

**CURRICULUM VITAE**

**PROF. SOLOMON IGOSANGWA SHIBAIRO**

**BSc, MSc, PhD, MKNAS**

**VICE CHANCELLOR**

**MASINDE MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY**

**P.O. BOX 190-50100,  
KAKAMEGA, KENYA**

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[solomonshibairo@yahoo.com](mailto:solomonshibairo@yahoo.com)



**1. PERSONAL INFORMATION.**

- A. NAME:** Prof. Solomon Igosangwa Shibairo
- B. DATE OF BIRTH:**
- C. GENDER :** Male
- D. MARRITAL STATUS** Married with five children
- E. PLACE OF BIRTH** Kimaran Village, Vihiga County in Kenya.
- F. SPOKEN & WRITTEN LANGUAGES** English, Kiswahili and Kiluhya (Tiriki)
- G. NATIONALITY:** Kenyan
- H. FAITH** Christian- Elder at Christ’s Co-Workers Fellowship in Charge of the Men’s Ministry and the Marrieds Fellowship.
- I. ADDRESSES**
- a. Home Address:  
Home Phone:  
Home Email: [solomonshibairo@yahoo.com](mailto:solomonshibairo@yahoo.com), [sshibairo@gmail.com](mailto:sshibairo@gmail.com)
- b. Work Address: Masinde Muliro University of Science and Technology  
P.O. Box 190 50100, Kakamega
- Work Email: [sshibairo@mmust.ac.ke](mailto:sshibairo@mmust.ac.ke), [sshibairo@gmail.com](mailto:sshibairo@gmail.com)
- J Major Goal** Be a premier world class University Manager

## 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 Tinderet Primary School. Kenya

## 3. SHORT COURSES/TRAININGS

- 1 Name of training & Dates Curriculum Review and Development Workshop held at Tom Mboya Labour College  
Institution & Country Masinde Muliro University of Science and Technology 25<sup>th</sup> to 26<sup>th</sup> March, 2021
- 2 Name of training & Dates A two days Training on Academic Matters to Council Members and Academic, Research and Student Affairs Committee at Ciala Resort Hotel in Kisumu  
Institution & Country Masinde Muliro University of Science and Technology, From 24<sup>th</sup> to 25<sup>th</sup> February 2021
- 3 Name of training & Dates Induction Program for Public Sector Boards, 9<sup>th</sup> to 13<sup>th</sup> November, 2020

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|----|--------------------------|---|
|    | Institution & Country    | Kenya School of Government  |
| 4  | Name of training & Dates | Audit Training for MMUST Council and Audit Committee Members, 27 <sup>th</sup> to 29 <sup>th</sup> October, 2020  |
|    | Institution & Country    | Masinde Muliro University of Science and Technology   |
| 5  | Name of training & Dates | Internal Induction Workshop for MMUST Council Members, 15 <sup>th</sup> to 17 <sup>th</sup> September, 2020   |
|    | Institution & Country    | Masinde Muliro University of Science and Technology   |
| 6  | Name of training & Dates | Corporate Leadership and Governance training for members of Council and Senior Management staff held from 24 - 26 February, 2020                              |
|    | Institution & Country    | The Kenya School of Government  |
| 7  | Name of training & Dates | Awareness Training Based On: Information Security Management Systems. ISO/IEC 270001: 2019  |
|    | Institution & Country    | MillNenium Management Consultants Ltd (MMCAAfrica)  |
| 8  | Name of training & Dates | Course on Material Development. Advancing Lifelong learning. 22 <sup>nd</sup> to 26 <sup>th</sup> April 2019  |
|    | Institution & Country    | Captiva international Limited. Kenya.   |
| 9  | Name of training & Dates | Chrisco District Two Leaders Seminar, 2020, 21 <sup>st</sup> to 22 <sup>nd</sup> February, 2020   |
|    | Institution & Country    | Africa International University and CHRISTCO  |
| 10 | Name of training & Dates | An Awareness training based on; Information Security Management Systems <i>ISO/IEC 27001:2013</i> , 5 <sup>th</sup> September, 2018                           |
|    | Institution & Country    | Kibabii University  |
| 11 | Name of training & Dates | Skills for Effective CBA Negotiations Workshop for Kibabii University held on 06 <sup>th</sup> to 07 <sup>th</sup> September, 2018 at Joventure Hotel, Kisumu |
|    | Institution & Country    | Federation of Kenya Employers, Kenya  |
| 12 | Name of training & Dates | Impacting New Skills to Early Years Education Teachers. Held at Kibabii University. 9 <sup>th</sup> to 14 <sup>th</sup> August, 2018                          |
|    | Institution & Country    | Department of Education & Vocational Training, County Government of Bungoma, Kenya  |
| 13 | Name of training & Dates | Internal Quality Auditors' Training Course based on ISO   |

|    |                          |   |
|----|--------------------------|---|
|    |                          | 9001:2015 and 19011:2011 International Standards, 28 <sup>th</sup> to 30 <sup>th</sup> May, 2018                          |
|    | Institution & Country    | Maier Consulting Limited  |
| 14 | Name of training & Dates | ISO 9001:2015 Quality Management System Process Owners' Training Course, 3 <sup>rd</sup> to 5 <sup>th</sup> October, 2017 |
|    | Institution & Country    | Maier Consulting Limited  |
| 15 | Name of training & Dates | Enterprise Risk management Training, 23 <sup>rd</sup> – 24 <sup>th</sup> May 2017   |
|    | Institution & Country    | Pinebridge  |
| 16 | Name of training & Dates | Job Analysis, 4 <sup>th</sup> to 5 <sup>th</sup> April, 2017  |
|    | Institution & Country    | Pricewaterhouse Coopers   |
| 17 | Name of training & Dates | Grant proposal Writing Workshop, 6 <sup>th</sup> to 8 <sup>th</sup> , 2017  |
|    | Institution & Country    | African Population and Health Research Center   |
| 18 | Name of training & Dates | University Curriculum Review Program, 22 <sup>nd</sup> to 25 <sup>th</sup> September, 2016                                |
|    | Institution & Country    | Kibabii University, Kenya   |
| 19 | Name of training & Dates | In House – Training in Pre-CBA Negotiation Skills for Kibabii University, 15 May, 2016                                    |
|    | Institution & Country    | Federation of Kenya Employers   |
| 20 | Name of training & Dates | Module Development to Enhance E-Learning, 10 <sup>th</sup> to 14 <sup>th</sup> February, 2016                             |
|    | Institution & Country    | Kibabii University, Kenya   |
| 21 | Name of training & Dates | Corruption Prevention Training Workshop, 21-22 <sup>nd</sup> October, 2015  |
|    | Institution & Country    | Kibabii University College  |
| 22 | Name of training & Dates | Training on Quality Management Systems Based on ISO 9001:2008, 11-17 <sup>th</sup> September, 2015                        |
|    | Institution & Country    | Kibabii University College  |
| 23 | Name of training & Dates | A two-day Pedagogical Skills Training Workshop, July 27-28, 2015  |
|    | Institution & Country    | Kibabii University College, Kenya   |
| 24 | Name of training & Dates | Five – day Corporate Governance Training Course for   |

