
Biometrics	B.Sc. (Agriculture)	
Introduction to Plant Science	B.Sc. (Agriculture)	1992-1994

AT THE JOMO KENYATTA UNIVERSITY OF AGRICULTURE AND TECHNOLOGY

COURSE	DEGREE PROGRAMME	YEARS
Post harvest Physiology	B.Sc. (Horticulture)	1999-2003
Post harvest Technology	B.Sc. (Horticulture)	1999-2003
Post harvest physiology and Technology	B.Sc. (Food Science and Technology)	1999

(B) EXTERNAL EXAMINATION

University	Duration	Department
Egerton University	2002- to date	Crops, Horticulture and Soils
Jomo Kenyatta University of Agriculture and Technology	2008-2011	Horticulture
Jomo Kenyatta University of Agriculture and Technology	2011 to date	Land Resource Planning and Management
Maseno University	2011 to date	Plant Sciences

(C) UNIVERSITY ADMINISTRATIVE ACTIVITIES AND RESPONSIBILITIES IN THE DEPARTMENT, FACULTY, COLLEGE, AND UNIVERSITY

Position	Major achievements, highlights
1 Ag. Principal, College of Agriculture and Veterinary Sciences, several times; Between March 2010 to present.	1. Successfully managed college affairs

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|---|--|---|
| 2 | Responsibility at college level | <ol style="list-style-type: none"> 1. Member of college management board 2. Member of college academic board 3. Member of college procurement board 4. Chairman, of the college ISO committee 5. Chair of the alcohol and drugs committee 6. Member of the anti-corruption committee. 7. Been Chairman and coordinator for activities involving students for the Faculty and College: e.g. Tree Planting and Get-Together and the forth years Leavers Dinner. |
| 3 | Dean, Faculty of Agriculture. From March 12, 2010 to Present. | <ol style="list-style-type: none"> 1. Successfully managed faculty affairs. 2. Responsible for academic, financial, administrative issues of over 120 teaching and 200 non-teaching staff and over 1500 students. 3. Refurbished faculty of agriculture building 4. Organized AGRO-2011- The first Biannual Conference for faculty of agriculture as a platform for disseminating information and showcasing research work faculty. 5. Introduced the first electronic journal for the faculty. 6. Organized and launched the Faculty of Agriculture Alumni chapter of the university of Nairobi 7. Development of College of Agriculture and Veterinary Sciences Strategic Plan 2008 and its revision in 2010 8. Developing Bachelor of Science in Water Resource Management 9. Formed committees for grant writing. 10. Oversees the administration of research grants. 11. Overseen development of three Masters and one BSC undergraduate programs on e-learning platforms |
| 4 | Ag. Chairman - Plant Science and Crop Protection Department. Many times from February, 1999 to 2010 | <ol style="list-style-type: none"> 1. Successfully managed the departments affairs successfully |
| 5 | Section Head of the Crop Science Section of the Department of Plant Science and Crop Protection, July 2003 to March, 2010. | <ol style="list-style-type: none"> 1. Lead Instrumental in developing B.Sc. Horticulture Course. 2. Developed a three-month crash program and a Certificate course in skills enhancement in Floriculture and delivered on Open and Distance learning mode. 3. Committee Member on Farm Practice Committee. 2000-2004. |

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|---|---|---|
| 6 | Other responsibilities at Department of Plant Science and Crop Protection | <ol style="list-style-type: none"> 1. Examination Officer of the department 1998 to 1999. 2. Head of Horticulture Unit in Crop Science Department, 2002 to July 2005 3. Committee member representing the Crop Science department in the Faculty of Agriculture curriculum review committee. 4. .Development of faculty of Agriculture strategic Plan 2003 and its revision in 2010 |
| 7 | Responsibilities in the Region | Chairman of the Kenya Chapter of RUFORUM - KENFORUM |

D) EMPLOYMENT IN THE MINISTRY OF AGRICULTURE

In charge of teaching Crop Production Course and Head of Research for Technical Assistants for the Ministry of Agriculture, July, 1987-September, 1988.

In charge of Farm Management issues in the Ministry of Agriculture for the whole District of Keiyo-Marakwet, July, 1985- October, 1985.

