

**CURRICULUM VITAE**



**Prof. Joshua Ondura Ogendo, PhD, MKNAS**  
**Professor of Agronomy (Crop Protection option)**  
**and**  
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**MARCH 2026**

**BIODATA:**

Full Name: **Prof. Joshua Ondura Ogendo, PhD, MKNAS**  
Date of birth: **12<sup>th</sup> December 1963**  
Age: 62 years  
Place of Birth: Kogello Village, Karabondi Location, Rachuonyo North Sub-County, Homa Bay County  
Nationality: Kenyan  
Gender: Male  
Language Proficiency: English, Kiswahili and Dholuo (mother tongue)  
Marital status: Married with 3 adult children (2 boys, 1 girl)  
Religious affiliation: Christian

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a) Home Address: Akwakra Mixed Sec School, Karabondi Location, Rachuonyo North, Homa Bay County, Kenya  
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**SUMMARY OF PERSONAL PROFILE**

**Prof. Joshua Ondura Ogendo** is a Professor of Agronomy (Crop Protection: Stored Products Entomology) in the Department of Crops, Horticulture and Soils, Egerton University and currently the Deputy Vice Chancellor (Academics and Students Affairs) at Kibabii University (January 1, 2025- Present). Prof. Ogendo holds PhD degree in Agronomy (Crop Protection: Stored Products Entomology) from Egerton University (2008), MSc degrees in Agronomy and Grain Storage Management from University of Nairobi (Kenya; 1992) and University of Greenwich (UK; 2001), respectively and a BSc degree in Agriculture from University of Nairobi, Kenya (1988). Prof Ogendo joined the Department of Agronomy, Egerton University, as an Assistant Lecturer in July 1997. Since joining Egerton University, Prof Ogendo has scaled academic, professional and administrative heights by successfully completing a second Master's degree and a PhD degree and has defied the odds to rise to the current position of Associate Professor and Deputy Vice Chancellor (Academics and Students Affairs) at Kibabii University.

Prior to being appointed Deputy Vice Chancellor (Academics and Affairs) at Kibabii University, Prof. Ogendo served as the Principal, Nakuru City Campus College, Egerton University (August 16, 2021-December 31, 2024); the Director, Crop Management Research Training Project, Egerton University (May 6, 2019-Aug. 15, 2021). Previously Prof. Ogendo was competitively elected the Dean, Faculty of Agriculture, Egerton University in October 2014 and served for two terms (Oct. 2014-Oct. 2018). Before becoming the Dean, Prof. Ogendo had dedicatedly served as **the Chairman, Department of Crops, Horticulture and Soils (CHS)**, the largest in terms of human capital (over 40 PhD holding staff) at Egerton University, from Jan. 2009 to Oct. 2014 (5<sup>7</sup>/<sub>8</sub> years). During his tenure as Chair, Prof Ogendo presided over the transformation of CHS Department into one of the most vibrant and best performing departments in the University with the highest number of publications in peer-reviewed scientific journals, books and book

chapters; research and community outreach grants and increased number of academic programmes. Prof Ogendo also served as the Coordinator (July 2012-December 2024) of the activities in the University farm in Mpeketoni Sub-County, Lamu County.

**Prof Ogendo** has wealth of experience in participatory adaptive research, community outreach and consultancy services focusing on bio-intensive pest management & field efficacy / validation studies, enhanced food and nutrition security and livelihoods in smallholder agriculture. Over the past 3 decades, Prof Ogendo has found niche in bio-prospecting for botanical pesticides for bio-control of pre- and post-harvest insect pests of staple food crops. In the recent years (2010-2024), he has widened his research, outreach and consultancy domain to span underutilized crops (cassava, sweet potatoes, sorghum, indigenous vegetables and orphan crop legumes), climate change and agro-biodiversity. He has been /is Principal Investigator (PI)/Co-PI of eighteen (18) (**Value: USD 1.4 Million**) and a Collaborating Scientist in twenty-five (25) (**Value: USD 20.1 Million**) research / community grants and consultancies with a total value of **USD USD 21.5 Million (KES 2.15 Billion)**. The above stated grants and consultancies were/are funded by SGCI, NIFA-USDA, NSF, BBSRC-GCRF, EASTECO, The MasterCard Foundation, The African Union, European Commission, Rockefeller Foundation, CIAT/ECABREN, AICAD, USAID, VicRes, African Union, EAAPP/World Bank, KAPAP/World Bank, RUFORUM, Global Center for Food Systems Innovation (GCFSI), Michigan State University, Austrian Development Cooperation and Government of Kenya among others; As the Dean, Faculty of Agriculture (Oct. 2014-Oct. 2018), Prof Ogendo provided the requisite leadership that saw Egerton University win three grand grants totalling **USD 12.686 Million**. The grants include the World Bank supported *African Centre of Excellence in Sustainable Agriculture and Agribusiness Management (CESAAM) in Eastern and Southern Africa (Funding to EgU: USD 6 million over 5 years; 2017-2023)*; The MasterCard Foundation funded project titled “*Transforming African Agricultural Universities to meaningfully contribute to Africa’s growth and development (TAGDev)*” (Total funding: USD 27.4 Million; **EgU direct funding: USD 6.64 million; over 8 years: 2016-2024**) and The African Development Bank supported program titled “*Training of teaching staff at Masters (15) and Doctorate (10) level in Agricultural and Livestock Biosciences*” (**Funding: KES 45.5 Million; over 3 years: 2018-2021**). The three projects (2016-2024) have so far offered **55, 230 and 75 BSc, MSc and PhD full / partial scholarships, respectively** tenable at Egerton University; internships, regional staff and student exchanges, research funding for EgU and partner university staff and institutional capacity building (**2 vehicles- 4WD Fortuner Land Cruiser and executive Omni-bus**; lab equipment; CESAAM office complex). In addition to the aforementioned, Prof Ogendo led a 19-member EgU team and partners to submit a competitive Egerton University’s bid [**USD 30 M (KES 3.0 Billion)**] to become a Regional Anchor University (RAU) in **Rural Innovations and Agricultural Extension** in eastern Africa under the World Bank Group supported program “*Strengthening Higher Agricultural Education in Africa (SHAEA)*”, a bid that received highest technical score but the program was aborted due to global politics. He has also overseen the signing of MoUs with international (Virginia Tech, USA; Zhejiang University, China; Natural Resources Institute, UK; FAMU, USA; Bowie State University, USA), regional (BecA Hub at ILRI; University of Rwanda, University of Juba, etc) and national (Pwani University; KCB Foundation, Agtech Consulting Ltd, Media Council of Kenya and Counties of Nakuru, Vihiga and Homa Bay for capacity building of youth and women on agribusiness and value addition) partners.

**Prof Ogendo** is a prolific scholar with 61 scientific publications in refereed journals, five (5) book chapters/ book editorials, two (2) provisional patents, eight (8) M & E/ consultancies; fourteen (14) outreach / extension publications / project reports, over one hundred (100) conference/workshop/symposium papers/attendance and member of eighteen (18) professional bodies, boards and working groups. He is currently the President, International Society of Pesticidal Plants (ISPP) (July 2022-Present), Chair,

Pesticidal Plant Technologies Network (PEPTEN), Kenya (2013-2023) and Member, Project Advisory Board of “Enhancing Trade through Regulatory Harmonisation and Biopesticide Based Residue Mitigation in the SADC Region” USDA/Standards and Trade Development Facility. He has successfully supervised nine (9) MSc and Five (5) PhD students and currently supervising 3 MSc and 3 PhD student thesis researches in agronomy (crop production, crop protection, plant breeding and weed science), horticulture and agriculture and rural innovation studies. As spin off from his research grants (2004-2026), Prof. Ogendo has personally contributed to human capital development in Kenya at masters (11) and doctorate (6) levels in agriculture. In addition to his professional call, Prof Ogendo is the Coordinator & Resource Mobilizer, Chuth Ber Dispensary; Chairman, BOM, Akwakra Mixed Secondary School (Member since 2004); Member, BOM, Mawego Girls Secondary School (Feb. 2016-June 2022), Patron, Akwakra Primary School and Patron & Resource Mobilizer, St. Francis Akwakra Catholic Church (mobilizing resources for construction of new church building) all in Rachuonyo North Sub-County, Homa Bay County.

**EDUCATION BACKGROUND/ACADEMIC QUALIFICATIONS**

Year	Degree	Institution
2008	PhD Agronomy (Crop Protection: Stored Products Entomology)	Egerton University, Kenya
Title of Thesis: Composition and bioactivity of essential oils of <i>Lantana camara</i> L., <i>Tephrosia vogelii</i> Hook and <i>Ocimum americanum</i> L. against major coleopteran pests of stored food grains.		
2001	MSc Grain Storage Management (Stored Products Entomology)	Univ. of Greenwich, UK
Title of Thesis: Evaluation of insecticidal and repellent properties of <i>Lantana camara</i> L. and <i>Tephrosia vogelii</i> Hook against <i>Sitophilus zeamais</i> Motschulsky in maize grain storage in Kenya.		
1992	MSc Agronomy (Weed Science)	University of Nairobi, Kenya
Title of Thesis: The Influence of organic mulches on weeds, diseases and growth of maize ( <i>Zea mays</i> L.).		
1988	BSc Agriculture	University of Nairobi, Kenya
1983	Kenya Advanced Cert of Education (A Level)	Kakamega High School
1981	Kenya Certificate of Education (O Level)	Ringa Sec. School, Nyanza
1977	Certificate of Primary Education	Akwakra Pri. School, Nyanza

**PROFESSIONAL QUALIFICATIONS AND RETOOLING OPPORTUNITIES**

Dates/Year	Title of Certificate	Institution Awarding
January 19, 2026 – February 27, 2026	Strategic Leadership Development Programme Training, Kenya School of Government, Baringo Campus. Modules covered: <b>Module I: Introduction to Strategic Leadership:</b> <ul style="list-style-type: none"> <li>• Unit 1: Introduction to Leadership</li> <li>• Unit 2: Strategic Thinking</li> <li>• Unit 3: Contemporary Issues in Strategic Leadership</li> </ul> <b>Module II: Nurturing Leadership Skills &amp; Competencies:</b> <ul style="list-style-type: none"> <li>• Unit 1: Leadership Skills &amp; Competencies</li> <li>• Unit 2: Strategic Leadership Communication</li> <li>• Unit 3: Resource Mobilization &amp; Utilization</li> <li>• Unit 4: Employee Wellness</li> </ul> <b>Workplace Assignment (2 weeks):</b> <ul style="list-style-type: none"> <li>• Development of Position Papers and Policy</li> </ul> <b>Module III: Strategic Performance Management:</b> <ul style="list-style-type: none"> <li>• Unit 1: Leadership Role in the Performance Management</li> <li>• Unit 2: Measuring &amp; Sustaining Performance</li> </ul>	Kenya School of Government

