


CURRICULUM VITAE

1.0 Personal Details

<p>Name: DR. MATHEW PIERO NGUGI Title/Qualification: BSc, MSc, PhD Department: Biochemistry, Microbiology & Biotechnology Designation/Position: Senior Lecturer Email: piero.mathew@ku.ac.ke Contact Address: P.O Box 43844 – 00100 Nairobi Nationality: Kenyan</p> <p>Area of Specialization: -Biochemistry -Molecular Biology</p> <p>Research Interests: -Medical Biochemistry -Molecular Biology</p> <p>Google Scholar: https://scholar.google.com/citations?user=mIAOm6oAAAAJ&hl=en</p> <p>ORCID ID: https://orcid.org/0000-0002-0226-9092</p> <p>AD Scientific Index ID: 95755</p> <p>Linkedin ID: Mathew Piero</p> <p>Twitter ID: @matpiero</p> <p>Instagram ID: mathewpiero</p> <p>Web of Science Researcher ID: AAS-4334-2020</p> <p>Personal Website: https://ngugimathewpiero.com/</p> <p>Scopus Author ID: 57195771451</p>	
---	---

2.0 QUALIFICATIONS

2.1.1 *Academic Qualifications*

- 2013: PhD in Biochemistry, Kenyatta University, Kenya
- 2006: Master of Science in Biochemistry, Kenyatta University, Kenya
- 2002: Bachelor of Science in Biochemistry, Kenyatta University, Kenya

2.1.2 *Professional Courses*

- 2021: Complete a 2-day training on Course Redefining for Competency Based Learning
- 2019: Undertook training in Forensic Genetics, Knowledge Exchange at the Department of Genetics and Genome Biology, University of Leicester, UK
- 2013: Completed a 5-day training in Application of Bioscience Technologies in Sorghum Production and Value Addition at

- Kenyatta University, organized by ASARECA
- 2011: Completed a course on Basic Skills in Teaching Methodology and Course Examination at Kenyatta University, organized by Regional Centre for Capacity Development
 - 2008: Completed a Short Course on Environmental Biosafety, at Moi University, Chepkoilel Campus

3.0 EMPLOYMENT HISTORY

- **Sept, 2019 to date:** Senior Lecturer, Department of Biochemistry, Microbiology and Biotechnology, Kenyatta University
- **2014 –Aug, 2019:** Lecturer, Department of Biochemistry, Microbiology and Biotechnology, Kenyatta University
- **2010-2014:** Tutorial Fellow, Department of Biochemistry and Biotechnology, Kenyatta University
- **Jan, 2010 – Aug, 2010:** Assistant Lecturer in the Department of Pure and Applied Sciences, Technical University of Mombasa

4.0 ADMINISTRATIVE RESPONSIBILITIES

4.1 At Kenyatta University

- **October, 2020 to Present:** Appointed Chairman, Department of Biochemistry, Microbiology and Biotechnology.
- **April, 2020 to Present:** Section Head for Medical Biochemistry Section in School of Medicine
 - ✓ To Coordinate teaching and examination of Medical Biochemistry students in the Schools of Medicine and Pharmacy.
- **July, 2017:** Appointed by the Chairman, Department of Biochemistry, Microbiology and Biotechnology as a member of a committee to develop a Master of Science (Forensic) degree programme.
- **June, 2015 to January, 2019:** Appointed Examinations Coordinator, Department of Biochemistry, Microbiology and Biotechnology
- **2016 to date:** Departmental representative in the School Research Committee
- **2014 to date:** Expert Trainer of Departmental Staff on Smart Board Use in Teaching
- **March, 2014-Nov, 2016:** Chairman, Departmental Board of Postgraduate Studies (DBPS)
- **5th October, 2016:** Appointed by DVC (Research, Innovation & Outreach) to Proposal Writing Committee to prepare a fundable proposal in Agriculture and Food Security.
- **17th August, 2016:** Appointed by DVC(Academic) to the Dean, Graduate

School's **Committee on Data Analysis for Development of Guidelines on Thesis Supervision and Code of Conduct** to guide postgraduate research activities in Universities in Kenya (***Commissioned by Commission For University Education***).

- **9th July, 2015:** Appointed by the Chairman, Department of Biochemistry and Biotechnology as a Member of the Committee on Preparation for Inspection of Medical Biochemistry Programmes by the Kenya Medical Practitioners and Dentists Board (KMPDP).
- **February 2015:** Appointed by the Vice Chancellor in a committee to develop a concept note to be submitted to World Bank for financing centers of excellence in capacity development in the field of Biotechnology in East and Central Africa
- **April 2014:** Appointed by the Vice Chancellor in a committee to develop a concept note to be submitted to ASARECA entitled "Capacity Development for sustainable Plant genetic resources (PGRS) utilization and conservation in eastern and central Africa"
- **2013 to date:** Member, Departmental Strategic Plan Development Committee
- **2013 to 2019:** Departmental Co-ordinator for University Website Updates
- **2013 to date:** Chairman, Kenyatta University Biochemistry and Biotechnology Staff Welfare (KUBBSWA)

4.2 At Other Institutions

- 2016 to date:** External Examiner, Jomo Kenyatta University of Agriculture and Technology (JKUAT), Mombasa CBD Campus
- 2018 to date:** External Examiner, Technical University of Mombasa, Department of Pure and Applied Sciences
- 2016 to date:** Editorial Board Member, *Archives of Microbiology and Immunology*

5.0 POSTGRADUATE SUPERVISION

5.1 PhD SUPERVISION

5.1.1 COMPLETED

14th December, 2018

- **Nzaro Gona Makenzi (I84/21326/2010):** "In vitro Regeneration and Evaluation of Salt Stress Tolerance of Selected Kenyan Sweetpotato (*Ipomoea batatas*) Genotypes"
- **Purity Gacheri Limbua (I84/28502/2014):** "Agrobacterium tumefaciens-Mediated Introgression of IPT Gene in Selected Kenyan Ground Nut Genotypes to Enhance Drought Tolerance".

20th December, 2019

- **Wycliffe Arika Makori (I84/37010/2016):** “Antiobesity, Cognitive Enhancing, Neurobehavioral, Antioxidant Effects and Phytochemical Profile of Dichloromethane Leaf Extracts of *Gnidia glauca* (Fresen)”.

23rd July, 2021

- **Njoroge Gideon Kimani (I84/27460/2014):** “*In vivo* Hypoglycemic activity and Safety of *Tricum aestivum*, *Hordeum vulgare*, *Urtica massaica* and *Cynanchum viminalis*”.
- **Kiambi Joseph Mworio (I84/37011/2016):** “Antipyretic, Antinociceptive and Antiinflammatory Potential of Dichloromethane Leaf Extracts of *Eucalyptus globulus* and *Senna didymobotrya* in Animal Models”.

17th December, 2021

- **Wambani Japheth Rapando (P97/33760/2015):** “*In Vitro* Antibacterial, *In Vivo* Immunomodulatory and Safety Properties of Ethylacetate Leaf Extracts of *Ocimum basilicum*”.
- **Stephen Maina Gitahi (I84/33763/2015):** “Phytochemical Profiles and Bioefficacy of Organic Leaf Extracts of *Tithonia diversifolia* and *Vernonia lasiopus* against *Sitophilus zeamais*”.

5.1.2 ONGOING

- **Eliakim Mbaka (I84/29467/2014):** “Hepatoprotective, Nephroprotective and Antioxidant Activities of Selected Medicinal Plant Extracts in Mice”.
- **Njagi Martin Mugendi (I84/28651/2014):** “Antiobesity and Cardioprotective Effects of Aqueous and Hexane Extracts of *Momordica charantia* L. and *Solanum incanum* L. in Obese Mice”.
- **Kimuni Susan Nyawira (I84/31988/2015):** “Antipyretic, Antinociceptive and Antiinflammatory Properties of Methanolic Extracts of *Osyris lanceolata*, *Cissampelos parreira* and *Vernonia branchycalyx* in Rat Models”
- **Juma Kelvin Kisaka (I84/32315/2015):** “Effects of *Urtica dioica*, *Cucurbita pepo* and *Spinacea oleraceae* Extracts in Amelioration of Alcohol-Induced Toxicity in Rat Models”.
- **Osano Kenneth Onyango (I84/39115/2016):** “Biochemical Diversity, Nutritional Profiles and *In Vivo* Hepatoprotective Activities of Selected Edible *Solanum nigrum* Variants”.
- **Muchemi Kariuki Peterson (I84/33218/2015):** Molecular Characterization of Maize Germplasm and Screening for Resistance to Maize Lethal Necrosis Diseases in Kenya”.
- **Joel O. Masanga (I84/38221/2016):** “Stability and Biosafety Evaluation of Locally Developed Aflatoxin and Striga-Resistant Transgenic Maize”.

5.2 MASTERS SUPERVISION

5.2.1 COMPLETED

18th December, 2015

- **Gitahi Stephen Maina (I56/CE/24660/2012):** “Antipyretic and Antinociceptive Properties of Dichloromethane:Methanolic Leaf and Root Bark Extracts of *Carisa edulis* (Forssk.) Vahl in Rats”.
- **Njagi Jim Muriithi (I56/1014/2008):** “Determination of Hematological Effects of Methanolic Leaf Extracts of *Vernonia lasiopus* (O. Hoffman) and Seeds Extracts of *Solanum incanum* (Linnaeus) in Mice”.
- **Marigi N. Emma (I56/21971/2012):** “Transformation of selected cassava germplasm for enhanced resistant to CBSD”.
- **Mwangi Boniface Maina (I56/CE/24661/2012):** “Evaluation of Antinociceptive and Antiinflammatory Properties of Dichloromethane: Methanolic Extracts of *Caesalpinia volkensii* and *Maytenus obscura* in Rats Models”.

15th July, 2016

- **Mawia Amos Musyoki (I56/25517/2013):** “Diversity Studies and Molecular Characterization of Kenyan Rice (*Oryza sativa* L.) Varieties Based on Amylose Content and Gelatinization Temperature”.
- **Joseph Kiambi Mworira (I56/CE/24613/2012):** “Determination of antinociceptive activity of acetone leaf extracts of *Caesalpinia volkensii* and *Carissa spinarum* in mice models”.
- **Wambua Festus Kioko (I56/27393/2013):** “Diversity Studies and Molecular Characterization of Kenyan Rice (*Oryza sativa* L.) Based on Aroma and Kernel Elongation”.
- **Aliyu Umar (I56F/23555/2013):** “Evaluation of Anti-Aphids properties of Aqueous Ripen Fruit Sap Extract of *Solanum incanum*”.
- **Makori Wycliffe Arika (I56/20181/2012).** “Bioprospecting of Plants used Traditionally in the Management of Diabetes Mellitus”.