|                             |   |
|-----------------------------|---|
|                             | Directors, August 24-28, 2015   |
| Institution & Country       | CENTRE FOR CORPORATE GOVERNANCE, Kenya  |
| 25 Name of training & Dates | ICT Champions Training, June 5 <sup>th</sup> , 2015   |
| Institution & Country       | deepAfrica Company Limited  |
| 26 Name of training & Dates | Computer Systems & Applications Packages  |
| Institution & Country       | Dominion Training Institute, 27 March 2015  |
| 27 Name of training & Dates | Implementers Training on Quality Management Systems based on ISO 9001:2008  |
| Institution & Country       | ALPEX CONSULTING AFRICA LIMITED   |
| 28 Name of training & Dates | Corporate Governance Training Course, 15-16, May 2014   |
| Institution & Country       | CENTRE FOR CORPORATE GOVERNANCE, Kenya  |
| 29 Name of training & Dates | Transformational Leadership, 16 – 18 November 2012  |
| Institution & Country       | EMPOWERment™ RESOURCE TECHNOLOGIES LTD  |
| 30 Name of training & Dates | Research Administration and Grants Management, 5- 9 <sup>th</sup> November, 2012                                    |
| Institution & Country       | <i>Eunice Kennedy Shiver</i> National Institute of Child Health and U.S. President’s Emergency Plan for AIDS Relief |
| 31 Name of training & Dates | Scientific Writing Training Workshop, 3 – 4 <sup>th</sup> November, 2012  |
| Institution & Country       | National Cancer Institute (NCI), NIH and World Health Organization (WHO)  |
| 32 Name of training & Dates | China-Kenya Forum on the Collaboration in Dryland Agriculture 31 August – 3 September, 2012                         |
| Institution & Country       | Lanzhou University, China   |
| 33 Name of training & Dates | Performance Enhancement, 28 – 29 <sup>th</sup> July 2012  |
| Institution & Country       | EMPOWERment™ RESOURCE TECHNOLOGIES LTD  |
| 34 Name of training & Dates | Transformational Leadership, 12 – 14 January 2012   |
| Institution & Country       | EMPOWERment™ RESOURCE TECHNOLOGIES LTD  |
| 35 Name of training & Dates | PhD Supervision Training, March 25, 2011  |
| Institution & Country       | PREPARE-PHD PROJECT. The university of Nairobi  |
| 36 Name of training & Dates | Transformational Leadership, 13 – 15 January 2011   |

|    |                          |   |
|----|--------------------------|---|
|    | Institution & Country    | EMPOWERment™ RESOURCE TECHNOLOGIES LTD  |
| 38 | Name of training & Dates | Transformational Leadership, 5 – 7 <sup>th</sup> March 2009   |
|    | Institution & Country    | EMPOWERment™ RESOURCE TECHNOLOGIES LTD  |
| 39 | Name of training & Dates | Phytosanitary Re-tooling, 14-15 September, 2009, at Nakuru, Kenya   |
|    | Institution & Country    | Centre of Phytosanitary Excellence, Eastern Africa.   |
| 40 | Name of training & Dates | Pedagogy training workshop held at Central Catering Unit. 2008  |
|    | Institution & Country    | University of Nairobi, Kenya  |
| 41 | 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  |
| 42 | Name of training & Dates | Scientific proposal writing, 19- 25 <sup>th</sup> November, 2006  |
|    | Institution & Country    | ASARECA, held in Nairobi, Kenya   |
| 43 | 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.   |
| 44 | Name of training & Dates | Advanced training course on "PHOTOSYNTHESIS AND ALGAL BIOTECHNOLOGY, 12 May to 2 <sup>th</sup> June 1991                      |
|    | Institution & Country    | At Ben-Gurion University, The Jacob-Blaustein Institute for Desert Research, Sede-Boker Campus in Israel                      |

#### 4. ACADEMIC EMPLOYMENT HISTORY

|   |                      |  |
|---|----------------------|--|
| 1 | From date – date     | 2015 to Present  |
|   | Current Employer     | Kibabii University   |
|   | Current Position     | <b>Professor</b>   |
|   | Position Description | Teaching, Research and Extension in The Department of Agriculture and Veterinary Sciences. |
| 2 | From date – date     | 2006 to 2015   |
|   | Employer             | The University of Nairobi  |

|   |                      |  |
|---|----------------------|--|
|   | Position             | <b>Associate Professor</b>   |
|   | Position Description | Teaching, Research and Extension in The Department of Plant Science and Crop Protection.                                   |
| 3 | 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             | <b>Part-Time Senior Lecturer</b>   |
|   | Position Description | Teaching Postharvest Physiology and Technology   |
| 4 | From date – date     | 1997 to 2006   |
|   | Employer             | The University of Nairobi  |
|   | Position             | <b>Senior Lecturer</b>   |
|   | Position Description | Teaching, Research and Extension in The Department of plant Science and Crop Protection.                                   |
| 5 | From date – date     | 1991 to 1996   |
|   | Employer             | The University of British Columbia, Canada, Department of Plant Science  |
|   | Position             | <b>Research – Assistant</b>  |
|   | Position Description | Assisting in tutorials in Biometry, Botany and Horticulture  |
| 6 | From date – date     | 1991 to 1997   |
|   | Employer             | The University of Nairobi  |
|   | Position             | <b>Lecturer</b>  |
|   | Position Description | Teaching, Research and Extension in The Department of Crop Science.  |
| 7 | From date – date     | 1989 to 1991   |
|   | Employer             | The University of Nairobi  |
|   | Position             | <b>Assistant- Lecturer</b>   |
|   | Position Description | Teaching and Research at the Department of Crop Science  |
| 8 | From date – date     | 1987 to 1988   |
|   | Employer             | Ministry of Agriculture  |
|   | Position             | <b>Lecturer</b>  |