(E) RESEARCH

Major research goal: Development of strategies to mitigate food and nutrition insecurity, malnutrition, and poverty alleviation and wealth creation among small scale farmers

(i) RESEACH ACCOMPLISHMENTS:

- A) 2009 to 2012: Collaborated with Prof Mwang'ombe, Pricipal CAVS, Prof. Wahome and colleagues from Makerere University, Sokoine University and LIFE, Copen Hagen in 'Prepare PhD project'
- B) 1999 to 2003: Was the principal investigator and in collaboration with Alice Walingo and Charles Lung'aho both of KARI for the project "Use of indigenous vegetables for alleviation of malnutrition in Western Kenya". Project is sponsored by Thrasher Research Foundation of USA
- C) 1999 to 2001: Collaborated with Dr. S. Sillim and Johnson of ICRISAT to develop post harvest technologies to enable the increase in export and use of green peas of Pigeon peas.
- D) 1999 to 2001, Collaborated with Dr. Hagenimana V. in developing post harvest technologies for handling sweet potatoes.
- E) 1998 to 2002. Was the Agronomist in the project "Mumias food project' A **FORUM** Project sponsored by Rockefeller Foundation of USA.
- F) 1991 to 2002, collaborated with scientists **Prof. Mahesh K. Upadhyaya** of the University of British Columbia, Canada **and Dr. Peter M.A. Toivonen** of Summerland Research Center, Agriculture and Agri-Food, Canada, to develop technologies for post-harvest handling of vegetables. NSSERC

(ii) ON-GOING (CURRENT) RESEARCH

- A) Screening finger millet for production and nutrient content to improve livelihoods of small-scale farmers in drought prone areas of Eastern Province of Kenya.
- B) Evaluation of genetic diversity and health promoting bioactive compounds in *Cleome*

gyanandra (Spider plant) produced under different production systems and agro-ecological conditions in Kenya

- C) Water hole monitoring for livestock early warning by FAO- CO PI
- D) Development of post harvest technologies in indigenous and traditional vegetables and fruits.
- E) Carrying out research in the general area of **horticulture, crop production and crop physiology**. Currently with 4 PhD students.

(iii) RESEARCH GRANTS

- A) **2012-2014**. Grant RU 2012 OG 02: **Coordinator**. Support to 3 Tanzanian MSc students under Ohio iAGRI Project. **\$66,972**.
- B) **2012-2015**. Won and signed from EAAPP as **Principal investigator and Technical PI** of the team. Cassava Post-harvest Value Addition for Improved Food and Nutrition Security and better Livelihoods in Kenya. **Ksh. 48, 000, 000**.
- C) **2012 -2014**. From RUFORUM. **Co-Investigator**. Improving profitability of the Mango Value Chain through Strategies for Off-season Flower Induction, Reliable maturity Indices and Applicable Postharvest Technologies. **\$ 60, 000**
- D) **2011-2012**. **Co Pi** - Water hole monitoring for livestock early warning by FAO- **\$30,000**
- E) **2011-2013**. **Principal Investigator**. Screening finger millet for production and nutrient content to improve livelihoods of small-scale farmers in drought prone areas of Eastern Province of Kenya. Sponsored by RUFORUM. **\$59,930**
- F) **2011-2013**. **Co investigator** in programme. "Enhancing Kenya's food security in the face of climate change through increased potato productivity". Funded by National Council of Science and Technology (NCST). **Kshs 7 000 000**
- G) **2009- 2012**. To present, **Co researcher** on "Prepare PhD" A project member of an EU funded EDulink project. **150 000 EUROS**
- H) **1999- 2003- Principal Investigator**. The Thrasher Research Foundation: - A grant in traditional vegetable research. **\$30, 000**
- I) **1998- 2002- Co-investigator**. The Rockefeller Foundation: - A grant in Food Security Research. **\$60, 000**.
- J) **1991-2002- Student**, Science Council of British Columbia (BC), BC Agricultural Research Council, BC Coast Vegetable Co-operative, and Natural Sciences and Engineering Research Council of Canada (NSERCC). **Canadian \$ 5 000**

(F) SUPERVISION OF POSTGRADUATE STUDENTS.

Theses supervised and graduated.

