


Academic Staff Profile

Personal Profile

Personal Details

<p>Name: Stanley K. Kimaru Title/Qualification: Dr Department: Plant Sciences Designation/Position: Lecturer Email: kimaru.stanley@ku.ac.ke/ skimaru1@gmail.com Contact Address: P. O Box 43844-00100, Nairobi Physical address: 639-00206 Kiserian Area of Specialization: Plant Pathology Phytopsanitary</p> <p>Research Interests: -Post-harvest diseases in avocado Google Scholar: ORCID ID: 0000-0002-4915-4890</p>	
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Academic Background

- August 2014: Dec 2018** **PhD in Plant Pathology, Department of Plant Sciences, Kenyatta University**
Thesis: Characterization of *colletotrichum gloeosporioides* (penz.) penz. & sacc. and effective management of anthracnose disease of avocado in Murang'a county, Kenya
- Sept. 2006 – June 2008:** **Post Graduate course in Plant Biotechnology and Biosafety, Gent University, Belgium.**
Research project: "Transformation and Biosafety implication of transgenic banana resistant to *Mycosphaerella fijiensis*".
- Nov. 1995 - Mar. 1998: Master of Science (Msc) in Plant Pathology, Kenyatta University**
Thesis: "Efficacy of neem kernel cake powder against fusarium wilts of tomato"
- Dec. 1990 - Mar. 1995: Bachelor of Science (Bsc) in Botany Major, Kenyatta University 2nd Class Hon. Upper Division (Botany major and Zoology minor).**

Professional Qualifications

- March 2019:** Certificate on avocado fruit quality, COLEACP, "Fit for Market programme"

March 2018: Certificate in results based planning and proposal writing workshop. Tangaza University College

Dec 2017: Certificate in chemical pest control (intermediate level), COLEACP, Belgium

October 2017: Certificate in leadership coaching skills, Tangaza University College

June 2017: Certificate in leadership coaching skills, Tangaza University College

Feb 2017: Certificate in DNA barcoding, at KEPHIS Muguga, facilitated by ILRI

October 2016: Certificate in R statistics, Experimental Plant Sciences, Wageningen University, Netherlands

October 2016: Certificate in Bayesian statistics, Experimental Plant Sciences, Wageningen University, Netherlands

2016: Certificate in SPSS application software, Kenyatta University

Dec. 2014: Certificate in Ethical Production (Intermediate level), COLEACP PIP

August 2012: A certificate in EIA (Environmental Impact Assessment) at Jomo Kenyatta University Campus, Mombasa

September 2011: Certificate of competence Anti-Counterfeiting & Illegal Pesticide Training course by CropLife East & Southern Africa at Mombasa Beach Hotel, Mombasa

September 2010: certificate in lead auditor for Quality Management System, SGS Kenya

July 2010: Certificate in Internal auditor for QMS course at SGS Kenya

June 2010: Certificate in Effective procedure writing for Quality Management System, ISO 9001:2008, at SGS Kenya

June 2010: Certificate in ISO 9001:2008 general awareness training SGS Kenya

2008: A certificate in Biosafety (Contained and Confined field experimentations)

11 - 15 May 2009: Phytosanitary Issues for Administrators from Developing Countries at Brussels, BELGIUM

2007: Certificate of attendance strategic and leadership skill by Strathmore University.

2004: A certificate in Molecular techniques offered by Kenyatta University in corroboration with University of Wyoming.

August 2003 - December 2004: Post Graduate Diploma in Education offered by School of Education and Human Resources Development, Kenyatta University.

July - Nov. 1996: Certificate in computer software (Introduction to computers, Word perfect, Windows 3.1 and Ms - Word, Ms-Excel) Training organized by GTZ-IPM, Horticulture, Nairobi

Employment History

2018-Date: Plant Pathology and Phytosanitary expert with COLEACP, Rue Du Throne 130 1050, Bruxelles, Belgium under Fit For Market (FFM) Programme.