16th December, 2016

- **Jorum Humphrey Obel (I56/CTY/PT/24942/2013):** “Effects of Dichloromethane: Methanolic Leaf Extracts of *Carissa edulis* (forsk.) Vahl on Hematological and Serum Lipid Profiles in Rat Models”.
- **Anne W. Njoroge (I56/26837/2013):** “Determination of *in vitro* Anti-cholinesterase Activities of *Carphaela glaucescens* and *Gnidia glauca* in Stem Borer (*Chilo partellus*)”.
- **Wanyonyi Christine Nakhumicha (I56/20412/2012):** “Tissue Culture Responsiveness and *Agrobacterium*-Mediated Transformability of Selected Kenya Cassava Varieties”.

- **David Easter Syombua (I56/21974/2012):** “Optimization of Regeneration Protocol and Evaluation of *Agrobacterium* Infectivity of Selected Kenyan Cassava Genotypes”.
- **Ogola Philip Einstein (I56/20183/2012):** “Levels of Background Ionizing Radiations from Human Premises and Selected Quarries around Nairobi County”.
- **Onyango Kenneth Osano (I56/24933/2013):** “*In vivo* Toxicity of Dichloromethane and Methanol Leaf Extracts of *Prosopis juliflora*”.
- **Lagat Rose Chemutai (I56/28992/2013):** “Physicochemical Characterization and Selected Quality Trait-Based Genetic Diversity Studies on Selected Kenyan and Tanzanian Rice (*Oryza sativa* L.) Varieties”.
- **Njagi Shadrack Mwenda (I56/24935/2013):** “*In Vitro* Antiproliferative Activity of Aqueous Root Bark Extract of *Cassia abbreviate*”.
- **Felix Matheri (I56/26862/2013):** “Determination of Genetic Variability of *Passiflora edulis* (Sims) *f. flavicarpa* (Deg) in Mbeere South Sub-County”.
- **Mwangi Peter Nthiga (I56/27046/2014):** “Antipyretic and Antinociceptive Properties of *Harrisonia abyssinica* and *Landolphia buchananii* in Animal Models”.
- **Milcah Wagio Kigoni (I56/22433/2012):** “Evaluation of Molecular Interfaces to Identify Immune Responsive Epitopes in *Theileria parva* and the Tick Vector *Rhipicephalus appendiculatus*”.
- **Kamau Kimani James (I56/27066/2014):** “Antipyretic and Antiinflammatory Properties of Methanolic Extracts of *Kigelia africana* and *Acacia hockii* in Rat Models”.

4th August, 2017

- **Duncan Maina Kariuki (I56/CTY/PT/27310/2014):** *In Vivo* Safety of Dichloromethane: Methanolic Extracts of *Allium sativum* in Rat Models.
- **Gaichu Daniel Muthee (I56/CTY/PT/27105/2014):** “Antipyretic and Antiinflammatory Potential of Dichloromethane: Methanolic Leaf and Stem Bark Extracts of *Ximenia americana* in Laboratory Animals”.
- **Samson Koech Cheruiyot (I56/28505/2014):** “Analgesic, Antipyretic and Anti-inflammatory Potential of Dichloromethane Root Extract of *Clutia abyssinica* in Rats and Mice Models”.

15th December, 2017

- **Robert O. Odhiambo (I56/28877/2014):** Bioefficacy of Organic Blend Extracts of *Allium sativum* L. and *Ocimum basilicum* L. Against Maize Weevils (*Sitophilus zeamais*)”.

- **Ngai David Nyaga (I56/CE/28568/2013):** “Antioxidant Effects of Dichloromethane:Methanolic Extracts of *Pappea capensis* in Alloxan-induced Diabetic Rats”.
- **Stephen K. Mwihia (I56/CE/25292/2014):** “Antibacterial and Antioxidant Activities of Seed Extracts of *Annona squamosa* Collected from Kirinyaga County, Kenya”.
- **Muia Prominah Kavinya (I56/CE/20256/2012):** “Performance of Genexpert Test in Detecting Pulmonary Tuberculosis and Rifampicin Resistance in Patients Attending Kitui County Hospital, Kenya”.
- **Onyango Tonny Omondi (I56/CTY/PT/24940/2013):** “Effects of Maalaox Plus^R Antacid and Purecal^R Calcium Supplements on Liver and Kidney Functions Following Heavy Alcohol Intake in Rats”.

4th August, 2018

- **Ndile Michael Musila (I56/CE/24317/2013):** “*In Vivo* Toxicity of Methanolic Extracts of *Caesalpinia volkensii* (Harms) and *Vernonia lasiopus* (O. Hoffman) in Rat Models”.
- **Veronica A. Sindani (I56/28876/2014):** “*In Vivo* Antiinflammatory, Analgesic and Antipyretic Effects of Dichloromethane Stem Bark Extracts of *Acacia mellifera* (Vah) Benth”.
- **Kibiwott Scolar Jepkorir (I56/28828/2013):** “Antioxidant Activity of Dichloromethane and Methanol Blend Extracts of *Carissa edulis* and *Caesalpinia volkensii* in Alloxan-induced Diabetic Rats”.
- **Maoga Jane Bosibori (I56/28879/2014):** “*In Vitro* Antioxidant Effects of Dichloromethane:Methanolic Extracts of *Clutia abyssinica* and *Maytenus obscura*”.
- **Fridah Machani (I56/27937/2013):** “Genetic Variation Among *Sclerocary birrea* (Marula) Populations Using AFLP Markers”.

14th December, 2018

- **Ngari Loise Ngithi (I56/24137/2013):** “Phenotypic and Genotypic Diversity of *Catha edulis* (Vahl) Grown in Embu County, Kenya”.
- **Wilhelmy Marion Jebet (I56/CTY/PT/33457/2014):** “Bioefficacy of Organic Extracts of Fish Poison Bush (*Gnidia glauca*, Fresen) Against Cowpea Weevil (*Callosobruchus maculatus*, Fabricius)”
- **Sieberi Berick Moturi (I56/CE/26345/2014):** “*In Vitro* Antibacterial Activities of Dichloromethane:Methanol Extracts of *Fuerstia Africana*, *Polygala sphenoptera* and *Centella asiatica* against Selected Bacteria”.

26th July, 2019

- **Kenedy W. Wafula (I56/CE/24744/2011):** Antioxidant Activities of Dichloromethane Extracts of *Strychnos heningsii* and *Ficus sycomorus* in Pancreas of Alloxan-Induced Diabetic Mice.

- **Ochola Celestine Anyango (I56/28567/2013):** “Antibacterial Effects of Methanolic Leaf Extracts of *Acacia ataxacantha* and *Pilostigma thonningii*”.
- **Wambua Rachel Kitondo (I56/CE/25790/2014):** “*In Vitro* Antibacterial Activities of Dichloromethane: Methanolic Extracts of *Croton megalocarpus* Hutch, *Strychnos henningsii* Gilg and *Psorospermum febrifugum* Spach”

20th December, 2019

- **Audrey Chepkemoi (I56/27773/2014):** “Antiinflammatory, Antinociceptive and Antipyretic Activities of Acetone Stem Bark Extracts of *Pappea Capensis* in Animal Models”.
- **Kakuta George Musyoki (I56/CE/20543/2012):** “Determination of Reference Intervals for Selected Biochemical Parameters for Adolescents in Kilifi County, Kenya”.
- **Ayienda C. Kerubo (I56/CTY/PT/27774/2014):** Antimicrobial Activities of Dichloromethane:Methanolic Leaf and Stem Bark Extracts of *Psidium guajava* (Linn).
- **Ileri Moses Munene (I56/CE/26169/2014):** “Analgesic and Antiinflammatory Potential of Methanolic Extracts of *Pistacia aethiopica* and *Warbugia ugandensis* in Mice Models”.
- **Mwangi Elias Kihara (I56/CTY/PT/26870/2013):** “Effects of Selected Carrier Materials and Storage Temperatures on Survival, Viability and Efficacy of Rhizobia Biofertilizers”.

18th December, 2020

- **Gervason Apiri Moriasi (I56/CE/29078/2015):** “Cognitive Enhancing and Antioxidant Activities of Methanolic and Aqueous Extracts of *Philiostigma thonningii* (Schum.) and *Londocarpus ericalyx* (Harms.)”.
- **Awino Duncan (I56/CE/25502/2011):** “Development of Health Associated Reference Intervals for Commonly Requested Haematological Parameters in Adolescents Living in Kilifi County, Kenya”.
- **Guchu Beatrice Muthoni (I56/CE/25204/2014):** “*In Vitro* Antioxidant Activity of Methanolic Extracts of *Caesalpinia volkensii*, *Acacia hockii* and *Vernonia lasiopus*”.
- **Wanjira Michael Mumbe (I56/CE/25172/2014):** “Phenotypic and Genetic Characterization of Selected Kenyan Groundnuts (*Arachis hypogaea*. L) Varieties”.

23rd July, 2021

- **Oloo Quenter Pendo (I56/CTY/PT/28573/2013):** “Effects of Paracetamol on the Liver and Kidney Functions of Rats Following Alcohol Intake”.
- **Mwangi Jedidah Wangari (I56/37494/2016):** “Phenotypic and Genetic Characterization of Selected Kenyan *Vigna Radiata* (L.) Wilczek (Mung Bean) Genotypes”.
- **Kibet Willy Kiprotich (I56/28650/2014):** “Strigolactone Profile of Selected Legumes and their Potential for Use as Trap Crops for *Striga*”
- **Manyasa Joy Kabaka (I56/27918/2014):** “Behavioral and Molecular Responses of *Glossina Morsitans Morsitans* and *Glossina Pallidipes Tsetse* Flies to Selected Odor Cues”
- **Mwaeni Victoria Kiwasi (I56/39116/2016):** “Effects of Coadministered Coenzyme Q10 and Dimercaptosuccinic Acid on Arsenic-Induced Toxicity in a Mouse Model”

17th December, 2021

- **Hezron Mutisya Muindi (I56/CE/26162/2014):** “Relative Astringent and Hemostatic Activities of Methanolic Leaf Extracts of *Croton Megalocarpus* Hutch and *Lantana Camara* Linn”
- **Biwott Kipchumba (I56/32940/2015):** “Effects of Administered Cyanocobalamin and Ubidecarenone Against Alcohol Mediated Toxicity in a Mouse Model”
- **Kimari Moses Kariuki (I56/CTY/PT/22251/2012):** “Effects of Targeted Organ Specific Knockdown of Multi-Drug Resistance Protein-1 on Lipid, Carbohydrate Levels and Feeding Patterns of *Drosophila melanogaster*”

5.2.2 ONGOING

- **Makori P. Monari (I56/23456/2012):** “*Agrobacterium*-mediated Transformation of Tropical Maize for *Striga hermonthica* Resistance”.
- **Kerubo Cashline (I56/CE/24139/2013):** “Hepatoprotective Activities Of DCM: Methanolic Extracts of *Ximenia americana* On Carbon Tetrachloride (CCl₄) - Induced Liver Damage in Mice”.
- **Gatambia Herman (I56/28371/2014):** “*In vivo* Hepatoprotective Properties of Acetone Seed and Leaf Extracts of *Solanum incanum* in Mice”.
- **Muinde Mary Nthenya (I56/CE/28569/2013):** “Antinociceptive Activity of Methanolic Stem Bark Extract of *Acacia ataxacantha* in Mice Model”.
- **Were Yvonne Nyambura (I56/22991/2012):** “Nutritional and Phytochemical Analysis of Different Dried and Fresh African Indigenous Leafy Vegetables Grown in Nairobi, Kenya”.