Position Description Teaching Crop Science to Diploma Students

## 5 PROFESSIONAL /EMPLOYMENT HISTORY

- 1 From date – date March 27, 2020 to Present  
Employer Masinde Muliro University of Science and Technology  
Position **Vice-Chancellor**  
Position Description Managing the Administrative and Academic Activities of the Masinde Muliro University of Science and Technology
- 2 From date – date August, 2016 to March, 2020  
Employer Kibabii University  
Position On several occasions **Acting Vice-Chancellor**  
Position Description Managing the Administrative and Academic Activities
- 3 From date to date August, 2016 to March, 2020  
Employer Kibabii University  
Position **Deputy Vice Chancellor (Academics and Students Affairs)**  
Position Description Managing the Division of Academics and Students Affairs: Managing the division of Academics, Research and Extension: Coordinating Academic and Administrative activities of Division: Administration, Human Resource, Finance, Curriculum Development, Teaching, Examination, Research, Innovation, Community Engagement, Students Affairs (Accommodation, Health Services, Sports and Students Counselling)
- 4 From date – date November 23, 2015 to August 31, 2016  
Employer Kibabii University  
Position **Acting Deputy Vice Chancellor (Academic, Research and Extension)**  
Position Description Managing the Division of Academics, Research and Extension: Managing the division of Academics, Research and Extension: Coordinating Academic and Administrative activities of Division: Administration, Human Resource, Finance, Curriculum Development, Teaching, Examination, Research, Innovation, Community

|   |                      |   |
|---|----------------------|---|
|   |                      | Engagement, Students Affairs (Accommodation, Health Services, Sports and Students Counselling)  |
| 5 | From date – date     | July 15, 2013 to November 24, 2015  |
|   | Employer             | Kibabii University  |
|   | Position             | <b>Acting Principal</b>   |
|   | Position Description | Managing the Administrative and Academic Activities of the Kibabii University College (A Constituent College of Masinde Muliro University of Science and Technology)  |
| 6 | From date – date     | July 15, 2013 to November 24, 2015  |
|   | Employer             | Kibabii University College (A Constituent College of Masinde Muliro University of Science and Technology)   |
|   | Position             | <b>Deputy Principal (Academic, Research and Extension)</b>  |
|   | Position Description | Managing the division of Academics, Research and Extension: Coordinating Academic and Administrative activities of Division: Administration, Human Resource, Finance, Curriculum Development, Teaching, Examination, Research, Innovation, Community Engagement, Students Affairs (Accommodation, Health Services, Sports and Students Counselling) |
| 7 | From date – date     | March 2010 to July 2013   |
|   | Employer             | The University of Nairobi, Plant Science and Crop Protection Department   |
|   | Position             | Several times <b>Acting Principal College of Agriculture and Veterinary Sciences</b>  |
|   | Position Description | Coordinating Academic and Administrative activities of College of Agriculture and Veterinary Sciences: College Administration, Human Resource, Finance, Budgeting, Procurement and Development, Academics, Research, Community Engagement and Students Affairs  |
| 8 | From date – Present  | March 18, 2010 to July 13, 2017   |
|   | Employer             | The University of Nairobi.  |
|   | Position             | <b>Dean, Faculty of Agriculture</b>   |
|   | Position Description | Managing the academic, administrative and social issues in the Faculty of Agriculture   |

|    |                      |   |
|----|----------------------|---|
| 9  | From date – date     | 2005 to 2010  |
|    | Employer             | The University of Nairobi, Pant Science and Crop Protection Department  |
|    | Position             | Several times <b>Acting Chairperson Plant Science and Crop Protection Department</b>  |
|    | Position Description | Coordinating Academic and Administrative activities of the Department: Curriculum Development, Teaching and Examination, Development of Strategic Plan, Finance Management, Human Resource Management, Income Generating, Drawing budget and procurement schedules and authorize leave among others |
| 10 | From date – date     | 2005 to 2010  |
|    | Employer             | The University of Nairobi, Pant Science and Crop Protection Department  |
|    | Position             | <b>Section Head – Crop Science Section</b>  |
|    | Position Description | Coordinating activities of Crop Science Section activities: Curriculum Development, Development of Strategic Plan, Income Generating, Drawing teaching allocations, Budget and Procurement schedules and authorize leave.   |
| 11 | From date – date     | 2004 to 2005  |
|    | Employer             | The University of Nairobi, Pant Science and Crop Protection Department  |
|    | Position             | <b>Head of Unit – Horticulture</b> (Thematic Head)  |
|    | Position Description | Coordinating activities of Horticulture Unit: Curriculum Development, Development of Strategic Plan and Income Generating Activities.   |
| 12 | From date – date     | July 1985 to October 1985   |
|    | Employer             | Ministry of Agriculture, Keiyo-Marakwet District  |
|    | Position             | <b>District Farm Management Officer</b>   |
|    | Position Description | Advice Farmers in farm management issues  |

### **Skills**

- Corporate management
- Trainer in post graduate supervision

- Grants administration and management
- Handling computer packages of Microsoft word, Lotus 123, Excel, SAS, Systat, Genstat, PowerPoint and ERP
- Internet packages; yahoo, google, google applications
- Cloud computing (through google drive)
- Social media: face book, WhatsApp, LinkedIn, google hangouts
- Able to teach and apply biometrics
- Driver, a little mechanics.
- Soft skills : counseling men and the youth

## **6. MEMBERSHIP OF PROFESSIONAL ORGANIZATIONS AND AWARDS**

### **(A) PROFESSIONAL ORGANIZATIONS**

Member of Kenya National Academy of Sciences (KNAS)

Member of The Food Science and Technology Platform of Kenya

Member of the Horticultural Society of Kenya

Member of the African Crop Science Society

Member of the Soil Science Society of East Africa

### **(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**

### **(C) BOARD MEMBERSHIP**

As dean of faculty of agriculture from 2010 to 2013 was board member of following organizations of University of Nairobi:

Wangari Maathai Institute for Peace and Environmental Studies (WMIPES) 2010 - 2013

University of Nairobi Institute of Tropical and Infectious Diseases (UNITID) 2010 - 2013

## **7. WORK AND PROFESSIONAL EXPERIENCE**

### **(A)TEACHING EXPERIENCE**

**AT KIBABII UNIVERSITY**

| <b>COURSE</b>           | <b>DEGREE PROGRAMME</b>           | <b>YEARS</b> |
|-------------------------|-----------------------------------|--------------|
| Survey of Plant Kingdom | BA Education                      | 2013 to date |
| Fundamentals of Ecology | BA Education                      | 2013 to date |
| Olericulture            | BSc Agriculture and Biotechnology | 2016 to date |