PHD

1. Charles, Lung'aho. C.M. 2011. Characterization and Conservation of Potato (*Solanum tuberosum* L.) **P. HD. (Agronomy)**.
2. Onyango, C.M. 2010. Pre- and Post harvest factors affecting yield and quality factors of vegetable amaranth (*Amaranthus hybridus*). **P. HD. (Plant Science)**.
3. Kihurani, A.W. 2004. Parthogens and some physical factors associated with postharvest deterioration of sweetpotato. **PH.D. Plant pathology**. University of Nairobi

MSC

4. Maswili, R. kamene, 2009. Assessment of Kenyan sorghum diversity using morphological characteristics and molecular techniques.
5. Jonathan Kipng'eno, 2008. Abundance and nodulation efficiency of garden pea rhizobia in Central Kenya soils.
6. Mwalimu, M. 2008. Development of affordable alternative methods for sprouting seed potato tubers. M.Sc. (Horticulture). University of Nairobi.
7. Gachango, E.N., 2007. Effects of storage conditions on quality and storability of seed and ware potato varieties. M.Sc. (Horticulture). University of Nairobi.
8. Obangi, S.N. 2007. The potential to improve production and quality of Kales on potassium deficient soils in Kenya through balanced fertilization. M.Sc. (Agronomy).
9. Kithusi 2004. The efficacy of biopesticides on control of red spider mites (*Tetranychus evansi*) on tomatoes. M.Sc. (Horticulture).
10. Meyo, C.A., 2004. Effects of nitrogen and phosphorus application on growth yield and leaf quality of vegetable amaranth (*Amaranthus hybridus*). M.Sc. (Horticulture).
11. Sikuku, D.N, 2004. Effect of composted farmyard manure and nitrogen fertilization on growth and yield of maize (*Zea mays L.*). M.Sc. (Agronomy).
12. Nyawenda, L. 2003. Screening local and exotic varieties of tomato (*Lycopersicon esculentum*) for tolerance to waterlogged soil. M.Sc. (Horticulture).
13. Omuolo, F.M. 2002. Effect of inorganic fertilizer and farmyard manure on growth, yield and quality of collard (*Brassica oleraceae* var *acephala*), cat's whiskers (*Cleome gyanandra*) and amaranth (*Amaranthus lividus*). M.Sc. (Horticulture).
14. Onyando, N.R. 2002. Effects of nitrogen and planting density on yield and quality of sweet potatoes. M.Sc. (Agronomy).
15. Muthoni, J. 2001. Effects of minimal rates of phosphorus and nitrogen on the establishment and productivity of the African clover cv. Mealton (*Trifolium quartinianum*).
16. Ambuko, J. 2001. Effect of benzyladenine and gibberellic acid on growth, yield and yield components and shelf life of French beans (*Phaseolus vulgaris* (L.)). M.Sc. (Horticulture).
17. Njoroge, P.K. 2001. Effects of nitrogen and phosphorus fertilization on growth and development and yield of snowpeas (*Pisum sativum* L. var. Macrocarpon). M.Sc. (Agronomy). University of Nairobi.
18. Shikuku, C.A. 2001. Effect of recharging and packaging on moisture loss and quality changes in sweet potato during short-term storage. M.Sc. (Horticulture). University of Nairobi.
19. Opiyo, A.M. 2000. Effect of nitrogen application and plant age on edible yield and quality of black nightshade (*Solanum nigrum* L.) plants. M.Sc. (Horticulture). University of Nairobi.
20. Onyango, C.M. 2000. Effects of pigeonpeas (*Cajanus cajan* (L.) Millsp) genotypes on pod and green pea yield and nutritional quality as influenced by storage conditions. M.Sc. (Horticulture). University of Nairobi.
11. Ngatia, T.M. 2000. Effect of timing of application of gibberellic acid and ethephon on growth, yield and yield components of beans (*Phaseolus vulgaris* L.). M.Sc. (Agronomy). University of Nairobi.
22. Gathungu, G.K. 2000. Effect of source, time and method of application of nitrogen on growth and yield of potato (*Solanum tuberosum* L.). M.Sc. (Agronomy). University of

Nairobi.

Theses under supervision

PHD

23. Titus Magomere. Molecular approaches in the assay of interspecific hybridization within the sorghum genus and transfer of *Sorghum bicolor* genes to weedy species (*S. Sudanese*, *S. halepense*, *S. bicolor* subsp. *verticilliflorum*) with effects on hybrid fitness and fecundity.
24. Jonathan Mutonyi. Management strategies for low pH and potassium deficiency in Mumias sugar zone of western Kenya.
25. Jonathan Kipng'eno. Abundance, genetic diversity and nodulation of cowpea rhizobia in south western Kenya
26. Charity muchoki. Factors affecting levels of vitamins and anti-nutrients in fermented, solar-dried and stored African leafy vegetables
27. Pauline Aluka. Farm Robusta coffee (*Coffea canephora* L.) diversity.
28. Danstan A. Odeny. Physiology of coffee grown under shade

MSC

29. Mueni, P. Yumbya. Effects of 1-Methylcyclopropene (1-MCP) and active bag packaging on the postharvest shelf life and quality of purple passion fruit (*Passiflora edulis*).
30. Nyongesa Oliver. Screening of finger millet varieties for drought resistance and nutritional factors.
31. Ivon Madegwa. Modelling the impact of climate change on growth and yield of finger millet

(G) CONSULTANCIES

1998- worked with the Ministry of education to revise the Primary School Agriculture to include more practicals. The PRASSUPE- Project. GTZ of Germany sponsored the initiative.

