

CURRICULUM VITAE

1. Personal Information

- A. **Name:** SYPRINE AKINYI OTIENO
- B. **Date and Place of Birth:** 16th March 1964 in Nyakach, Kisumu City County
- C. **Contact Address:** Department of Zoological Sciences,
Kenyatta University,
P.O.Box 43844-00100,
Nairobi, Kenya.
Tel. 254 (020)8703000 Ext. 4425
Cell: 0723-744909
- D. E-mail: otieno.syprine@ku.ac.ke; otienosyprine@gmail.com
- ORCID iD: <https://orcid.org/0000-0001-9236-0166>
- Google Scholar:
- D. **Language:** English (Written and spoken), Kiswahili and Luo
- E. **Gender:** Female
- F. **Marital Status:** Married with 4 children.

2. 0 Qualifications

(a) Academic Qualifications

(i) University Education:

1994-1998: Doctor of Philosophy (Animal Physiology, (Insect Physiology),

Kenyatta University (1998).

Thesis title

Factors affecting reproductive performance and effects of insect growth regulators on reproduction of *Glossina fuscipes fuscipes* Newstead.

1988-1991: Master of Science in Animal Physiology of Kenyatta University
Year of Award: 1992

Thesis title

Pheromones and other semiochemicals of the African Brown ear tick, *Rhipicephalus appendiculatus* Newmann.

1985-1988: Bachelor of Education (Science) of Kenyatta University. Upper 2nd
Class Hons. (Year of Award: 1988)
Subjects: Zoology, Botany and Education

Project title

Effects of testosterone and estradiol on the accessory reproductive organs of the male rat, *Rattus norvegicus*

(ii) Secondary Education

1982-1983: Mukumu Girls' High- Passed K.A.C.E with 3 Principles, 1 subsidiary. Subjects: Biology, Chemistry, Geography and General Paper.

1978-1981: Kisumu Girls' High- Passed K.C.E with 2nd Division.

(iii) Primary Education

1971-1977: Asumbi Mixed Primary School- Passed K.C.P.E.

(b) Professional Courses

2009-2010: Postgraduate Certificate in Academic Practice of York St John University. Awarded in September 2010

3. 0 Fellowships

African Regional Postgraduate Programme in Insect Science Scholarship offered by European Union through the International Centre of Insect physiology and Ecology (ICIPE) from 1994 to 1998.

4. 0 Work Experience

June 2012 to date: Appointed a Senior Lecturer in the Department of Zoological Sciences, Kenyatta University.

1996 to 2012: Worked as a Lecturer in the Department of Zoological Sciences, Kenyatta University.

Duties:

- Teaching and guiding postgraduate and undergraduate students.
- Supervision of postgraduate and undergraduate students' research.
- Handling administrative responsibilities

1992-1996: Appointed a Tutorial Fellow in the department of Zoological Sciences.

Duties:

Lecturing to undergraduate and postgraduate students

October 1990-1991: Appointed a Graduate Assistant in the department of Zoological sciences.

Duties:

- To assist in administering practicals to students
- To assist in marking practicals and examination scripts.

May to August 1988: I was employed by the Teachers Service Commission as a graduate teacher and posted to Nyabondo High School

5. 0 Administrative Responsibilities

I have served the Department of Zoological Sciences in the following capacities:

- Chairman, Departmental Board of Undergraduate Studies from 2008 to date.
- Coordinator, Departmental Examinations Moderation committee from 2001 to 2007.
- Member of the departmental Exhibitions committee from 2007 to date
- Departmental self-sponsored programmes coordinator from 2007 to 2009
- Member, Departmental Examinations Moderation Committee from 1998 to date
- Assistant Examinations coordinator from 1998 to 2001
- Field courses coordinator from 1998 to 2001

6.0 Postgraduate supervision

Ph D

- Robert Muniu (I84/0034/03): Effect of sports participation on Examination related stress among selected Kenyan Secondary schools. (Graduated in December 2009).
- Osero Justus O.S. (H87/10898/06). Health Consequences, Responses and Prevention Strategies of Sexual Based Violence among Survivors in Selected Hospitals in Kenya.
- Mukwabi D. M. (I84/23446/2010). Characterization of pathogens infecting cultured catfish and determination of susceptibility to commonly used drugs.

