

DR JENARD PATRICK MBUGI

Department of Zoological sciences

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CURRICULUM VITAE

PERSONAL DATA

Date of Birth: 18th April. 1963

Place of birth: Embu County

Marital status: Married

Nationality: Kenyan

Profession: Agricultural Entomology

EDUCATION BACKGROUND

1971-1977	Gikiiro Primary school	CPE
1978-1981	Kangaru School	KCE- "O" level
1982-1983	Kangaru School	KACE- "A" level
1989-1992	Kenya University	B.Ed-Science
1985-1988	Kenya University	M.Sc
1995-1999	Kenya University	Ph.D

WORKING EXPERIENCE

1996-present	Lecturer	Kenyatta University
Sept.1992-1995	Tutorial Fellow	Kenyatta University
Jan-Aug, 1992	Lecturer	Kagumo College
1991	Graduate Assistant	Kenyatta University
May-Sept. 1988	Graduate Teacher	Kiini Sec. School
May-July. 1987	Teaching Practice	Nguvu Girls Sec. School
1985-April 1985	Untrained Teacher	Londiani Sec. School

CURRENT DEPARTMENTAL RESPONSIBILITIES

1. Lecturing and supervising students in the department of Zoological Sciences
2. Head of Bsc Biology programme
3. Academic advisor of 400 series
4. Chairman Field course committee
5. Fourth year project coordinator
6. Head departmental seminar committee
7. Member of the following departmental committees: Post-graduate studies committee, Examination moderation committee, Museums committee, Exhibition and publicity committee, Non-academic staff appraisal and remuneration committee, Quality management system team, Research and innovation committee, Board of undergraduate studies

CURRENT SCHOOL RESPONSIBILITIES

1. Represent our department in Travel and Grant's committee within School of Pure and Applied Sciences

PREVIOUS DEPARTMENTAL RESPONSIBILITIES

1. Vice-Chairman departmental welfare committee

2. Assistant departmental time-tabler
3. Assistant departmental examinations officer
4. Chairman bee-keeping committee
5. Academic advisor of 300 series

STUDENTS SUPERVISION: COMPLETED

1. Malusha J.M. MPH (2007). Factors influencing mosquito net acquisition, treatment and utilization among caregivers of under fives in makueni District, kenya
2. Ndathi O. K. Msc (2002). Effects of crude extracts from *Melia volkensii* (Gurke) plant on feeding, food utilization, growth and fecundity of the desert locust, *Schistocerca gregaria* (Forskal)
3. Catherine Gitau PhD
4. Reginald S.K. MSc (2017). Distribution, abundance, population ratios and acoustic behaviour of *Conocephalus maculatus* (Orthoptera: Tettigoniidae) in Kagera region North-Western Tanzania.
5. Muturi J.JPhD (2011). Influence of land use practices on the abundance and diversity of collembolan in Embu and Taita, Kenya
6. Florence
7. Catherine
8. Masika
9. Nyaga J.K. MPH (2020). Strategies for addressing barriers to effective participation of faith- based organizations in the control of HIV-AIDS in Nairobi City County. Kenya.
10. Sammy K.C. MSc (2020). Evaluation of Varroa –specific hygienic behavior in *Apis mellifera scutellata* colonies in Kenya.
11. Christine wanjala
12. Ototo Edna

STUDENTS SUPERVISION: ONGOING

1. Rungua C.R.
2. Gitonga A.W
- 3.

FURTHER TRAININGS ATTENDED

1. Teaching methodology-covered teaching methods, setting of exams, administration of exams , marking and analysis of scores.