- **Kariuki Ibrahim Waweru (I56/38032/2017):** “*In Vitro* Antioxidant, Antibacterial Activities and Phytochemical Profile of Aqueous Extract of *Eriobotrya japonica* Lindl”
- **Warui Lucy Waithira (I56/CTY/PT/20189/2012):** Bioefficacy of Dichloromethane-Methanolic Extracts of *Zingiber officinale* and *Capsicum frutescent* Against *Callosobruchus maculatus*”.
- **Githaiga Fiona Muthoni (I56/37506/2017):** “Reactive Oxygen Species as Targets for Management of Systemic Lupus Erythematosus in Animal Models”
- **Samoei Chemutai Judith (I56/32938/2015):** “*In Vitro* Anticandidal Activities of Essential Oils of *Ocimum gratissimum*, *Ocimum Kilimandscharicum* and *Lippia javanica*”.
- **Katoo Alexander Athanas (I56/CE/24523/2012):** “Genetic and Morphological Characterization of Pigeon Pea (*Cajanus cajan* L) Using Simple Sequence Repeat Markers”.

6.0 CONFERENCES/SEMINARS/WORKSHOPS

- Attended 4th International Annual Scientific Conference of the Society for the Advancement of Science in Africa (SASA) at Kenyatta University on 24th -26th August, 2016 and presented a paper titled “Regeneration and RNAi-mediated down-regulation of cyanoglycoside biosynthesis in Cassava (*Manihot esculenta* Crantz)”.

7.0 RESEARCH AND PUBLICATIONS

7.1 Articles in Refereed Journals

2021

- Akimat EK, Omwenga GI, Moriasi GA, and **Ngugi MP** (2021): Antioxidant, Anti-Inflammatory, Acute Oral Toxicity, and Qualitative Phytochemistry of The Aqueous Root Extract of *Launaea cornuta* (Hochst. Ex Oliv. & Hiern.), *Journal of Evidence-Based Integrative Medicine*. doi: [10.1177/2515690X2111064585](https://doi.org/10.1177/2515690X2111064585)
- Muindi H, Kibiti CM, and **Ngugi MP** (2021): Hemoglobin Precipitation: An Index of *In Vitro* Vasoconstrictive Activities of Methanol Leaf Extracts of *Croton megalocarpus* Hutch and *Lantana camara* Linn. *Evidence Based Complementary and Alternative Medicine*, <https://doi.org/10.1155/2021/3817106>.
- Masanga, J., Oduor, R., Alakonya, A., **Ngugi, M.**, Ojola, P., Bellis, E. S., & Runo, S. (2021). Comparative phylogeographic analysis of *Cuscuta campestris* and *Cuscuta reflexa* in Kenya: Implications for management of highly invasive vines. *Plants, People, Planet*, 1–14. <https://doi.org/10.1002/ppp3.10236>
- Mwangi JW, Oduor RO, Muchemi PK and **Ngugi MP** (2021): Genetic and Phenotypic Diversity of Selected Kenyan Mung Bean (*Vigna radiata* L. Wilczek) Genotypes.

- Gitahi SM, **Ngugi MP**, Mburu DN, Machocho AK (2021): Contact Toxicity Effects of Selected Organic Leaf Extracts of *Tithonia diversifolia* (Hemsl.) A. Gray and *Vernonia lasiopus* (O. Hoffman) against *Sitophilus zeamais* Motschulsky (Coleoptera: Curculionidae). *International Journal of Zoology*, vol. 2021, Article ID 8814504. <https://doi.org/10.1155/2021/8814504>
- Kimuni SN, Gitahi SM1, Njagi EM, **Ngugi MP** (2021): Antinociceptive potential of methanol leaf extracts of *Cissampelos parreira* (Linn), *Lantana camara* (Linn) and *Ocimum gratissimum* (African basil). *Journal of Advanced Biotechnology and Experimental Therapeutics*, 4(3): 349-364. <https://doi.org/10.5455/jabet.2021.d135>
- Moriasi GA, Kibiti CM, and **Ngugi MP** (2021): In vivo antidiabetic efficacy, mineral element composition, and qualitative phytochemistry of the aqueous leaf extracts of *Pentas zanzibarica* (Klotzsch.) Vatke and *Olea europaea* subspecies *africana* (Mill.) *Journal of Advanced Biotechnology and Experimental Therapeutics*, 4(3): 334-338. <https://doi.org/10.5455/jabet.2021.d134>
- Juma BS, Mweu C, **Piero M** and Mbinda W (2021): CRISPR/Cas genome editing: A frontier for transforming precision cassava breeding. *African Journal of Biotechnology*, Vol.20(6), pp. 237-250. <https://doi.org/10.5897/AJB2021.17344>
- Moriasi GA, Ileri AM, Nelson EM and **Ngugi MP** (2021): In vivo Anti-inflammatory, Anti-nociceptive, and In Vitro Antioxidant Efficacy, and Acute Oral Toxicity Effects of the Aqueous and Methanolic Stem Bark Extracts of *Lonchocarpus eriocalyx* (Harms.). *Heliyon*, 7(5). <https://doi.org/10.1016/j.heliyon.2021.e07145>.
- Muindi H, Kibiti CM, and **Ngugi MP** (2021): Hemostatic activities of methanol leaf extracts of *Croton megalocarpus* Hutch and *Lantana camara* Linn. *Journal of Advanced Biotechnology and Experimental Therapeutics*, 4(2): 215-222. <https://doi.org/10.5455/jabet.2021.d122>
- Mworja JK, Kibiti CM, Ngeranwa JJN and **Ngugi MP** (2021): Anti-inflammatory potential of dichloromethane leaf extracts of *Eucalyptus globulus* (Labill) and *Senna didymobotrya* (Fresenius) in mice. *Africa Health Sciences*, 21(1). DOI: [10.4314/ahs.v21i1.50](https://doi.org/10.4314/ahs.v21i1.50)
- Mwaeni VK, Nyariki, JN, Jillani N, Omwenga G, **Ngugi M** and Isaac AO (2021). Coenzyme Q10 Protected against Arsenite and Enhanced the Capacity of 2,3-Dimercaptosuccinic Acid to Ameliorate Arsenite-Induced Toxicity in Mice. *BMC Pharmacology and Toxicology*, 22:19. <https://doi.org/10.1186/s40360-021-00484-z>

- Mbinda W , Kavoo A, Maina F, Odeph M, Mweu C, Nzilani N and **Ngugi M** (2021). Farmers' Knowledge and Perception of Finger millet Blast Disease and its Control Practices in Western Kenya. *CABI Agricultural Biosciences*, 2:13. <https://doi.org/10.1186/s43170-021-00033-y>
- Masanga J, Mwangi BN, Kibet W, Sagero P, Wamalwa M, Oduor R, **Ngugi M**, Alakonya A, Ojola P, Bellis, ES and Runo S (2021). Physiological and ecological warnings that dodders pose an exigent threat to farmlands in Eastern Africa. *Plant Physiology*. <https://doi.org/10.1093/plphys/kiab034>
- Gitahi SM, **Piero MN**, Mburu DN and Kingori Machocho AK (2021). Repellent Effects of Selected Organic Leaf Extracts of *Tithonia diversifolia* (Hemsl.) A. Gray and *Vernonia lasiopus* (O. Hoffman) against *Sitophilus zeamais* Motschulsky (Coleoptera: Curculionidae). *The Scientific World Journal*. <https://doi.org/10.1155/2021/2718629>
- Syombua ED, Adero MO, Mbinda WM, Wanyonyi CN, **Ngugi, MP** and Oduor, RO (2020). A system for rapid gene introgression into cassava immature leaves and subsequent recovery of transformed lines. *Plant Biotechnology Reports*. <https://doi.org/10.1007/s11816-020-00654-1>

2020

- Moriasi, G, Ireri, A and **Ngugi MP** (2020). Cognitive-Enhancing, Ex Vivo Antilipid Peroxidation and Qualitative Phytochemical Evaluation of the Aqueous and Methanolic Stem Bark Extracts of *Lonchocarpus eriocalyx* (Harms.) *Biochemistry Research International*. <https://doi.org/10.1155/2020/8819045>
- Joseph KM, Cromwell MK, Joseph NN, **Mathew PN** (2020). Analgesic potential of dichloromethane leaf extracts of *Eucalyptus globulus* (Labill) and *Senna didymobotrya* (Fresenius) in mice models. *Journal of Hermed Pharmacology*, 9(4):391-399. doi: 10.34172/jhp.2020.49
- Guchu, BM, Machocho, AK, Mwihi, SK and **Ngugi, MP** (2020): In Vitro Antioxidant Activities of Methanolic Extracts of *Caesalpinia volkensii* Harms., *Vernonia lasiopus* O. Hoffm., and *Acacia hockii* De Wild. *Evidence Based Complementary and Alternative Medicine*, <https://doi.org/10.1155/2020/3586268>.
- Wanjira, MM, **Ngugi MP** and Mbinda, W. (2020). Phenotypic and Genetic Characterization of Selected Kenyan Groundnut (*Arachis hypongaea* L.) varieties. *African Journal of Biotechnology*, 19(9):591-601. DOI: 10.5897/AJB2020.17214.
- Moriasi, G, Ireri, A and **Ngugi MP** (2020). In Vitro Antioxidant Activities of the Aqueous and Methanolic Stem Bark Extracts of *Piliostigma thonningii* (Schum.). *Journal of Evidence-Based Integrative Medicine*, 25, 2515690X20937988.