	<p><b>Module IV: Leading Organizational Change:</b></p> <ul style="list-style-type: none"> <li>Unit 1: Leading Organizational Change</li> <li>Unit 2: Learning Organization</li> </ul> <p><b>Module V: Values and Character Development:</b></p>	
October 8-9, 2025	<p>KIBU Council and UMB training on “<b>Consolidating Institutional Culture Towards Board Governance Excellence</b>”, Kenya School of Government, Mombasa Campus. Topics covered:</p> <ul style="list-style-type: none"> <li>Functions &amp; Mandate of the University;</li> <li>Mid-Term Review of Strategic Plan Objectives &amp; Achievements;</li> <li>Budgeting, Financial Management, and Reporting;</li> <li>Governance and Resource Mobilization;</li> <li>Generic HR Instruments for Public Universities;</li> <li>Compliance with applicable laws, rules and regulations, codes and standards;</li> <li>Improvement of Performance and Efficiency in the Public Service;</li> <li>Corporate Risk Management and Internal Control and;</li> <li>Emerging Issues in Governance incl. Electronic Government Procurement System (eGPS).</li> </ul>	Kenya School of Government & KIBU
June 10-12, 2024	<p>University Council and Management <b>Leadership &amp; Governance</b> Training at Morendat Training &amp; Conference Centre, Naivasha. Topics covered:</p> <ul style="list-style-type: none"> <li>Mwongozo Code of Governance for State Corporations</li> <li>Principles &amp; Practice of Governance</li> <li>Value Based Leadership</li> <li>Managing Diversity in the Workplace</li> <li>Ethical Dilemmas in Management</li> <li>Human Resource Best Practice in Recruitment &amp; Disciplinary of Senior Staff</li> <li>Financial Planning &amp; Budgeting</li> </ul>	<p>Facilitated by: State Corporations Advisory Committee Kenya School of Government and The National Treasury.</p> <p>Certified by Egerton University</p>
February 12-16, 2024	<p>Professional Training in <b>Conflict Management and Negotiations in Practice: Skills, Tools and Approaches</b></p>	Oslo New Univ. College and Egerton University
June 16, 2023	<p>Training of Egerton Researchers on Translation of Research into Policy Briefs</p>	Egerton University/ Tegemeo Institute
June 1-3, 2022	<p>TAGDev Program supported Training on “<b>Finance for Non-Finance Managers</b>”, Epashikino Resort and Spa, Gilgil. Topics covered:</p> <ul style="list-style-type: none"> <li>Accounting and Reporting</li> <li>Treasury and Cash Management</li> <li>Revenue, Grants and Donations</li> <li>Overview of emerging issues &amp; trends on Budgeting</li> <li>Overview of emerging issues on Gov’t Management</li> <li>Audit Functions &amp; Procedures</li> <li>Corporate Governance and Audit Committee Functions</li> <li>Asset Management</li> </ul>	Egerton University/ The National Treasury
Mar-Jun 2021	<p>CESAAM-Virginia Tech Global Opportunity Initiative (GOI) 2021 Focal subjects: - Framing your challenge and Defining Your System of focus</p>	Egerton University and Virginia Tech (USA)

	- Understanding your system of focus and Communicating Science for Impact - Mapping of Kenyan agricultural research and development of action plans for collaborative initiatives.	
June 2018	ISO 9001: 2015 Quality Mgt System Transition Course	KEBS
Nov-Dec 2017	CESAAM-Virginia Tech Retooling workshop on Research Analytics and Dev'pt of Fundable proposals	EgU-KE & Virginia Tech USA
Oct. 2012	Training on Research Management	EgU/Univ. of East Anglia
Sept 2012	CTA Exec. Training on M & E of Information Projects, Products and Services: Using the SMART Toolkit	Technical Centre for Agricultural and Rural Cooperation (CTA)
<b>June 2012</b>	<b>ISO 9001: 2008 QMS Lead Auditors Course</b>	<b>KEBS</b>
<b>March 2012</b>	<b>Transformative Leadership</b>	<b>Kenya Institute of Administration</b>
March 2012	Complaints Handling Mechanisms	Egerton University
2011	Training on Research Proposal and Scientific Writing	ADAPPT-Zambia
Jan 2010/ June 2011	E-Learning Capacity Building Course on Developing and Publishing of Digital Teaching & Learning Materials	RUFORUM/Futuristic Ltd
June 2010	Training on writing policy briefs for agricultural researchers	Egerton University
<b>Nov 2009</b>	<b>Internal Quality Auditors Course</b>	<b>KEBS</b>
July 2008	Sustainable Agriculture and Rural Development	Baraka Agric. College
<b>2009</b>	<b>Student Academic Advising</b>	<b>Egerton University</b>
Oct-Dec 2004	Training on Lab procedures for contact, fumigant and repellence effects of plant essential oils & appropriate rearing (culturing) of insect pests of stored grains	The Volcani Center, ARO, Israel
<b>2001</b>	<b>University Teaching Methods Course</b>	<b>Egerton University</b>
Oct 30-Dec 4, 2001	International Course on Research and Development of Protected Crop Technologies	MASHAV/ The Volcani Center, Israel
<b>July 2001</b>	<b>Student Academic Advising</b>	<b>Egerton University</b>

**Academic Positions and Work Experience (Summary of Employment Record)**

<b>Period</b>	<b>Position</b>	<b>Employer</b>
Feb. 5, 2026-Present	Professor of Agronomy (Crop Protection), CHS Department	Egerton University
April 4, 2013-Feb. 4, 2026	Assoc. Professor of Agronomy (Crop Protection), CHS Department	Egerton University
Apr 9, 2009- Apr 3 2013	Senior Lecturer of Agronomy, CHS Department	Egerton University
Nov.2002-Apr 8 2009	Lecturer of Agronomy, CHS Department	Egerton University
July 1997-Nov. 2002	Assistant Lecturer, Dept. of Agronomy	Egerton University
Sept 1991-June 1997	Assistant Trainer of Field Plot Techniques & Data Management	CMRT Project, EgU
Aug 1990-Aug. 1991	Graduate Teacher, Dr Aloo Gumbi Sec School, Kisumu	Teachers Service Commission

**SUMMARY OF ACADEMIC, ADMINISTRATIVE, RESEARCH AND COMMUNITY OUTREACH LEADERSHIP AND EXPERIENCES**

**a) Academic and Administrative Leadership**

Prof. Ogendo has served as an academician for over 28½ years (July 1997-2026), member of the University Senate for 17 years (Jan. 2009- Present), Middle Level University Management (Chairman, CHS Dept; Dean, FOA; Director, CMRT) and University Management Board for 4½ years (DVC-ASA at Kibabii University; Jan 2025 to Present; Principal, NCCC-Egerton University; Aug. 2021-Dec 2024) and Programme Academic Leader of 2 MSc Programmes (2019- June 2023) and 2 PhD Programmes in Crop Protection and Agronomy (2019- June 2023; Renewed for 3 years w.e.f. June 2023). In addition to academic and administrative leadership, I have received training in Consolidating Institutional Culture towards Board Governance Excellence (Oct. 8-9, 2025), Leadership & Governance (June 10-12, 2024), Conflict Management and Negotiations (February 12-16, 2024), Finance for Non-Finance Managers (June 1-3, 2022), Transformative Leadership (March 26-30, 2012), Certified by KEBS as Lead Auditor-Quality Management System, and several other skills enhancement short courses and in final stages of completing MBA (Strategic Management).

<b>Period</b>	<b>Leadership Position</b>
Jan 1, 2025-Present	Deputy Vice Chancellor (Academics and Students Affairs), Kibabii University
Aug 16 2021-Dec 31 2024	Principal, Nakuru City Campus College, Egerton University
May 2019-Aug 15, 2021	Director, Crop Management Research Training, Egerton University
Oct.2014-Oct. 2018	Dean, Faculty of Agriculture, Egerton University
Dec. 15-19, 2014	Acted as Deputy Vice Chancellor (Administration & Finance).
Jan.2009-Oct. 2014	Chairman, Dept. of Crops, Horticulture and Soils, Egerton University
July 2012-Dec 2024	Coordinator, Egerton University Mpeketoni Campus
2016-Present	Coordinator, Egerton University-ILRI. Successfully lobbied and secured six (6) MSc Fellowships under the EU-ILRI PRDIGL BURUNDI Project. The program will support six (6) MSc students [Animal Science (3), AGECC (1) and Medical Parasitology (2)] (2021-2023). Total fees: KES 2.25 Million
2004-2026	Has personally and with collaborators contributed to human capital development at Masters (11) and Doctorate (5) levels in Kenya thro' Studentships/Fellowships nested within own Research Grants.
2019	Successfully led Departmental team to internationally benchmark the MSc Crop Protection curriculum with Virginia Tech, USA. The international benchmarking of PhD Crop Protection curriculum was pended due to change in structure and content courtesy of CUE policy.
2009-2014	As Chairman, Department of Crops, Horticulture and Soils I oversaw the development of 1 BSc, 5 MSc and 5 PhD programmes.