ASSOCIATION MEMBERSHIP

1. Entomological Society of Kenya (ESK)
2. East African Natural History Society of Kenya (EANHS)
3. Kenya DAAD Scholars Association (KDSA)
4. Kenya Society for the Protection and Care of Animals (KSPCA)
5. Association of Kenyan Acarologists (AKA)
6. University Academic Staff Union (UASU)-Serve as a delegate

COMMUNITY SERVICE/EXTRA-CURRICULAR ACTIVITIES

1. Served as a member of BOM of Nyangwa Boys High School, Embu County.
2. Served as a member of BOM of Kiamuringa Sec. School, Embu County.
3. Served as a member of BOM of Kenya Institute of Development studies (KIDS), Nairobi County.
4. Currently serving as a member of BOM of Kangungi Sec. School, Embu County.
5. Chairman KU Embu Staff welfare Association (KUESWA)
6. Served as Secretary KU zoology Staff welfare Association

LANGUAGES

1. English-Written and Spoken
2. Kiswahili-Written and Spoken
3. Vernacular

RESEARCH INTERESTS

1. Host plant resistance to insects with emphasis on the role played by secondary plant metabolites
2. Use of ecologically safe insect pest control methods viz: biocontrol, use of botanical insecticides, cultural control methods, and how all these can be used in integrated pest management.

3. Insect movement: study of both short and long –range movements using mark-release-recapture experiments, screening for various insect marking techniques.
4. Investigating Hopkin’s Host Selection Principle (Pre-emerginal conditioning)-how the host plant larval food influences feeding and oviposition by adult insects.
5. Biodiversity and its conservation with emphasis on insects and other arthropods as ecological models.

PUBLICATIONS

1. Sammy, C; Mbugi, J.P.; Kahuthia-Gathu, R.; Lattorf, H.M.G. and Muli, E. (2018). *Varroa* – specific hygiene behavior of *Apis mellifera scutellata* in Kenya, *Apidologie* (49) 4.
2. Ototo, E.N ; Mbugi, J.P.; Wanjala, C.L.; Zhou, G. and Kamau, L.; Machani, M.; Atieli, A.; Githeko, A.K and Yan, G. (2017). Age-specific *Plasmodium* parasite profile in Pre-and Post-ITN intervention period at a highland site in Western Kenya. *Malaria Journal* 16 (466).
3. Ototo, E.N ; Mbugi, J.P.; Wanjala, C.L.; Zhou, G.; Kamau, L.; Machani, M.; Atieli, A.; Githeko, A.K and Yan, G. (2017). Surveillance of Malaria vector population density and biting behavior in Western Kenya. . *Malaria Journal* 14 (244).
4. Wanjala, C.L.; Ototo, E.N. ; Mbugi, J.P.; Zhou,G.; Simbauni, J.A.; Gesuge, M.; Atieli, A.; Githeko, A.K., Afrane, Y.A. and Yan, G. (2015). Insecticidal decay effects of long-lasting insecticide nets and indoor residual spraying on *Anopheles gambiae* and *An. arabiensis* in Western Kenya. *Parasites and Vectors* 8 (88).
5. Masiga, R. ; Mbugi,J.P.; Vaissiere, B.E.; Kasina, M.; Odhiambo, C.; Kinuthia, W.M..; and Gemmill-Herren, B. (2014). Do French beans (*Phaseolus vulgaris* L.) grown in proximity to Mt. Kenya forest experience pollination deficit?. *Journal of pollination ecology* 14: 255-260.
6. Ndenga, B.A.; Simbauni, J.A. ; Mbugi, J.P.; Githeko, A.K. and Fillinger, U. (2011). Productivity of Malaria vectors from different habitat types in the Western Kenya highlands. *PLoS ONE* (6) 4.
7. Muturi, J.J.; Mbugi, J.P.; Mueke, J.M., Langerlof, J., Munguti, J.K., Nyamasyo, G. and Gikungu, M. (2010). Effects of integrated soil fertility management interventions on the

abundance and density of soil Collembola in Embu and Taita Districts, Kenya. *Tropical and Subtropical Agroecosystems*.13.

8. Muturi, J.J.; Mbugi, J.P.; Mueke, J.M., Langerlof, J., Munguti, J.K., Nyamasyo, G. and Gikungu, M. (2009). Collembola density and diversity along a gradient of land use-types in Embu district, Eastern Kenya. *Tropical and Subtropical Agroecosystems*.11.