**AT THE UNIVERSITY OF NAIROBI**

| <b>COURSE</b>   | <b>DEGREE PROGRAMME</b>                                      | <b>YEARS</b>    |
|---|--|-----------------|
| Seed Science  | M.Sc. (Agronomy and Plant Breeding)                          | 2005- 2013      |
| Post—Harvest Physiology and Technology                                  | M.Sc. (Horticulture) and M.Sc. (Food Science and Technology) | 2002 – 2013     |
| Vegetable Production  | B.Sc. (Agriculture)  | 1998- 2013      |
| 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**

| <b>COURSE</b>                 | <b>DEGREE PROGRAMME</b> | <b>YEARS</b> |
|-------------------------------|-------------------------|--------------|
| Biometrics                    | B.Sc. (Agriculture)     | 1991-1996    |
| Introduction to Plant Science | B.Sc. (Agriculture)     | 1992-1994    |

**AT THE JOMO KENYATTA UNIVERSITY OF AGRICULTURE AND TECHNOLOGY**

| <b>COURSE</b>                          | <b>DEGREE PROGRAMME</b>             | <b>YEARS</b> |
|--|-------------------------------------|--------------|
| 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- Present | Crops, Horticulture and Soils         |
| Jomo Kenyatta University of Agriculture and Technology | 2008-2011     | Horticulture                          |
| Jomo Kenyatta University of Agriculture and Technology | 2011 – 2015   | Land Resource Planning and Management |
| Maseno University                                      | 2011 to 2014  | Plant Sciences                        |

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

|    | <b>Position</b>   | <b>Major achievements, highlights</b>   |
|----|---|---|
| 1. | <b>Acting Vice-Chancellor</b> of Masinde Muliro University of Science and Technology, from March 27 <sup>th</sup> , 2020 to Present | <ol style="list-style-type: none"> <li>1. Refocusing the University to its niche (flagship programmes) of Engineering, Health Sciences and Optometry, and Disaster and Environmental management. This will improve the quality and academic excellence,</li> <li>2. Introduction of on-line learning that has ensured continuous and successful learning amidst the tough times of COVID-19 pandemic.</li> <li>3. Making MMUST to be one of the first universities to hold blended/ hybrid graduation ceremony- which was a big success on December, 18, 2020</li> <li>4. Creating linkages that contributed to immense increase in research funding and community engagement,</li> <li>5. Effective handling of pertinent human capital issues resulting in peace, harmony and tranquility at the university,</li> <li>6. High level of financial stability at the University. MMUST is at the top amongst the few universities</li> </ol> |

|    |  |   |
|----|--|---|
|    |  | <p>which has remained compliant in remitting financial statutory deductions and payment of staff salaries in full.</p> <ol style="list-style-type: none"> <li>7. Maintenance of cordial relationship with all stakeholders to include; students, Staff, the County government and community among others.</li> <li>8. Good working relationship with Governing Council.</li> <li>9. Trained the local community in various areas including covid-19 and protection, jigger management and sickle-cell anemia research and management</li> <li>10. Led to development of several academic curricula</li> <li>11. Enhanced the activities of Quality Assurance.</li> <li>12. Coordinating the uptake of ERP</li> </ol>  |
| 2. | <p>Deputy Vice Chancellor (Academic, Research &amp; Extension) at Kibabii University, From September 1, 2016 to March 26, 2020</p> | <ol style="list-style-type: none"> <li>1. Managing the Academics and Students Affairs of the Division</li> <li>2. Put in place an Academic Advisory, Counselling and Mentorship Unit</li> <li>3. Developed research and outreach strategies</li> <li>4. We have established many linkages with many organizations at both National and International levels.</li> <li>5. Trained the local community in agriculture and in entrepreneurship</li> <li>6. Led to development of several academic curricula</li> <li>7. Completing the establishment of the schools of Nursing.</li> <li>8. Enhanced the activities of Quality Assurance.</li> <li>9. Spearheaded the establishment of Directorates of Technical and Vocational Education Training (TVET), Open Distance and electronic Learning (ODEL), and Institute of Gender and Development Studies (IGDS).</li> <li>10. I was in charge of the process of leading the then College in attaining University Charter status.</li> <li>11. During my short tenure the student population has more than tripled to 7500.</li> <li>12. Coordinated many seminars and workshops</li> <li>13. Coordinating the installation of ERP</li> <li>14. Chair of many College academic board committees</li> <li><b>15. Successfully led Faculty of Education and Social</b></li> </ol> |

|    |   |   |
|----|---|---|
|    |   | Sciences in developing modules for ODEL   |
| 2  | Ag. Deputy Vice Chancellor (Academic, Research & Extension) at Kibabii University, From November 23, 2015 to August 31, 2016.   | <ol style="list-style-type: none"> <li>1. Successfully coordinating research, academic &amp; extension activities</li> <li>2. Managing the Student affairs division successfully</li> <li>3. Put in place an Academic Advisory, Counselling and Mentorship Unit</li> <li>4. Developed research and outreach strategies</li> <li>5. Led researchers in developing and winning grants</li> <li>6. We have established many linkages with many organizations at both National and International levels.</li> <li>7. Trained the local community in agriculture and in entrepreneurship</li> <li>8. Led to development of several academic curricula</li> <li>9. As Deputy Principal at KIBUCO I led in the establishment of five faculties/schools and currently working on starting the school of Nursing.</li> <li>10. I am in charge of Policy Development, Performance Contracting and Webometrics</li> <li>11. I was in charge of the process of leading the College in attaining University Charter status.</li> <li>12. Currently leading in Development of University Statutes.</li> <li>13. During my short tenure the student population has more than tripled to 6300</li> <li>14. Coordinated many seminars and workshops</li> <li>15. Coordinating the installation of ERP</li> <li>16. Chair of many College academic board committees</li> <li>17. Successfully led Faculty of Education and Social Sciences in developing modules for ODEL.</li> </ol> |
| 3. | Deputy Principal (Academic, Research & Extension) at Kibabii University College (A constituent College of Masinde Muliro University of Science and Technology), From July 2013 to November 22, 2015 | <ol style="list-style-type: none"> <li>1. Successfully coordinating research, academic &amp; extension activities</li> <li>2. Managed the Student affairs division successfully</li> <li>3. Developed research and outreach strategies</li> <li>4. Led researchers in developing and winning grants</li> <li>5. We have established many linkages with many organizations at both National and International levels.</li> <li>6. Trained the local community in agriculture and in entrepreneurship</li> <li>7. Led to development of several academic curricula</li> </ol>   |