**b) Research & Outreach Leadership and Experiences (as Principal Investigator/Co-PI/Team Leader, Collaborator; Linkages and Collaborations)**

Prof Ogendo has been/is PI/Co-PI of eighteen (18) and a Collaborating Scientist in twenty-six (26) research and outreach grants and consultancies all valued at **USD 21.546 Million**. As Dean-FOA (2014-2018), I formed teams and won grants totalling **USD 12.686 Million** (AfDB, CESAAM & TAGDev). Collaboratively, Prof. Ogendo's scholarly achievements (grants and consultancies) can be summarized as follows:

**PI/Co-PI/Team Leader: Research and Outreach Grants and Consultancies:**

- 1) Kibabii University is part of EU-Africa Consortium that submitted an Horizon Europe proposal title “Resilient and Equitable Circular Local Agri-food Innovation Model – Africa-Europe (RECLAIM-AE)” under the HORIZON-CL6-2025-02-FARM2FORK-21-“Development of Locally Sourced Ingredients for Ready-to-Use Supplementary and Therapeutic Foods (RUSF/RUTF)” led by Prof. Luca Cocolin, S (Italy), KIBU is leading Work Package 3- Territory-based testing and pilot production of contextualised RUSF/RUTF. Total 17 partners. Total Budget: €4,030,329.34; KIBU Budget: €244,250.00 [**≈KES 36.6 M**]; Submitted 16.09.2025. **Outcome: Technical evaluation score: excellent (93.3%) and proposal placed on Reserve w.e.f. 12<sup>th</sup> January 2026**; KIBU team: PI-Prof J O Ogendo, Collaborators: Dr J Mutonyi, Dr L Namusonge, and Dr P J Wapukha
- 2) SGCI Phase II Project "Development of safe mass rearing tools and value addition for the desert locust (*Schistocerca gregaria* Forskal) value chain in East Africa". Partners: Egerton University (**PI: Prof J.O. Ogendo**), ICIPE (Dr. C.Tanga), Sagla Park (Dr. E.Obura) and Makerere University (Prof. D. Nakimbugwe). Funding: USD 90,000.00. March 1, 2022-Feb. 28, 2025.
- 3) Prof. J.O.Ogendo is the link person at Egerton University for the EU-ILRI PRDAIGL BURUNDI Project supporting six (6) MSc students [Animal Science (3), AGECE (1) and Biological Sciences (2)] for 2 years (2021-2023). Total fees for 2 years: KES 2.25 Million. Egerton University Coordinator: Prof. Joshua Ogendo. <https://hub.africabiosciences.org/aboutbeca/becahub-staff/115?view=person>
- 4) Program Coordinator of Egerton University (Kenya)-Bowie State University (USA): NSF-REU and NIFA USDA-REEU Project “Bowie State University Agricultural Research and Extension Experiences for Undergraduates in Collaboration with Egerton University, Kenya”. The National Institute of Food and Agriculture (NIFA), NIFA-USDA Award Number: 2020-67038-30659. Funding: USD 500,000.00 for 5 years (2020-2025); a total of sixty-nine (69) BSc students from across US and one Professor (Program Director,BSU: Prof. Anne Osano) hosted by 12 Egerton University Professor Mentors. EgUniv. Program Director: **Prof. J.Ogendo**; Summer Exchange (June-July) for 5 years (2019, 2022, 2023, 2024 and 2025). Funds received by Egerton University: **KES 36.02 Million**;

Year	USD	Exchange rate (USD to KES)	Amount (KES)
2019	29000	101.90	2,955,100.00
2022	56355	112.50	6,339,937.50
2023	68500	136.00	9,316,000.00
2024	75650	127.00	9,607,550.00
2025	61915	126.00	7,801,290.00
<b>Total</b>			<b>36,019,877.50</b>

- 5) National Museums of Kenya, thro’Natural Products Industry Secretariat, Consultancy to carry out “Feasibility Study on Commercialization of Aloe in North Rift Counties, Kenya”. Lead Consultant: Prof. J.Ogendo, Consultants: Prof. M.Ngigi, Prof. S.T.Kariuki, Dr. J.Mafurah and Mr. D.O.Okello. Funding: **KES 8 M** (March 2019-March2020).
- 6) East African Science & Tech Commission (REF: CGI-1-2018-040) Project “A New Technique for Locust Mass Culture for Food and Feeds Industry in East Africa”. Budget: US\$ 80,514 [KES 3,008,500.00]. Partners: Egerton University (**PI: Prof J.O. Ogendo**), ICIPE (Dr. C.Tanga), Sagla Park (Dr. E.Obura), Univ. of Rwanda (Dr. D. Ndahimana\_ and Makerere University (Prof. D. Nakimbugwe)
- 7) BBSRC-SASSA Proposal “Natural Pest Regulation on Orphan Crop Legumes in Africa (NaPROCLA)”. Team Leader: Prof. P Stevenon (NRI, UK); PI-Kenya: **Prof. J. Ogendo**, Collaborators: Tanzania and Malawi. Total funding: UK£ 973779.36; EgU: UK£125,054.00 [KES 13,505,805.00] (2018-2022).

- 8) Bayer East Africa Ltd Consultancy on Evaluation of Bayer CSR in West Pokot (Bayer EA Ltd Project: Agriculture (Crop & Animal Health). Funding KES 1.807 Million; Feb-March 2016. Lead Consultant: Prof. J O Ogendo; Consultants: Prof. B O Bebe and Prof G Owuor.
- 9) Limiting the impact of Cassava Brown Streak Disease on smallholders, women and the cassava value chain (LimitCBSD) Grant No. AURG/2/141. PI: Prof. A. Westby (NRI, UK); Partners: Egerton University (**Co-PI: Prof. J Ogendo**; R.M.S. Mulwa, J.G. Nyaanga, E.K. Cheruiyot and P.K. Bett), DARS-Malawi, TFNC-Tanzania and NARI-Tanzania. (2012-2015): Donor: African Union. Total Budget: €620,893.10 for 3 years.
- 10) Quality post-harvest handling, value addition and marketing of cassava products for food security and wealth creation (EAAPP-OCS-01-2011-29). World Bank: EgU Budget: KES 50M/ 3 years; 2011-2014
- 11) Botanical pesticides for bio-control of spider mites and anthracnose in French beans: *A Case of smallholder farmers in Kenya* (Call ID: RU/CGS/GRG/30/9/11). (2012-2014): Donor: RUFORUM: Funding: **US\$ 59,882.00**.
- 12) African Dry land Alliance for Pesticidal-Plant Technologies (ADAPPT): *A network for optimising and promoting the use of indigenous botanical knowledge for food security and poverty alleviation in Africa*". Partners: NRI-UK (Lead Partner), Kenya (**Co-PI Kenya: J O Ogendo**), Zimbabwe, Malawi, Zambia, ICRAF, Tanzania, Namibia, South Africa and Ghana. Nov 2009-Oct 2013. European Commission ACP S and T Programme 2008 (Call Ref: EuropeAid/127860/D/ACT/ACP; Applic. Ref: ACP S&T 2008-033). Funding: €989,204.
- 13) Construction of Maternity & VCT blocks and underground (50 M<sup>3</sup>) water tank at Chuth Ber Dispensary, Rachuonyo North Sub-County. **Prof. J. Ogendo**- Coordinator, Chuth Ber Dispensary. 2009-2010. Donor: Embassy of Japan, Nairobi, the Grant Assistance for Grassroots Projects Program. Funding: US\$79,468.
- 14) Kenyan Plant Constituents for Biological Insect Control. **Co-PI (Kenya): Prof. J.O. Ogendo**; and **PI (Israel): Prof. Ephraim Lewinson**. 2004-2008. Donor: USAID-CDR Program. Funding (K): US\$199,200.00. This project financed my PhD thesis research.
- 15) Management of grain pests through manipulation of scientifically rationalised indigenous non-chemical options: *A case of subsistence farmers in the Lake Victoria region, Kenya* (AICAD Grant No. AICAD/RD-07/SED/02-001). **PI: J.O. Ogendo**; 2002-2005. Funding: US\$21000).
- 16) Evaluation of bioactivity of *Lantana camara* L. against maize weevil, *Sitophilus zeamais* Motsch. (Coleoptera: Curculionidae) in stored maize grains. **PI: J.O. Ogendo**; 2003-2004. Donor: EgU. Funding: KES 107,000.00.
- 17) Evaluation of insecticidal and repellent properties of *Lantana camara* L. and *Tephrosia vogelii* Hook against *Sitophilus zeamais* Motschulsky in maize grain storage in Kenya. **J.O. Ogendo**. 1999-2001. MSc Thesis research. Donor: Assoc. Commonwealth Universities under a Shared scheme with the University of Greenwich, UK.
- 18) Adapting high yielding climbing beans in the cool highlands of Rift Valley. **PI: J.O. Ogendo**; CRs- A.O. Musandu, A.W. Kamau, R. Musoni (Rwanda), Gridley. 1998-1999. Donor: CIAT/ECABREN. Funding: US\$3000.

**Collaborating Scientist/Consultant: Research and Outreach Grants and Consultancies**

- 19) Kenya ICT Action Network Trust (KICTANet) Project titled “**Integrated AI-Driven Soil Fertility Assessment and Fertilizer Supply Chain Optimization for Smallholder farmers in Kenya; AI for Financial Inclusion in Rural Kenya**”. Partners: Daystar University (Lead), Kibabii University, USIU-Africa and KALRO under the KIDUKA Consortium. Funding: KES 2 Million. Funded by UK

