

CURRICULUM VITAE

Associate Professor Richard Echodu, PhD

A. PERSONAL INFORMATION

Work Address : **Gulu University Multifunctional Research Laboratories**

Faculty of Science, Gulu University,
P.O. Box 166, Uganda

Fax Number : +256-471-432094

Office telephone line: +256-471-43206

Mobile telephone line: +256-772-997925

E-mail: r.echodu@gu.ac.ug
richard_echodu@yahoo.co.uk
richardechodu2009@gmail.com

Place of birth: Soroti, Uganda

Nationality: Ugandan

B. EDUCATION

| YEAR | INSTITUTION | AWARD |
|-------------|--------------------------------|--|
| 2010-2013 | Gulu University | PhD (Molecular Genetics) |
| 2010-2012 | Yale University, USA | Postgrad Fellow Public Health |
| 2003-2006 | Makerere University | Masters of Science Degree in Molecular Biology |
| 1999-2002 | Makerere University | Bachelors Degree in Biomedical Sciences |
| 1997 – 1998 | St. Peter's College Tororo | Uganda Advanced Certificate of Education (UACE). |
| 1993 – 1996 | Teso College Aloet, Soroti | Uganda Certificate of Education (UCE) |
| 1984 - 1992 | Pioneer Primary School, Soroti | Primary Leaving Examinations (PLE) |

C. ADDITIONAL QUALIFICATIONS/TRAININGS

- August 2016. Grant Proposal and Journal Article Writing,

Scriptoria Limited UK

- January 2016. AgShareToday SharePoint online research-coordination platform, Bill & Melinda Gates Foundation, San Diego California USA,
- November- December 2015: Science Leadership and Management Training, Bill & Melinda Gates Foundation, Rwanda
- November 2014. Bill and Melinda Gates Foundation, San Diego California, USA, Leadership and Project Management
- January 2014. Bill and Melinda Gates Foundation, San Diego California, USA, proposal- writing workshop.
- August 2013, ILRI BecA Hub, Kenya/Bill and Melinda Gates Foundation, Agricultural Research Connection workshop.
- June 2013, ILRI BecA Hub, Ethiopia, Certificate in Laboratory Management and Equipment Operations.
- April –September, 2012 Yale University, Yale School of Medicine, USA, Pre-graduate fellow.
- March-December, 2010 Yale University, Yale School of Medicine, USA, Pre-graduate fellow.
- February 2011, Yale University USA and KARI –TRC, certificate in tsetse and Trypanosome Genomics.
- June 2005, Malawi College of Medicine, Certificate in laboratory techniques in Malaria vector identifications.
- July 2006, Human Frontier Science Program, Kampala, Uganda. Certificate in Advanced Bioinformatics and Post Genomic Molecular Cell Biology of African Trypanosomes and Malaria.
- November 2008, United Nation on Trade and Development programme, training held in Egypt, awarded a certificate in Biosafety and GMO detection.
- August 2009, Gulu University, certificate in Open Source GIS.
- September 2009, Yale University USA and NaLIRRI, certificate in Tsetse Vector Biology.
- May 2009, KARI-TRC, Certificate in tsetse and trypanosome molecular biology.

- October 2007, Rothamsted Research, UK, certificate in molecular diagnosis of viruses and Phytoplasmas.

D. RESEARCH INTEREST

My long-term research interests are in the broad area of epidemiology, population genetics, genomics, molecular diagnostics and immunology on diseases. The questions that interest me range from fine scale understanding of epidemiological processes of tropical diseases and new emerging diseases using the power of genomics, population genetics and immunology. I have had hands-on experiences in a number of research fields ranging from epidemiology of human diseases (SARS-CoV2 COVID-19, malaria and Human Africa Trypanosomiasis or sleeping sickness, genetics), animal diseases (Nagana, CBBP), plant diseases (Banana, Sweet potatoes and cassava bacterial and viral), food safety (mycotoxins/aflatoxins), vectors of human, animal, plant diseases (tsetse flies, black flies, white flies, mosquitoes), Genetic engineering/GMO productions, drug and insecticide resistances studies, development of innovative tools on diseases and vectors. I have had hands-on experiences in a number of research fields ranging from epidemiology of human diseases (SARS-CoV2/COVID-19, malaria and Human Africa Trypanosomiasis or sleeping sickness, genetics), animal diseases (Nagana, CBBP etc), plant diseases (Banana, Sweet potatoes and cassava bacterial and viral), food safety (mycotoxin aflatoxins), vectors of human, animal and plant diseases (tsetse flies, black flies, white flies, mosquitoes), Genetic engineering GMO productions, drug and insecticide resistances studies, developing of innovative tools to address diseases and vectors. My current active projects include; 1) Development of improved semiochemical prototypes and their integrated push-pull deployment in areawide control of tsetse flies in Eastern Africa; 2) Molecular Aspects of Tsetse and Trypanosome Transmission, 3) Holistic approach to combat mycotoxin contamination in Northern Uganda, 4) Capacity building reliable diagnostic and epidemiology tools to confront the spectre of a COVID-19 Epidemic in refugees communities in northern Uganda and many other small projects/grants. I have been able to establishing two new state of the art research laboratories at Gulu University from scratch in African environment. I have been able to supervise 4 PhD and 20 MSc Students to completion. I currently