Masters

- Gitau, A.C.W. (I56/8712/99): Development Of the pupal parasitoid *Xanthopimpla stemmator* (Thunberg) (Hymenoptera: Ichneuminidae) in various cereal stem borers (Lepidoptera).(Graduated in December 2002).
- Aduda, D.O. (2005). Epidemiology of Hearing Impairment and impact on Sociocognitive performance of School-going children in Kisumu District, Kenya: Implications for Public Health Action.(Graduated in December 2005).
- Obadha, T. (2005). Assessment of Knowledge, attitude and Practices towards malaria Prevention and Control among Primary School Children in Busia District, Kenya (Graduated in December 2005).
- Ernest Baraza (I57/CM/0260/04): The prevalence, pattern and causes of visual impairment and blindness among primary school pupils in Kitale Municipality (To graduate in December 2011).

- Mboroki Silas Kinoti (I57/0128/03): Drug abuse and vulnerability to HIV and AIDS among adolescents in public secondary schools in Meru Central District, Kenya. (Graduated in July 2011).
- Njeru Samuel N. (I57/CM/0270/2004): Prevalence and pattern of significant refractive errors among high school students in Meru Municipality, Meru Central District, Kenya. (Graduated in December 2009).
- Kababu O. M.(I56/13771/05). Farmers' knowledge, effects of their practices and soil amendments on the management of sweet potato pests in South western Kenya.(Graduated in July 2010)
- Adhola, E.T. (I56/13046/05). Assessment of the potential for sport hunting of game birds with special emphasis on Guinea fowls in Laikipia District, Kenya. Graduated in December 2009).
- Henlay Juma Otieno Magara (I56/CE/11507/2008). Evaluation of the effect of herbivore induced plant volatiles from signal grass, *Brachiaria brizantha* on neighboring maize for cereal stemborer management (Graduated in July 2013).
- Kerubo J. O. (I56/ CE/ 11496/2008). Analysis of the utilization of food resources by the African wood mouse *Hylomyscus denniae endorobae* (Graduated in Dec, 2014).
- Odongo, K. O. (I56/CE/11500/2008). Levels of heavy metals in selected fish species along River Ruiru, Kenya. 2017

Ongoing Supervision

Ph. D

- Indetie, A. H. (I84/21977/2012). Metabolites and hormones as indicators of postpartum reproductive efficiency of pasture based Friesian Dairy cows in KARI-LANET.

Masters

1. On'geta M. K. (I56/24666/2012). Influence of heavy metals on the reproductive cycle of the tilapia *Oreochromis niloticus* in River Ruiru.
2. Kwoba, M. (I56/CE/20202/2012). Effects of soy nutritive additives on estrogen levels in blood, eggs and excreta of commercial kienyeji improved chicken.
3. Matheka, E. K. (I56/CE/23943/2012). Reproductive performance of Kenyan indigenous breeds of chicken fed on commercial feeds supplemented with inorganic manganese.

7.0 Conferences/Workshops

7.1 Attendance of Conferences

Second Kenya DAAD Scholars' Association (KDSA) conference held from 4th -6th October 2017, Mt. Kenya Regional Alumni chapter. Theme: University-Industry linkages: Identifying and Synergizing Opportunities for Quality Education. Meru University of Science and Technology, Kenya.

Kenya DAAD Scholars' Association conference held from 28th -29th May 2015, Kenyatta University Conference Centre, Nairobi, Kenya. Theme: Kenya's Constitutional Provisions and the Citizen's Rights: Are we on Track?

Kenya DAAD Scholars' Association conference. Theme: African Cities of the Future: Smart, Sustainable, Participatory. Held from 30th – 31st May 2013 at The Safari Park Hotel, Nairobi, Kenya.

First East African Regional Scientific Conference of Pure and Applied Sciences held from 10th -14th August 2010 at the Kenyatta University Business and Students' Service Centre Conference Room, Kenyatta University, Kenya.

Kenya DAAD Scholars' Association conference. Theme: Integrating Scientific and Technological Solutions for Socio-Economic development of the Lake Victoria Basin, held from 24th to 26th February 2010 at Bondo University College and Lake Breeze Hotel, Bondo, Kenya.

Kenya DAAD Scholars' Association conference held on 12th June 2009, Masinde Muliro University of Science and Technology, Bishop Stam Conference Centre, Kakamega, Kenya.

African Regional Postgraduate Programme in Insect Science Scientific conference held from 25-28 November 2008, the ICIPE, Dugway, Nairobi, Kenya.

7.2 Presentation of Papers at Academic and Professional Conferences

Otieno, S.A., Odongo, K. and Sharma, R. R. (2017). Levels of heavy metals in selected tissues of *Clarius gariepinus* and *Oreochromis niloticus* along River ruiru, Kiambu County, Kenya. Paper presented at the 2nd Kenya DAAD Scholars' Association (KDSA) conference held from 4th -6th October 2017, Mt. Kenya Regional Alumni chapter. Theme: University-Industry linkages: Identifying and Synergizing Opportunities for Quality Education. Meru University of Science and Technology, Kenya.