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|   |   | <p>8. As Deputy Principal at KIBUCO I have led in the establishment of four faculties/schools and currently working on starting the school of Nursing.</p> <p>9. I am in charge of Policy Development, Performance Contracting, development of Charter and the College Statutes. I am in charge of the process of leading the college in attaining university charter status.</p> <p>10. During my short tenure the student population more than doubled to 4500</p> <p>11. Coordinated many seminars and workshops</p> <p>12. Coordinating the installation of ERP</p> <p>13. Chair of many College academic board committees</p>   |
| 4 | Ag. Principal, College of Agriculture and Veterinary Sciences, several times; Between March 2010 to July, 2013. | 1. Successfully managed College affairs  |
| 5 | Responsibility at college level   | <p>1. Member of college management board</p> <p>2. Member of college academic board</p> <p>3. Member of college procurement board</p> <p>4. Chairman, of the college ISO committee</p> <p>5. Chair of the alcohol and drugs committee</p> <p>6. Member of the anti-corruption committee.</p> <p>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.</p>  |
| 6 | Dean, Faculty of Agriculture. From March 12, 2010 to July 2013.   | <p>1. Successfully managed faculty affairs.</p> <p>2. Responsible for academic, financial, administrative issues of over 120 teaching and 200 non-teaching staff and over 1500 students.</p> <p>3. Refurbished faculty of agriculture building</p> <p>4. Organized AGRO-2011- The first Biannual Conference for faculty of agriculture as a platform for disseminating information and showcasing research work faculty.</p> <p>5. Introduced the first electronic journal for the faculty.</p> <p>6. Organized and launched the Faculty of Agriculture Alumni chapter of the university of Nairobi</p> <p>7. Development of College of Agriculture and Veterinary Sciences Strategic Plan 2008 and its revision in 2010</p> |

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|    |  | 8. Developing Bachelor of Science in Water Resource Management<br>9. Formed committees for grant writing.<br>10. Oversees the administration of research grants  |
| 7  | Ag. Chairman - Plant Science and Crop Protection Department. Many times from February, 1999 to 2010                        | 1. Successfully managed the departments affairs successfully   |
| 8  | Section Head of the Crop Science Section of the Department of Plant Science and Crop Protection, July 2005 to March, 2010. | 1. Lead Instrumental in developing B.Sc. Horticulture Course.<br>2. Developed a three-month crash program and a Certificate course in skills enhancement in Floriculture and delivered on Open and Distance learning mode.<br>3. Committee Member on Farm Practice Committee. 2000-2004.   |
| 9  | Other responsibilities at Department of Plant Science and Crop Protection  | 1. Examination Officer of the department 1998 to 1999.<br>2. Head of Horticulture Unit in Crop Science Department, 2004 to July 2005<br>3. Committee member representing the Crop Science department in the Faculty of Agriculture curriculum review committee.<br>4. Development of faculty of Agriculture strategic Plan 2003 and its revision in 2010 |
| 10 | 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 at Bukura Institute of Agriculture 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.

I am a member of National Task Force of Horticulture from 2012 to 2015.

#### **(8) 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) RESEARCH ACCOMPLISHMENTS:**

- A) 2009 to 2012: Collaborated with Prof Mwang'ombe, Principal 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 Dr. 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
- G) 2010 to 2013: Collaborated with Drs. Dr. Rosemary Emongor. and Dr. Chris, A. Oduori of KARI and Dr. Jane Ambuko and Dr. Richard Onwonga of the University of Screening finger millet for production and nutrient content to improve livelihoods of small-scale farmers in drought prone areas of Eastern Province of Kenya.
- H) 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
- I) Water hole monitoring for livestock early warning by FAO- CO PI

#### (ii) RESEARCH AREAS BEING PURSUED

- A) Development of post harvest technologies in indigenous and traditional vegetables and fruits.
- B) Carrying out research in the general area of **horticulture, crop production and crop physiology**. Currently with 4 PhD students.

#### (iii) RESEARCH GRANTS

- A) **2012-2016**. A grant of 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**.
- B) **2012-2015**. Grant RU 2012 OG 02: **Coordinator**. Support to 3 Tanzanian MSc students under Ohio iAGRI Project. **\$66,972**.
- C) **2012 -2015**. 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) **2011-2015. 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. 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**

**(v) COORDINATION OF WINNING GRANTS AT KIBABII UNIVERSITY COLLEGE BETWEEN 2013 TO PRESENT**

- a) Micro-controlled solar devise for lighting and powering laptops for pupils in off-grid rural households. Kshs 650, 000
- b) A framework for adoption of multi-modal biometric security systems in government institutions in Kenya. Kshs 460, 000
- c) Usability for digital inclusion in e-services provision kshs 500, 000
- d) ICT electronic waste indicators for management of electronic waste in Kenya. Kshs 120, 000.

**(v) LINKAGES: I have linkages with the following organizations**

**a) Christian**

- Linkages with the many CHRISCO branches in Africa, India, Europe and the BEULAH LAND in Virginia, USA.
- Pentecost Assemblies of God Canada, and CITAM and the Presbyterian Church in Kenya.

**b) Academic**

- The University of British Columbia, Canada
- Centre for Corporate Governance
- Empowerment Resource Centre

- Lanzhou university, China
- The University of Nairobi
- Kenya Plant Health Inspectorate Services
- Nanjing Agricultural University China
- Jomo Kenyatta University of Agriculture and Technology
- Egerton university
- Kenya National Academy of Science
- Canadian international Development Agency
- Kenya Seed Company Ltd
- Wangari Maathai Institute of Peace and Environmental Studies
- RUFORUM
- EAAP
- Cornel University, USA

**(9) DEVELOPMENT GRANTS** for the following projects:

- a) 2020- Project “The Engineering and TVET Complex at Masinde Muliro University of Science and Technology”, Worth Kshs. 800,000,000. Already received Ksh. 50,000,000 during Supplementary Budget 2020- 2021 and allocated Kshs. 100,000,000 by Treasury Ministry for funding in the 2021 to 2021 financial year.
- b) 2020-The “Students Centre” at Kibabii University worthy Kshs. 80,000,000 and funded by the Kenya Government. Under construction and will take two (2) years.
- c) 2020-Development of sports fields at Kibabii University worthy Kshs. 66,000,000 sponsored by the Government of Kenya
- d) 2018. A grant of National Research Fund on Infrastructural Development as a co-investigator. Titled: Kibabii University Information Technology and Communication Hub. Kshs. 64,000,000.
- e) 2018-The books donated by .....funded by and worthy Kshs. 65, 000, 000 for Kibabii University.

**(10) 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.

**(11) Community Service Development.**

- (i) training Trained over 240 women and youth in Food/Nutrition issues
- (ii) Trained 5 women groups on business sourcing and tendering
- (iii) Engaging with local community in issues of HIV/AIDs testing and management

- (iv) I am a Deacon in at my church CHRISCO
- (v) I am a bible study teacher.

