


Academic Staff Profile

Personal Details

<p>Name: Dr. Nchore Bonuke</p> <p>Title/Qualification: PhD</p> <p>Department: Plant Sciences</p> <p>Designation/Position: Lecturer</p> <p>Email: bonuke.shem@ku.ac.ke</p> <p>Contact Address: Box 43844, Nairobi</p> <p>Area of Specialization: Plant Pathology/Plant Nematology</p> <p>Research Interests:</p> <p>- Plant disease management & Management</p> <p>Google Scholar:</p> <p>ORCID ID: https://orcid.org/0000-0002-7152-7032</p>	
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Academic & Professional Qualifications

2013 - 2016 Kenyatta University (KU), Nairobi, Kenya

Doctor of Philosophy (PhD) in Plant Pathology (Nematology)

2008 - 2012 Kenyatta University (KU), Nairobi, Kenya

Master of Science Plant Pathology (Nematology)

2002 – 2007 Kenyatta University (KU), Nairobi, Kenya

Bachelor of Education Science (Hons)

Employment History

- ☒ 2006 - 2009 Kenyatta Girls Secondary School, Thika, Kenya.
- ☒ 2009-2012 St. Appolonuhs Secondary School, Thika.
- ☒ 2013 - 2014 Part-time Lecturer, Department of Plant Sciences, Kenyatta University.
- ☒ 2014 – July 2016 Tutorial Fellow, Department of Plant Sciences, Kenyatta University.
- ☒ 2016 – Date Lecturer, Department of Plant Sciences, Kenyatta University.

Conference/Workshops/Seminar Papers

- ☒ Incidence and Prevalence of root-knot nematodes *Meloidogyne* species on selected indigenous leafy vegetables in Kisii and Trans-Mara counties of Kenya at the 12th biennial conference, KARI (published).
- ☒ Use of agro-industrial wastes and organic amendments on the management of root-knot nematodes in *Solanum nigrum* in selected parts of Kenya at the 10th ACSS Conference, Maputo, Mozambique, 10-13 October, 2011 (Published).
- ☒ Use of Farmers Practises in the Management of Root-knot Nematodes on Indigenous Vegetables in Kenya, Nov. 2010. (Abstract and Poster).

- ⊗ Response of African leafy vegetables to *Meloidogyne* spp. in Kenya (at the aGRO 2011-Inaugural Biennial Conference, College of Agriculture and Veterinary Sciences, University of Nairobi, Nairobi, The paper was submitted for Review and Publication in the Journal of Today's Biological Sciences Research & Review (JTBSRR) on May 2013 and published in Vol. 2, Issue 1, page 1-12, June 30, 2013.
- ⊗ Efficacy of Selected agro-industrial Wastes in Managing Root-knot nematodes on Black nightshade in Kenya (at the 1st PACN Congress on Agricultural Productivity and Paper submitted for publishing by ISRN on 29th April 2012, accepted on 31st July and published on October, 2012 in Agronomy).
- ⊗ Incidence, Prevalence & Management of Root-knot Nematodes (*Meloidogyne* spp.) on Selected Indigenous Leafy Vegetables in Kisii and Trans-Mara Counties, Kenya (The 25th Postgraduate Seminar at K. University)

Exhibitions

- ⊗ Nov. 2010 Pan African Agribusiness and Agro-industry Consortium (PanAAC) and Universities, Business and Research in Agribusiness and Innovation (UNIBRAIN) Fair, 26th – 27th November 2010, Hilton Hotel, Nairobi – Kenya.
- ⊗ Oct. 2015 Kenyatta University @30 “Embracing Culture in a Digital Age” Exhibition, 5th – 18th October, 2015 at Kenyatta University, Nairobi – Kenya.

Student Co-authored Publications

1. Muchemi, PK., Kamau, J.W., **Nchore, S. B**, Mathew P. N, Kimaru, S.K. Mwangi. JW, Joyce.W, Florence. M. 2019. Genetic Response of Selected Maize Germplasm Screening for MLND Resistance in Kenya. Kenyatta University Biennial research and innovation Conference, Kenyatta University, Nairobi, Kenya, 23-25 October 2019.
2. Muchemi, PK, Kamau, J.W., **Nchore, S. B**, 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 and innovation Conference, Kenyatta University, Nairobi, Kenya, 23-25 October 2019.
3. Muchemi, PK., Kamau, JW., **Nchore, S. B**, Omwoyo, RO., Kimaru, SK., Mathew, PN. 2019. The use of low Tissue Culture Technology towards food sustainability in Kenya. Kenyatta University Biennial research and innovation Conference, Kenyatta University, Nairobi, Kenya, 23-25 October 2019.
4. Muchemi, PK., Kamau, JW., Mathew, P.N., **Shem, B.N.** and Mwangi, JW., Kimaru, SK. 2018. The current 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, SK., 2018. The use of low Tissue Culture Technology towards food sustainability in Kenya. RUFORUM Biennial Conference.
6. *Peter Shango, Nchore, S.B and Mwangi M.* 2019. Assessment and Detection of Maize Chlorotic Mottle Virus Stability in Maize Seeds in Kenya, Kenyatta University Biennial research and innovation Conference, Kenyatta University, Nairobi, Kenya, 23-25 October 2019.
7. *Waswa, S.J., Waceke, J.W. and Nchore, S.B.* 2019. Occurrence and Abundance of Plant Parasitic Nematodes on Tree Tomato (*Solanum Betaceum* Cav.) in Kiambu and Embu Counties, Kenya. Kenyatta University Biennial research and innovation Conference, Kenyatta University, Nairobi, Kenya, 23-25 October 2019.