- Government Digital Access Programme. Period: **October 2025 to 31<sup>st</sup> March 2026**. PI: Harriet Ratemo (Daystar), **Co-PI: Prof J O Ogendo (KIBU)**, Prof. J Macharia (USIU) and Maddo Onyango (KALRO);
- 20) National Museums of Kenya (NMK)-National Product Initiative (NPI) Consultancy “Feasibility Studies on the Commercial Viability of Indigenous Wild Fruits in Kenya”. Lead Consultant: Dr Oscar Ingasia, Consultants: Prof. J O Ogwen, **Prof J O Ogendo**, Prof R M S Mulwa, Mr. Peter Amuoga and Ms. Rose Chiteva [KEFRI]. KES 6.64 Million. April 2023-August 2023.
  - 21) BioInnovate Africa supported project “**Plant based insecticides for controlling maize storage pests and other insect pests of economic relevance to smallholder farmers (Bioinsecticides4Food Security)**”, a collaborative R4D between Egerton University (Lead; PI: Prof. J O Omolo; CRs: **Prof. J O Ogendo**, Dr. J Nduko, Dr. B Kirui), ICIPE, Farm Track Ltd, Open Univ of Tanzania and Univ of Rwanda. Total Budget: USD 1 Million; EgU Budget: USD 200,000.00; February 2023-January 2026.
  - 22) GCRF AgriFood Africa Innovation Awards Round 3 supported our project '**Exploration of Antimicrobial Compounds from Edible Insects and Indigenous Chickens' Skin and Feathers for Applications in Food and Industry'**, collaboration between the Univ. of Hertfordshire, UK & Egerton Univ., KE. EGU Funding: UK£13,500.00; Oct.2022-March 2023. Co-PI: Dr B Oloo (EGU), Collaborator: Prof J O Ogendo (EGU).
  - 23) CESAAM supported Project “**Striga Management in Maize-Legume Based Cropping System in Four Counties of Western Kenya**”. PI-Prof Richard Mulwa; Collaborators: **Prof. J.O. Ogendo**, Prof. S.Mwonga & Prof. G. Owuor. Funding: KES 1.8 M. March 2022-Feb. 2023.
  - 24) KCSAP Project “**Validation & Promotion of Sorghum for Industrial and Domestic Uses for Economic Empowerment of smallholder farmers**”. KCSAP Secretariat (KCSAP CGS/CRGs-AD 2019/CSC/01-7/Sorghum). PI: Prof E Cheruiyot (EGU), Collaborators: **Prof. J Ogendo**, Prof. S Mwonga, Partners: UoN & KALRO. Funding: KES 22 M (2019-2021).
  - 25) KCSAP Project “**Improving smallholder livelihoods through validation and promotion of cassava TIMPs for domestic and industrial applications**”. KCSAP Secretariat, KALRO Hqs (KCSAP CGS/CRGs-AD 2019/CSC/01-02/Cassava). PI: Prof. R M S Mulwa, Collaborators: **Prof. J O Ogendo**, Prof. P F Arama, Jane Abonyo (EGU); Partners: KALRO-Mtwapa. KES 22 M (2019-2021).
  - 26) World Bank supported “**African Centre of Excellence in Sustainable Agriculture and Agribusiness Management (CESAAM) in Eastern and Southern Africa**” (expected funding: **USD 6 million** over 5 years; 2017-2022). Team: Prof. A.Y. Guliye, Prof. G. Owuor, Prof. S. Mwonga, Prof. J Ouma, Dr. M. Omwamba and **Prof. J.O. Ogendo (As Dean I formed the Core Team)**. As Core Team Member, Prof Ogendo is in-charge of Research, Innovations and International Partnerships.
  - 27) Transforming African Agricultural Universities to meaningfully contribute to growth and development in Africa (TAGDev). PI: Prof N Mungai, CRs: Prof P Mshenga, **P J Ogendo**; Partners: Gulu University and RUFORUM. The MasterCard Foundation. Funding USD 6.64 Million (KES 664 Million); 2016-2024.
  - 28) BBSRC-SASSA Proposal “**GCRF-STARS proposal on increasing research capacity in LMICs focusing on Ethiopia (EIAR)**, Kenya (Egerton University), Tanzania (TALIRI) and Malawi (LUANAR)”. Team Leader: Prof. Appolinaire Djikeng (University of Edinburgh, UK); PI-Kenya: Prof. G Owuor. Collaborators: Prof. J Ogendo, Funding to CESAAM: UK£195,000.00 (2018-2021).
  - 29) **Cassava value chain upgrading for secure food, nutrition, income and resilience of smallholder farmers in the ASALs of Nakuru County**. PI: Prof R M S Mulwa, Collaborators: **Prof. J O Ogendo**, Prof. P F Arama, Jane Abonyo (EGU); Partners: Rongo University, Mtakatifu Clara), KALRO, Baraka Agric. College and EABL. MCF funding: **USD 200,000.00** (2018-2023).

- 30) Plant essential oils-based tablet formulation for the management of stored product insect pests. Egerton University Innovation Project; **KES 1 Million**. (2017-2018). PI: Dr P K Bett, Collaborators: **Prof. J O Ogendo** and Prof J C Matasyoh.
- 31) AfDB/MoHEST funded training of teaching staff at Masters & Doctorate in Agricultural and Livestock Biosciences. Funding **KES 45.5 M** for 15 MSc and 10 PhD scholars (2017-2021). PI: Dr I Kariuki, Members: Prof J Ogweni, Prof J Ouma, Dr J Nduko, and **Prof J O Ogendo (Dean FOA)**.
- 32) Genomic-metabolomic analysis of medicinal *Dodonaea* species. A joint research grant under the South African/Kenya –research partnership programme bilateral agreement 2016/2017. Partners: Egerton University (**J O Ogendo**), Stellenbosch University, RSA; KEMRI, NMK and ILRI. NACOSTI/NRF/Dept. Science & Tech-RSA. Funding: **KES 3 Million** (2018-2020).
- 33) CIMMYT SIMLESA Consultancy to Scaling up “Impacting on productivity and livelihoods of smallholder households through sustainable intensification of conservation agriculture based maize-legume systems in western Kenya”. Lead Consultant: Prof. I M Tabu, Consultants: **Prof J Ogendo**, Prof S Mwangi, and Prof. G Owuor. Funding: AUD 78,460.00; 2016-2018.
- 34) Grasshopper/ Locust Farming as a Sustainable Feed/ Food Ingredient Source for Non-Ruminant Livestock and Humans for Enhanced Food Security, Poverty Alleviation, and Resilience to Climate Change in Kenya (2016-2019). PI: Dr J Nduko, Collaborator: **Prof J Ogendo**; Donor: MSU-GFSIS; **USD 120,000.00**
- 35) Blackberry germplasm collection, characterisation and breeding for commercial production in Kenya. RUFORUM GRANT. 2014-2016. Donor: RUFORUM: Funding: **US\$ 65,000.00**. MSc Plant Breeding Jared Ochieng (KM21/14165/15). Graduated 7/12/2018. PI: Dr Robert Gesimba, Collaborator: **Prof. J O Ogendo**.
- 36) Enhancing Productivity and Economic Value of Indigenous Vegetables for Improved Income, Nutrition and Food Security (REF: KAPAP CGS/CN 2010/HC/RC No 03: VEGETABLES). 2011-2014. Donor: KAPAP/World Bank. KES 3.7M. PI: R M S Mulwa, CRs: J O Ogendo
- 37) Enhancing sorghum production, processing and marketing for improved small-holder incomes and livelihoods in Kenya”. KAPAP CGS/FP 2011. Partners: EgUniv (**Co-PI: J O Ogendo**), UoN (PI: S Shibairo), KARI, SACRED Africa, JKUAT & JOUST. 2011-2014. Donor: KAPAP/World Bank. EgU Budget: KES 5.7M.
- 38) Strengthening Universities Capacities for Mitigating Climate Change Induced Water Vulnerabilities in East Africa (WATERCAP) (RUFORUM, Boku, Egerton and Makerere; 2011-2014; Donor: Austrian Dev’t Cooperation/APPEAR. Budget: €86,000.00. EGU: PI: R. Birech CRs: B O Bebe, **J O Ogendo** and E. Muchiri
- 39) NCST supported “Bioefficacy of essential oils of two indigenous plants against major coleopteran and lepidopteran pests of stored food grains” (NCST/5/003/3<sup>RD</sup> CALL PhD/138). PhD Student: Mr. P.K. Bett; Supervisors: Prof Deng, **Prof. Ogendo**. 2011-2013. Funding: KES 600,000.00
- 40) Bioactivity of aqueous crude extracts of *T. vogelii* Hook against *H. armigera* (Lepidoptera: Noctuidae) in chickpea. MSc Student: Ms. L.M. Wambua; Supervisors: Prof Deng, **Prof. Ogendo**. 2010-2011. Donor: NCST. Funding: KES 200,000.00
- 41) Ethnobotanical products for insect pest management in subsistence agriculture in the LVB region. [PI: Prof. A.L. Deng (KE), CRs: Dr. **J.O. Ogendo** (KE); Dr. M. Kamatenesi-Mugisha (UG) and Mr. M.J. Mihale (TZ)]. 2006-2012. Donor: VicRes. Funding: US\$ 54,000 inclusive of \$4000 for PhD student.
- 42) Performance of high yielding non-hybrid maize and bean cultivars suitable for subsistence agriculture grown under organic farming systems in low and medium potential agro-ecological zones. 2006-2008. Donor: AICAD; Funding: US\$15,000.00.

- 43) Investigation of the anti-microbial and pesticidal active compounds from *Gomphocarpus* spp. for economic, crop and livestock disease control purposes. 2007-2008 Donor: EgU. Funding: KES 400,000.
- 44) Collaborated in a Fertilizer Use Project funded by the Rockefeller Foundation and implemented in western Kenya. Contributed in the design /implementation of fertility and *Rhizobia* inoculation on crop (maize-bean systems) response under *Striga hermonthica*. PI: Prof. A.O. Musandu; CR- **J.O. Ogendo**. 1997-1999. Funding: USD 50,000.00

**Selected Leadership Milestones in Research, Outreach and Consultancies:**

**2022:** Appointed by East Africa Science and Technology Commission (EASTECO) as **Member** of the Research Grant Sub-Committee of the EAC Regional Research and Development Working Group (RDWG) [July 27, 2022 to Present]. Also member of Executive Committee of Regional RDWG.

**2018:** Appointed **Team Leader** of a 19-member SHAEA Proposal Development Team that was submitted on 8<sup>th</sup> November 2018 (**Budget: USD 30 Million**). Egerton University has bid to become a Regional Anchor University in **Rural Innovations & Agricultural Extension in eastern Africa**.

**July 27, 2022-Present:** President, International Society of Pesticidal Plants (ISPP)

**Feb.2018-Jul.26, 2022:** Interim President, International Society of Pesticidal Plants. As Head of Governing Council spearheaded the Third International Conference of Pesticidal Plants (ICPP 3) held in Yamoussoukro, Cote D'Ivoire (July 25-29, 2022)..

**2013-2023:** Chair, Pesticidal Plant Technologies Network (PEPTEN), Kenya

**2009-2013:** Country Coordinator-Kenya and WP 4 Leader of Dryland Alliance for Pesticidal Plant Technologies (ADAPPT) Network covering 10 countries (Ghana, Kenya, Malawi, Namibia, South Africa, Tanzania, UK, Zimbabwe and Zambia).

Successfully bid and hosted the *1<sup>st</sup> Intern.Conf. on Pesticidal Plants (ICPP) at icipe-Nairobi (21-24 Jan.2013)*; Egerton University was the primary host institution in Kenya. Prof Ogendo served as the Chair, National Organizing Committee and managed to secure partnerships and funding that supported young scientists across Africa. The ICPP was attended by over 150 delegates from four continents, namely Africa, Asia, Europe and North America.

**2001-Present:** Coordinator and Resource Mobilizer, Chuth Ber Health Centre (elevated in March 2021; formerly Dispensary), Rachuonyo North Sub-County, Homa Bay County.

*Achievement:* In 2009, secured **US\$79,468.00 (KES 6.3 M) grant** from Embassy of Japan, Nairobi, under the Grant Assistance for Grassroots Projects (GGP) Program for the construction of Maternity & VCT blocks and underground (50 M<sup>3</sup>) water tank at Chuth Ber Dispensary, Rachuonyo North Sub-County. Karachuonyo CDF and Rural Electrification Authority shared the cost of electricity supply.