I am the Horticulture/Agronomist specialist for the STRATEGIC CENTRE FOR AFRICA – NGO that is currently working to increase irrigation dependant Agriculture in Kenya, Ethiopia, Somalia and Tanzania.

(H) NATIONAL ACTIVITIES.

(i) For Kenya National Examination Council (K.N.E.C.).

I have been marking and moderating the technical subject Crop Production from 1988 to present. I am the Examiner in charge of other Examiners for this paper.

I am an Examiner marking the Practical paper of the subject - Crop production of the Kenya Certificate of Secondary Education (K.C.S.E.) Examinations.

(ii) Community Development.

I am a Deacon in training at my church CHRISCO

I am a bible study teacher.

6. PUBLICATIONS

(A) THESES

- SHIBAIRO, S.I.** A study of postharvest moisture loss in carrots (*Daucus carota* L.) during short-term storage. Ph.D Thesis, The University of British Columbia, Canada, 1996.
- SHIBAIRO, S.I.** The effect of sink-source manipulation and water stress on flower-and pod-abscission, yield and yield components of pigeon peas (*Cajanus cajan* L. millsp). M.Sc. Thesis, University of Nairobi, 1989.

(B) REPORTS:

UON: Mumias food production project.

A report of the Review of the food situation in the Mumias Sugar Scheme, Western Kenya. 1999. P.O. Chitere, F.I. Mugivane, S.I. Shibairo, T.G. Karugia, D. Wanyama-Masinde, O. Odongo.

(C) JOURNAL ARTICLES

1. Lung'aho, C., G. Chemining'wa, **S. Shibairo** and M. Hutchinson. 2012. Dynamics of on-farm management of potato (*Solanum tuberosum*) cultivars in Central Kenya. *African Journal of Agricultural Research*. **7(17)**: 2701-2712, Available online at <http://www.academicjournals.org/AJAR>.
2. Onyango, C., J. Harbinson, J. K. Imungi, **S. Shibairo** and O. van Kooten 2012. Influence of organic and mineral fertilization on germination, leaf nitrogen, nitrate accumulation and yield of vegetable amaranth *Journal of Plant Nutrition* 35 (3). - p. 342 - 365.
3. Lung'aho, C., G. Chemining'wa, **S. Shibairo**, M. Hutchinson and M. Mbiyu, 2012. Cost effective slow growth *in vitro* conservation of potato (*Solanum tuberosum* L.) using table sugar as an alternative carbon source. *African Journal of Biotechnology*, **11(5)**: 1092-1099, 16. Available online at <http://www.academicjournals.org/AJB>
4. J. O. Onditi, Kiarie Njoroge, **Shibairo I. S.** 2011. Identification of suitable parents and temperatures for breeding Potato virus Y (PVY) and Potato virus X (PVX) resistant potatoes. *Agriculture and biology journal of North America*. **2(12)**: 1409-1415. ISSN Print: 2151-7517, ISSN Online: 2151-7525, doi:10.5251/abjna.2011.2.12.1409.1415 © 2011, ScienceHuβ, <http://www.scihub.org/ABJNA>.
5. Lung'aho, C., G. N.Chemining'wa, Fu Yong-Bi, **S. Shibairo**, M. J. Hutchinson and H. Paniagua 2011. Genetic Diversity of Kenyan Potato Germplasm Revealed by Simple Sequence Repeat Markers. *American Journal of Potato Research*. **88(5)**: 424-434.
6. Olubayo, F., D. Kilalo, S. Obukosia, **S. Shibairo**, M. Kasina, 2011. Homopteran pests complex of Citrus (*Citrus sinensis*) in semi-arid Kenya. *International Journal of Sustainable Crop Production*. 6:23-28.
7. T.O Magomere, T.; Obukosia, S. D.; Mutitu, E.; Ngichabe, C.; Olubayo, F.; **Shibairo, S.** 2009. PCR detection and distribution of Huanglongbing disease and psyllid vectors on citrus varieties with changes in elevation in Kenya. Genetic Diversity of Kenyan Potato Germplasm Revealed by Simple Sequence Repeat Markers *Journal of Biological Sciences*, **9**; 697-709.
8. T. O. Magomere, S.D., Obukosia, E., Mutitu, C., Ngichabe, F., Olubayo and **S., Shibairo** 2009. Molecular characterization of Candidatus Liberibacter species/strains causing huanglongbing disease of citrus in Kenya. *Electronic Journal of Biotechnology*, **12**: 1-13.
9. Olubayo, F., A., Kibaru, J. Nderitu, R. Njeru, **S., Shibairo** and M. Kasina. 2008. Management of aphids and aphid-transmitted viruses in stored seed potatoes in Kenya. *International Journal of Crop Production*, **3**; 40-45