supervise have 2 postdocs, 4 PhD and 8 MSc Students.. For many years now, I have built competence and an appropriate team of collaborators globally to benefit our studies, including scientists at Yale University, University of California Riverside and University of Notre Dame in the USA, Osaka University Japan, Gent University Belgium, Institute of Tropical Medicine Belgium, Cambridge University, Universities of Greenwich, Liverpool and Salford UK. I have also been able to build strong partnership with many institutions within African region. I benefited from Fogarty Global Infectious Disease training program at Yale University for my PhD studies. After completing my PhD, I chose to return back home in the post war conflict northern region of Uganda, which is the epic center of all tropical diseases and emerging diseases as it borders war torn countries of South Sudan, Democratic Republic of Congo with limited resources to tackle diseases. I have played and continue to play a critical role in the establishment of research capacity at Gulu University and African region. My short and long-term goals is to dedicate my scientific career to train, mentor and motivate young African scientists to become leaders in different fields in different countries. I will continue to provide leadership and an ideal environment for collaborative research at Gulu University with all our partners across the globe.

E. APPOINTMENTS

| | |
|-----------------|--|
| 2022 – Present | Associate Professor, Molecular Biology/Genetics |
| 2018 –Present | Director, Gulu University Multifunctional Science Research Labs. |
| 2014 – 2021 | Senior Lecturer, Molecular Biology/Genetics |
| 2014 – 2018 | Dean, Faculty of Science, Gulu University |
| 2013 - 2014 | Faculty Coordinator, In-charge Research, Gulu University |
| 2012 | Graduate Fellow, Department of Epidemiology and Public Health, Yale University, USA. |
| 2010 | Graduate Fellow, Department of Epidemiology and Public Health, Yale University, USA. |
| 2009 – May 2020 | Head of Bioscience Research Laboratories, Gulu University |
| 2009 – 2013 | Lecturer, Molecular Biology/Genetics, Gulu University |

| | |
|-------------|--|
| 2006 – 2009 | Research Assistant/Laboratory Manager, National Agricultural Research Laboratories Kawanda, Uganda |
| 2006 – 2007 | Part time lecturer, Makerere University, Faculty of Veterinary Medicine, Bachelor of Biomedical Laboratory Technology Programme. |
| 2002 – 2007 | Biotechnologist at National Livestock Resources Research Institute (NaLIRRI) Tororo, Uganda |
| 2002 | Volunteer at the Uganda Virus Research Institute Laboratories, Entebbe |
| 2002 | Internship Trainee, Nakasero Blood Bank Headquarters Laboratories, Kampala |
| 2001 – 2002 | Internship Trainee, Trypanosomiasis Referral Hospital, Tororo |
| 2001 | Internship Trainee, Soroti Regional Referral Hospital |
| 2000 | Internship Trainee, Faculty of Veterinary Medicine, Department of Parasitology & Microbiology, Makerere University Kampala |

F. Current Active Research Grant support

- I. Ambrose-Monell Foundation (USD 50,000), project entitled “Assessing the genomic-epidemiology of emerging artemisinin combination therapy resistance in districts within Acholi sub region” **Role: Co-Principal Investigator.** One year project (July 2022- June 2023).
- II. Uganda Government” (UGX 500,000,000), Development of rapid low-cost point-of-care nucleic acid diagnostic tools for Banana Xanthomona wilt, cassava mosaic disease and sweet potato viruses. **Role: Principal Investigator.** One year project (July 2022- June 2023)
- III. National Institute of health (USD 86,200), project entitled “Trypanosome Transmission Biology in Tsetse” **Role: Co-Principal Investigator.** Five year project (December 2021-November 2026
- IV. National Institute of health (USD 194,000), project entitled ““Molecular Aspects of Tsetse and Trypanosome Transmission” **Role: Co-Principal Investigator.** Five year project (Jan 2019- December 2023

- V. Bio-innovate Africa grant (USD \$1,000,000) entitled “Novel bio-rational products for controlling Tunigiiasis in East Africa” **Role: Co-Principal Investigator.** Three years January 2023 to January 2025
- VI. Holistic approach to combat mycotoxin contamination in Northern Uganda. Amount: Euros 300,000.00 Four Years, January 1st, 2018 to December 31, 2022. Funded by VLIR South Initiative. **Dr. Richard Echodu Role: Principal-Investigator**