- Odeph M, Luasi WW, Kavoo A, Mweu C, **Ngugi M**, Maina F, Nzilani N, Mbinda WM. Occurrence, distribution and severity of finger millet blast caused by *Magnaporthe oryzae* in Kenya. *African Journal of Plant Science*,14(4):139–49. <https://doi.org/10.5897/AJPS2020.1970>.
- Sieberi BM, Omwenga GI, Wambua RK, Samoei JC, and **Ngugi MP** (2020). Screening of the Dichloromethane: Methanolic Extract of *Centella asiatica* for Antibacterial Activities against *Salmonella typhi*, *Escherichia coli*, *Shigella sonnei*, *Bacillus subtilis* and *Staphylococcus aureus*. *The Scientific World Journal*. <https://doi.org/10.1155/2020/6378712>.
- Moriasi, GA, Ireri, AM., and **Ngugi, MP** (2020). In Vivo Cognitive-Enhancing, Ex Vivo Malondialdehyde-Lowering Activities and Phytochemical Profiles of Aqueous and Methanolic Stem Bark Extracts of *Piliostigma thonningii* (Schum.). *International Journal of Alzheimer's Disease*. <https://doi.org/10.1155/2020/1367075>.

2019

- Arika, W. M., Kibiti, C. M., Njagi, J. M., & **Ngugi, M. P.** (2019). Effects of DCM Leaf Extract of *Gnidia glauca* (Fresen) on Locomotor Activity, Anxiety, and Exploration-Like Behaviors in High-Fat Diet-Induced Obese Rats. *Behavioural Neurology*, 2019.
- Mworira, J. K., Kibiti, C. M., **Ngugi, M. P.**, & Ngeranwa, J. N. (2019). Antipyretic Potential of Dichloromethane Leaf Extract of *Eucalyptus globulus* (Labill) and *Senna didymobotrya* (Fresenius) in Rats Models. *Heliyon*, 5(12), e02924. doi:10.1016/j.heliyon.2019.e02924
- Arika, W. M., Kibiti, C. M., Njagi, J. M., & **Ngugi, M. P.** (2019). Anti-Obesity Effects of Dichloromethane Leaf Extract of *Gnidia Glauca* in High Fat Diet-Induced Obese Rats. *Heliyon*, 5(11), e02800.
- Arika, W., Kibiti, C. M., Njagi, J. M., & **Ngugi, M. P.** (2019). In Vitro Antioxidant Properties of Dichloromethanolic Leaf Extract of *Gnidia glauca* (Fresen) as a Promising Antiobesity Drug. *Journal of Evidence-Based Integrative Medicine*, 24, 2515690X19883258.
- Ngari, L. N., Njagi, S. N., Kamau, J. K., Lagat, R. C., Musyoki, A. M., Akoth, B. O., Kioko, F., Okwany, Z.-A., & Ngugi, M. P. (2019). Phenotypic Characterization of Selected Kenyan Khat (*Catha edulis*) Cultivars Based on Morphological Traits. *African Journal of Biotechnology*, 18(29), 865-874.
- Arika, WM, Kibiti CM, Njagi JM and **Ngugi MP** (2019). Modulation of Cognition: The Role of *Gnidia glauca* on Spatial Learning and Memory Retention in High-Fat Diet-Induced Obese Rats. *Neural Plasticity*, (2019): 16 pages. <https://doi.org/10.1155/2019/2867058>.
- Syombua, ED, Wanyonyi, CN, Mbinda, WM, **Ngugi MP**, Alakonya, AE and Oduor, RO (2019). Explant Type and Hormone Regime Influences Somatic

Embryogenesis and Regeneration of Cassava. *African Journal of Biotechnology*, 18(25):532-539. DOI: 10.5897/AJB2019.16853

- Limbua PG, **Ngugi MP** and Oduor RO (2019). *In Vitro* Regeneration Protocol of Kenyan Adapted Groundnut (*Arachis hypogaea* L.) Genotypes using Cotyledonary Nodal Explants. *Journal Plant Biochemistry and Physiology*, 7 (1):233-236. doi: 10.4172/2329-9029.1000233

2018

- NG Makenzi, WM Mbinda, RO Okoth, **MP Ngugi** (2018). *In Vitro* Plant Regeneration of Sweetpotato Through Direct Shoot Organogenesis. *Journal of Plant Biochemistry and Physiology*, 6:1. doi: 10.4172/2329-9029.1000207
- Ngetich A, Mweu C, **Ngugi M**, Mukami A, Ojulong H, Mbinda W (2018). Efficient Plant Regeneration Protocol for Finger Millet [*Eleusine coracana* (L.) Gaertn.] via Somatic Embryogenesis. *African Journal of Biotechnology*, 17(21): 660-667.
- Ngari LN, Njagi SN, Kamau JK, Lagat RC, Musyoki AM, Muiruri JK, **Ngugi MP** (2018). Genotypic Characterization of *Catha edulis* in Mt. Kenya Region, Kenya. *Journal of Phylogenetics and Evolutionary Biology*, 6: 203. doi:10.4172/2329-9002.1000203.
- Maoga JB, Mburu D and Ngugi MP (2018). *In Vitro* Antioxidant Effects of Dichloromethano–Methanolic Blend Extracts of *Clusia abyssinica* and *Maytenus obscura*. *Journal of Pharmaceutical Biology*, 8(2), 28-34.
- Ndile MM, Mbinda MW, **Ngugi PM** (2018). *Caesalpinia volkensii*: An Unexploited Natural Source of Medicine. *Journal of Phytopharmacology*, 7(3):288-291.
- Asunta Mukami, Alex Ngetich, Cecilia Mweu, Mutemi Muthangya, Richard O Oduor, **Mathew Ngugi**, Wilton Mbinda (2018). Rapid and efficient plant regeneration from shoot apical meristems of finger millet [*Eleusine coracana* (L.) Gaertn.] via direct organogenesis. *African Journal of Biotechnology*, 17(29): 898-905, 18 doi: 10.5897/AJB2018.16562

2017

- Mwangi J Mukundi, Njagi EN Mwaniki, **Ngugi M Piero**, Njagi J Murugi, Juma K Kelvin, Abdirahman A Yusuf, Mwonjoria K John, Ngetich K Alex, Agyirifo S Daniel, Gathumbi K Peter, Muchugi N Alice (2017). Potential Anti-diabetic Effects and Safety of Aqueous Extracts of *Urtica dioica* Collected from Narok County, Kenya. *Pharmaceutica Analytica Acta*, 8:5. doi: 10.4172/2153-2435.1000548
- Nderitu KW, Mwenda SN, Macharia JN, Barasa SS, and **Ngugi MP (2017)**. Antiobesity Activities of Methanolic Extracts of *Amaranthus dubius*, *Cucurbita pepo*, and *Vigna unguiculata* in Progesterone-Induced Obese Mice. *Evidence-Based Complementary and Alternative Medicine*, Article ID 4317321. <https://doi.org/10.1155/2017/4317321>
- Onyango TO, Mburu DN, **Ngugi MP**, Kamau JK and Juma KK (2017). Effects of Maalox Plus® Antacid and PureCal® Calcium Supplement on Physical Characteristics, Body Weight, Tissue Minerals and Histopathology of Rats Subjected to Alcohol Intoxication, *Journal of Clinical & Experimental Pharmacology*, 7:3 doi: 10.4172/2161-1459.1000237

- Onyango TO, Mburu DN, **Ngugi MP**, Kamau JK and Juma KK (2017). Effects of Maalox Plus® Antacid and PureCal® Calcium Supplements on Haematological and Biochemical Parameters of Rats Subjected to Alcohol Intoxication. *Journal of Alcoholism & Drug Dependence*, 5:3. doi: 10.4172/2329-6488.1000265.
- Machani G Fridah, Muchugi Alice, **Ngugi M Piero**, Jamnadass Ramni, Omwenga I George, Kariba Robert, Mng'omba Simon and Prasad Hendre (2017). Molecular Characterization of Sclerocarya birrea ICRAF Field Genebank Collections. *Journal of Phylogenetics & Evolutionary Biology*, 5:3. doi: 10.4172/2329-9002.1000190
- Muia PK, **Ngugi MP** and Mburu DN (2017). Performance of GeneXpert Assay in Detecting Pulmonary Tuberculosis and Rifampicin Resistance in Patients Attending Kitui County Hospital, Kenya. *Journal of Tropical Diseases*, 5:4 doi: 10.4172/2329-891X.1000246.
- David NN, Michael NM, Beatrice GM, Shadrack MN, James KK, **Mathew PN**, Joan MN (2017). Hypoglycaemic Effects of Dichloromethane: Methanolic Leaf and Stem Bark Extracts of *Pappea capensis* in Male Albino Rats. *Journal of Diabetes Management*, 7(3):295-305.
- Veronica SA, Cheruiyot KS, Bosibori MJ, Munene IM, Murugi NJ, **Piero NM**. (2017). Antiinflammatory, Analgesic and Antipyretic Effects of Dichloromethane Stem Bark Extract of *Acacia mellifera*. *Journal of Phytopharmacology*, 6(4):239-246.
- Gaichu DM, Nthiga PM, Kariuki DM, **Ngugi MP**, Mburu DN (2017). Phytochemical Screening and Antipyretic Activities of Dichloromethane-Methanolic Leaf and Stem Bark Extracts of *Ximenia americana* in Rat Models. *Journal of Herbmmed Pharmacology*, 6(3): 107-113.
- Daniel M. Gaichu, Peter M. Nthiga, Duncan M. Kariuki, **Mathew P. Ngugi**, David N. Mburu (2017). Anti-Inflammatory Activities of Dichloromethane-Methanolic Leaf and Stem Bark Extracts of *Ximenia americana* in Mice Models. *Journal of Herbmmed Pharmacology*, 6(2): 55-61.
- Koech SC, Maoga JB, Sindani AV, Ileri MM, Mwonjoria JK, Njagi NM and **Ngugi MP** (2017). Anti-Inflammatory Activity of Dichloromethanolic Root Extract of *Clutia abyssinica* in Swiss Albino Mice. *Journal of Pharmacognosy & Natural Products*, 3(1): 132. doi: 10.4172/2472-0992.1000132.
- SK Mwihia, **MP Ngugi**, JM Maingi (2017). Phytochemical and Antioxidant Screening of Seed Extracts of Kenyan Custard Apple (*Annona squamosa*). *International Journal of Pharmaceutical Science Invention*, 6(7):24-30). ISSN 2319 – 6718.
- SK Mwihia, **MP Ngugi**, JM Maingi, JK Kamau, AW Muhuha (2017). Screening of Phytochemicals and Antibacterial Activity of Seed Extracts of Kenyan Sugar Apple (*Annona squamosa*) . *International Journal of Life Sciences Research*, 5(3):46-52). ISSN 2348-3148
- Koech SC, Ouko RO, Michael NM, Ileri MM, **Ngugi MP** and Njagi NM (2017). Analgesic Activity of Dichloromethanolic Root Extract of *Clutia abyssinica* in Swiss Albino Mice. *Natural Product Chemistry Research*, 5(1): 255. doi: 10.4172/2329-6836.1000255

