

CURRICULUM VITAE

Personal Information

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Sex: Male | **Date of birth:** 27/10/1982 | **Nationality:** Kenyan | **Marital Status:** Married

Qualification: PhD | **Specialization:** Biotechnology

Research Interests: Medical Biotechnology and Biochemistry

Academic and Professional Qualifications

2016 - 2021 **PhD (Biotechnology)** - Kenyatta University, Nairobi, Kenya

2013 - 2015 **MSc (Biotechnology)** - Kenyatta University, Nairobi, Kenya

2009 - 2012 **B. Ed (Science)** - Mt. Kenya University, Thika, Kenya - First class honors

Expertise; Research Interests

Phyto-therapeutics - Medical Biotechnology - (*In vitro* laboratory assays viz; enzyme assays, anti-oxidant assays, anti-diabetic assays, anti-pyretic assays, anti-nociceptive assays and anti-inflammatory assays. *In vitro* Laboratory assays viz; enzyme assays, antioxidant assays

Ethobotany and Phytochemistry: Ethnosurveys; Botanical techniques; Aqueous and Organic solvent extractions; phytochemical profiling by GC-MS/ LC-MS; Bioassay-guided fractionation

Natural Products - Bio-pesticides for Food Security (Bio prospecting for Anti-feedant, Repellency assays, Toxicity assays, Oviposition inhibition assays)

Publications and Research Articles

1. **Gitahi S. Maina**, Mwangi B. Maina, Njagi J. Muriithi, Mworio 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
2. Muriithi NJ, **Maina GS**, Maina MB, Kiambi MJ, Kelvin JK, *et al.* (2015) Determination of Hematological Effects of Methanolic Leaf Extract of *Vernonia lasiopus* in Normal Mice. *Journal of Blood Lymph*, 5: 139. doi:10.4172/2165-7831.1000139
3. Juma KK, **Maina SG**, Muriithi JN, Mwangi BM, Mworio KJ *et al.* (2015). Protective Effects of *Urtica dioica* and Cimetidine® on Liver Function Following Acetaminophen Induced Hepatotoxicity in Mice. *Journal of Developing Drugs*, 4: 130. Doi:10.4172/2329- 6631.1000130
4. **Gitahi S. Maina**, Juma K. Kelvin, Mwangi B. Maina, Njagi J. Muriithi, Mworio 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. *Journal of Phytopharmacology*, 4 (2): 1-7
5. Mwangi B. Maina, **Gitahi S. Maina**, Njagi J. Muriithi, Mworio 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*, Vol 7, Issue 3, 83-87

6. Abdirahman YA, Juma KK, Mukundi MJ, **Gitahi SM**, Agyirifo DS, Ngugi PM, Gathumbi PK, Ngeranwa JJN and Njagi ENM. (2015). Hypoglycemic activity and safety of aqueous stem bark extracts of *Acacia nilotica*. *Journal of Drug Metabolism and Toxicology* 6(4): 1-9. doi:10.4172/2157-7609.1000189
7. Njoroge W Anne, Ngugi M Piero, Aliyu Umar, Matheri Felix, **Gitahi S Maina**, Mwangi B Maina, Njagi J Muriithi, Mworio 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
8. Maina MB, **Maina GS**, Muriithi NJ, Kiambi MJ, Umar A, et al. (2015). Antinociceptive Properties of Dichloromethane: Methanolic Leaf Extracts of *Caesalpinia volkensii* and *Maytenus obscura* in Animal Models. *Journal of Pain and Relief*, 4: 191
9. Mworio J. Kiambi, **Gitahi S. Maina**, Njagi J. Muriithi, Mwangi B. Maina, Juma K. Kelvin, Aliyu Umar, Njoroge W. Ann, Mwonjoria K. John, Ngugi M. Piero, Ngeranwa N. Joseph. (2015). Analgesic properties of acetone leaves extract of *Caesalpinia Volkensii* in mice. *Pharmaceutica analyticaacta*, 6 (11): 1-5
10. Muriithi J Njagi, **Gitahi S. Maina** Mwangi B. Maina, Mworio J. Kiambi, Juma K. Kelvin, Aliyu Umar, Mwonjoria K. John, Njoroge W. Ann, Abdirahman, YA, Ngugi M. Piero, Njagi N.M. Eliud (2015). Determination of Hematological effects of methanolic leaf extract of *S. incanum* in normal mice. *Journal of Pharmaceutica analyticaacta*. 6 (10):1-4: doi: 10.4172/2153- 2435.1000429
11. Mworio JK, **Gitahi SM**, Juma KK, Njagi JM, Mwangi BM, Aliyu U, Njoroge WA, Mwonjoria KJ, Wavinya DN, Ngugi MP, Ngeranwa NJ. (2015). Antinociceptive activity of acetone leaf extract of *Carissa spinarum* in mice. *Medicinal and Aromatic plants*.S1-006: 1- 4: doi: 10.4172/2167-0412.S1-006
12. Aliyu Umar, Ngugi M Piero, Allan J M gutu, Njoroge W Ann, **Gitahi S Maina**, Mwangi B Maina, Njagi J Muriithi, Mworio J Kiambi, Ngure G Mutero and Mwonjoria K John.(2015). Bio Efficacy of Aqueous Crude Fruit Sap Extract of *Solanum incanum* against Green Peach Aphids *Myzus persicae* Sulzer (Homoptera: Aphididae). *Journal of Entomology Ornithology and Herpetology*, 5: 169. doi:10.4172/2161-0983.1000169
13. 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*. *Journal of Diabetes Metabolism*, 6(9): 1-11. doi:10.4172/2155-6156.1000601
14. Aliyu Umar, Allan J M gutu, Ngugi M Piero, Njoroge W Ann, **Gitahi S Maina**, Mwangi B Maina, Njagi J Muriithi, Mworio 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: 142. doi:10.4172/2329-6631.1000142
15. Kaguchia S. Muchiri, **Gitahi S. Maina**, Thoruwa L. Caroline, Birgen K. Jonah. (2018). Bio efficacy of Selected Plant Extracts against *Sitophilus zeamais* on Post-Harvest Management of *Zea mays*. *Journal of Phytopharmacology*, 7(4):384-391
16. **Stephen Maina Gitahi.**, Mathew Ngugi Piero., David Nganga Mburu and Alex Kingori Machocho (2021). Repellent Effects of Selected Organic Leaf Extracts of *Tithonia diversifolia* (Hemsl.) A. Gray and *Vernonia lasiopos* (O. Hoffman) against *Sitophilus zeamais* Motschulsky

(Coleoptera: Curculionidae). *Scientific World Journal*. Article ID 2718629, 13 pages
<https://doi.org/10.1155/2021/2718629>

17. Susan Nyawira Kimuni¹, **Stephen Maina Gitahi**, Eliud Mwaniki Njagi, Mathew Piero Ngugi (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 eISSN: 2616-4760, <https://doi.org/10.5455/jabet.2021. d135>

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