Completed Research Grant Support

- I. Bio-innovate Africa grant (USD \$750,000) entitled “Development of improved semiochemical prototypes and their integrated push-pull deployment in areawide control of tsetse flies in Eastern Africa” **Role: Co-Principal Investigator.** Three years January 2019 to January 2022
- II. United Kingdom Research Council (£573,186), project entitled “Capacity building reliable diagnostic and epidemiology tools to confront the spectre of a COVID-19 Epidemic in refugees communities in northern Uganda” **Role: Uganda Team Leader Co-Principal Investigator. 18 months** project (Sept 2020- 2022).
- III. Royal Society of Tropical Medicine and Hygiene (December 2020-May 2021): Mining *Simulium* microbiomes for onchocerciasis control bioweapons. PI: Dr. Robert Opiro. **Dr. Richard Echodu, Co-Principal Investigator.**
- IV. Population dynamics of *Anopheles* mosquitoes and their level of insecticide resistance to pyrethroids in northern Uganda. Funded by DELTAS Africa Initiative grant # DEL-15-011 to THRIVE-2.. **Dr. Richard Echodu Role: Principal-Investigator (2018-2020)** Amount: Pounds 10,000.00
- V. Molecular and bio-chemical analysis of the mosquitoes. **Dr. Richard Echodu Principal Investigator.**, Gulu University, Uganda. Funder: Abt Associates Uganda, Funded by American Presidential Malaria Initiative CDC/USAID programme. Duration: Two Year, January 2018 –December 2019. Amount: USD\$60,000.00

- VI. Global Health Equity Scholars Program (NIH, 5D43TW010540) 07/2017-6/2022. Ko, Albert (MPI: Barry, Madhivanan, Riley). The goal of the project is focusing of training graduate students. Investigators Prof. Aksoy Serap, Dr. Weiss Brian, **Dr. Richard Echodu**, Prof. Matovu Enock.
- VII. Investigating the role of sandflies in the circulation of arboviruses in selected ecologies of Kenya. Funded by DELTAS Africa Initiative grant # DEL-15-011 to THRIVE-2. PI. David P Tchouassi, *icipe*. **Dr. Richard Echodu Role: Co-Investigator (2019-2020)** Amount: Pounds 10,000.00
- VIII. Trypanosome infection prevalence in the tsetse fly *glossina fuscipes fuscipes* and livestock reservoirs in a vector genetic transition zone in northern Uganda. Funded by DELTAS Africa Initiative grant # DEL-15-011 to THRIVE-2. PI Dr. Robert Opiro, **Dr. Richard Echodu Role: Co-Investigator (August 2019-October 2020)**: Amount: Pounds 10,000.00
- IX. Bill and Melinda Gates Foundation, Programme for Emerging Agricultural Research Leaders. **Dr. Richard Echodu (Principal Investigator)** project "Development and validation of a new diagnostic tool for detection and characterization of sweetpotato viruses in East Africa using next generation sequencing". Amount: USD\$500,000.00 Duration: Four Years, September 24, 2014 to March 30, 2019. Role, coordinating project activities in four countries; Uganda, Rwanda, Kenya and Tanzania.
- X. Implementation of alternative sampling strategies as tool for improving therapy of and insight into Nodding syndrome. (2017 - 2019) Funded by VLIR South Initiative. **Dr. Richard Echodu Role: Principal-Investigator**. Amount: Euros 65,000.00
- XI. Nodding syndrome: a possible relationship with mycotoxins? Funded by VLIR South Initiative. EUROS 72,000. **Dr. Richard Echodu Role: Field Coordinator and co-Investigator**. Duration: January, 2015 to December 30th, 2016
- XII. Evolutionary Genetics of Tsetse and its Symbionts. This project aimed to study population genetics of *G. f. fuscipes*, its symbionts

- and trypanosomes in the two distinct belts in Uganda. **Dr. Richard Echodu** Role: Investigator and field coordinator. NIAID supported project R1068932. Serap Aksoy (PI)
- XIII. Molecular and bio-chemical analysis of the mosquitoes collected by Abt during its entomological monitoring activities. **Dr. Richard Echodu Principal Investigator**., Gulu University, Uganda. Funder: Abt Associates Uganda, CDC/USAID programme. Duration: One Year, December 30, 2016 to December 24th, 2017.
- XIV. Japan Government, Program for the Strategic Promotion of International Cooperation to Accelerate Innovation in Development Countries Project HS 1624, Toshihiro Horii (PI) 05/27/2014 to 05/27/2017. Project entitled "Emerging Infectious Diseases: Metagenomic Detection of pathogens" **Dr. Richard Echodu** Role: Collaborator and field coordinator.
- XV. MSI/WAI/3/29/2010 Nyeko Pen-Mogi (PI). The goal of this study was to assess use of molecular diagnostic methods in the study of trypanosome infections in post-conflict districts of Amuru, Adjumani and Moyo, Northern Uganda". **Dr. Richard Echodu** Role: Field Coordinator and co-Investigator. Amount: USD, 780,000.00
- XVI. An Interdisciplinary Study Contributing to the identification of the Cause of Nodding Syndrome. **Dr. Richard Echodu Investigator**, Gulu University, Uganda. Sub-contract from Institute of Tropical Medicine, Antwerp, Belgium. Amount: (EUROS 14,557.71. Duration: May 25, 2015 to May 30th, 2017
- XVII. NIAID supported project R03 TW008755 Aksoy (PI). Factors associated with emergence of new sleeping sickness foci in Uganda. This study focused identification of role of tsetse fly genotypes on trypanosome transmission. **Dr. Richard Echodu** Role: Field Coordinator.
- XVIII. NIAID supported project R21 A109615 Caccone Adalgisa (PI). Next Generation Sequencing of East African Trypanosomes to expand the molecular. This project aimed at developing new molecular makers for trypanosome identification. **Dr. Richard**