August 2014- Date: Lecturer Kenyatta University, Department of Plant Sciences

Courses: Pesticides, Phytopathogens, Diagnosis of plant diseases, Mycology, Advanced Mycology, Principles of Plant Pathology and Advanced Principles of Plant Pathology

Supervision: Project and thesis supervision for undergraduate and post-graduate students.

August 2005- Aug 2014: Part time lecturer in the Department of Natural Sciences at CTIE, Tangaza

Jan 2011- Sept 2013: Regional Manager, Pest Control Products Board, Coast Regional office, Mombasa

- ❖ To oversee/ensure all operations of the PCPB at Coast Regional Office are in line with the PCP act, other legal requirements and Multinational treaty and guidelines

Dec 2009 – August 2014: Assistant Manager, Compliance, Pest Control Product Board.

- ❖ Development of technical training and disposal guidelines and standards
- ❖ Dissemination of information on pesticides to stakeholders and general public through training and awareness creation.
- ❖ Conduct inspection for compliance and licensing to pesticides handler from manufacturers, through distributors/outlets to commercial users who store pesticide for use
- ❖ Supervise and monitor safe disposal of pesticides wastes and empty containers
- ❖ Address non-compliance issues as result of use pesticides both locally and internationally (eg recommendation by Food and Veterinary Office, auditor)
- ❖ Supervise biological efficacy trials for pesticide
- ❖ Prepare and implement regional programs, budgets and work plans annually.
- ❖ Undertake ISO audit for quality management systems
- ❖ Managerial and leadership services

Jan. 2006- Dec 2009: Plant Health Inspector, Kenya Plant Health Inspectorate Services (KEPHIS)-KENYA

Responsibilities

- Inspection of locally produced biological control agents and facilitating the safe introduction of biological control agents and genetically modified organisms (GMOs)

- Phytosanitary inspection of export produce during active growth (farm inspections) to ensure they are free from pest of quarantine importance
- Inspection for quality and phytosanitary compliance of fresh produce and issuance of phytosanitary.
- Offer advices to farmers on Good Agricultural Practices.
- Organizes and participates in exhibitions, training and farmers field days
- Report writing (inspection, monthly, Quarterly and annual reports)
- Implementation of the project for the stablishment of COPE at KEPHIS
- Issuance of plant import permits
- Addressing non-compliances issues due to presence of harmful organisms in the plant and plant produce in the export market.

Aug.2003 - 2005: Part- time Lecturer in Department of Biology at Tangaza College, a Campus of St. Mary University of Minnessota, USA

1999-2005: Dean of Studies and Head of Science Department at Kiserian Seminary. Subject teacher of Biology and Mathematics

Publications

S. K. Kimaru, E. Monda, R. C. Cheruiyot, J. Mbaka, and A. Alakonya (2018). First report on *Colletotrichum boninense* and *Pestalotiopsis microspora* infecting avocado in Kenya. 2nd Phytosanitary Confrence, Book of abstract, page 56

Kimaru S. K. (2018): Characterization of *colletotrichum gloeosporioides* (penz.) penz. & sacc. and effective management of anthracnose disease of avocado in murang'a county, kenya, PhD Thesis Kenyatta University.

S. K. Kimaru, E. Monda, R. C. Cheruiyot, J. Mbaka, and A. Alakonya (2018). "Morphological and Molecular Identification of the Causal Agent of Anthracnose Disease of Avocado in Kenya," *International Journal of Microbiology*, vol. 2018, Article ID 4568520, 10 pages. <https://doi.org/10.1155/2018/4568520>.

S. K. Kimaru, E. Monda, R. C. Cheruiyot, J. Mbaka, and A. Alakonya (2018). "Sensitivity of *Colletotrichum gloeosporioides* Isolates from Diseased Avocado Fruits to Selected Fungicides in Kenya," *Advances in Agriculture*, vol. 2018, Article ID 3567161, 6 pages. <https://doi.org/10.1155/2018/3567161>.