8. Nyang'au, D, Atandi, J., Cortada, L., Nchore, S., Mwangi, M. and Coyne, D. Occurrence, Abundance and Distribution of Plant Parasitic Nematodes Associated with Bananas (*Musa Spp.*) at Different Altitudes in Kenya. Kenyatta University Biennial research and innovation Conference, Kenyatta University, Nairobi, Kenya, 23-25 October 2019.

Research

2009-2012 A research project on incidence, prevalence and management of root knot nematodes (*Meloidogyne spp.*) on selected indigenous leafy vegetables in Kisii and Trans-Mara counties, Kenya.

Funded Projects

- ☒ Exploiting arbuscular mycorrhizal fungi-rhizobia-legume tripartite symbiosis to increase crop production and resilience in semi-arid tropics of Kenya. **Vice Chancellor research grant 2017**
- ☒ Management of plant parasitic nematodes associated with bananas in banana production areas, Kenya. **IITA & ICIPE Duduville Centre, Nairobi**
- ☒ Characterization and Non-Chemical Management of Root-Knot Nematodes (*Meloidogyne spp.*) on African Nightshades in Selected Parts of Kenya. **HORTINLEA - a funding initiative for global food security (Globe) of the German Federal Ministry of Education and Research and the German Federal Ministry for Economic Cooperation and Development**

Conferences/Workshops/Seminars Attended

- Jul 2008 Training course on the marking of Chemistry and Biology Examinations, Chania High School, Thika.
- Mar 2010 Training course on Plant Nematode Diagnostic; Nematode Sampling, Extraction, Application of Morphology and Taxonomy in Identification, Management of Nematodes and Biostatistics in Nematology, held at the Department of Plant and Microbial Sciences, Kenyatta University and organized by KU and KARI.
- Nov. 2010 Pan African Agribusiness and Agro-industry Consortium (PanAAC) and Universities, Business and Research in Agribusiness and Innovation (UNIBRAIN) Fair, 26th – 27th November 2010, Hilton Hotel, Nairobi – Kenya.
- Nov. 2010 12th KARI Biennial Scientific Conference 2010 from 8-12 Nov. (Presented a paper).
- Sept. 2011 aGRO 2011-Inaugural Biennial Conference from 26-28 September, 2011. (Presented a paper).
- Nov. 2011 1st PACN Congress on Agricultural Productivity, 21-23rd November, 2011 in Accra, Ghana.

- Mar. 2012 Nematology seminar at International Livestock Research Institute (ILRI) HUB on Thursday 8th March 2012 from 2.00 pm to 6.00 pm.
- Mar. 2012 Successfully facilitated a farmers and extension officers workshop and Training on Diagnosis and Management of Major Biotic Stressants of Agricultural Crops organized by The Gatsby Charitable Foundation, NIESA, RUFORUM and School of Agriculture and Enterprise Development, Kenyatta University held on 9th and 10th March 2012 at KUCC, Kenyatta University.
- Jun. 2012 PACN–INASP Workshop on Scientific Writing & Grant Application, University of Nairobi, Chiromo Campus 4-6 June 2012.
- Nov. 2012 ‘Applying Research To Regional Challenges Of Leadership and Citizenship’ During the 25th Postgraduate Seminar Held at Business and Student Services Centre, Kenyatta University From 27th – 29th November 2012.
- Jun. 2013 Program for Training of Academic Members of Staff, School of Pure and Applied Sciences, Kenyatta University Held at Student Business Centre from 10th – 13th June 2013.
- Sep. 2014 HORTINLEA Summer School, 2014, held at Kenyatta University, Nairobi, Kenya from 4th – 11th September 2014.
- Nov-Dec. 2014 Molecular diagnostics at Humboldt University of Berlin from 3rd Nov – 12th Dec. 2014.
- Aug. 2015 Soil degradation, Root health and Food security in Africa: How will future crop production systems impact Nematology and soil ecology research? Held on 3rd August, 2015 (The year of soil) at ICIPE, Nairobi, Kenya.
- Sep. 2015 HORTINLEA Summer School, 2015, held at Werbellin, Berlin, Germany from 8th – 13th September 2015.
- Sep. 2015 Tropentag 2015 conference on ‘Management of land use systems for enhanced food security, conflicts, controversies and resolutions’, 16th – 18th September, 2015 in Berlin, Germany.
- Nov. 2015 2nd International Conference on Biodiversity for Food and Nutrition, 23rd November, 2015 at Safari Park Hotel, Nairobi, Kenya.
- Oct. 2016 RUFORUM Fifth Biennial Conference 2016, Cape Town, South Africa, 17-21 October 2016.
- May 2017 Publishing-connect-ku-Elsiever Author workshop, held at BSSC Room 14, Kenyatta University, Nairobi on 19th May 2017.
- Jun. 2017 Seminar on intellectual property rights, held at Kenyatta University, Nairobi on 28th June 2017.
- Jul. 2017 Grant writing training, held at Kenyatta University, Nairobi from 26th – 27th July 2017.
- Sep. 2017 Tropentag 2017 conference “Future Agriculture: Social-ecological transitions and bio-cultural shifts”, 20th – 22nd September, 2017 in Bonn, Germany.
- Sept. 2018 Seminar on Ecology of tree endophytes, by Prof. Suryanarayanan, Kenyatta university, Nairobi from 6th -10th September 2018.
- Sept. 2018 IBP content development training, Kenyatta university, Nairobi on 10th September