Echodu Role: Field coordinator

- XIX. Seeding Lab Programme **Dr. Richard Echodu** (Principal Investigator) 11/20/2013- 07/30/2016, Gulu University Seeding Labs Equipment 2013.

G PAST APPOINTMENTS

1. Graduate Fellow, Department of Epidemiology and Public Health, Yale University, USA, April 2012 to September 2012

- I was under Fogarty International Center Global Infectious Disease Research Training Program being mentored in laboratory methodologies in population genetics, disease and epidemiology.

2. Graduate Fellow, Department of Epidemiology and Public Health, Yale University, United States of America from March 2010 to December 2010

- I was under Fogarty International Center Global Infectious Disease Research Training Program
- My main research activities involved conducting population genetics studies of *Glossina fuscipes fuscipes* and *Trypanosoma brucei*.
- Participated in Yale Schools of Medicine and Public and Department of Ecology and Evolutionary Biology Yale University sponsored academic seminars.
- I also attended short training courses in bioethics and biosafety.

3. Laboratory Manager/ Research Assistant, National Agricultural Research Laboratories Kawanda 2006-2009

Projects I was involved in

- Grand Challenge for Global Health programme Biofortification of East African Banana with pro-vitamin A genes and iron genes. I was involved in generation of transgenic bananas lines with pro-vitamin A genes and iron genes and their field evaluation.

- Agricultural Biotechnology Support Project (USAID/Uganda Government). I was involved in development of protocols for genetic transformation system of bananas using banana cell approach. I was also involved development of banana cells with nematodes resistance genes as well as evaluating and monitoring transgenic plants development.
- Overseeing daily running of the Biotech labs research activities, supervising junior staff, students and visiting scientists.

4. Biotechnologist at National Livestock Resources Research Institute (NaLIRRI) Tororo, from November 2002 to 2007

Projects I was involved in:

- System-wide Initiative on Malaria and Agriculture (SIMA)-Uganda Project; dealing with “Echo-Health and epidemiology of malaria in pastoral/agro-pastoral communities in Kiruhura district (former part of Mbarara district)”
- Farming in Tsetse Controlled Areas (FITCA) project; dealing with “Surveillance and control of sleeping sickness and Nagana in Eastern Uganda.
- Eastern Africa Network for Trypanosomiasis (EANETT) project; dealing with “Epidemiology of animal trypanosomiasis Eastern Uganda”.
- World Health Organisation (WHO, TDR) project; dealing with “Drug resistance studies on Human African Trypanosomiasis in Uganda”.
- International Atomic Energy Agency (IAEA) project; dealing with “Evaluation of new testing kits for the diagnosis of African Trypanosomiasis”.
- Danish International Development Agency (DANIDA) project; dealing with “Comparative evaluation of polymerase chain reaction assay with serological techniques for the diagnosis of contagious bovine pleuropneumonia in Uganda”.

5. Part time lecturing, Makerere University, Faculty of Veterinary Medicine, Bachelor of Biomedical Laboratory Technology Program, 2006 to 2007

- I lectured fundamentals of molecular biology, biotechnology & immunology.

6. Internships

- Volunteer at the Uganda Virus Research Institute laboratories, Entebbe: July to October 2002.
- Internship Trainee, Nakasero Blood Bank Headquarters Laboratories, Kampala: April –June 2002.
- Internship Trainee, Soroti Regional Referral Hospital: Jan-March 2001.
- Internship Trainee, Trypanosomiasis Referral Hospital, Tororo: July 2001 to March 2002.
- Internship Trainee, Faculty of Veterinary Medicine, Department of Parasitology & Microbiology, Makerere University Kampala: July-September 2000.