- Kariuki DM, Gaichu DM, Mburu DN and **Ngugi MP** (2017). In vivo Safety of Dichloromethane-Methanolic Extract of *Allium sativum* in Normal Mice. *Journal of Drug Metabolism & Toxicology*, 8 (1): 223. doi:10.4172/2157-7609.1000223
- Ouko RO, Koech SC, Arika WM, Osano KO, Ogola PE, Oduor RO and **Ngugi MP** (2017). Bioefficacy of Organic Extracts of *A. sativum* Against *S. zeamais* (Coleoptera; Dryophthoridae). *Biological Systems Open Access*, 6:1 doi: 10.4172/2329-6577.1000174
- Ouko RO, Koech SC, Arika WM, Njagi SM, Oduor RO and **Ngugi MP** (2017). Bioefficacy of Organic Extracts of *Ocimum basilicum* against *Sitophilus zeamais*. *Entomology, Ornithology & Herpetology*, 6 (1): 190. doi: [10.4172/2161-0983.1000190](https://doi.org/10.4172/2161-0983.1000190)
- Koech SC, Sindani AV, Maoga JB, Ouko RO, Njagi NM and **Ngugi MP** (2017). Anti-pyretic Potential of Dichloromethanolic Root Extract of *Clutia abyssinica* in Wistar Albino Rats. *Medicinal and Aromatic Plants (Los Angel)* 6: 281. doi: 10.4172/2167-0412.1000281
- Musila MN, Ngai DN, Mbiri JW, Njagi SM, Mbinda WM and **Ngugi MP** (2017). Acute and Sub-Chronic Oral Toxicity Study of Methanolic Extract of *Caesalpinia volkensii* (Harms). *Journal of Drug Metabolism and Toxicology*, 8 (1): 222. doi:[10.4172/2157-7609.1000222](https://doi.org/10.4172/2157-7609.1000222).
- Michael N Musila¹, Beatrice G Muthoni, Samson C Koech, Mathew P Ngugi, Wilton M Mbinda (2017). Evaluation of In vivo Toxicity of Methanolic Leaf Extract of *Vernonia lasiopopus* (O. Hoffman). *Journal of Pharmacognosy and Natural Products*, 3:1. doi: [10.4172/2472-0992.1000133](https://doi.org/10.4172/2472-0992.1000133)

2016

- Matheri F, Teya F, Kioko F, Mawia AM, Mwangi M, Kirubi DT, **Ngugi M** and Runo S (2016). Genotyping of Kenyan *Passiflora Edulis Flavicarpa* Hybrid Accessions and their Parents using SSR Markers. *Vegetos* 29:4. doi:[10.4172/2229-4473.1000181](https://doi.org/10.4172/2229-4473.1000181)
- Matheri F, Mwangi M, Runo S, **Ngugi M**, Kirubi DT, Njoroge A, Mawia AM, Kioko FW, Lagat R and Daniel NA (2016). Phenotypic Characterization of Selected Kenyan Purple and Yellow Passion Fruit Genotypes Based on Morpho-Agronomic Descriptors. *Advances in Crop Science and Technology*, 4(4): 226. doi:[10.4172/2329-8863.1000226](https://doi.org/10.4172/2329-8863.1000226).
- Matheri F, Nyamai D, **Ngugi MP**, Runo S, Njuguna JK, Mwangi M and Kirubi DT (2016). Phenotyping of Selected Kenyan *Passiflora edulis* Varieties and Their Hybrids Based on Quantitative Morpho-agronomic Traits. *Journal of Horticulture*, 3(3): 181. doi:[10.4172/2376-0354.1000181](https://doi.org/10.4172/2376-0354.1000181).
- Lagat R Chemutai, Mawia A Musyoki, Wambua F Kioko, Njagi S Mwenda, Karau G Muriira and **Ngugi M Piero** (2016). Physicochemical Characterization of Selected Rice (*Oryza Sativa* L.) Genotypes Based on Gel Consistency and Alkali Digestion. *Biochemistry & Analytical Biochemistry*, 5 (3): 285. doi:[10.4172/2161-1009.1000285](https://doi.org/10.4172/2161-1009.1000285).
- Chemutai LR, Musyoki MA, Kioko WF, Mwenda NS, Muriira KG and **Piero NM** (2016). Genetic Diversity Studies on Selected Rice (*Oryza sativa* L.) Genotypes

based on Gel Consistency and Alkali Digestion. *Journal of Rice Research*, 4(3): 172. doi:[10.4172/2375-4338.1000172](https://doi.org/10.4172/2375-4338.1000172).

- Kamau JK, Nthiga PM, Mwonjoria JK, Ngeranwa JJN, **Ngugi MP** (2016). Anti-Inflammatory Activity of Methanolic Leaf Extract of *Kigelia Africana* (Lam.) Benth and Stem Bark Extract of *Acacia Hockii* De Wild in Mice. *Journal of Developing Drugs*, 5(2):156. doi:[10.4172/2329-6631.1000156](https://doi.org/10.4172/2329-6631.1000156).
- Nthiga PM, Kamau JK, Safari VZ, Mwonjoria JK, Mburu DN and **Ngugi MP** (2016). Antipyretic Potential of Methanolic Stem Bark Extracts of *Harrisonia Abyssinica* Oliv and *Landolphia Buchananii* (Hallier F.) Stapf in Wistar Rats. *Journal of Applied Pharmacy*, 8(3):227. doi:[10.4172/1920-4159.1000227](https://doi.org/10.4172/1920-4159.1000227).
- Kamau JK, Nthiga PM, Safari VC, Njagi SM, Mwonjoria JK, **Ngugi MP** and Ngeranwa JJN (2016). Antipyretic Properties of Methanol Stem Bark Extracts of *Acacia hockii* De Wild and *Kigelia africana* (Lam) Benth in Wistar Rats. *Journal of Pharmacognosy & Natural Products*, 2(3):118. doi:[10.4172/2472-0992.1000118](https://doi.org/10.4172/2472-0992.1000118)
- Nthiga PM, Kamau JK, Safari VZ, **Ngugi MP** and Mburu DN (2016). Antinociceptive Activity of Methanolic Stem Bark Extracts of *Harrisonia Abyssinica* Oliv and *Landolphia Buchananii* (Hallier F.) Stapf in Mice Models. *Journal of Pain and Relief*, 5(4): 253. doi:[10.4172/2167-0846.1000253](https://doi.org/10.4172/2167-0846.1000253)
- Ogola PE, Arika WM, Nyamai DW, Osano KO, Rachuonyo HO, Wambani JR, Lagat RC, Njagi SM1, Mumanya SW, Koteng' A, **Ngugi MP** and Oduor RO (2016). Determination of Background Ionizing Radiations in Selected Buildings in Nairobi County, Kenya. *Nuclear Medicine & Radiation Therapy*, 7(3):289. doi:[10.4172/2155-9619.1000289](https://doi.org/10.4172/2155-9619.1000289).
- Njagi SM, Lagat RC, Mawia AM, Arika WM, Wambua FK, Ouko RO, Ogola PE, Kamau JK, Nthiga PM, Musila MN, Mwitari PG and **Ngugi MP** (2016). In Vitro Antiproliferative Activity of Aqueous Root Bark Extract of *Cassia abbreviata* (Holmes) Brenan. *Journal of Cancer Science & Therapy*, 8(5): 114-121. doi:[10.4172/1948-5956.1000402](https://doi.org/10.4172/1948-5956.1000402).
- Obel H. Jorum, Alex K. Machocho and **Ngugi M. Piero** (2016). Effects of Dichloromethane-Methanolic Leaf Extracts of *Carissa edulis* (Forssk) Vahl on Serum Lipid Profiles in Normal Rat Models. *Journal of Hypertension*, 5(2):217. doi:[10.4172/2167-1095.1000217](https://doi.org/10.4172/2167-1095.1000217).
- EN Marigi, JO Masanga, TL Munga, LS Karanja, **MP Ngugi**, WM Thagana, D Kirubi, M Mwangi, CM Githunguri, WM Muiru, DW Miano, AE Alakonya and RO Oduor (2016). Optimisation of a Somatic Embryogenesis and Transformation Protocol for Farmer-Preferred Cassava Cultivars in Kenya. *African Crop Science Journal*, 24 (s1): 35–44. ISSN 1021-9730/2016. doi:<http://dx.doi.org/10.4314/acsj.v24i1.4S>
- Njoroge W Anne, **Ngugi M Piero**, Aliyu Umar, Matheri Felix, Gitahi S Maina, Mwangi B Maina, Njagi J Muriithi, Mworja J Kiambi and Ngure G Mutero (2016). In Vitro Anti-Acetylcholinesterase Activity of Dichloromethane Leaf Extracts of *Carphalea glaucescens* in *Chilo partellus* Larvae. *Biochemistry and Analytical Biochemistry*, 5(2):264. doi:[10.4172/2161-1009.1000264](https://doi.org/10.4172/2161-1009.1000264)
- Arika WM, Nyamai DW, Agyirifo DS, **Ngugi MP** and Njagi ENM (2016). In Vivo Antidiabetic Effect of Aqueous Leaf Extract of *Azadirachta indica*, A. juss in

Alloxan Induced Diabetic Mice. *Journal of Diabetic Complications & Medicine*, 1(2):106. doi:10.4172/jdcm.1000.106

