

## Dr. Muo Kasina

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### PERSONAL INFORMATION

Marital status	Married
Nationality	Kenyan
Areas of specialization	Entomology; Economic entomology, pollination and pest management

### HIGHER EDUCATION

*University of Bonn, Germany*

#### **PhD. Agricultural Sciences**

**2007**

Thesis: 'Bee pollinators and economic importance of pollination in crop production: case of Kakamega, Western Kenya'

*University of Nairobi, Kenya*

#### **MSc. Agricultural Entomology**

**2004**

Thesis: "Management of flower thrips (Thysanoptera: Thripidae) pests of French beans (*Phaseolus vulgaris* L.) at Mwea-Tebere, Central Kenya'

*University of Nairobi, Kenya*

#### **BSc. Agriculture**

**2000**

Areas covered: Crop protection, Crop science, Agriculture economics, Animal production, Soil science

Project: "Screening commercially available cucumber seeds for seed borne viral inoculum at Kabete campus, University of Nairobi"

### EXPERIENCE

*Kenya Agricultural Research Institute (KARI), Kabete, Nairobi*

**Jan 2008 onwards**

#### **Positions**

**Principal Research Officer**, Biotechnology and Crop Health

**Oct 2009-Current**

**Senior Research Officer**, Biotechnology and Crop Health

**Jan 2008-Sep 2009**

#### **Areas of research:**

1. Bee utilization in agriculture (management, beekeeping and other pollinators)
2. Pest management of agricultural crops
3. Application of bioinformatics in pest and bee research
4. Economic assessments and aspects of climate change in relation to pests and bee research

### RESEARCH PROJECTS (GRANTS)

1. Knowledge management of pesticide risks to wild pollinators (Jan 2010-Dec 2013). Source of Funds, Dutch Ministry of Agriculture; Co-investigator
2. Bee research for development in Kenya. Source of funds: PPP (2008-onwards). Coordinator
3. Low cost pest exclusion and microclimate modification technologies for smallholder farmers in East and Western Africa. Source of funds: USAID CRSP (Oct 2010-Sep 2013), Co Investigator
4. Characterization of local Bt isolates against lepidopteran pests of maize in Kenya. Coordinator
5. Development and implementation of an Integrated Pest Management (IPM) system for thrips on snap beans (*Phaseolus vulgaris* L.) in Kenya. Source of funds: Ruforum (completed), Collaborator

### JOURNAL PUBLICATIONS

1. Hasheela, EBS, J Nderitu, F Olubayo and M **Kasina**, 2010. Evaluation of Cabbage Varietal Resistance against Diamondback moth (*Plutella xylostella*) Infestation and Damage, *Tunisian Journal of Crop Protection*, 5 (1): 91-98
2. Hasheela, EBS, J Nderitu, F Olubayo and M **Kasina**, 2010. Evaluation of Border Crops Against

- Infestation and Damage of Cabbage (*Brassica oleracea* var. *capitata*) by Diamondback Moth (*Plutella xylostella*) , *Tunisian Journal of Crop Protection*, 5 (1): 99-105
3. Nderitu J, F Mwangi, G Nyamasyo and M **Kasina**, 2009. Evaluation of cropping systems as a strategy for managing Snap bean flower thrips in Kenya, *International Journal of Sustainable Crop Production*, 4(6): 22-25
  4. Olubayo F, J Nderitu, A Kibaru, R Njeru, D Yobera and M **Kasina**, 2009. Utilization of border crops to manage aphid colonization and PVY incidence on potato (*Solanum tuberosum* L.). *International Journal of Sustainable Crop Production*, 4(5): 19-23
  5. **Kasina** M, J Nderitu, G Nyamasyo, C Waturu, F Olubayo, E Obudho and D Yobera, 2009. Within-plant distribution and seasonal population dynamics of flower thrips (Thysanoptera: Thripidae) infesting French beans (*Phaseolus vulgaris* L.) in Kenya. *Spanish Journal of Agricultural Research*, 7(3): 652-659
  6. Nderitu J, J **Kasina** and F Malenge, 2008, Evaluating border cropping system for management of aphids (Hemiptera: Aphididae) infesting okra (*Malvaceae*) in Kenya. *Journal of Entomology*, 5(4): 262-269. DOI: 10.3923/je.2008.262.269
  7. **Kasina** M, D Wittmann, and C Martius, 2007. Bees and farmers in Kakamega forest: Economics of pollination. *Apidologie* 38: 15 Doi: 10.1051/apido:2007030
  8. Nderitu JH, EM Wambua, FM Olubayo, JM **Kasina** and CN Waturu, 2007. Management of thrips (Thysanoptera: Thripidae) infestation on French beans (*Phaseolus vulgaris* L.) in Kenya by combination of insecticides and varietal resistance. *Journal of Entomology*, 4(6): 469- 473.
  9. Nderitu JH, EM Wambua, FM Olubayo, JM **Kasina** and CN Waturu, 2007. Evaluation of French bean (*Phaseolus vulgaris* L.) cultivars and breeding lines for resistance to thrips (Thysanoptera: Thripidae) pests in Kenya. *Journal of Entomology*, 4(3): 202-209.
  10. **Kasina** J, J Nderitu, G Nyamasyo, F Olubayo, C Waturu, E Obudho and D Yobera, 2006. Evaluation of companion crops for thrips (Thysanoptera: Thripidae) management on French bean, *Phaseolus vulgaris* (Fabaceae). *International Journal of Tropical Insect Science*, 26(2), 121-125.

#### BOOKS AND CHAPTERS IN BOOKS

1. Nderitu, J.H., G. Nyamasyo and J.M. **Kasina**, 2008. *Agricultural Entomology: Practical aspects of agricultural entomology (learning agricultural entomology through practice)*. Equatops Trading (publishing division), Nairobi Kenya. ISBN 996605121-X
2. **Kasina**, M.J., J. Mburu and K. Holm-Mueller, 2008. Measuring economic value of crop pollination service: An empirical application of contingent valuation in Kakamega, Western Kenya: In *Payment for Ecosystem Services*, Kumar P, and R Muradian (eds), Oxford University Press, India. chap 6 pp 105-127. ISBN 9780195698749
3. **Kasina**, J.M. 2007. Bee pollinators and economic importance of pollination in crop production: case of Kakamega, western Kenya. Edited by Vlek, P.L.G., M. Denich, C. Martius, C. Rodgers and N. van de Giesen. *Ecology and Development Series Bd. 54*. ISSN 1864-0443; ISBN 978-3-940124-03-6