G. My involvement in other educational/leadership activities at Gulu University

- I have acted as Acting Deputy Vice Chancellor In-charge Academics, Gulu University
- Dean Faculty of Science
- Gulu University Management

Other Committees I have served in:

- Member of Gulu University Management
- Member Senate Committee
- Member of Admission Board, Mature Age and Gender Mainstreaming
- Member Quality Assurance, Examination and Time Table Committee
- Member of Committee of Deans/Directors and Academic Programme
- Member of Board of Research and Graduate Studies
- Member Committee of Library and ICT
- Member Management Committee
- Member Management Committee Quarterly Budget Performance Review
- Member, African Development Bank, HEST Project management

H. My involvement at National Level in Uganda

- Biosafety Inspector, Uganda National Council for Science and Technology 2015-2016.
- Committee member Annual National Biotechnology Essay 2014-2017.

I. PROFESSIONAL COLLABORATIONS

LOCALLY

- Makerere University, (Prof. John Enyaru, Assoc. Prof. Matovu Enock, Prof. George Lubega, Dr. Charles Maseembe, Dr. Ikwap Kokas).
- National Agricultural Research Laboratories Kawanda (Prof. Tusheriwe Wilberforce, Dr. Kiggundu Andrew, Dr. Arinaitwe Geoffrey).
- National Livestock Resources Research Institute (NaLIRRI) Tororo (Dr. Loyce Okedi).
- Uganda Virus Research Institute, Entebbe (Dr. Nerima Barbara, Dr. Julius Lutwama).

INTERNATIONALLY

- International Livestock Research Institute, BecA Hub, Nairobi, Kenya (Dr. Appolinaire Djikeng; Dr. Francesca Stomeo, Dr. Josephine Birungi, Dr. Wellington Ekaya).
- Yale University, USA (Prof. Aksoy Serap, Dr. Gisella Caccone).
- Trypanosome Research Center, Kenya Agricultural Research Institute (TRC, KARI). (Dr. Grace Murilla).
- Tsetse and Trypanosomiasis Research Institute, Tanga, Tanzania (Ms. Oliver Managwa).
- Osaka University, Japan (Prof. Hoshihiro Horii).
- University of California Riverside, USA (Dr. Hideaki Tsutsui)
- University of Gent, Belgium (Prof. Geert Haesaert)
- Rwanda Agricultural Research Board, (Dr. Theodore Asiimwe)
- Sugarcane Research Institute, Tanzania (Dr. Nessie Luambano)

J. PROFESSIONAL MEMBERSHIPS AND MEETING PARTICIPATION

- American Society of Tropical Medicine and Hygiene meetings.

- o International Scientific Council for Trypanosomiasis Research and Control, Annual Meetings.
- o Eastern African Network for Trypanosomosis and Human African Trypanosomiasis Scientific meetings.
- o Gulu University Annual Scientific meetings.

K. REVIEWER

- o African Journal of Biotechnology

L. PHD, MASTER THESIS ADVISOR/ SUPERVISOR AND EXTERNAL EXAMINER

PhD student Supervised and graduated

Wokorach Godfrey (2022) Mycotoxin occurrence, exposure, and mitigation strategies for staple foods in northern Uganda, **Ghent University, Belgium**

- o **Opiro Robert**, Gulu University **(2018)**. Thesis entitled, "Patterns and Levels of Genetic Differentiation of *Glossina fuscipes fuscipes* populations in Northern Uganda". Gulu University.
- o **Otim Agnes Sarah**, Gulu University **(2019)**. Thesis entitled, "The performance of African honeybee colonies in Uganda", Gulu University, Awaiting defense
- o

Supervisor for the following PhD students

- o **LINA SARA MATHEW (2018)** Aristolochia Bracteolata Lam Anitmalarial plant used in South Sudan: Safety profile and prediction of nephrocity and carcinogenicity, **Mbarara University**
- o **Eunice Achiro (2018)** Thesis entitled, "Genetic Diversity of *Aspergillus flavus* and its Association with Aflatoxin Production in locally available complementary weaning foods in northern Uganda, **Gulu University**.
- o **Anywar Denis Aron (2017)** Profile of cytokines and neopterin in trypanosome infected domestic cattle in northern Uganda. Faculty of Medicine, **Gulu University**

Lead Independent Discussant for PhD Vica Voce Examination Makerere University, Kampala and Examiner at University Western Australia

- Mr. James Mboru Wainaina (PhD, candidate) **(2019)** The University of Western Australia “Phylogenomics of the whiteflies: *Bemisia tabaci* (Gennadius) (Hemiptera: Aleyrodidae), and *Trialeurodes vaporariorum* (Hemiptera: Aleyrodidae) and viruses found within heterogeneous agro-ecosystems of the western highlands of Kenya”
- Mr. Agapitus Kato Babumba, thesis entitled, “ population genetics structure and extent of multiple paternity of *Glossina fuscipes fuscipes* Newstead 1910 (Diptera: Glossinidae) in the Lake Victoria Basin of Uganda, 2016.
- Ms. Martha Kaddaumurukasa, thesis entitled “Spatial- Temporal Analysis of Mosquito Activity, Composition, Genetic Diversity and differentiation, in Zika Forest and Kitale, Uganda” 2016.