Kimaru s. k, (1999). Efficacy of Neem Kernel Cake Powder against fusarium wilt of tomato in Kenya" M.sc Thesis, Kenyatta University.

S. K. Kimaru; S. W. Waudu; E. Monda and J. K. Birgen (2004): Effect of Neem Kernel Cake Powder (NKCP) on Fusarium wilt of Tomato when used as Soil Amendment. *Journal of Agriculture and Rural Development in the Tropics and Subtropics* vol. 105, No. 1, pp. 63-69.

Publications Under review

- i. Effects of anthracnose disease on avocado production in Kenya, *Advances in Agriculture*, (Hindawi Journal)
- ii. Current avocado production practices in Kenya, *Advances in Agriculture* (Hindawi Journal)

Conference/Workshops/Seminar Papers

- i. Avocado production in Kenya and effect of anthracnose disease caused by *Colletotrichum gloeosporioides*.- School of Experimental Science, Wageningen University, 26th October 2016, Netherlands.
- ii. Morphological and molecular identification of the causal agent of anthracnose disease of avocado in Kenya- 1st All Africa post-harvest congress & Exhibition 28-31st March 2017, Safari Park Hotel, Kenya
- iii. Characterisation of *Colletotrichum gloeosporioides* and management of anthracnose of avocado in Murang'a county- Department of Plant Sciences, 20th Sep 2017, Kenyatta University, Kenya
- iv. Sensitivity of *Colletotrichum gloeosporioides* isolates from diseased avocado fruits to selected fungicides.- HAK Conference, Pwani University 12-16th February 2018, Kenya
- v. First report of *Colletotrichum boninense* and *Pestalotiopsis microspora* infecting avocado fruits in Kenya.- 2nd Phytosanitary conference, KEPHIS 4th-8th June 2018.
- vi. Characterisation of *Colletotrichum gloeosporioides* and management of anthracnose of avocado in Murang'a county- Graduate school, December 2018, Kenyatta University, Kenya
- vii. First report of *Colletotrichum boninense* and *Pestalotiopsis microspora* infecting avocado fruits in Kenya, Medellin September 2019, World Avocado Congress, Colombia

Student Co-authored Publications

1. Muchemi, PK., Kamau, J.W., Shem. B. N, Mathew P. N, **Kimaru, S.K.** Mwangi, JW, Joyce. W, Florence. M. **2019.** Genetic Response of Selected Maize Germplam Screening for MLND Resistance in Kenya. Kenyatta University Biennial Research & Innovation Conference
2. Muchemi, PK, Kamau, J.W., Shem. B. N, Mathew P. N, **Kimaru, S.K.**, Mwangi, JW., Waithira, J., Munguti, F. **2019.** The relationship between level of education, Farmers varietal prevalence, control and distribution of Maize Lethal Necrosis in Bomet County. Kenyatta University Biennial Research & Innovation Conference
3. Muchemi, PK., Kamau, JW., Shem, BN., Omwoyo, RO., **Kimaru, S.K.**, Mathew, PN. **2019.** The use of low Tissue Culture Technology towards food sustainability in Kenya. Kenyatta University Biennial Research & Innovation Conference
4. Muchemi, PK., **Kamau, JW.**, Mathew, P.N., Shem, B.N. and Mwangi, JW., **Kimaru, S. K.** **2018.** The currents status of Maize Lethal Necrosis Disease in Nyandarua County, Kenya, Horticultural Association of Kenya
5. Muchemi PK, Kamau, JW., Shem, B.N., Mathew. PN. Omwoyo, RO., **Kimaru, S. K.**, **2018.** The use of low Tissue Culture Technology towards food sustainability in Kenya. RUFORUM Biennial

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Research

- i. Characterization of *Colletotrichum gloeosporioides* (penz.) penz. & sacc. and effective management of anthracnose disease of avocado in Murang'a county, Kenya
- ii. Transformation and Biosafety implication of transgenic banana resistant to *Mycosphaerella fijiensis*
- iii. Efficacy of neem kernel cake powder against *Fusarium* wilts of tomato

Funded Projects

1996: Awarded a 2 - year Kenyatta University scholarship to pursue a Master degree in Botany (Plant Pathology) at Kenyatta University.