## (12) SUPERVISION OF POSTGRADUATE STUDENTS

### Theses supervised and graduated.

#### PHD

1. Christine K. Katama. 2021. Development of cassava root-leaf flakes with improved protein, minerals and vitamins. *To graduate in September, 2021 at the University of Nairobi.*
2. Jonathan Kipng'eno. 2019. Abundance, genetic diversity and nodulation of cowpea rhizobia in south western Kenya. University of Nairobi.
3. Danstan A. Odeny. 2019. Physiology of coffee grown under shade. University of Nairobi
4. Jonathan Mutonyi. 2014. Management strategies for low pH and potassium deficiency in Mumias Sugar Zone of western Kenya. **(PhD. Agronomy)**. University of Nairobi.
5. Titus Magomere. 2014. 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. **PhD. Plant Breeding and Biotechnology**. University of Nairobi.
6. Pauline Aluka. 2013. Farm Robusta coffee (*Coffea canephora* L.) diversity. **PH.D. Plant Breeding and Biotechnology**. University of Nairobi.
7. Charles, Lung'aho. C.M. 2011. Characterization and Conservation of Potato (*Solanum tuberosum* L.). **P. HD. Agronomy**. University of Nairobi.
8. Onyango, C.M. 2010. Pre- and Post harvest factors affecting yield and quality factors of vegetable amaranth (*Amaranthus hybridus*). **P. HD. (Plant Science)**.
9. Kihurani, A.W. 2004. Parthogens and some physical factors associated with postharvest deterioration of swetpotato. **PH.D. Plant pathology**. University of Nairobi

#### MSC

10. Winnie Wanjiku Murigi. 2017. Control of ware potato quality during long term storage in the tropical conditions of Kenya. M.Sc. Horticulture. The University of Nairobi.
11. Ivon Madegwa. 2014. Modelling the impact of climate change on growth and yield of finger millet. M.Sc. Soil Science. University of Nairobi.
12. Nyongesa Oliver 2014. Screening finger millet [*Eleusine coracana* (L.) Gaertn.] genotypes for drought adaptability and nutritional factors under different soil fertility regimes in eastern Kenya M.Sc. Agronomy. University of Nairobi.
13. Lilian A. Ouma 2014. Evaluation of maturity indices and postharvest quality attributes of mango fruits (*Mangifera indica*) produced under different agro-ecological conditions in Kenya. M.Sc. Horticulture. The University of Nairobi.
14. Mueni, P. Yumbya. 2013. Effects of 1-Methylcyclopropene (1-MCP) and active bag packaging on the postharvest shelf life and quality of purple passion fruit (*Passiflora edulis*). **M.Sc. Horticulture**. University of Nairobi.

15. Maswili, R. kamene, 2009. Assessment of Kenyan sorghum diversity using morphological characteristics and molecular techniques. M.Sc. (Horticulture). University of Nairobi.
16. Jonathan Kipng'eno, 2008. Abundance and nodulation efficiency of garden pea rhizobia in Central Kenya soils. M.Sc. (Agronomy). University of Nairobi.
17. Mwalimu, M. 2008. Development of affordable alternative methods for sprouting seed potato tubers. M.Sc. (Horticulture). University of Nairobi.
18. Gachango, E.N., 2007. Effects of storage conditions on quality and storability of seed and ware potato varieties. M.Sc. (Horticulture). University of Nairobi.
19. 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).
20. Kithusi 2004. The efficacy of biopesticides on control of red spider mites (*Tetranychus evansi*) on tomatoes. M.Sc. (Horticulture).
21. Meyo, C.A., 2004. Effects of nitrogen and phosphorus application on growth yield and leaf quality of vegetable amaranth (*Amaranthus hybridus*). M.Sc. (Horticulture).
22. Sikuku, D.N, 2004. Effect of composted farmyard manure and nitrogen fertilization on growth and yield of maize (*Zea mays L.*). M.Sc. (Agronomy).
23. Nyawenda, L. 2003. Screening local and exotic varieties of tomato (*Lycopersicon esculentum*) for tolerance to waterlogged soil. M.Sc. (Horticulture).
24. 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).
25. Onyando, N.R. 2002. Effects of nitrogen and planting density on yield and quality of sweet potatoes. M.Sc. (Agronomy).
26. Muthoni, J. 2001. Effects of minimal rates of phosphorus and nitrogen on the establishment and productivity of the African clover cv. Mealton (*Trifolium quartinianum*).
27. 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).
28. 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.
29. 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.
30. 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.
31. 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.

32. Ngatia, T.M. 2000. Effect of timing of application of gibberelic acid and ethephon on growth, yield and yield components of beans (*Phaseolus vulgaris* L.). M.Sc. (Agronomy). University of Nairobi.
33. 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**

34. Charity muchoki. Factors affecting levels of vitamins and anti-nutrients in fermented, solar-dried and stored African leafy vegetables.
35. Mafuta Nangila Janepher. Evaluation of *Solanum nigrum* host-plant resistance and grafting to control bacterial wilt for increased marketable yield in Kenya

#### **MSC**

36. Titus Kosgei. Analysis of grain yield stability of drought tolerant maize. M.Sc. Plant Breeding and biotechnology. University of Nairobi.
37. Jeniffer Lutomia. Effect of plant population and fertilizer on the yield of spring onions. M.Sc. Horticulture. The University of Nairobi.

### **(13) 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.

### **(14) 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) JOURNAL ARTICLES**

1. Katama C.K.M, M.W. Okoth M.W. Abong' G.O. **S.I. Shibairo.** 2021. Influence of crop age on nutritional quality and Hydrogen Cyanide levels of roots from popular Coastal Kenyan cassava varieties. *The International Institute for Science, Technology and*

*Education*, Accepted for publication. (IISTE) [www.iiste.org](http://www.iiste.org) ISSN (Paper) 2224- 6088  
ISSN (Online) 2225-0557.