Otieno, S. A. (2016). Implications of prompt feedback in higher education in devolved systems of government. Paper presented at the International Conference on Higher Education under devolved systems of Government. February 2016, Karatina University, Kenya.

Otieno. S.A., Oguge, N.O and Saini, R. K. (2009). Evaluation of the effects of the juvenile hormone analogue W-328 on pharate adult development in the tsetse fly *Glossina fuscipes fuscipes* Newstead (Diptera: Glossinidae). Paper presented at the DAAD conference held from 11th to 12th June 2009, Masinde Muliro University of Science and Technology, Bishop Stam Conference Centre, Kakamega, Kenya.

Otieno, S.A. (2010). Enhancing the quality of girls' education in Nyanza Province. Paper presented at a conference held on 16th April 2010 at Bondo University College, Bondo, Kenya. Theme: Integrating Scientific and Technological Solutions for Socio-Economic development of the Lake Victoria Basin.

Workshops

1999: Workshop on Research Management in Agricultural research Institutes held in Mhlume, Swaziland, October, 1999.

Coordinating Conferences

2011: I was part of local organizing committee of the African Association of Insect Scientists (AAIS) held from 9-12 November 2011 at the ICIPE, Duderuville, Nairobi, at the Thomas Odhiambo Memorial Hall, ICIPE.

2010: 1st East African Regional Scientific Conference of Pure and Applied Sciences held from 10th -14th August 2010 at the Kenyatta University Business and Students' Service Centre Conference Room, Kenyatta University, Kenya. (Coordinating registration of participants)

Articles in Refereed Journals

Joint Publications

Ong'eta, M. K., **Otieno, S. A.** and Simbauni, J. A. (2020). Association between heavy metals and selected reproductive parameters in the Nile tilapia *Oreochromis niloticus* along River Ruiru, Kiambu County, Kenya. *J. Applied Life Sciences International*, 23 (9), 31-44.

Henlay J.O. Magara, Midega A.O. Charles, Syprine A. Otieno, Daniel M. Mutyambai, Teresia M. Nyaga, Saliou Niassy and Zeyaur R. Khan. (2020). Responses of stemborer *Chilo partellus* to volatiles emitted by maize landraces exposed to Signal Grass (*Brachiaria brizantha*). *Journal of Plant Interactions* 15 (1), 345-357.

Mukwabi, D. M., **Otieno, S. A.**, Okemo, P. O., Oduor, R. O. and Agwanda, B. (2019). Parasites infesting Nile tilapia grown in aquaculture systems in Kenya. *Livestock Research for Rural Development* 31 (2)

Opondo, J. O., **Otieno, S. A.** Oduor, R. O. (2019). Effect of Indomethacin on Trypsin activity in the Norway rat, *Rattus norvegicus*. (Rodentia: Muridae). *International Journal for Scientific Research and Development* 7 (8).

Hoka, A. I., Gicheru, M. and **Otieno, S. A.** (2019). Effect of Cow Parity and Calf Characteristics on Milk Production and Reproduction of Friesian Dairy Cows. *Journal of Natural Science Research* 9 (10), 41-46. DOI: 10.7176/JNSR.

Hoka, A. I., Gicheru, M., **Otieno, S. A.** and Korir, H. (2019). Effect of Gamma Irradiation of Local *Brachiaria ruziziensis* (German and Evrard) seeds on Agronomic performance and yield. *Journal of Plant Breeding and Genetics* 07 (01). 09-17.

DOI: 10.33687/phg.007.01.2836.

Mukwabi, D. M., Okemo, P. O., **Otieno, S. A.**, Oduor, R. O. and Macharia, C. M. (2019). Temperature and pH Influence on bacterial pathogens infecting farmed Nile tilapia in aquaculture systems in Bungoma County, Kenya. *International Journal of Fisheries and Aquatic Studies* 7 (1) 190-197.