10. C.M. Onyango, J.K. Imungi, J. Harbinson and **S.I. Shibairo**. 2009. The physico-chemical characteristics and some nutritional values of vegetable amaranth sold in Nairobi-Kenya. *Journal of Ecology of Food and Nutrition*. **47**; 382- 398.
11. E. Gachango, **S. I. Shibairo**, J. N. Kabira, G. N. Cheminingwa and P. Demo. (2008) Effects of light intensity on quality of potato seed tubers: African Journal of Agricultural Research: 3:732-739
12. J.O. Nyasani, J.W. Kimenju, F.M. Olubayo, **S.I. Shibairo** and G.K. Mutua (2008). Occurance of endomopathogenic nematodes and their potential in the management of diamondback moth in kale. *Asian journal of plant sciences*. **7** (3): 314-318.
13. **S.I. Shibairo**, P. Demo, J.N. Kabira, P. Gildemacher, E. Gachango, M. Menza, R.O. Nyankanga, G.N. Chemining'wa and R.D. Narla. 2006. The effects of gibberellic acid (GA₃) on sprouting and quality of potato seed tubers in diffused light and pit storage conditions. *Journal of Biological Sciences*, **6** (4): 723-733.
14. C.A. Shikuku, C.A., **S.I., Shibairo**, J.K. Imungi, V. Hagenimana and P. Ojiambo. 2006. Effects of recharging on moisture loss and quality changes during short term storage of sweet potato (*Ipomea batata* L.). *Botswana Journal of Agriculture and Applied Sciences*, **2**: 67-78.
15. G.G. Kithusi, M.Knapp, **S.I. Shibairo**, J.K. Nderitu, K.N. Kiarie. 2005. Effects of four biopesticides on the spider mite *Tetranychus evansi*. *Phytophaga*, **XIV**: 1-8.
16. **S.I., Shibairo**, C.A. Shikuku,, J.K. Imungi and V. Hagenimana. 2004. Effect of packaging materials on weight loss and nutrient quality changes of recharged sweet potatoes (*Ipomoea batata* Poir) during short-term storage. *Journal of Agriculture, Science and Technology*.**6**: 29-47.
17. T.M. Ngatia, **S.I. Shibairo**, V.E. Emongor and S.D. Obukosia. 2004. Effects of levels and timing of application of gibberellic acid (GA₃) on growth and yield components of common beans. *The African Crop Science Journal*, **12** (2): 123-131.
18. G.N. Mati, Mburu, M.W.K., Kurji, P.N. and **Shibairo, S.I.** 2003. Effects of nitrogen and phosphorus on growth and yield of ironweed (*Vernonia galamensis*). *East African Agriculture and Forestry Journal*, **60** (2): 109- 118.
19. T.M. Ngatia, **S.I. Shibairo**, V.E. Emongor and S.D. Obukosia. 2003. Effect of ethephon on growth, yield and yield components of beans (*Phaseolus vulgaris* L.). *Journal of Agriculture, Science and Technology*, **5**: 22-38.
20. A. W. Kihurani, **Shibairo, S.I.**, Imungi, J.K. Narla, R.D. and Carey, E.E. 2003. Susceptibility of sweet potato germplasm to rhizopus soft rot caused by *Rhizopus stonifer* and *Rhizopus oryzae* in Kenya. *MUARIK Bulletin*, **6**: 30-34.
21. **S.I. Shibairo**, M.K. Upadyaya and P.M.A. Toivonen. 2002. Changes in water potential, osmotic potential, and tissue electrolyte leakage during mass loss in carrots stored under different conditions. *Scientia Horticulturae*, **95**: 13-21.
22. G.K. Gathungu, **S.I., Shibairo**, S.M., Githiri, M.W.K., Mburu, P.S., Ojiambo. 2000. Effect of source, time and method of nitrogen application on growth and yield components of potato in Kenya. *African Crop Science Journal*, **8**(4): 387-402.
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Refereed conference Papers