1997: Awarded a GTZ - IPM, Horticulture Research Grant to undertake a Master Research on "Efficacy of Neem Kernel Cake Powder against fusarium wilt of tomato," Research grant worthy KSH. 168,000. And an honorarium of KSH. 20,000 upon completion.

2007- 2008: Awarded a grant by UNIDO to undertake a post graduate course in Biosafety in Plant Biotechnology at IPBO, Ghent University.

2016-2020: Awarded Scholarship for sand- wish PhD program at Experimental Plant Sciences, Wageningen University and Kenyatta University under NFP Program.

Conferenced/Workshops/Seminars Attended

Oct. 2019: GlobalGap tour, KARLO Headquarters NAIROBI

Sept. 2019: IX World avocado Congress (WAC) at Medellin, Colombia

March 2019: Avocado quality training, Facilitated under Coleacp "Fit For Market programme", AICAD, Jomo Kenyatta University of Agriculture and Technology

2014-2018: Post graduate seminars organized by Graduate school prior to graduation, Kenyatta University

2014-2018: Departmental seminars for both undergraduate and post graduate students organized by Department of Plant Sciences.

2016-2019: Horticultural Association of Kenya (HAK), annual conference

March 2017: Regional workshop on Synthetic Biology, Organised by NACOSTI in collaboration with Imperial College London at Laico Regency Hotel, Nairobi.

20-24 January 2014: Workshop on Plant Health and Plant Protection Products Nairobi, Kenya

25th -26th November, 2013: Regional workshop on establishment of a national response plan in Kenya to respond to unauthorized events involving Chemical, Biological, Radiological and Nuclear materials (CBRN), Nairobi

21st -25th October 2013: National banana conference \exhibition at KARI Headquarters

30th september-1st October, 2013: National Multi-Sectoral biosafety framework consultations at Nairobi safari club

13th-16th November 2012: Workshop of trade facilitation agencies and stakeholders to operationalize the trade facilitation central coordination mechanism (tf-ccm) and validation of terms of reference on institutionalizing JBC into TF-CCM at whitesands hotel Mombasa

8th-9th October 2012: Mainstreaming joint border committees in the national central coordination mechanism, at: Sarova Whitesands beach resort and SPA, Mombasa

10th October, 2012: Inspection Accreditation Awareness Seminar at Hill Park Hotel, Upperhill Nairobi

17-21 October 2011: Conference of the Parties to the Basel Convention on the Control of Transboundary Movements of Hazardous Wastes and Their Disposal, Tenth meeting Cartagena, Colombia.

28th September - 2nd October, 2009: Centre OF Phytosanitary Excellence (COPE) Standard Operating Procedure (SOP) writing Workshop AT KEPHIS Headquarters

14th-25th SEPTEMBER 2009: Training on application of Phytosanitary measures- retooling workshop held at Merica Hotel, NAKURU, KENYA

6th-10th JULY 2009: Curriculum development workshop for Centre of Phytosanitary Excellence (COPE) held at Merica Hotel, NAKURU, KENYA

Sept. 2008: Workshop On Regulations, Standards & Market Requirements For EU, KEPHIS Headquarters

Sep 2006: Participated in workshop addressing the enhancement of the production of French bean for local and export market a project funded by ASARECA.

May 2006: Rose propagators and growers workshop organized by KEPHIS

April 2006: East African Region Pest Risk Analysis of passion fruit for exportation to European countries organized by USAID.