Supervisor for the following MSc students who have completed and graduated

- **Brecht Lippen (2020)**. Incidence and control of stem borers in Gulu region, Uganda. MSc Biosciences Engineering Technology, Ghent University, Belgium
- **Ujiga Stephen**, MSc Applied Parasitology and Entomology, Gulu University **(2019)**. Dissertation entitled, “characterization of larval habitats and diversity of Anopheles species in Adjumani District, Uganda.
- **Achol Emmanuel**, Applied Parasitology and Entomology, Gulu University **(2019)**. Dissertation entitled, “Prevalence of Clinically Captured and Confirmed Malaria among HIV Seropositive Clinic Attendants”
- **ASINDE Anne Kifounji (2019)** Trypanosome infection rates in tsetse flies (*Glossina*) and distribution of hematophagous flies (*Muscidae* and *Tabanidae*) in Tororo District. MSc. Applied Tropical Entomology and Parasitology, Gulu University.
- **Owora Calvin Maya**, Completed MSc. Applied Parasitology and Entomology, Gulu University, **(2016)**. Dissertation entitled, “Prevalence of malaria in children and pregnant women attending Doko and Mulanda Health Centres”.

- **Odyomo Patrick**, Completed MSc. Applied Parasitology and Entomology, Gulu University, **(2016)**. Dissertation entitled “Fruit fly Infestation and its impact on Mango Production in Oyam District, Uganda.
 - **Dr. Ongu Elim James**, Masters of Science in Applied Tropical Entomology and Parasitology, Gulu University, **(2013)**. Prevalence of tick and tick-born diseases in cattle brought for slaughter in Apac district, Northern Uganda.
 - **Wokorach Godfrey**, Masters of Science in Molecular Biology and Biotechnology, Makerere University. Completed in January **2018**. Dissertation entitled, “ Genetic diversity of sweetpotato viruses and factors that upholds its spread in Acholi sub-region- Northern Uganda
- **Current MSc students**
 - **Oduro Ambrose (2018)**: Masters of Science in Molecular Biology and Biotechnology, Makerere University. Dissertation entitled Detection of passionfruit woodiness viruses and development of RT-LAMP for detection of the Ugandan passion fruit viruses.
 - **Judith Chale (2018)**: Postharvest Management of Cereal Grains: Implications for Aflatoxin Contamination in Moroto District Areas. Master of Science in Food Security and Community Nutrition, Gulu University
 - **Hilary Edema (2018)**: Masters of Science in Molecular Biology and Biotechnology, Makerere University. Dissertation entitled Development and evaluation of AN RT-LAMP Assay for detection of sweetpotato viruses.
 - **Ocora Wilfred (2018)**: Gulu University, Masters of Science in Applied Tropical Entomology and Parasitology. The burden of Varroa mites (*V. destructor*) infestation on African Honey Bees (*Apis Mellifera Scutellata*) In Lamwo District, Uganda
 - **MahmoudKhalid (2018)** Gulu University, Faculty of Agriculture and Environment. Dissertation entitled “Evaluating the microbiological levels in freshfruits and vegetable consumed in Gulu Municipality
 - **Julius Iga (2017)** Gulu University, Masters of Science in Applied Tropical Entomology and Parasitology. Susceptibility of malaria vectors to selected indoor residual spray insecticides in Nsinze Sub-County, Namutumba district”.
 - **Otim Geoffrey (2017)**. Masters of Science in Molecular Biology

and Biotechnology, Makerere University

- o **Canpara Robert (2018)** Mapping the prevalence and distribution of tsetse flies in Nebbi District in West Nile Region, Uganda. MSc. Applied Tropical Entomology and Parasitology, Gulu University
- o **Omara Radick Quinto (2017)** Prevalence of porcine cysticercosis in challenge Town council Agago District, Northern Uganda. MSc. Applied Tropical Entomology and Parasitology, Gulu University.
- o **Muwonge Garvin (2017)**. Ecto and gut parasites associated with farmed fish (Nile Tilapia and African cat fish) in Mukono and Wakiso Districts of Uganda. MSc. Applied Tropical Entomology and Parasitology, Gulu University
- o **Walter Ogwette (2018)**. MSc. Applied Tropical Entomology and Parasitology, Gulu University

UNDERGRADUATE SUPERVISOR, from 2009 TO DATE

- o Akello Paula, Sserwanga Lawrence, Isiiko Salim, Ochola David Davy, Muhwezi Edison, OCHAKACHON Gerald, KALEMA Hussein, KIGGUMDU Mathias, MUSAKI Judith, NAKITENDE Suzan, NAMBIRU Juliet, ODOKONERO Ronald, OKENY Ronald Simon, OPOTOIKUT Wilfred, OTIENO Juma Nelson, ZAWEDDE Christine