2. Ochieno D.M.W., Karoney E.M., Muge E.K., Nyaboga E.N., Baraza D.L. **Shibairo S.I.** and Victoria Naluyange V. 2021. Rhizobium-linked nutritional and phytochemical changes under multitrophic functional contexts in sustainable food systems. *Frontiers in Sustainable Food Systems*, 4:1-23.
3. Masha C.K., Okoth M.W., Abong G.O., **S.I. Shibairo**. 2021. Profiling cassava leaf nutrients for quality and safety for human consumption in coastal Kenya. *African Journal of agricultural research*, **In Press**. ISSN: 1991-637X DOI: 10.5897/AJAR
4. Katama, C.K.M., Okoth, M. W., Abong, G.O. and **S.I. Shibairo**. 2019. Influence of crop age on nutritional quality and hydrogen cyanide levels of roots from popular coastal Kenyan cassava varieties. *Food Science and Quality Management*, **88**: 29-38. [www.iiste.org](http://www.iiste.org) ISSN 2224-6088 (Paper) ISSN 2225-0557 (Online) DOI: 10.7176/FSQM.
5. Nyankanga R.O., Murigi W.W, and **S.I. Shibairo**. 2019. Effect of packaging material on shelf life and quality of ware potato tubers stored at ambient tropical temperatures. *Potato Research*, **61 (3)**: 283-296
6. Chemining'wa, G. N., Ngeno, J. K., Hutchinson, M. J. and **S. I. Shibairo**. 2018. Influence of P Fertiliser on Nodulation, Growth and Nutrient Content of Cowpea (*Vigna unguiculata* L.) in Acidic Soils of South Western Kenya. *International Journal of Plant & Soil Science*, **25(3)**: 1-12.
7. Abong' G.O., **Shibairo S.**, Wanjekeche E., Ogendo J., Wambua, T., Lamuka P., Arama, P., Okoth M., Mulwa R., Kamidi M., Mcosore Z. and C.M. Katama. 2016. Post-Harvest practices, constraints and opportunities along cassava value chain in Kenya. *Current Research in Nutrition and Food Science*, **4(2)**:114-126.
8. Gacheru, P.K., Abong' G.O., Okoth M.W., Lamuka P.O., **Shibairo S.I.**, and C.K.M. Katama. 2016. Microbiological safety and quality of dried cassava chips and flour sold in the Nairobi and Coastal Regions of Kenya. *African Crop Science Journal*, **24**: 137 – 143.
9. Madegwa, Y., Onwonga, R., **Shibairo, S.**, and G. Karuku. 2016. Farmer Perception and Adaptation Strategies on Climate Change in Lower Eastern Kenya: A Case of Finger Millet (*Eleusine coracana* (L.) Gaertn) Production. *Journal of Agricultural Science*, **8 (12)**: 33-40
10. **Shibairo, S.I.**, Madegwa, Y. M. and R. N. Onwonga. 2016. Finger millet (*Eleusine corocana*) production in lower Eastern, Kenya: Status, constraints and opportunities. *British Journal of Applied Science and Technology*, **14(6)**: 1-10
11. Odeny D.A, G.N. Chemining'wa, **S.I. Shibairo** and C.W. Kathurima. 2016. Biochemical components of shaded coffee under different management levels. *Advance Journal of Food Science and Technology*, **12 (9)**: 519-526.

12. Abong', G.O., **Shibairo S.I.**, Okoth M.W., Lamuka P.O., Katama C.K. and J. Ouma. 2016. Quality and safety characteristics of cassava crisps sold in urban Kenya. *African Crop Science Journal*, **24**: 89 – 94.
13. Gacheru, P.K., ABONG', G.O., Okoth, M.W., Lamuka, P.O., **Shibairo, S.** and C. M. Katama. 2015. Cyanogenic Content, Aflatoxin Level and Quality of Dried Cassava Chips and Flour Sold in Nairobi and Coastal Regions of Kenya. *Current Research in Nutrition and Food Science*, **3(3)**: 197-206.
14. Magomere T.O., Ngugi, E.K., Obukosia S.D., Mutitu E. and **S.I. Shibairo**. 2015. The population structure of wild sorghum species in agro-ecological zones of Western Kenya. *African Journal of Biotechnology*, **14** (17) 1475-1492
15. Odeny, D., Chemining'wa, G., **Shibairo, S.**, and C. Kathurima. 2015. Sensory attributes of coffee under different shade regimes and levels of management. *Food Science and Quality Management*, **46**: 19-26
16. Nyende, K.O., **Shibairo, S.I.** and J.W. Wakhungu. 2015. Botanical composition and selective feeding by goats in the semi-arid lands of central-eastern Kenya. *International Journal of Science and Research*, **4 (3)**: 50-53.
17. Magomere, O. T., Kahiu Ngugi; **Shibairo, S.I.**, Mutitu E.; Obukosia, S. 2015. Real time PCR mediated occurrence of Sorghum bicolor alleles in wild sorghum populations. *African Journal of Biotechnology*. **14 (7)**: 551-568.
18. Ambuko Jane, Yumbya Mueni Penina, **Shibairo Solomon** and Owino Willis Omondi 2014. Efficacy of 1-Methylcyclopropene in Purple Passion Fruit (*Passiflora edulis* Sims) as Affected by Dosage and Maturity Stage. *International Journal of Postharvest Technology and Innovation*, **In press**.
19. **Shibairo, S.I.**, O. Nyongesa, R. Onwonga and J. Ambuko 2014. Variation of nutritional and anti-nutritional contents in finger millet (*Eleusine corocana* (L.) Gaertn) Genotypes. *Journal of Agriculture and Veterinary Science*, **7 (11)**:6-12.
20. Mutonyi, J., **S.I. Shibairo**, G.N. Chemining'wa, F.M. Olubayo , N.C.O. Keya, H. W. Nyongesa and M. Konje 2014. Sugarcane response to liming, manuring and inorganic fertilizers on acid acrisols in western Kenya. *International Journal of Recent Scientific Research*, **5 (9)**:1703-1707.
21. Njoroge, P.K. **S.I. Shibairo**, S.M. Githiri and M.W.K. Mburu 2014. Effects of nitrogen application on growth and yield of snowpeas (*Pisum sativum*). *Asian journal of applied Science and Engineering*. **3 (1)**: 35-43.
22. Mutonyi, J., **Shibairo S.I.**, Chemining'wa, G.N., Olubayo, F.O., Nyongesa, H.W. and Konje, M. M. 2014. Effects of N and K fertilization of sugarcane (*Saccharum officinarum*) on acrisols in western Kenya. *Elixir Agriculture*, **67**: 21669-21675.
23. **Shibairo, S.I.**, Mutonyi, J, and Chemining'wa, G.N. 2014. Effects of agricultural lime and phosphorus application to sugarcane (*Saccharum officinarum l*) growth, yield and quality. **In press**. *International Journal of Agriscience*, ISSN: 2228-6322.