Osero, S. O. J., Keraka, M. N. and **Otieno, S. A.** (2019). Health Implications of sexual violence among Survivors in selected Health facilities in Kenya: Are there gender Disparities? *Journal of Health, Medicine and Nursing* 66, 23-37. DOI:10.7176/JHMN

Too, C., Kamau, L. and **Otieno, S. A.** (2017). Prevalence of Amoebiasis among patients attending Longisa County Hospital, Bomet County, Kenya. *International Journal of Sciences: Basic and Applied Research. Vol 36 (8), pp. 53-61.*

Otieno, S.A., Oguge, N.O. and Saini, R.K. (2017). The juvenile hormone analogue W-325 affects development and emergence in the tsetse fly *Glossina fuscipes fuscipes* (Diptera: Glossinidae). *International Journal of Sciences: Basic and Applied Research. Vol 35 (3), pp. 405-412.*

Otieno, S. A., Sharma, R. R. and Ouma, O. K. (2016). Levels of heavy metals in the tilapia *Oreochromis niloticus* and *Clarias gariepinus* along River Ruiru, Kenya. *Researchjournal's Journal of Ecology*, 3 (3), pp. 1-14.

Kerubo, J.O., **Otieno, S.** and Kamau, L. (2015). Analysis of utilization of food resources by the African wood mouse *Hylomyscus denniae endorobae* (Rodentia: Muridae) from Ihururu Forest, Kenya. *Asian Journal of Conservation Biology. Vol. 4 (1), pp. 37-42*

Magara, H. J. O., Midega, C. A. O., **Otieno, S. A.**, Ogol, C. K. P. O., Bruce, T. J. A., Pickett, J. A. and Zeyaur R. Khan, Z. R. (2015). Signal grass (*Brachiaria brizantha*) oviposited by stemborer (*Chilo partellus*) emits herbivore-induced plant volatiles that induce neighbouring local maize (*Zea mays*) varieties to recruit cereal stemborer larval parasitoid *Cotessia sesamiae*. *International Journal of Sciences: Basic and Applied Research*, Vol. 19, (1), pp 341-357

Osero, J. S. O., Keraka, M. N. and **Otieno, S. A.** (2012). Health consequences of sexual based violence among survivors in selected hospitals in Kenya. *Asian Journal of Pharmaceutical and Health Sciences*, Vol. 2 (3), pp. 398-404.

Otieno, S. A., Saini, R.K., Oguge, N.O and Sharma, R.R. (2011). Mating and Fecundity of two populations of *Glossina fuscipes fuscipes* Newstead (Diptera: Glossinidae). *J. Natcon* 23 (1) 51-60.

Njeru, S.N., **Otieno, S.A.** and Karimurio, J. (2009). Prevalence of significant refractive errors in high school students, Meru Municipality, Kenya. *East African journal of Ophthalmology*, 15, 40-45

Gitau C.W, Ngisong, A.J, **Otieno, S.A** and Overholt, W.A (2007): Host preference of *Xanthopimpla stemmator* (Hymenoptera Ichneumonidae) and its reproductive performance on selected African Lepidopteran stemborers. *Biocontrol Science and Technology* 17(5): 499-511.

Omondi, D., Ogol, C., **Otieno, S.** and Macharia, I. (2007). Parental awareness of hearing impairment in their school-going children and healthcare seeking behavior in kisumu district, Kenya. *International journal of Pediatric Otorhinolaryngology* 71, 415-423.

Gitau C.W, Ngisong, A.J, Overholt, W.A and **Otieno, S.A** (2005): Acceptance and Suitability of four Lepidopteran stemborers for the development of the pupal parasitoid, *Xanthopimpla stemmator* (Hymenoptera Ichneumonidae) *Biocontrol Science and Technology* 15(6): 585-600.

Papers in Conference Proceedings

Gitau, C.W. , Ngi-Song, A. J. Overholt, W.A. and **Otieno, S.A.** (2002). Pupal parasitoids of sub-saharan African Stem borers and the potential for introduction of an exotic Species- *Xanthopimpla stemmator* Thunberg (Hymenoptera: Ichneumonidae). Paper presented at the Integrated Pest Management conference proceedings held from 8-12th September 2002, Kampala, Uganda.

National and International Recognition

National

- Member of the Board of Directors of the Kenyatta University Community Outreach and Extension Programme.
- Member of Board of Directors, St. Peter the Rock Inclusive Mixed Secondary School, County of Kisumu.
- External examiner for Jomo Kenyatta University of Agriculture and Technology (2015-2019)
- External examiner, University of Embu
- External examiner, Muranga University of Technology

International

External Examiner for Master of Science Thesis of the Walter Sisulu University for Technology and Science, South Africa.

Membership to Professional Bodies

- Fellow of the Higher Education Academy (Recognition reference: 42035)
- Kenya DAAD Scholars Association (KDSA)
- African Regional Postgraduate Programme in Insect Science (ARPPIS)
- African Association of Insect Scientists (AAIS)
- Association of Faculty Enrichment in Learning and Teaching (AFELT)