M. HONOURS AND AWARDS

- o Research Fellow, Yale University USA, 2012
- o Research Fellow, Yale University USA, 2010
- o PhD fellowship under NIH-sponsored Global Infectious Disease Training Program (Fogarty D43 TW007391), 2009.
- o MSc fellowship 2004 under International Development Research Centre/ International Water Management Institute-SIMA- Uganda grant.
- o Best employee of the year 2008, National Biotechnology Laboratories, Kawanda

N. SCIENTIFIC PUBLICATIONS

Sadiya Maxamhud, Johanna F Lindahl, Albert Mugenyi, **Richard Echodu**, Charles Waiswa, Kristina Roesel **(2022)** Seasonal Monitoring of *Glossina* Species Occurrence, Infection Rates,

and *Trypanosoma* Species Infections in Pigs in West Nile Region, Uganda. Vector-Borne and Zoonotic Diseases, 22(2) 101-107

Robert Opiro, Okello Allele Moses, Robert Opoke, Francis A Oloya, Esther Nakafu, Teresa Iwiru, **Richard Echodu**, Geoffrey M Malinga, Joel L Bargul, Elizabeth A Opiyo (2022). Spatial distribution of tsetse flies and trypanosome infection status in a vector genetic transition zone in northern Uganda. Journal of Parasitology Research

Godfrey Wokorach, Sofie Landschoot, Amerida Lakot, Sidney Arihona Karyeija, Kris Audenaert, **Richard Echodu**, Geert Haesaert (2022). Characterization of Ugandan Endemic Aspergillus Species and Identification of Non-Aflatoxigenic Isolates for Potential Biocontrol of Aflatoxins. Toxins 14(5): 304

Son JH, Weiss BL, Schneider DI, Dera KM, Gstottenmayer F, Opiro R, et al. (2021) Infection with endosymbiotic Spiroplasma disrupts tsetse (*Glossina fuscipes fuscipes*) metabolic and reproductive homeostasis. PLoS Pathog. 2021; 17(9):e1009539. Epub 2021/09/17. <https://doi.org/10.1371/journal.ppat.1009539>
PMID: 34529715; PubMed Central PMCID: PMC8478229.

Wokorach, G.; Landschoot, S.; Anena, J.; Audenaert, K.; **Echodu, R.**; Haesaert, G. (2022) Mycotoxin profile of staple grains in northern Uganda: Understanding the level of human exposure and potential risks. Food Control 2021, 122, 107813.

Opiro, R.; Opoke, R.; Angwech, H.; Nakafu, E.; Oloya, F.A.; Openy, G.; Njahira, M.; Macharia, M.; **Echodu, R.**; Malinga, G.M.; et al. (2021). Apparent density, trypanosome infection rates and host preference of tsetse flies in the sleeping sickness endemic focus of northwestern Uganda. BMC Vet. Res. 2021, 17, 365.

Echodu R, Iga J, Oyet WS, Mireji P, Anena J, Onanyang D, Iwiru T, Lutwama JJ, Opiyo EA (2020). High insecticide resistances levels in *Anopheles gambiaes* s.l. in northern Uganda and its relevance for future malaria control. BMC Res Notes. 2020) Jul 22;13(1):348. PubMed PMID: 32698844; PubMed Central PMCID: PMC7376877.

Brent Kalish, Jianhou Zhang, Hilary Edema, James Luong, Jenna Roper, Chad Beaudette, **Richard Echodu** Hideaki Tsutsui (2020). Distance and Microsphere Aggregation-Based DNA Detection in a Paper-Based Microfluidic Device. *SLAS Technol.* 2020 Feb; 25(1):58-66. doi: 10.1177/2472630319887680. Epub 2019 Nov 13, PMID: 31722603; DOI:[10.1177/2472630319887680](https://doi.org/10.1177/2472630319887680).

Godfrey Wokorach, Geoffrey Otim, Joyce Njuguna, Hilary Edema, Vincent Njung'e, Eunice M Machuka, Nasser Yao, Francesca Stomeo, Richard Echodu (2020). Genomic analysis of Sweet potato feathery mottle virus from East Africa. *Physiological and molecular plant pathology*, 2020, volume 110, April 2020, 101473.

Daniela I Schneider, Norah Saarman, Maria G Onyango, Chaz Hyseni, Robert Opiro, **Richard Echodu**, Michelle O'Neill, Danielle Bloch, Aurélien Vigneron, TJ Johnson, Kirstin Dion, Brian L Weiss, Elizabeth Opiyo, Adalgisa Caccone, Serap Aksoy (2019). Spatio-temporal distribution of *Spiroplasma* infections in the tsetse fly (*Glossina fuscipes fuscipes*) in northern Uganda. *Plos Neglected Tropical Diseases*. <https://doi.org/10.1371/journal.pntd.0007340>.