- Osano KO, Nyamai DW, Ogola PE, Ouko RO, Arika WM, Bina MW, Mburu DN and **Ngugi MP** (2016). Evaluation of *In Vivo* Toxicity of Dichloromethane: Methanolic Leaf Extracts of *Prosopis juliflora* in Female Wistar Albino Rats. *Journal of Drug Metabolism and Toxicology*, 7 (1): 200. doi:10.4172/2157-7609.1000200.
- Obel H Jorum, **Ngugi M Piero** and Alex K Machocho (2016). Haematological Effects of Dichloromethane-Methanolic Leaf Extracts of *Carissa edulis* (Forssk.) Vahl in Normal Rat Models. *Journal of Hematology & Thromboembolic Diseases*, 4(1):232. ISSN:2329-8790.
- Arika WM, Rachuonyo HO, Muchori AN, Lagat RC, Mawia AM, Wambani JR, Wambua FK, Nyamai DW, Ogola PE, Kiboi NG, Ouko RO, Njagi SM , Muruthi CW, **Ngugi MP** and Njagi ENM (2016). Hypoglycemic Effect of *Ocimum lamiifolium* in Alloxan-Induced Diabetic Mice. *Medicinal and Aromatic Plants*, 5(2): 228. doi:10.4172/2167-0412.1000228.
- Arika WM, Ogola PE, Nyamai DW, Mawia AM, Wambua FK, Kiboi NG, Wambani JR, Njagi SM, Rachuonyo HO, Emmah KO, Lagat RC, Muruthi CW, Abdirahman YA, Agyirifo DS, Ouko RO, **Ngugi MP** and Njagi ENM (2016). Mineral Elements Content of Selected Kenyan Antidiabetic Medicinal Plants. *Advanced Techniques in Biology and Medicine*, 4(1): 160-165. doi: 10.4172/2379-1764.1000160
- Arika WM, Nyamai DW, Osano KO, **Ngugi MP** and Njagi ENM (2016). Biochemical Markers of *In Vivo* Hepatotoxicity. *Journal of Clinical Toxicology*, 6(2): 297. doi:10.4172/2161-0495.1000297.
- Arika WM, Nyamai DW, Musila MN, **Ngugi MP** and Njagi ENM (2016). Hematological Markers of *In Vivo* Toxicity. *Journal of Hematology & Thromboembolic Diseases*, 4(1):236. doi:10.4172/2329-8790.1000236.
- Nyamai DW, Arika W, Ogola PE, Njagi ENM, **Ngugi MP** (2016). Medicinally Important Phytochemicals: An Untapped Research Avenue. *Research and Reviews: Journal of Pharmacognosy and Phytochemistry*, 4(1):35-49. e-ISSN:2321-6182; p-ISSN:2347-2332
- Nyamai DW, Arika WM, Rachuonyo HO, Wambani JR and **Ngugi MP** (2016). Herbal Management of Benign Prostatic Hyperplasia. *Journal of Cancer Science & Therapy*, 8(5): 130-134. doi:10.4172/1948-5956.1000404.
- Safari VZ, **Ngugi MP**, Orinda G, Njagi EM (2016). Anti-pyretic, Anti-inflammatory and Analgesic Activities of Aqueous Stem Extract of *Cynanchum Viminale* (L.) in Albino Mice. *Medicinal and Aromatic Plants*, 5(2):236. doi:10.4172/2167-0412.1000236
- Safari VZ, **Ngugi MP**, Orinda G and Njagi EM (2016). Anti-pyretic, Anti-inflammatory and Analgesic Activities of Aqueous Leaf Extract of *Urtica Dioica* (L.) in Albino Mice. *Medicinal and Aromatic Plants*, 5(2):237. doi:10.4172/2167-0412.1000237.
- Safari VZ, Kamau JK, Nthiga PM, **Ngugi MP**, Orinda G and Njagi EM (2016). Antipyretic, Antiinflammatory and Antinociceptive Activities of Aqueous Bark Extract of *Acacia Nilotica* (L.) Delile in Albino Mice. *Pain Management and Medicine*, 2(2): 113. doi:10.4172/jpmme.1000113.

- Joan M. Njagi, Daniel N. Akunga, Martin M. Njagi, **Mathew P. Ngugi**, Eliud M.N. Njagi (2016). Heavy Metal Pollution of the Environment by Dumpsites: A Case of Kadhodeki Dumpsite. *International Journal of Life Sciences and Scientific Research*, 2(2):191-197. ISSN: 2455-1716.
- Thomas M Musyoka, Nyamai W Dorothy, Arika M Wycliffe, Kelvin K Juma, Mutua D Nzioka, David Maina, Stanely K Waithaka, **Mathew P. Ngugi**, George O Orinda, Geoffrey M Karau, Eliud NM Njagi (2016). In Vivo Antianaemic Effect and Safety of Aqueous Extracts of *Erythrina abyssinica* and *Zanthoxylum usambarensis* in Mice Models. *Journal of Hematology & Thromboembolic Diseases*, 4 (3): 242. doi:[10.4172/2329-8790.1000242](https://doi.org/10.4172/2329-8790.1000242)
- Mugweru FG, Nyamai DW, Arika MW, **Ngugi MP**, Gathumbi PK, Njagi ENM and Ngeranwa JJN (2016). Antimicrobial Activity of Aqueous Extracts of *Maytemus putterlickoides*, *Senna spectabilis* and *Olinia usambarensis* on Selected Diarrhea-Causing Bacteria. *Journal of Bacteriology and Parasitology* 7(2): 270. doi: [10.4172/2155-9597.1000270](https://doi.org/10.4172/2155-9597.1000270).
- Miccah S. Seth, Leta T. Bedada, Steven M. Runo, **Mathew P. Ngugi**, Revel Iyer, Jennifer A. Thomson, Emmarold E. Mneney and Richard O. Oduor (2016). Drought tolerance in transgenic tropical maize (*Zea mays* L.) by heterologous expression of Peroxiredoxin 2 gene - *XvPrx2*. *African Journal of Biotechnology*, 15(25):1350-1362. doi:[10.5897/AJB2016.15371](https://doi.org/10.5897/AJB2016.15371). ISSN: 1684-5315.
- Mbiri J. Wanja, Sichangi Kasili, Kisangau Patrick, Wilton Mbinda, **Ngugi M. Piero** (2016). Anti-inflammatory Properties of Methanolic Bark Extracts of *Terminalia brownii* in Wistar Albino Rats. *International Journal of Current Pharmaceutical Research*, 8(3):100-104. ISSN- 0975-7066.
- Njogu SM, Arika WM, Nyamai DW, **Ngugi MP**, Machochi AK, Ngeranwa JJN and Njagi ENM (2016). Hypoglycemic Effect of Aqueous and Ethyl Acetate Leaf Extract of *Maytenus putterkloides* in Alloxan Induced Diabetic Mice. *Journal of Diabetes and Metabolism*, 7(6):685. doi:[10.4172/2155-6156.1000685](https://doi.org/10.4172/2155-6156.1000685).
- Mwonjoria K. John, Umar Aliyu, Juma K. Kevin, Kahiga M. Titus, **Ngugi M. Piero**, Mburu David, Wanyonyi W. Alphonse, Githinji G. Charles, Ngeranwa N. Joseph (2016). Anti-inflammatory activity of *Craterostigma pumilum* (hochst) is associated with hyperalgesia. *International Journal of Pharmacology and Toxicology*, 4 (2): 169-173. doi: [10.14419/ijpt.v4i2.6497](https://doi.org/10.14419/ijpt.v4i2.6497).
- Mbiri JW, Kasili S, Mbinda W, Kisangau PD and **Piero NM** (2016). Anti-Pyretic Properties of Methanolic Bark Extracts of *Terminalia brownii* in Wistar Rats (*Rattus norvegicus*). *Journal of Pharmacognosy & Natural Products*, 2(3): 121. DOI: [10.4172/2472-0992.1000121](https://doi.org/10.4172/2472-0992.1000121).
- Mbiri WJ, Kasili S, Kisangau DP, Musila NM, **Piero NM** and Mbinda WM (2016) Antinociceptive Properties of Methanolic Bark Extracts of *Terminalia brownii* in Wistar Rats. *Journal of Pain and Relief*, 5 (5): 261. doi:[10.4172/2167-0846.1000261](https://doi.org/10.4172/2167-0846.1000261)

2015

- **Ngugi M Piero**, Murugi N Joan, Oduor O Richard, Mgtutu A Jalemba, Ombori R Omwoyo and Cheruiyot R Chelule (2015). Determination of Cyanogenic

Compounds Content in Transgenic Acyanogenic Kenyan Cassava (*Manihot esculenta* Crantz) Genotypes: Linking Molecular Analysis to Biochemical Analysis. *Analytical and Bioanalytical Techniques*, 6(5):264-271. doi:[10.4172/2155-9872.1000264](https://doi.org/10.4172/2155-9872.1000264)

- **Piero NM**, Murugi NJ, Okoth OR, Ombori OR, Jalemba MA and Chelule CR (2015). RNAi-Mediated Downregulation of Cyano-Glycoside Biosynthesis in Kenyan Cassava (*Manihot esculenta* Crantz) Genotypes. *Plant Biochemistry and Physiology*, 3 (3):148-153. doi:[10.4172/2329-9029.1000148](https://doi.org/10.4172/2329-9029.1000148)
- **Ngugi M Piero**, Njagi NM Eliud, Kimuni N Susan, Orinda O George, Njagi J Murugi, Maina David, Agyirifo D Sakyi, Gathumbi K Peter, Kinge W Stanley and Ngeranwa JN Joseph (2015). In Vivo Antidiabetic Activity and Safety in Rats of *Cissampelos pareira* Traditionally Used in The Management of Diabetes Mellitus In Embu County, Kenya. *Journal of Drug Metabolism and Toxicology*, 6(3):184-194. doi:[10.4172/2157-7609.1000184](https://doi.org/10.4172/2157-7609.1000184).
- **Ngugi MP**, Oduor RO, Omwoyo RO, Njagi JM, Mgtutu AJ and Cheruiyot RC (2015). Regeneration of Kenyan Cassava (*Manihot esculenta* Crantz) Genotypes. *Plant Biochemistry and Physiology*, 3: 147. doi:[10.4172/2329-9029.1000147](https://doi.org/10.4172/2329-9029.1000147).
- **Ngugi M Piero**, Kimuni NS, Ngeranwa NJ, Orinda OG, Njagi MJ, Maina D, Agyirifo SD, Gathumbi K, King'e WS and Njagi Eliud EN (2015). Antidiabetic and Safety of *Lantana rhodesiensis* in Alloxan-induced Diabetic Rats. *Developing Drugs*, 4: 129. doi:[10.4172/2329-6631.1000129](https://doi.org/10.4172/2329-6631.1000129).
- **Ngugi M Piero** and Njagi M Joan (2015). Cancer: A Molecular Curse? *International Journal of Current Pharmaceutical Research*, 7(3):1-3.
- Joan Murugi Njagi, **Mathew Piero Ngugi**, Cromwell Mwiti Kibiti, Joseph Ngeranwa, Wilson Njue, Peter Gathumbi and Eliud Njagi (2015). Hypoglycemic effect of *Helichrysum odoratissimum* in Alloxan-induced Diabetic Mice. *Phytopharmacology*, 4:1-6
- Mwangi J Mukundi, **Ngugi M Piero**, Njagi EN Mwaniki, Njagi J Murugi, Agyirifo S Daniel, Gathumbi K Peter and Muchugi N Alice (2015). Antidiabetic Effects of Aqueous Leaf Extracts of *Acacia nilotica* in Alloxan Induced Diabetic Mice. *Diabetes and Metabolism*, 6(7):568-573. doi: [10.4172/2155-6156.1000568](https://doi.org/10.4172/2155-6156.1000568)
- Mwangi J Mukundi, Njagi E N Mwaniki, **Ngugi M Piero**, Njagi J Murugi, Agyirifo S Daniel, Gathumbi K Peter and Muchugi N Alice (2015). In Vivo Antidiabetic Effects of Aqueous Leaf Extracts of *Rhoicissus tridentata* in Alloxan Induced Diabetic Mice. *Developing Drugs*, 4(3):131-135. doi:[10.4172/2329-6631.1000131](https://doi.org/10.4172/2329-6631.1000131).
- Abdirahman YA, Juma KK, Makori WA, Agyirifo DS, **Ngugi MP**, Gathumbi PK, Ngeranwa JJN and Njagi ENM (2015). Blood Glucose Lowering Effect and Safety of the Aqueous Leaf Extracts of *Zanha Africana*. *Pharmaceutica Analytica Acta*, 6 (9):422-431. doi:[10.4172/21532435.1000422](https://doi.org/10.4172/21532435.1000422)
- Abdirahman YA, Juma KK, Mukundi MJ, Gitahi SM, Agyirifo DS, **Ngugi MP**, Gathumbi PK, Ngeranwa JJN and Njagi ENM (2015). In-Vivo Antidiabetic Activity and Safety of the Aqueous Stem Bark Extract of *Kleinia squarrosa*. *Diabetes and Metabolism*, 6(9):601-612. doi:[10.4172/2155-6156.1000601](https://doi.org/10.4172/2155-6156.1000601)
- Abdirahman YA, Juma KK, Nyamai DW, Njagi JM, Agyirifo DS, **Ngugi MP**, Gathumbi PK, Ngeranwa JJN and Njagi ENM (2015). In-Vivo Anti-