**2004-Present:** Appointment by Minister for Education as a member of the Board of Management (BOM) of Akwakra Mixed Secondary School (2004-2026) and Mawego Girls Secondary School in Rachuonyo North Sub-County (Feb 2016-June 2022) in Rachuonyo North Sub-County, Homa Bay County. Currently Chairman, BOM Akwakra Mixed Sec (2009-2027).

**2007-Present:** Patron, Akwakra Primary School, Rachuonyo North Sub-County

**2016-Present:** Patron/Resource Mobilizer, St. Francis Xavier Akwakra Catholic Church, Catholic Diocese of Homa Bay. Under the Kanisa Mashinani initiative currently putting up a bigger church (2016-Present).

**Other Academic, Administrative and Research Leadership Milestones:**

- i) Chairperson, Committee on Review of several KIBU Policies (Jan 2026-Present);
- ii) Chairperson, KIBU Central ODeL Implementation Committee (Jan 2026-Present);
- iii) Chairperson, KIBU University-wide Competency Based Education Committee (Jan 2026-Present)
- iv) Chairperson, Kibabii University Deans Committee (Jan. 2025-Present).
- v) Chairperson, Kibabii University Quality Assurance Committee (12<sup>th</sup> March 2025-Present).
- vi) Chairperson, Kibabii University Library, Printing and Publishing Committee.
- vii) Chairperson, Kibabii University Students Welfare Committee.
- viii) Chairperson, Kibabii University Students Disciplinary Committee.
- ix) Chairperson, Kibabii University Timetabling and Examinations Committee.
- x) Member, KIBU Human Resource Management Advisory Committee (25<sup>th</sup> March 2025-Present).
- xi) Appointed as Supervisor of the Speeches; Gowns; Programme, Citations and Booklets; and Publicity and Entertainment sub-committees of the Graduation, Ceremonies, Prizes and Awards for the 10<sup>th</sup> Kibabii University Graduation Ceremony.
- xii) Member, Kibabii University Planning Committee.
- xiii) Appointed Member, Vice Chancellors' Committee of Public Universities to **Develop Generic Human Resource Instruments for Public Universities**. Also served as **Thematic Leader** for Ogrnaizational Structure, Grading Structure, Norms and Staffing (July 9, 2024 to Present).
- xiv) Program Coordinator, Egerton University-Bowie State University (USA) Global Research and Extension Experience (NSF-REU & USDA NIFA-REEU) for US undergraduate students. Duration: June 5, 2024- July 31, 2024. Budget: USD 79,900.00.
- xv) Appointed Chairperson, Committee to **Prepare an Induction Handbook** (April 23, 2024).
- xvi) Appointed Chairperson, Committee on the **Review of Egerton University Schemes of Service / Career Progression** (February 2024 to Present).
- xvii) Appointed Member, Committee on "Identification of staff for laying off due to lack/few students in some degree programmes (19<sup>th</sup> January 2024).
- xviii) Chairperson, Committee to **Review the Egerton University Training Policy** (19<sup>th</sup> Dec. 2023).
- xix) Member, Editorial Board, Intern. Research Journal of Rongo Univ. (Nov. 2023 to Nov. 2026).
- xx) Appointed Chair, Committee to Review Rates payable to Part-Time Lecturers (July 2023).
- xxi) Program Coordinator, Egerton University-Bowie State University (USA) Global Research and Extension Experience (NSF-REU & USDA NIFA-REEU) for US undergraduate students. Duration: 5 years [2019, 2022, 2023, 2024 & 2025] Funds received by EGU: KES 36,019,877.75.
- xxii) Appointed Member, Egerton Univ. **Budget Implementation Committee** (June 2023).
- xxiii) Appointed Chairperson, University Catering Oversight Committee (May 19, 2023)
- xxiv) Appointed Chair, Ad-Hoc Committee to Audit the E-Learning at Egerton Univ. (April 2023).
- xxv) Appointed as Chairman, Committee on the **Review of the Egerton University Human Capital Manual** (February 16, 2023; Approved by Council in June 2023).
- xxvi) Appointed Member, **Corruption Prevention Committee** of Egerton Univ. (Jan. 2023).
- xxvii) Elected President, International Society of Pesticidal Plants (July 2022; Yamoussoukro, Cote D'Ivoire).
- xxviii) Appointed by EASTECO as **Member** of the **Research Grant Sub-Committee** of the EAC Regional Research & Development Working Group and **Member** of Regional Executive Committee of RDWG [July 27, 2022 to Present].
- xxix) Co-Editor, *Frontiers in Agronomy* (Special Project): Invited to be Co-Editor of Special Edition/Project on "Pest Management for Smallholder Farmers -Frontiers in Agronomy". Team:

- Prof. Murray Isman (Chief Editor, UBC-Canada), Co-Editors: Prof. J.O. Ogendo (Egerton Univ, Kenya), Prof. B. Mvumi (Univ Zimbabwe), Prof. Philip C. Stevenson (NRI, UK), Prof. S. R. Belmain (NRI, UK) and a few more experts to be enlisted on “Crop Disease Management Strategies”; Launched in Sept. 2022.
- xxx) Appointed Programme Academic Leader (PAL) for MSc. Crop Protection (Pathology Option), MSc. Crop Protection (Entomology Option), PhD Crop Protection (Aug. 2019-June 2023) and PhD Agronomy (Aug. 2019-June 2023; renewed for 3 years w.e.f. June 2023).
  - xxxii) International Program Director, Bowie State University Agricultural Research and Extension Experiences for Undergraduates (BSU-REEU) in Collaboration with Egerton Univ., Kenya. The National Institute of Food and Agriculture (NIFA), NIFA-USDA Award Number: 2020-67038-30659. Funding: USD 500,000.00 for 5 years (2020-2025); EgU Budget: USD 250,000.00. PI-Dr. Anne Osano (BSU).
  - xxxiii) International Program Director, Egerton University-Bowie State University (USA) Agricultural Research Experience for US undergraduate students exchange program. The National Science Foundation (NSF-REU). Duration: 2019- 2025.
  - xxxiiii) Appointed Team Leader, EgU SHAEA Proposal Development Team (Sept. 2018)- Submission to World Bank for the establishment of a Regional Anchor University in Eastern Africa under the Regional Project ‘Strengthening Higher Agricultural Education for Agri-Food Systems Transformation in Africa (SHAEA)’. Submitted on 8.11.2018; Expected funding USD 30 Million (≈ KES 3.0 Billion).
  - xxxv) Member, Agricultural Production, Socio-economic and Environment Thematic Working Group- Universities Collaboration on Food and Nutrition Security (PS, MOALF; 2018).
  - xxxvi) Member, LOC, 6<sup>th</sup> African Higher Education Week and RUFORUM Biennial Conference to be held on October 22-26, 2018 at Kenyatta Intern. Convention Centre, Nairobi, Kenya
  - xxxvii) Member, LOC, 41<sup>st</sup> WEDC Intern. Conf. at Egerton Univ. (9<sup>th</sup> - 13<sup>th</sup> July 2018).
  - xxxviii) Member, Core Team for development and implementation of Green Climate Fund Program/Project Framework (Oct. 2017-Present).
  - xxxix) Core Team Member, The ADB/MOHEST Program Coordinating Committee (Jan 2018-2024).
  - xl) Member, The TAGDev Program Coordinating Committee (2017-2019)
  - xli) Core Team Member, CESAAM Steering Committee (2017-Present)
  - xlii) Member, Harmonization Committee on the Promotion Criteria for Academic Staff.
  - xliii) Member of the Tender Committee (Nov 2014 – March 2016)
  - xliiii) Member of the Egerton University Senate (January 2009 to Present)
  - xliv) Member of the Deans’ Committee of Egerton University (Oct 2014- Nov 2018).
  - xlv) Member of the Corruption Prevention Committee (Nov. 2014 to Nov 2018).
  - xlvi) Member, Egerton University Research Week Committee (2009-2019)
  - xlvii) Member, Egerton University Research Oversight Committee (2015-2016).
  - xlviii) Member, Board of Confucius Institute, Egerton University (2015-2018).
  - xliv) Member of the Deans’ Committee of the RUFORUM (Oct 2014-Nov.2018)
  - i) Chairman, Department of Crops, Horticulture and Soils (Jan 2009 –Oct 2014).
  - ii) Acted on several occasions as Dean, Faculty of Agriculture (2009 – 2014).
  - iii) Chair, National Organizing Committee and Member, International Organizing Committee, the First International Conference on Pesticidal Plants, *icipe*-Nairobi (Jan. 21-24 2013).
  - liii) Senate Representative to the Board of Undergraduate Studies and Field Attachment Programme (BUGS/FAP), Egerton University (Jul 2010-June 2012).
  - liv) Member, Committee-Review Draft Consultancy, Research, Extension & Outreach Policies (2013).

- lv) Served as Member and Chairperson of various Tender Evaluation Committees (2010-2021).
- lvi) Member, Senate Investigation Sub-Committee on irregularities affecting 2013/2014 Session 1 University examinations (Dec 2013-Jun 2014).
- lvii) Member, LOC-36<sup>th</sup> Water, Engineering and Development Centre (WEDC) Intern. Conf. “Sanitation and Water: Learning from shared experiences to meet our current and future challenges”, Jul 1-5, 2013.
- lviii) Member, Egerton University Change Management Audit Team (Aug. 2012-2015).
- lix) Member, Committee for drafting PhD Programme in Dryland Agriculture (2012).
- lx) Member and Secretary to the Egerton University E-Learning Committee (2010-2013).
- lxi) Member, Egerton University Enterprise and Investment Committee (Feb.2010-2013).
- lxii) Member, Faculty Organic Agriculture Committee (Feb 2010-2013).
- lxiii) Member, CHS Committee on Research Linkages & Curriculum Development (2007- 2009)
- lxiv) Acted as Departmental Examination and Curriculum Officer (Oct. 2008-Dec.2008).
- lxv) Member, Faculty of Agriculture Staff Welfare Committee (2003-2005).
- lxvi) Member, Ad-hoc Research Committee to prepare a report for the University Council on externally funded research funds by individuals or groups of lecturers (April-May 2005).
- lxvii) Member, Staff Capacity Enhancement Committee (main task: prepare a fundraising proposal on staff capacity enhancement in the University) (Aug 2005-2006).
- lxviii) Member, FOA Research Team on Conservation Agriculture (Oct 2005-Sept. 2006).
- lxix) Reviewer for the Egerton Journal (2009-Present), African J. Biotechnology, Crop Protection, Food Science and Technology, Industrial Crops & Products and Pest Management Science among other international journals.