24. Magomere, O. Titus, Kahi Ngugi; **Solomon Shibairo**; Mutitu Eunice; Silas Obukosia. 2014. Evaluation of Multiplex Pcr in Detection of crop alleles and differential hybridization among weedy sorghum populations. **Accepted for publication.** *Journal of Biological Sciences*.
25. Peninah Yumbya, Jane Ambuko, **Solomon Shibairo** and Willis O. Owino. 2014. Effect of modified atmosphere packaging on the shelf life and postharvest quality of purple passion fruit (*Passiflora edulis* Sims). *Journal of Postharvest Technology*, **02 (01)**: 025-036.
26. Onditi John, Njoroge Kiarie and **Shibairo Solomon**. 2013. Improving potato tuber yields using genotypes with multiple virus resistance in Kenya. *Agriculture and biology journal of North America*, **4(4)**: 406-412.
27. Onditi John, Njoroge Kiarie, **Shibairo Solomon**, Lung'aho Charles, Moses Nyongesa, Jane Muthoni, Susan Otieno, Miriam Mbiyu and Judy Oyoo. 2013. Potato virus Y (PVY) and potato virus X (PVX) resistance breeding in Kenya: applicability of conventional approaches. *Agriculture and biology journal of North America*, **4(4)**: 398-405.
28. Onditi, J.O., N. kiarie and **I.S. Shibairo**. 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**.
29. 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>.
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#### **(D) CONFERENCES, SEMINARS/WORKSHOP PAPERS**

### Refereed conference Papers

60. Abong' G.O. Okoth M.W., Lamuka P.O., **Shibairo, S.** and Katan C. 2014. Cassava crisps quality as influenced by cultivar, frying temperature and slice thickness. Paper presented at the 3<sup>rd</sup> cassava regional center of excellence review and scientific conference at Imperial Royale Hotel, Kampala-Uganda. 28<sup>th</sup> – 30<sup>th</sup> July 2014. P. 46-48. [www.eaappcassava.ug](http://www.eaappcassava.ug).
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62. Nginya, E.W., Abong', G.O., Lamuka, P.O. **Shibairo, S.** and Katana, C. The role of cassava in nutrition in coastal Kenya. Paper presented at the 3<sup>rd</sup> cassava regional center of excellence review and scientific conference at Imperial Royale Hotel, Kampala-Uganda. 28<sup>th</sup> – 30<sup>th</sup> July 2014. P.59-62. [www.eaappcassava.ug](http://www.eaappcassava.ug).
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#### **Book and book chapter**

76. Wahome, R.G, Paul Mbugua, Lily Bebor, Wambui Kogi-Makau, Peter Gathumbi and **Shibairo S.I.**, 2012. The PhD Training Supervision- A trainees manual-. The University of Nairobi Prepare-PhD project team. ISBN: 99667127.
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#### **REPORTS:**

78. **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.

### Presentations at conferences

- Katama N C.K., Okoth M.W., Abong G.O. and **S.I. Shibairo**. 2018. Influence of crop age on nutritional quality of fresh roots from popular coastal Kenyan cassava varieties. RUFORUM Working Document Series (ISSN 1607-9345).**17 (1)**: 450-457. Available from <http://repository.ruforum.org>.
- Nginya E.W. Abong' G.O., Okoth M.W., Lamuka P.O., Shibairo S.I., Katama C. and J.A. Aguk. 2018. **Role of cassava in nutrition of 2-5 years old children in coastal Kenya**. RUFORUM Working Document Series (ISSN 1607-9345).**17(1)**: 443-449. <http://repository.ruforum.org>
- 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 29<sup>th</sup> August to 4<sup>th</sup> 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 – 28<sup>th</sup> September, 2011 at the College of Agriculture and Veterinary Sciences, University of Nairobi.
- Abong' G. O., **S.I. Shibairo**., J. N. Kabira and J. A. Aguk. Enhancing food security through increased potato production in Kenya. A paper presented at aGRO2011 Biennial Conference at the College of Agriculture and Veterinary Sciences, Upper Kabete Campus, University of Nairobi, on 26 - 28th September, 2011.

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### Posters at conferences

- Jane Ambuko, Penina Mueni Yumbya, Margaret Jesang Hutchinson, **Solomon Igosangwa Shibairo** , Hiroshi Gemma, Willis Omondi Owino 2014. Efficacy of 1-Methylcyclopropene (1-MCP) in Purple Passion (*Passiflora edulis* Sims) Fruits as Affected by Dosage and Maturity Stage. Poster presented at American Society for Horticultural Sciences at Desert Salon 9-10 (Desert Springs J.W Marriott Resort) on Wednesday, July 24, 2013: 8:15 AM.
- 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

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.

Nyongesa.O.W., **Shibairo.S.I.**, Onwonga R.N., Ambuko.J., . 2012. Screening and testing finger millet varieties for drought adaptability and nutritional factors in Eastern Kenya. 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.

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.

Madegwa Y.M., Onwonga R.N., **Shibairo.S.I.** 2012. Modelling nutrient dynamics, growth and development of finger millet (*Eleusine corocona*) in semi arid eastern Kenya using the agricultural production systems simulator (APSIM). 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.

**Conferences/workshops attendance:**

Seminar for Cateing Staff. Importance of Health Education in the Food Industry, Hygiene and Microbiology. Held at Kibabii University of 25<sup>th</sup> January, 2018.

Workshop on Agricultural Planning for Small-Scale Farmers in East Africa held between 10<sup>th</sup>-11<sup>th</sup> February, 2014 by Village Enterprise in Partnership with Makerere University in Kampala, Uganda.

Conference on ‘China-Kenya forum on the collaboration in dryland agriculture’ held between 29<sup>th</sup> August to 4<sup>th</sup> September 2012 at Lanzhou University, Gansu China

Board of Postgraduate Studies Strategic Planning Workshop: 3<sup>rd</sup> – 4<sup>th</sup> 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, 9<sup>th</sup> – 10<sup>th</sup> March, 2012, at College od Agriculture and Veterinary Sciences of the University of Nairobi.

Research Grants Management Strategic Plant Workshop. By university of Nairobi, at Maanzoni lodge- 9-11<sup>th</sup> 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. 23<sup>rd</sup>-26<sup>th</sup> 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. 13<sup>th</sup> 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, 28<sup>th</sup> November – 1<sup>st</sup> December, 2007

**(15) REFEREES:**

1. Prof. Isaac Ipara Odeo. Vice-Chancellor, Kibabii University. Email address: [vc@kibu.ac.ke](mailto:vc@kibu.ac.ke).
2. Prof. Dickson Nyariki, Vice-Chancellor, Murang’a University. Email address: [dickson.nyariki@yahoo.com](mailto:dickson.nyariki@yahoo.com), cell phone:
3. Prof. Kamau Ngamau, Vice-Chancellor, Cooperative University of Kenya. Email address [k\\_ngamau@yahoo.com](mailto:k_ngamau@yahoo.com).

Signed

Yours faithfully



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