2018.

- Nov. 2018 Campus-Nexus training, Kenyatta university, Nairobi on 8th November 2018.
- Nov. 2018 ENABLE Horticulture Project organized by Kenyatta university, KEFAAS, NRF and KALRO, held at Kenyatta University, Nairobi on 22nd November 2018.
- Feb. 2019 Leadership training, Kenyatta University, Nairobi on 21st February 2019 from 2-4 pm.
- Mar. 2016 Vegetable standards and audit at Real IPM Thika, Kenya from 18th – 19th March 2016.
- Mar. 2019 E-Learning training for Lecturers, Kenyatta University, Nairobi on 7th March 2019.
- Mar. 2019 Sensitization training on university website and staff profile updates, Kenyatta university, Nairobi from 4th -18th March 2019
- Mar. 2019 Campus-Nexus training, Kenyatta University, Nairobi on 19th March 2019
- Mar. 2019 Training on ‘Theory of change’ , Kenyatta university, Nairobi on 15th March 2019
- Oct. 2019 Kenyatta University Biennial research and innovation Conference “Research and Innovation for the achievement of the SDGs and Kenya’s Big Four Agenda”, Kenyatta University, Nairobi, Kenya, 23-25 October 2019.

Supervision of Postgraduate Students

Masters

- Kamau Harun Mwangi (2019- Date): Management of *Colocasia esculenta* post-harvest decay with extracts from selected herbs and tea wood-ash in Kiambu county, Kenya (Msc).
- Kamore Harrison Kibe (2018- Date): M.Sc Project-Characterization and biocontrol of pathogenic microorganisms associated with commonly grown banana cultivars in Embu, Kisii and Nyamira counties of Kenya (Msc).
- Nyairo Daniel Omwoyo (2018-Date): Efficacy of crude extracts of selected plant species in the management of *Fusarium* wilt of tomato in Kilifi County, Kenya (Msc).
- Waswa, Stanlous Juma (2018-2020): Occurrence of Plant Parasitic nematodes on Tree Tomato Plant (*Solanum betaceum* Cav.) and the Efficacy of Bio-control Agents in Kiambu and Embu Counties, Kenya (Msc).
- Nyang'au Nyagwonda Douglas (2016-2020): Occurrence, abundance and distribution of plant parasitic nematodes associated with bananas in banana production areas, Kenya (Msc).
- Chepkemboi Angeline (2017-2019): Phenotypic characterization of common bean genotypes for resistance to *Xanthomonas campestris* pv. *phaseoli* constraining bean production in Western Kenya (Msc).

- Masoka Isaac Mogaka (2016-Date): Evaluation of upland rice genotypes for resistance and tolerance against *Striga hermonthica* in Western Kenya (Msc).
- Peter Shango (2017-2020): Assessment and detection of maize chlorotic mottle virus stability in maize seeds in Kenya (Msc).

Ph. D

- Muchemi Kariuki Peterson (2015-2020): Molecular characterization of maize germplasms and screening for resistance to maize lethal necrosis disease in Nyandarua County, Kenya (PhD).
- Mavuze Maxwell Mbalanya (2018-Date): Occurrence and management of plant parasitic nematodes on sugar beets (*Beta vulgaris* L.) using compost manure in Nyandarua, Kenya (PhD).

Administrative Positions Held

October 2019:	Acting Chairman, Department of Plant Sciences
Nov 2018- Jan 2019:	Acting Chairman, Department of Plant Sciences
July 2016 – date:	Examinations coordinator, Department of Plant Sciences
July 2016- date:	Chairperson Examination moderation committee
July 2016- date:	Chairperson, marks verification committee
July 2016- date:	Committee member, staff appraisal and recruitment committee
July 2016- date:	Committee member, research and linkages committee
July 2016- date:	Committee member, Quality management and safety committee
Sept 2016- date:	Intellectual property rights Departmental representative