**c) Research & Outreach Leadership: Scholarly Publications, M & E and Project /Consultancy Reports**

**Publications in Refereed Scientific Journals (2001-2026):**

1. Alworah G.O., Gichuru E.K., **Ogendo J.O.** and Okumu O.O. (2026) An Overview of Biopesticides Use and Analysis of the Kenyan Legal Frameworks Regulating Biocontrol Agents: A Review. *Frontiers in Sustainable Food Systems* 10:1734372. doi: 10.3389/fsufs.2026.1734372. Published March 2026.
2. Sebastian Kilmer, Belindah Omurwa, Joseph J. Mafurah, Anne Osano and Joshua Ogendo (2025) Diversity of Ethiopian Kale (*Brassica carinata*) Endophytes and their Antagonism against *Colletotrichum higginsianum* in vitro. *Annals of Applied Microbiology & Biotechnology Journal* 6: 7. <https://www.jsmcentral.org/assets/articles/apmbj-v7-1020.pdf>
3. Sibuti Mwita Samwel, Kimurto Paul Kiprotich and **Ogendo Joshua Ondura** (2025) Economic Benefit Analysis of IR Maize Technology over Local Landraces in Maize Production in Western Kenya. *Advances in Applied Physiology*, 10(1): 8-14. <https://doi.org/10.11648/j.aap.20251001.12>
4. TyNiah Dates, Loretta Harrison, Oscar Omondi Donde, Cersey Ochieng Onyango, Anne Osano and **Joshua Ogendo** (2025) Probiotic properties of *Lactobacillus* spp. from Lake Victoria as potential feed supplement in aquaponic production system. *The Microbe* 7 (2025) 100380. <https://doi.org/10.1016/j.microb.2025.100380>
5. Pezzino Q., Otieno K., Cheruiyot E.K., **Ogendo J.O.** and Osano A. (2025) Sorghum and lentil-enriched wheat bread for enhancing nutrition and agricultural resilience in Kenya. *African J Food Science* 19(9): 152-161.DOI: 10.5897/AJFS2024.2326. <https://doi.org/10.5897/AJFS2024.2326>
6. Otachi, E., Osano, A. and **Ogendo, J.** (2024). Gut analysis of the freshwater shrimp *Caridina nilotica* (“Ochong’a”) for its conservation in the face of its extensive utilization in aquaculture and climate change in Lake Victoria, Kenya. *Sustainable Aquatic Research*, 3(3), 151-160. <https://saquares.com/index.php/sar/article/view/73/57> Published 27.12.2024.

7. Jzar Jasira, Simiyu Mary, Mafurah Joseph, **Ogendo Joshua** and Anne Osano (2024) Characterization of Endophyte Microbiome Diversity in Chia Plant (*Salvia hispanica* L.). *Annals of Applied Microbiology & Biotechnology Journal* 5:5. <https://dx.doi.org/10.36876/apmbj863143>. ISSN: 2576-5426.
8. Karimi J.M., Nyaanga J.G., Mulwa R.M.S., **Ogendo J.O.**, Bett P.K., Cheruiyot E.K., Arnold S.E.J., Belmain S.R. and Stevenson P.C. (2024) Lablab (*Lablab purpureus* L.) genotypes and field margin vegetation influence bean aphids and their natural enemies. *Frontiers in Insect Science* 4:1328235. <https://doi.org/10.3389/finsc.2024.1328235> Published 28.06.2024.
9. Obanyi J.N., **Ogendo J.O.**, Mulwa R.M.S., Nyaanga J.G., Cheruiyot E., Bett P., Belmain S.R., Nash-Wooley V.C., Arnold S. and Stevenson P.C. (2023) Flowering margins support natural enemies between cropping seasons. *Frontiers in Agronomy, section Pest Management* Volume 6: 1277062. | [doi: 10.3389/fagro.2024.1277062](https://doi.org/10.3389/fagro.2024.1277062) [Accepted 02.01.2024; Published 22.01.2024].
10. Ouma L., Cheruiyot E. and **Ogendo J.** (2023) Hydrocyanic acid potential in sorghums reduce with maturity and increase with temperature. *Agronomy Journal*, 116(1): 180-188. January/February 2024. <https://doi.org/10.1002/agj2.21491>. Published 09.10.2023.
11. Alworah G.O., **Ogendo J.O.**, Mafurah J.M., Gichuru E.K., Miano D.W. and Okumu O.O. (2023) A Method for Selection of Coffee Varieties Resistant to *Fusarium stilboides*. *Agronomy* 2023, 13: 2321; <https://doi.org/10.3390/agronomy13092321>. Published 5.9.2023
12. Ouma L.A., Cheruiyot E.K. and **Ogendo J.O.** (2023) Biosynthesis and Role of Dhurrin in Forage Sorghum: A Review. *Reviews in Agricultural Science*, 11: 259-270. [https://doi.org/10.7831/ras.11.0\\_259](https://doi.org/10.7831/ras.11.0_259). Accepted 19.8.2023; Published 15.10.2023.
13. Ouma, L.A., Cheruiyot, E.K. and **Ogendo, J.O.** (2023) Growing Temperature Influence Lignocellulose in Sorghum and Could Lead to a Significant Variation in Feed Value of Fodder Sorghum Genotypes. *Journal of Agricultural Science*, 15(8); 2023. <https://ccsenet.org/journal/index.php/jas/article/view/0/48988>. June 2023.
14. Obanyi, J., **Ogendo, J.**, Mulwa, R., Nyaanga, J., Cheruiyot, E., Bett, P., Belmain, S., Arnold, S., Nash-Woolley, V. and Stevenson, P. (2023) Field margins and cropping system influence diversity and abundance of aphid natural enemies in Lablab purpureus. *J. Applied Entomology*, 147: 439-451. <https://doi.org/10.1111/jen.13125>. Published April 2023.
15. Ochieng L.O., **Ogendo J.O.**, Bett P.K., Nyaanga J.G., Cheruiyot E.K., Mulwa R.M.S., Arnold S.E.J., Belmain S.R. and Stevenson P.C. (2022). Field margins and botanical insecticides enhance *Lablab purpureus* yield by reducing aphid pests and supporting natural enemies. *J. of Applied Entomology*, 00, 1–12. <https://doi.org/10.1111/jen.13023>. Published 20.05.2022.
16. Bett P.K., **Ogendo J.O.**, Matasyoh J.C. and Kiplagat A.J. (2022) Chemical characterization Of Kenyan *Cupressus lusitanica* Mill. *Ocimum americanum* L. and *Lippia Javanica*(Burm.f.) Spreng essential oils. *African Journal of Environmental Science & Technology* 16(2): 79-90. <https://academicjournals.org/journal/AJEST/article-full-text-pdf/4AEC3CC68700> .
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2. Muthoka, S. and **Ogendo J.O. (2024)** Book Chapter: Nutraceutical value of indigenous vegetable foods in Kenya. In: Michele F., Dauro Mattia Zocchi and Charles Barstow (Eds.) *Ark of Taste of Kenya*. Vol. II (Published October 2024). <https://kenya.vicolodelpavone.it/>.
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### ***Patents and IP Protection***

#### ***Approved Provisional Patents:***

1. Otachi E.O., **Ogendo J.O.** and Osano A. (2024) Developing Iron and Manganese supplements from Nile tilapia roe. Patent Application - Utility Model number 5097 [Patent application number is **KE/P/2024/5097** dated 26/08/2024]
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### ***M & E and Consultancies***

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### ***Outreach/ Extension Publications/ Survey Reports:***

1. **J.O. Ogendo, E. Obura, C.M. Tanga, D Ndahimana and D Nakimbugwe (2020)** EASTECO) REF:CGI-1-2018-040 Project “A New Technique for Locust Mass Culture for Food and Feeds Industry in East Africa”. Final Project Report. Total Budget: US\$ 80,514.

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3. J O **Ogendo**, M W Ngigi, S T Kariuki, J J Mafurah and D O Kello (2019). National Museums of Kenya (National Products Industry Secretariat) Consultancy “Feasibility study on commercialization of aloe in the North Rift Valley Counties, Kenya”. Period: Sept 2019-March 2020.
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5. Egerton University (2018) Kenya Extension-Plus Services for Prosperity: Kenya Extension-Plus Programme. Prepared by a 12-Member Committee.
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**Theses Dissertations:**

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2. **Ogendo, J. O.** (2000) Evaluation of insecticidal and repellent properties of *Lantana camara* L. and *Tephrosia vogelii* Hook against *Sitophilus zeamais* Motschulsky in maize grain storage in Kenya. *MSc. Thesis*. University of Greenwich, UK, November 2000. 78p. [Supervisors: Prof. A.L. Deng, Dr. S.R. Belmain, Mr. David Walker]
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**Manuscripts under Peer Review:**

1. Muriuki Ruth Wangari, Oyoo Maurice Edwards, **Ogendo Joshua** and Richard Mulwa (2026) Hydrogen Cyanide Dynamics in Cassava (*Manihot esculenta* Crantz): Review of Biosynthesis, Environmental Influences, and Genetic Innovations: A Review. *Plants* (submitted 6th January 2026; Manuscript ID: plants-4111579)
2. Ouma, L.A., Cheruiyot, E.K. and **Ogendo, J.O.** (2024) Temperature Influences Hydrocyanic Acid Potential in Sorghum: Temperature Effect on Hydrocyanic Acid. Submitted to *Journal of Agronomy and Crop Science* [Manuscript ID: JAC-06-2024-0353; 16.07.2024].
3. Sahi M., Cheruiyot E., Chebet N., Osano A. and **Ogendo J.** (2024) Roots response to NaCl indicates salt-sensitivity and salt-tolerance in sorghum (*Sorghum bicolor*) genotypes. Submitted to *Journal of Integrative Plant Biology* (Manuscript ID is JIPB-2024-0086; 27.01.2024).
4. Dennis Kipngetich Korir, Natasha Goldson, Joseph Wafula Matofari, John Masani Nduko, Anne Osano and **Joshua O. Ogendo** (2024) Antifungal Efficacy of *Warburgia ugandensis* Extracts Against Aflatoxin and Fumonisin Producing Fungi. Submitted to *J.Microbiology, Biotechnology and Food Sciences* (18.04.2024).
5. Alworah G., Ogendo J., Mafurah J., Gichuru E. and Otieno O. (2022) Morphological Diversity of potential fungal biocontrol agents isolated from coffee farms in Kenya [submitted to Archives of Phytopathology and Plant Protection (Submission ID: 228519116); 22/09/2022].