hyperglycemic Activity and Safety of The Aqueous Stem Bark Extracts of *Aloe secundiflora*. *Medicinal and Aromatic Plants, S1: 003-007*. doi:[10.4172/2167-0412.S1-003](https://doi.org/10.4172/2167-0412.S1-003)

- Nyamai DW, Mawia AM1, Wambua FK, Abdirahman YA, Osano K, Lagat R, Mumbi B, Arika W, Juma KK, Anyango E, Mulugeta M, **Ngugi MP**, Muchugi A, Ng'ang'a M, Burugu MW and Ramni Jamnadass (2015). Growth Performance of Domesticated *Prunus africana* Population in Muguga, Kiambu County, Kenya. *Biochemistry and Physiology 4 (4): 185-190*. doi: [10.4172/2168-9652.1000185](https://doi.org/10.4172/2168-9652.1000185).
- Nyamai DW, Mawia AM, Wambua FK, Njoroge A, Matheri F, Lagat R, Kiambi J, Ogola P, Arika W, Cheseto X, King'ori E, Ramni J, **Ngugi MP**, Muchugi A, Ng'ang'a M, Burugu MW (2015). Phytochemical Profile of *Prunus africana* Stem Bark from Kenya. *Journal of Pharmacognosy and Natural Products, 1(1):110-118*. doi: [10.4172/jpnp.1000110](https://doi.org/10.4172/jpnp.1000110).
- Kimeu B Mwonga, Njagi EN Mwaniki, Yole S Dorcas and **Ngugi M Piero** (2015). Molluscicidal Effects of Aqueous Extracts of Selected Medicinal Plants from Makueni County, Kenya. *Pharmaceutica Analytica Acta 6 (11): 445-450*. doi:[10.4172/21532435.1000445](https://doi.org/10.4172/21532435.1000445)
- Aliyu Umar, **Ngugi M Piero**, Allan J Mgotu, Njoroge W Ann, Gitahi S Maina, Mwangi B Maina, Njagi J Muriithi, Mworja J Kiambi, Ngure G Mutero and Mwonjoria K John (2015). BioEfficacy of Aqueous Crude Fruit Sap Extract of *Solanum incanum* against Green Peach Aphids *Myzus persicae* Sulzer (Homoptera: Aphididae). *Entomology, Ornithology & Herpetology, 5(1): 169-174*. doi:[10.4172/2161-0983.1000169](https://doi.org/10.4172/2161-0983.1000169)
- Arika WM, Ogola PE, Abdirahman YA, Mawia AM, Wambua FK, Nyamai DW, Kiboi NG, Wambani JR, Njagi SM, Rachuonyo HO, Muchori AN, Lagat RC, Agyirifo DS, **Ngugi MP** and Njagi ENM (2015). In Vivo Safety of Aqueous Leaf Extract of *Lippia javanica* in Mice Models. *Biochemistry and Physiology, 5(1): 191-200*. doi: [10.4172/2168-9652.1000191](https://doi.org/10.4172/2168-9652.1000191)
- Arika WM, Abdirahman YA, Mawia MA, Wambua KF, Nyamai DM, Ogola PE, Kiboi NG, Nyandoro HO, Agyirifo DS, **Ngugi MP** and Njagi ENM (2015). In Vivo Antidiabetic Activity of the Aqueous Leaf Extract of *Croton macrostachyus* in Alloxan Induced Diabetic Mice. *Pharmaceutica Analytica Acta 6 (11): 447-452*. doi:[10.4172/21532435.1000447](https://doi.org/10.4172/21532435.1000447).
- Mworja JK, Gitahi SM, Juma KK, Njagi JM, Mwangi BM, Aliyu U, Njoroge WA, Mwonjoria KJ, Nyamai DW, **Ngugi MP** and Ngeranwa JJN (2015). Analgesic Potential of Acetone Leaf Extract of *Caesalpinia volkensii* Harms in Mice. *Pharmaceutical Analytica Acta, 6 (11): 450-455*. doi:[10.4172/21532435.1000450](https://doi.org/10.4172/21532435.1000450)
- Wambua F Kioko, Musyoki A Mawia, **Ngugi M Piero**, Karau G Muriira, Nyamai D Wavinya, Lagat R Chemutai, Matheri Felix, Arika W Makori1 and Njagi S Mwenda (2015). Phenotypic Characterization on Selected Kenyan and Tanzanian Rice (*Oryza sativa* L) Populations Based on Grain Morphological Traits. *Journal Rice Research, 3: 155-161*. doi:[10.4172/2375-4338.1000155](https://doi.org/10.4172/2375-4338.1000155).
- Arika WM, Abdirahman YA, Mawia MM, Wambua KF, Nyamai DM, Ogola PE, Kiboi NG, Nyandoro HO, Njagi SM, Agyirifo DS, **Ngugi MP** and Njagi ENM (2015). Hypoglycemic Effect of *Lippia javanica* in Alloxan Induced Diabetic

Mice. *Journal of Diabetes and Metabolism*, 6 (11): 624-630. doi:[10.4172/2155-6156.1000624](https://doi.org/10.4172/2155-6156.1000624).

- Aliyu Umar, Allan J Mgotu, **Ngugi M Piero**, Njoroge W Ann, Gitahi S Maina, Mwangi B Maina, Njagi J Muriithi, Mworja J Kiambi, Ngure G Mutero and Mwonjoria K John (2015). In Vitro Anti-Acetylcholinesterase Activity of Crude Fruits Sap Extract of *Solanum incanum* in Green Peach Aphids. *Journal of Developing Drugs*, 4 (5): 142-145. doi:[10.4172/2329-6631.1000142](https://doi.org/10.4172/2329-6631.1000142).
- Njagi J Muriithi, Gitahi S Maina, Njagi M Mugendi, Mwangi B Maina, Mworja J Kiambi, Juma K Kelvin, Aliyu Umar, Mwonjoria K John, Njoroge W Ann, Abdirahman YA, **Ngugi M Piero** and Njagi NM Eliud (2015). Determination of Hematological Effects of Methanolic Leaf Extract of *Solanum. incanum* in Normal Mice. *Pharmaceutica Analytica Acta*, 6 (10): 429-435. doi:[10.4172/21532435.1000429](https://doi.org/10.4172/21532435.1000429)
- Mworja JK, Gitahi SM, Juma KK, Njagi JM, Mwangi BM, Aliyu U, Njoroge WA, Mwonjoria J, Mawia AM, Nyamai DW, **Ngugi MP** and Ngeranwa JIN (2015). Antinociceptive Activities of Acetone Leaf Extracts of *Carissa Spinarum* in Mice. *Medicinal & Aromatic Plants*, S1: 006-010. doi:[10.4172/2167-0412.S1-006](https://doi.org/10.4172/2167-0412.S1-006).
- Wambua F Kioko, Mawia A Musyoki, **Ngugi M Piero**, Karau G Muriira, Nyamai D Wavinya, Lagat Rose, Matheri Felix and Ngari L Ngithi (2015). Genetic Diversity Studies on Selected Rice (*Oryza sativa* L) Populations Based on Aroma and Cooked Kernel Elongation. *Journal of Phylogenetics and Evolutionary Biology*, 3(4): 158-164. doi:[10.4172/2329-9002.1000158](https://doi.org/10.4172/2329-9002.1000158)
- Mawia A. Musyoki, Wambua F. Kioko, **Ngugi P. Mathew**, Agyirifo Daniel, Karau G. Muriira, Nyamai D. Wavinya, Matheri Felix, Lagat R. Chemutai, Njagi S. Mwenda, Mworja J. Kiambi and Ngari L. Ngithi (2015). Genetic Diversity Studies on Selected Rice (*Oryza Sativa* L) Genotypes Based on Amylose Content and Gelatinization Temperature. *Advances in Crop Science and Biotechnology*, 3(5):193-199. doi:[10.4172/2329-8863.1000193](https://doi.org/10.4172/2329-8863.1000193).
- Mawia Musyoki A, Wambua Kioko F, Agyirifo Daniel, Nyamai Wavinya D, Matheri Felix, Langat Chemtai R, Njagi Mwenda S, Arika Arika W1, Gaichu Muthee D, Ngari Ngithi L, **Ngugi Piero M** and Karau Muriira G (2015). Phenotypic Diversity Studies on Selected Kenyan and Tanzanian Rice (*Oryza sativa* L) Genotypes Based on Grain and Kernel Traits. *Journal of Rice Research*, 3(4):150-154. doi:[10.4172/2375-4338.1000150](https://doi.org/10.4172/2375-4338.1000150)
- Abdirahman YA, Juma KK, Mukundi MJ, Gitahi SM, Agyirifo DS, **Ngugi PM**, Gathumbi PK, Ngeranwa JIN and Njagi ENM (2015). The Hypoglycemic Activity and Safety of Aqueous Stem Bark Extracts of *Acacia nilotica*. *Journal of Drug Metabolism and Toxicology*, 6(4):189-198. doi:[10.4172/2157-7609.1000189](https://doi.org/10.4172/2157-7609.1000189)
- Juma KK, Fulakeza RMJ, Ngeranwa JN, **Ngugi MP** and Mburu ND (2015). Evidence Based Phytopharmacological Potential of Herbal Extracts in Post-Ingestion Management of Mycotoxins in Animal Models. *Clinical Toxicology*, 5(4):254-262. doi:[10.4172/2161-0495.1000254](https://doi.org/10.4172/2161-0495.1000254)
- Mwangi B. Maina, Gitahi S. Maina, Njagi J. Muriithi, Mworja J. Kiambi, Aliyu Umar, Mwonjoria K. John, Ngure G. Mutero, Juma K. Kelvin, Njoroge W. Ann, Mburu N. David and **Ngugi M. Piero** (2015). Antinociceptive Properties of

Dichloromethane:Methanolic Leaf Extracts of *Caesalpinia volkensii* and *Maytenus obscura* in Animal Models. *Journal of Pain and Relief*, 4(4):191-196. doi:10.4172/2167-0846.1000191.