October 2004: Participated in workshop in Laboratory Molecular Techniques at Kenyatta University sponsored by Kenya Society of Microbiology.

June 2002: Attended a workshop on AIDS awareness for secondary school in Ngong Division, Kajiado.

April 2001: Presented a paper on "Effect of Neem Kernel Cake Powder extract on fusarium wilt of tomato" to 1st Regional Microbiology. Conference organised by Kenya Society of Microbiology at Utalii Hotel, Nairobi, Kenya.

26th - 27th Jan. 1999 : Biosafety Workshop on awareness on Risk assessment and Management in Biotechnology. UNEP/GEP pilot biosafety enabling activity. Held at Nairobi Safari club, Lilian Towers.

1996-1998: Annual Post-graduate seminars held at Science Complex Board room at Kenyatta University.

Sept.-1996: Presented a project proposal at GTZ-IPM Horticulture, Entitled "Efficacy of Neem Kernel Cake Powder against fusarium wilt of tomato."

Supervision of Postgraduate Students

Masters

Nicholas Gituma Bundi (Reg. No: I56/10667/2007). Title: phenotypic and molecular identification and effective management of *helopeltis spp.* from *persea americana* in murang'a county. Department of Biochemistry, Microbiology and Biotechnology. **On- going**

Patrick Musyoka. Characterization of bean cultivars (*Phaseolus vulgaris* l.) and breed for resistant genes to anthracnose in murang'a county, kenya. Department of Plant Sciences. **On-going**

Sylvester Haya (Reg. No. I56/31193/2015). Determination of genetic diversity of *striga hermonthica* weed from busia county, kenya. Department of Plant Sciences. **On-going**

Kamau Harun Mwangi (I56/CE/25995/2011). Management of *colocasia esculenta* post-harvest decay with extracts from selected herbs and tea wood-ash in Kiambu County, Kenya. On-going

Ph. D

Hibert Rachuonyo Opinde (Reg No. 184/35911/2016). Incidence and characterization of phytopathogenic fungi associated with avocados scab fruits and management using hyacinth extracts in Murang'a county, Kenya. Department of Plant Sciences. **On-going**

Professional/ Consultancy (Editor/ Peer review in journals, Networks/ Collaborations, External Examiner, Patents)

- i. Effect of paclobutrazol on growth and delaying bolting of lettuce (*Lactuca sativa* L.) cv. Balady. [Asian Journal of Agricultural and Horticultural Research](#), Publishers SCIENCEDOMAIN *international* Ref no. Ms_AJAHR_41349.
- ii. Amelioration of Biotic Stress Induced by Onion Yellow Dwarf Potyvirus on Onion Seed Crop Using Nutrition. [Asian Research Journal of Agriculture](#) Publishers SCIENCEDOMAIN *international* -Ref no. Ms_ARJA_42182
- iii. Studies on the resistance of different legume seeds to *Callosbruchus maculatus*. [Current Journal of Applied Science and Technology](#) Publishers SCIENCEDOMAIN *international*- Ref no. Ms_CJAST_41262
- iv. A Study of Pathogenic Fungi Causing Post Harvest Losses of Pineapple Sold at Wudil and Yan Lemo Markets of Kano State. Journal of Experimental Agriculture International Publishers SCIENCEDOMAIN *international*
- v. Avocado diseases affecting quality, PAVSNNR-D-19-00165

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Community Service and Other Engagements

- i. BOM member Oloseos mixed Secondary School, Kiserian, Kajiado County
- ii. BOM member, Kagioini primary School, Murang'a County

Affiliation of Professional Bodies

Member of Horticultural Association of Kenya (HAK)

Member of Pro-Musa

Administrative Positions Held

- i. A member of Board of post graduate study, Department of Plant Science
- ii. A member of Timetabling team, Department of Plant Sciences
- iii. A member of Quality Management team, Department of Plant Sciences
- iv. A member of collaborations and linkages team, Department of Plant Sciences

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