**Membership to Professional Organizations:**

1. Member, Kenya National Academy of Sciences (MKNAS-251 w.e.f. 15/11/2024)
2. President, International Society of Pesticidal Plants (ISPP) (July 27, 2022 to Present).
3. Chairman, Pesticidal Plants Network, Kenya (PEPTEN) [2013-2023]
4. Member, Slow Food International
5. Member, Association for African Medicinal Plants Standards (AAMPS).
6. Member, Soil Science Society of East Africa
7. Member, Entomological Society of East Africa
8. Member, Natural Products Research Network for East and Central Africa (NAPRECA)
9. Member, Society for Economic Botany-Kenya Chapter
10. Member, Horticultural Society of Kenya
11. Member, African Crop Science Society
12. Member, International Health Patient Education and Empowerment (IHOPEE)
13. Member, Weed Science Society of Kenya (formative stage)
14. Member, Project Advisory Board, “Enhancing Trade Through Regulatory Harmonization and Biopesticide Based Residue Mitigation in the SADC Region” USDA/Standards and Trade Dev’pt Facility. [June 2021 - August 2024].
15. Appointed by EASTECO as **Member** of the Research Grant Sub-Committee of the EAC Regional Research and Development Working Group (RDWG) Executive Committee [July 27, 2022 to Present].
16. Co-Editor, *Frontiers in Agronomy* (Special Project): Invited to be Co-Editor of Special Edition/Project on “Pest Management for Smallholder Farmers -Frontiers in Agronomy”. Team: Prof. Murray Isman (Chief Editor, UBC-Canada), Co-Editors: Prof. J.O. Ogendo (Egerton Univ, Kenya), Prof. B. Mvumi (University of Zimbabwe), Prof. Philip C. Stevenson (NRI, UK), Prof. Steven R. Belmain (NRI, UK) and a few more experts to be enlisted on “Crop Disease Management Strategies”.

**Honours and Awards (Study Awards):**

1. Government of Kenya (1985-1988). BSc Agriculture, University of Nairobi (UoN).
2. Minimum Tillage Project (PI: Prof. R. W. Michieka; 1990-1992). MSc Agronomy, UoN.
3. Association of Commonwealth Universities and the University of Greenwich, UK, shared scholarship (1999-2001). MSc Grain Storage Management.
4. Egerton University (2005-2008; Tutition waiver). PhD Agronomy (Stored Product Entomology).

5. USAID-CDR Program (2005-2008) PhD Studentship nested within research project titled: “Kenyan plant constituents for biological insect control”. Total funding \$199,200.00.

**d) Postgraduate Students Supervision and Fellowships**  
**Successfully supervised**

**Doctorate:**

1. Influence of genotype and temperature variations on anti-nutritive properties of selected potential fodder sorghum in Kenya. **Ms. Lilian Atieno Ouma (PhD Agronomy, KD121/16513/18)**. Sponsored by CESAAM. Supervisors: Prof. E. Cheruiyot and Prof. J. Ogendo. Graduated on 29/11/2024.
2. The Role of Field Margin Vegetation and Natural Enemies in the Management of Bean Aphids on Dolichos Bean (*Lablab purpureus* L.). . **Ms. Janet N. Obanyi (PhD Crop Protection; KD122/22004/18)**. Sponsored by NaPROCLA Project. Supervisors: Prof. J Ogendo, Prof. R Mulwa & Dr. J G Nyaanga. Graduated on 29/11/2024.
3. Wheat (*Triticum aestivum* L.) stripe rust (*Puccinia striiformis* Westend. F. Sp. *tritici* Erikc) race analysis and mapping of resistant genes in Kenya. **Ms Mercy N. Wamalwa (PhD Plant Breeding; KD12/0430/14)**. Graduated 29/7/2022.
4. Evaluation of cassava germplasm for resistance to cassava brown streak disease and virus elimination using *in vitro* Techniques. **Ms. Emily Atieno Masinde (PhD Crop Protection; KD12/0388/13)**; sponsored by our AU Grant on Cassava LimitCBSD Project. Jan 2013-Dec 2015; I am the PI-Kenya of Cassava LimitCBSD Project. Supervisors: Prof Mulwa, Prof Ogendo and Dr Maruthi-NRI, UK). Graduated July 2020 [Degree correction: 29/7/2022].
5. Bioefficacy of essential oils of two indigenous plants against major coleopteran and lepidopteran pests of stored food grains. **Philip K. Bett (SD14/0259/09)-PhD in Crop Protection**. Jan. 2009- Dec 2015. Supervisors: Prof A Deng, Prof J Ogendo & Prof B Torto. Graduated on 4<sup>th</sup> Dec 2015.

**Masters:**

1. Effectiveness of imazapyr-resistant and selected striga-tolerant maize (*Zea mays* L.) varieties on *Striga hermonthica* control and yield of maize in western Kenya. **Mr. Samwel Sibuti Mwita (MSc Agronomy; KM121/12144/17)**; sponsored by ADB/MoHEST Programme. Supervisors: Prof. P.K. Kimurto & **Prof. J.O. Ogendo**. Graduated on 29/11/2024.
2. Effects of botanical insecticides and field margin vegetation on aphids and their natural enemies in Dolichos bean (*Lablab purpureus* L.). **Mr. Lawrence O. Ochieng, MSc Crop Protection (KM122/19003/18)**. Jan. 2019-Jul. 2022. Sponsored by NaPROCLA Project (I was the PI). Supervisors: Prof. J Ogendo and Dr. P K Bett. Successfully defended Thesis on 15.06.2022; Graduated 29/7/2022.
3. Evaluation of selected herbicides for weed control in sorghum [*Sorghum bicolor* (L) Moench]. Ms. **Emily Chepkoech (Reg. No. KM12/3711/13; MSc Crop Production)**. Sept. 2014- Present. Supervisors: Prof J O Ogendo and Dr E K Cheruiyot). To Graduated June 2021.
4. Bioefficacy of lion’s ear (*Leonotis nepetifolia* L.) and african basil (*Ocimum gratissimum* L.) extracts against spider mites on French bean. **Mr. Kennedy Obuya Ogayo (Reg. No. KM14/3278/12; M. Sc Horticulture)** RUFORUM sponsored (I was the PI for the project) (Supervisors: Prof Ogwenyo and Dr Nyaanga; Prof Ogendo). Graduated June 2019.
5. Efficacy of selected plant extracts for management of anthracnose in French bean. **Mr. Sylvans Ochieng Ochola (Reg. No. KM12/3364/12; M.Sc. Crop Protection)** RUFORUM SPONSORED. (PI-Prof Ogendo). Supervisors: Prof Wagara, Prof Ogendo. Graduated: 04/12/2015.
6. Effects of solar heat treatment on mycotoxin causing pathogens in stored sorghum *Sorghum bicolor* (L.) Moench grains. **Mr. Alex Machio Kange (Reg. KM12/3294/12; MSc Crop Protection)**. Jan 2013- Dec 2015. Partially supported by KAPAP Sorghum Value Chain Project. Supervisors: Prof J O Ogendo, Prof P F Arama and Dr E K Cheruiyot. Graduated 4<sup>th</sup> Dec 2015.
7. Biological activity of *Tephrosia vogelii* Hook. AND *Lantana camara* L. aqueous crude extracts against golden flea beetle (*Aphthona whitfieldi* Bryant) in *Jatropha* (*Jatropha curcas* L) **Joseph Mukui Igogo (KM12/2224/08)**. MSc Agronomy (Crop Protection Option). Graduated 26/07/2013.

8. Assessment of agro-silvicultural systems for improved food production in peri-urban Nakuru, Kenya” **Samuel Okoth Ondeng (NM11/2255/08), 2009- 2013.** MSc NRM. Graduated 26/07/2013.
9. Bioactivity of aqueous crude extracts of *Tephrosia vogelii* Hook against *Helicoverpa armigera* (Lepidoptera: Noctuidae) in chickpea”. **Loice Mwendu Wambua (KM12/1756/06).** MSc Agronomy (Crop Protection Option). Graduated on 21/12/2012.

**On-going Supervision:**

**Doctorate:**

1. Climate change adaptation through enhanced adoption of improved dry land water harvesting and crop technologies in central Rift of Kenya. **Mr Justin Mabeya Machini (PhD in ARIS; ED17/0364/12).** 2013-Present. Supervisors: Dr M. Udoto and Prof J O Ogendo.
2. Characterization of *Fusarium stilboides* of coffee and bioprospecting its potential fungal biological control agents. **Ms. Getrude Okutoyi Alworah, PhD Crop Protection (Reg. No. KD122/15508/19).** Supervisors: Prof. J O Ogendo and Dr. J J Mafurah.
3. Development and molecular characterization of improved cassava (*Manihot esculenta* L.) varieties resistant to cassava brown streak disease (CBSD) in Kenya. **Mr. Henry Otiento Okwaro, PhD Plant Breeding (KD21/18522/17).** Sponsor: MCF/CARP+ Project; Supervisors: Prof. Mulwa, Prof Ogendo and Dr Pascal Okwiri.