- Njagi J Muriithi, Gitahi S Maina, Mwangi B Maina, Mworja J Kiambi, Juma K Kelvin, Aliyu Umar, Mwonjoria K John, Njoroge W Ann, **Ngugi M Piero** and Njagi NM Eliud (2015). Determination of Hematological Effects of Methanolic Leaf Extract of *Vernonia lasiopos* in Normal Mice. *Blood and Lymph*, 5(3):139-144. doi:10.4172/2165-7831.1000139.
- Mwangi B Maina, Gitahi S Maina, Njagi J Muriithi1, Mworja J Kiambi, Aliyu Umar, Njoroge W Ann, Mwonjoria K John, **Ngugi M Piero**, Mburu N David (2015). Antiinflammatory Properties of Dichloromethane: Methanolic Leaf Extracts of *Caesalpinia Volkensii* and *Maytenus obscura* in Animal Models. *International Journal of Current Pharmaceutical Research*, 7(3):83-87.
- Gitahi S. Maina, Juma K. Kelvin, Mwangi B. Maina, Njagi J. Muriithi, Mworja J. Kiambi, Aliyu Umar, Mwonjoria K. John, Njoroge W. Ann, Mburu N. David, **Ngugi M. Piero** (2015). Antinociceptive Properties of Dichloromethane:Methanolic Leaf and Root Bark Extracts of *Carissa edulis* in Rats. *The Journal of Phytopharmacology*, 4(2): 106-112
- Gitahi S Maina, Mwangi B Maina, Njagi J Muriithi, Mworja J Kiambi, Juma K Kelvin, Aliyu Umar, Mwonjoria K John, Njoroge W Ann, **Ngugi M Piero**, Mburu N David (2015). Antipyretic Properties of Dichloromethane:Methanolic Leaf and Root Bark Extracts of *Carissa edulis* in Rats. *Asian Journal of Biomedical and Pharmaceutical Sciences*, 5(43): 12-20. doi: 10.15272/ajbps.v5i43.681.

2014

- **MN Piero**, GM Nzaro and JM Njagi, (2014). Diabetes Mellitus – A Devastating Metabolic Disorder. *Asian Journal of Biomedical and Pharmaceutical Sciences*, 04(40):1-7

7.2 Book Chapter

- Richard Oduor, **Mathew Ngugi**, Vivian Tuei, Trizah Milugo and Joel Ochieng (2015). Chapter Title: How Ready is Sub-Saharan Africa to Adopt Biotech Crops? Lessons from Kenya (Chapter Six). In: Emma Arogundade (2015): USHEPiA Crossing Boundaries: Knowledges from the Continent. Siber Ink, South Africa, ISBN: 9781928309079.

8.0 CONFERENCES AND WORKSHOPS

- **Muchemi PK**, Kamau JW, **Nchore SB**, **Ngugi MP**, Kimaru, SK. 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.
- Muchemi PK, Kamau JW, **Nchore SB**, **Ngugi MP**, Kimaru, SK. Mwangi. JW, Joyce W, Florence M, Munguti F. (2019.). 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.

- Muchemi PK, Kamau, JW, Nchore SB, Omwoyo RO, Kimaru SK, **Ngugi MP**, (2019). 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.
- Muchemi PK, Kamau, JW, Nchore SB, **Ngugi MP**, Omwoyo RO, Kimaru SK. (2018). Use of low Tissue Culture Technology Towards Food Sustainability in Kenya. RUFORUM Biennial Conference
- Muchemi PK, Kamau JW, **Ngugi MP**, Nchore SB. *Mwangi. JW (2018) The Currents Status of Maize Lethal Necrosis Disease in Nyandarua County, Kenya*. Horticultural Association of Kenya

9.0 NETWORKING AND COLLABORATION WITH EXTERNAL ORGANIZATIONS

- **2018 to date:** Carrying out a joint research with Jomo Kenyatta University of Agriculture and Technology (JKUAT) and Pwani University on “Pathogen Diversity, Host-Plant Resistance and Disease Management Strategies of Finger Millet Blast in Kenya”
- **2016 to date:** Carrying out a joint research with Agricultural Research Council (ARC) of South Africa on “Proteomics and Contained Laboratory Assessment of Locally Developed Transgenic Drought Tolerant Maize”

10.0 EXTERNAL AND INTERNAL GRANTS

- **2018 to date:** Awarded Ksh 1 Million (as a Principal Investigator) by Kenyatta University under Vice chancellor’s Research Grant for research on “Advancing Locally Developed Biotech Drought Tolerant Maize towards Commercialization for Enhanced Food Security”
- **2018 to date:** Jointly awarded Ksh 17,505,000 (as a Co-Principal Investigator) from National Research Fund, Kenya to undertake a Multi-Disciplinary Research on “Pathogen Diversity, Host-Plant Resistance and Disease Management Strategies of Finger Millet Blast in Kenya”
- **November, 2016:** Awarded KSh 3 Million research grant from the 5th Kenya-South Africa Joint Call for proposals awarded by the National Research Fund (NRF) of Kenya and National Research Foundation (NRF) of South Africa

11.0 LOCAL, REGIONAL AND INTERNATIONAL APPOINTMENTS

11.1 External Examiner in other Universities

- **2020 to date:** External Examiner, Uzima University, School of Medicine
- **2018 to date:** External Examiner, Technical University of Mombasa, Department of Pure and Applied Sciences.

- **2016 to 2018:** External Examiner, Jomo Kenyatta University of Agriculture and Technology (JKUAT), Mombasa CBD Campus
- **March, 2016:** Dphil Thesis external Examiner, Department of Pharmacy, University of Zimbabwe.

11.2 Review of Professional Periodicals

- **2021 to date:** Editorial Board Member, Advances in Clinical Toxicology (ACT) <https://medwinpublishers.com/open-access.php>
- **2020 to date:** Editorial Board Member, Journal of Advanced Biotechnology and Experimental Therapeutics (JABET) <https://www.bsmiab.org/iabet>
- **2016 to date:** Editorial Board Member, *Archives of Microbiology and Immunology*

11.3 Appointment to Boards

- **January, 2017:** Appointed Chairman, Board of Management of S.A Gikuyari Day Secondary School
- **March, 2019:** Reappointed Chairman, Board of Management of S.A Gikuyari Day Secondary School
- **January, 2016:** Appointed Member, Board of Management of Gitiburi Day Secondary School
- **March, 2019:** Appointed Chairman, Board of Management of Gitiburi Day Secondary School

12.0 AWARDS/RECOGNITION

- **10th September, 2002:** Awarded Msc Scholarship by Kenyatta University
- **12th October, 2002:** Awarded a Certificate of Merit by the Biochemical Society of Kenya (BSK) for being the Best Overall Biochemistry student in Kenyatta university in 2001/2002 Academic year.
- **2nd February, 2007:** Awarded PhD Scholarship by Danish International Development Agency (DANIDA)
- **23rd December, 2012:** Awarded a Scientific Credit certificate by OMICS Publishing Group as a prestigious author in the Journal of Diabetes and Metabolism whose paper had the highest number of full text downloads and citations

13.0 COMMUNITY OUTREACH

- Chairman, Kenyatta University Biochemistry and Biotechnology Staff Welfare Association (KUBBSWA)
- July, 2014: Chief Guest, Prize Giving Day at Mt. Kinangop Girls' Secondary School
- Chief Guest in several fundraisers to raise money for schools, churches and needy students
- Routine delivery of motivation talks to high school students and youth

14.0 ACADEMIC LEADERSHIP

14.1 Development of Teaching/Academic Programmes at Kenyatta University

- **2015:** Review of Bsc (Biochemistry) and Bsc (Molecular and Cellular Biology) programmes
- **2016:** Review of Bsc (Forensic Science) programme
- **2011:** Development of Diploma (Forensic Science) and Postgraduate Diploma (Forensic Science) Courses

14.2 Developing Programmes External to Kenyatta University

- **2014:** Developed Bsc (Forensic Science) Curriculum for the University of Rwanda to be offered to Senior Police Officers at Rwanda National Police College

14.3 Leading Research Project

- **March, 2017:** Principal Investigator for a collaborative research project funded by The National Research Fund (NRF) of Kenya and National Research Foundation (NRF) of South Africa on “Proteomics and Contained Laboratory Assessment of Locally Developed Transgenic Drought Tolerant Maize”
- **August, 2017:** Principal Investigator for research on “Advancing Locally Developed Biotech Drought Tolerant Maize towards Commercialization for Enhanced Food Security” funded under Vice chancellor’s Research Grant in Kenyatta University

15.0 OTHERS

15.1 Membership to Professional Bodies

- **January, 2015 to date:** Member, Kenya Chemical Society
- **2002 to Present:** Member, Kenya Biochemical Society

16.0 REFEREES

1. Prof. Michael Gicheru
Associate Professor and Dean, School of Pure and Applied Sciences,
Kenyatta University,
P.O Box 43844-00100, Nairobi.
Email Address: gicheu.michael@ku.ac.ke
2. Dr. John Maingi,
Lecturer and Director, Technical and Vocational Education Training (TVET)
Kenyatta University,
P.O Box 43844-00100, Nairobi.
Email Address: maingi.muthini@ku.ac.ke

3. Prof. Alex K. Machocho,
Associate Professor, Department of Chemistry,
Kenyatta University,
P.O Box 43844-00100, Nairobi.
Email Address: machocho.alex@ku.ac.ke