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Presentations at conferences

- S. I. Shibairo.** 2012. The Faculty of Agriculture and Research Opportunities. Paper presented at the conference on 'China-Kenya forum on the collaboration in dryland agriculture' held between 29th August to 4th September 2012 at Lanzhou University, Gansu China.
- S.I. Shibairo. 2012.** Experiences with RUFORUM at the University of Nairobi. Paper presented at the Third Regional Universities Forum for Capacity Building in Agriculture (RUFORUM) Biennial Conference. THEME: Partnerships & Networking for Strengthening Agricultural Innovation and Higher Education in Africa; 24-28 September, 2012; Imperial Resort Beach Hotel and Imperial Botanical Beach Hotel, Entebbe, Uganda.
- S.I. Shibairo,** F. Olubayo, A.M. Mwang'ombe, J.M. M'Nyambo 2011. Effect Of Chemical Fertilizers, Farm -Yard And Poultry Manure On Growth And Yield Of Amaranthus And African Nightshade In Taita District. Paper presented at the first Biennial aGRO conference. Theme: Optimization of value chains for sustainable development, 26 – 28th September, 2011 at the College of Agriculture and Veterinary Sciences, University of Nairobi.

Posters at conferences

- Shibairo.S.I.,** Onwonga R.N., Emongor. R., Oduori.A.C., Ambuko.J.,Nyongesa.O.W., Madegwa.Y. 2012. Screening Finger Millet Varieties for Adaptation to Drought Prone Ecological Regions of Eastern Kenya as a Strategy to Combat Food Insecurity and Climate Change. Presented at the Third Regional Universities Forum for Capacity

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Jane Ambuko, **Solomon I. Shibairo**, Margaret J. Hutchinson, Joseph K. Njuguna and Willis O. Owino. 2012. Improving profitability of the Mango Value Chain through Strategies for Off-season Flower Induction, Reliable maturity Indices and Applicable Postharvest Technologies. Presented at the Third Regional Universities Forum for Capacity Building in Agriculture (RUFORUM) Biennial Conference. THEME: Partnerships & Networking for Strengthening Agricultural Innovation and Higher Education in Africa; 24-28 September, 2012; Imperial Resort Beach Hotel and Imperial Botanical Beach Hotel, Entebbe, Uganda.

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Conferences/workshops attendance:

Conference on 'China-Kenya forum on the collaboration in dryland agriculture' held between 29th August to 4th September 2012 at Lanzhou University, Gansu China

Board of Postgraduate Studies Strategic Planning Workshop: 3rd – 4th May, 2012. At Kenya School of monetary Studies.

International Conference for youth in Africa, 2012. 'Factoring Youth Voices into Critical Issues: Agenda on Environmental Sustainability, Climate Change Mitigation and Adaptation, Food Security and Nutrition in Africa, 9th – 10th March, 2012, at College of Agriculture and Veterinary Sciences of the University of Nairobi.

Research Grants Management Strategic Planning Workshop. By university of Nairobi, at Maanzoni lodge- 9-11th March 2012

International conference on Agricultural Biotechnology in Africa Fostering Innovation. Organized by Addis Ababa university, The Agricultural Innovation in Africa Project at the Harvard Kennedy School & UNDP Secretariat. May 12- 15, 2011 – United Nations Conference centre, Addis Ababa, Ethiopia.

Policy Analysis and Advocacy Programme. 'Equal opportunities for a just and sustainable agriculture development. Four days training workshop on gender mainstreaming in Agricultural Research. 23rd-26th November, 2010 at Laico Grand Regency Hotel, Nairobi,

Kenya.

National Launch of Kenya Agricultural Productivity and Agribusiness project (KAPAP) and Eastern Africa Agricultural Productivity (EAAPP) at the Monetary Studies, Thika, Road, Kenya- June 2-4 2010.

Regional Universities Forum for Capacity Building in Agriculture. Regional Consultative Workshop. 13th November, 2010. Speke resort Conference Center, Munyonyo Kampala, Uganda.

Seventh workshop on Sustainable Horticultural Production in Tropics: Theme: Weed Management in Organic, Horticultural Production Systems in the tropics. Held at university of Nairobi, 28th November – 1st December, 2007

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