**Masters:**

1. Effect of fertilizer application on cassava (*Manihot esculenta* Crantz) growth, tuber yield and cassava brown streak disease in Nakuru and Migori Counties, Kenya. **Ms. Selphine Oduor (KM121/14576/18;** MSc Agronomy). Sponsored by TAGDev Program; Supervisors: Prof. N.W. Mungai & **Prof. J.O. Ogendo.**
2. Evaluating *Physico-Chemical Properties, Safety, and Sensory Characteristics of Millet-Based INutri-Rich Instant Noodles Formulated with Desert Locust (Schistocerca gregaria)*. Ms. Bernadine Chepchirchir (Reg.No.: KM16/11845/24; MSc Food Science, Egerton Univ.). Hosted by ICIPE under the SGCI II Project.
3. Screening and assessment of the suitability of non-food crop diet(s) for mass rearing of desert locust (*Schistocerca gregaria*). Mr. Kevin Nyagwachi (Reg. No: AGN321 -2155/2024; MSc Animal Nutrition; JKUAT). Hosted by ICIPE under SGCI II Project;

**Personal Contributions to Graduate Students’ Fellowships (Human Capital Dev’pt):**

Over the past 2 decades (2004-2026) I have been involved in research projects that have successfully supported (and is currently supporting) the following 11 MSc and 5 PhD graduate students:

1. Evaluating *Physico-Chemical Properties, Safety, and Sensory Characteristics of Millet-Based INutri-Rich Instant Noodles Formulated with Desert Locust (Schistocerca gregaria)*. Ms. Bernadine Chepchirchir (Reg.No.: KM16/11845/24; MSc Food Science, Egerton University). Hosted by ICIPE under the SGCI II Project.
2. Screening and assessment of the suitability of non-food crop diet(s) for mass rearing of desert locust (*Schistocerca gregaria*). Mr. Kevin Nyagwachi (Reg. No: AGN321 -2155/2024; MSc Animal Nutrition; JKUAT). Hosted by ICIPE under SGCI II Project
3. Molecular characterization of natural enemies and their effectiveness in the management of bean aphids on *Dolichos lablab*. Ms. Janet N. Obanyi **PhD Crop Protection (KD122/22004/18).** Sponsored by NaPROCLA Project. Supervisors: Prof. J Ogendo, Prof. R Mulwa & Dr. J Nyaanga. Jan 2019-Present.
4. Effect of cropping system and field margin vegetation on population of aphids and their natural enemies in Lablab beans in Nakuru County, Kenya. Ms. Christine Nkuene Mwani, **MSc Crop Protection (KM122/19004/18).** Sponsored by NaPROCLA Project. Supervisors: Dr. J G Nyaanga and Prof. E.K. Cheruiyot. Co-PI: Prof. J Ogendo. Jan 2019-Present. Graduated on 29/7/2022.
5. Effects of botanical insecticides and field margin vegetation on aphids and their natural enemies in *Dolichos bean (Lablab purpureus* L.). Mr. Lawrence Ochieng, **MSc Crop Protection (KM122/19003/18).** NaPROCLA Project. Supervisors: Prof. J Ogendo & Dr P K Bett. Graduated 29/7/2022.
6. Effect of *Dolichos (Lablab purpureus* L.) genotypes and field margin vegetation on bean aphids and their natural enemies. Mr. Joseph M. Karimi, **MSc Crop Protection (KM122/19005/18).** Sponsored by NaPROCLA Project. Supervisors: Prof. R M Mulwa and Dr J G Nyaanga. Jan 2019-Present.

7. Development and molecular characterization of improved cassava (*Manihot esculenta* L.) varieties resistant to cassava brown streak disease (CBSD) in Kenya. **Mr. Henry Otiento Okwaro, PhD Plant Breeding (KD21/18522/17)** Sponsored by the MCF/CARP+ Project; Sept. 2018-Aug 2021; Supervisors: Prof. Mulwa, Prof Ogendo & Dr Pascal Okwiri. 2018-Present.
8. Evaluation of cassava germplasm for resistance to cassava brown streak disease and virus elimination using *in vitro* Techniques. **Ms. Emily Atieno Masinde (PhD Crop Protection; KD12/0388/13)**; sponsored by our AU Grant-Cassava LimitCBSD Project. Jan 2013-Dec 2015; Cassava LimitCBSD Project. Supervisors: Prof Mulwa, Prof Ogendo and Dr Maruthi-NRI, UK). Graduated July 2020.
9. Blackberry germplasm collection, characterisation and breeding for commercial production in Kenya. RUFORUM GRANT. 2014-2016. Donor: RUFORUM: Funding: **US\$ 65,000.00**. MSc Plant Breeding Jared Ochieng (KM21/14165/15). Graduated 7/12/2018.
10. Bioefficacy of essential oils of two indigenous plants against major coleopteran and lepidopteran pests of stored food grains (NCST/5/003/3<sup>RD</sup> CALL PhD/138). PhD Student-Mr. P.K. Bett (**SD14/0259/09**)-**PhD in Crop Protection**; Supervisors: Prof Deng, **Prof. Ogendo**. 2011-2013. Donor: NCST. Funding: KES 600,000.00. Graduated on 4<sup>th</sup> Dec 2015.
11. Bioactivity of aqueous crude extracts of *T. vogelii* Hook against *H. armigera* (Lepidoptera: Noctuidae) in chickpea. **Loice Mwende Wambua (KM12/1756/06)**. MSc Agronomy (Crop Protection Option). Graduated on 21/12/2012. Supervisors: Prof Deng, **Prof. Ogendo**. 2010-2011. Donor: NCST. Funding: KES 200,000.00. Graduated on 21/12/2012.
12. Ethnobotanical products for insect pest management in subsistence agriculture in the LVB region. [PI: Prof. A.L. Deng (KE), Collaborators: Prof. **J.O. Ogendo** (KE); Dr. M. Kamatenesi-Mugisha (UG) and Mr. M.J. Mihale (TZ)]. 2006-2012. Donor: VicRes. Funding (Egerton): US\$ 54,000/3 yrs inclusive of \$4000 for PhD student-Mr. P.K. Bett (**SD14/0259/09**). Graduated on 4<sup>th</sup> Dec 2015.
13. Effects of solar heat treatment on mycotoxin causing pathogens in stored sorghum *Sorghum bicolor* (L.) Moench grains. **Mr. Alex Machio Kange (Reg. KM12/3294/12; MSc Crop Protection)**. Jan 2013- Dec 2015. Partially supported by KAPAP Sorghum Value Chain Project. Supervisors: Prof J O Ogendo, Prof P F Arama and Prof. E K Cheruiyot. Graduated 4<sup>th</sup> Dec 2015.
14. Efficacy of selected plant extracts for management of anthracnose in French bean. **Mr. Sylvans Ochieng Ochola (Reg. No. KM12/3364/12; M.Sc. Crop Protection)** RUFORUM SPONSORED. (PI-Prof Ogendo). Supervisors: Prof Wagara, Prof Ogendo. Graduated on 4<sup>th</sup> Dec. 2015.
15. Efficacy of lion's ear (*Leonotis nepetifolia* L.) and african basil (*Ocimum gratissimum* L.) extracts against spider mites on French bean. **Mr. Kennedy Obuya Ogayo (Reg. No. KM14/3278/12; M. Sc Horticulture)** RUFORUM sponsored (PI-Prof Ogendo) (Supervisors: Prof Ogweno and Dr Nyaanga; Prof Ogendo). Graduated June 2019.
16. Insecticidal and repellent effects of some plant powders and essential oils against the larger grain borer, *Prostephanus truncatus* (HORN) (Coleoptera: Bostrichidae) in stored maize, *Zea mays* L. **Ms. Fridah Chebet**. Supported by AICAD. Supervisors: Prof A Deng and Dr. A W Kamau. Graduated 2012.
17. Kenyan Plant Constituents for Biological Insect Control. **Co-PI (Kenya): Prof. J.O. Ogendo**; and **PI (Israel): Prof. Ephraim Lewinson**. 2004-2008. Donor: USAID-CDR Program. Funding (K): US\$199,200.00. This project financed my PhD thesis research titled "Composition and bioactivity of essential oils of *Lantana camara* L., *Tephrosia vogelii* Hook and *Ocimum americanum* L. against major coleopteran pests of stored food grains. *PhD Thesis*, Egerton Univ.Supervisors: Prof. A.L. Deng; Prof. A.W. Kamau. Graduated December 2008.

#### Key Outreach and Community Service

**April 2025-Present:** Member of the Kibabii University-Eastern Agrica Grain Council Planning Committee of the North Rift and Western Region Agribusiness Expo themed "Climate Smart Technologies and Practices for Sustainable Food Systems". 1<sup>st</sup> Expo held on 27<sup>th</sup> November 2025.

**2025-2026:** Member of International Organizing Committee, the 4<sup>th</sup> International Conference on Pesticidal Plants (ICPP4), September 14-17, 2026, University of Novi Sad, Serbia. Co-organized by ISPP and Faculty of Agriculture, University of Novi Sad, Serbia.

**June 2023-Present:** Serving as Patron of Choir, St. Francis of Assisi Catholic Church, Baraka, St. Augustine Catholic Church, Kiamuniy Parish, Catholic Diocese of Nakuru.

- 2019-June 2023:** Served as the Vice Chairperson of St. Joseph SCC of St. Augustine Catholic Church, Kiamuniy Parish, Catholic Diocese of Nakuru.
- 2020-2026:** Member of International Health Patient Education and Empowerment (IHOPEE). Has been a Volunteer and philanthropist in providing outstanding IHOPEE services (response to COVID 19 pandemic and supporting water and sanitation in schools, health and church facilities across Kenya).
- March 2009-2010:** As the Patron and Resource Mobilizer, Cuth Ber Dispensary in Rachuonyo North Sub-County, Homa Bay County I secured Secured US\$79,468 grant from Embassy of Japan, Nairobi, under the Grant Assistance for Grassroots Projects (GGP) Program for the construction of Maternity & VCT blocks and an underground (50 M<sup>3</sup>) water tank and installation of electricity vide Karachuonyo CDF-Rural Electrification Authority cost sharing.
- Apr.2016-Present:** Patron and Mobilizer of resources for construction of St. Francis Akwakra Catholic Church in Rachuonyo North Sub-County, Homa Bay County.
- Sept.2004-Present:** Appointed by the Minister for Education and serving as Member of the Board of Governors / Management of Akwakra Sec. School in Rachuonyo North Sub-County, Homa Bay County. Has been Chair, BOG/BOM (2009 to present).
- 2016-2022:** Appointed by the Minister for Education and served as Member of the Board of Management of St. Ignatius Loyola Mawego Girls Sec. School, in Rachuonyo North Sub-County, Homa Bay County.
- 2007-2019:** Served as Patron, Akwakra Primary School in Rachuonyo North District (school emerged top in 2012 KCPE among the public and 5<sup>th</sup> overall in district and has remained in top 5 position since).

**Language proficiencies:**

Self-assessment	Understanding		Speaking		Writing
	Listening	Reading	Spoken interaction	Spoken production	
<b>English</b>	Proficient user	Proficient user	Proficient user	Proficient user	Proficient user
<b>Kiswahili</b>	Average user	Average user	Good user	Average user	Average user

**Referees**

1. Prof. Patience M. Mshenga, PhD,  
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2. Prof. George Owuor, PhD  
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3. Prof. Samuel M. Mwonga, PhD  
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Date 23<sup>rd</sup> March 2026

Signature