Emmanuel Achol, Stephen Ochaya, Geoffrey M. Malinga, Hillary Edema and **Richard Echodu** (2019). High prevalence of *Pfmdr-1* N86 and D1246 genotypes detected among febrile malaria outpatients attending Lira Regional Referral Hospital, Northern Uganda *BMC Res Notes* (2019) 12:235 <https://doi.org/10.1186/s13104-019-4269-1>

Saarman NP, Opiro R, Hyseni C, **Echodu R**, Opiyo EA, Dion K, Johnson T, Aksoy S, Caccone A (2019). The population genomics of multiple tsetse fly (*Glossina fuscipes fuscipes*) admixture zones in Uganda. *Mol Ecol.* 2019 Jan;28(1):66-85. PubMed PMID: 30471158. DOI: [10.1111/mec.14957](https://doi.org/10.1111/mec.14957).

Richard Echodu, Hilary Edema, Geoffrey Maxwell Malinga, Joyce Moriku Kaducu, Emilio Ovuga, Geert Haesaert (2019). Prevalence of Aflatoxin, Ochratoxin and Deoxynivalenol in cereal grains in northern Uganda: implication for food safety and health. *Toxicology Reports* 6 (2019) 1012–1017. <https://doi.org/10.1016/j.toxrep.2019.09.002>.

Godfrey Wokorach, Hilary Edema, Dennis Muhanguzi, Richard Echodu. Prevalence of sweetpotato viruses in Acholi sub-region, northern Uganda. *Current Plant Biology*.

<https://doi.org/10.1016/j.cpb.2019.03.001>

Agnes S Otim, Robert Kajobe, Patrick P'Odyek Abila, Patrice Kasangaki, **Richard Echodu (2019)** Viruses circulating in African honey bees in Uganda. *Journal of Bee World*.

<https://doi.org/10.1080/0005772X.2019.1698103>

AS Otim, R Kajobe, PPO Abila, P Kasangaki, **R Echodu (2019)**. Important plants for honey production in four Agroecological zones of Uganda. *Journal of Bee World*, 2376-7618.

<https://doi.org/10.1080/0005772X.2019.1608892>

Richard Echodu, Hilary Edema, Geoffrey Maxwell Malinga Adam Hendy, Robert Colebunders, Joyce Moriku Kaducu, Emilio Ovuga, Geert Haesaert **(2018)**. Is nodding syndrome in northern Uganda linked to consumption of mycotoxin contaminated food grains? *BMC Research Notes Journal*, 2018, 11:678. <https://doi.org/10.1186/s13104-018-3774-y>.

Richard Echodu, Hilary Edema, Godfrey Wokorach, Christine Zawedde, Geoffrey Otim, Nessie Luambano, Elijah Miinda Ateka, Theodore Asiimwe **(2018)**. Farmers practices and their knowledge of biotic constraint to sweetpotato production in East Africa. *Physiological and molecular plant pathology*, <https://doi.org/10.1016/j.pmpp.2018.07.004>.

Norah Saarman, Mary Burak,, Robert Opiro, Chaz Hyseni, Richard Echodu, Elizabeth A. Opiyo, Kirstin Dion, Augustine W. Dunn, Serap Aksoy and Adalgisa Caccone **(2018)**. A spatial genetics approach to inform vector control of tsetse flies (*Glossina fuscipes fuscipes*) in Northern Uganda *Ecology and Evolution*, vol 8, Issue 11, 5336-5354. <https://doi.org/10.1002/ece3.4050>

Agnes S. Otim, Robert Kajobe, Joseph M. Kungu, **Richard Echodu (2018)**. The socio-economic factors influencing honey production in Uganda. *Global Journal of Agricultural Research*, Vol.6, No.2, pp.1-9, March 2018.

Godfrey Wokorach, Hilary Edema **Richard Echodu (2018)**. Sweetpotato seed exchange systems and knowledge on sweetpotato viral diseases among local farmers in Acholi Sub Region-Northern Uganda. African Journal of Agricultural Research.

Adam Hendy, Taylor Tushar, Jacobus De Witte, Kenneth Pfarr, Patrick Odonga, Robert Colebunders, Sarah O'Neill, Jean-Claude Dujardin, Thomson Lakwo, Rory Post, **Richard Echodu (2018)**. Transmission of *Onchocerca* spp. by human and cattle biting blackflies in northern Uganda. University of Antwerp.

Hendy A, Sluydts V, Tushar T, De Witte J, Odonga P, Loum D, **Echodu R (2017)** Esperanza Window Traps for the collection of anthropophilic blackflies (Diptera: Simuliidae) in Uganda and Tanzania. PLoS Negl Trop Dis 11(6): e0005688. <https://doi.org/10.1371/journal.pntd.0005688>. PMID: 28628653

Opiro R, Saarman NP, **Echodu R**, Opiyo AE, Kirstin Dion K, Halyard A, Dunn A. W, Aksoy S, Caccone A **(2017)**. Genetic diversity and population structure of the tsetse fly *Glossina fuscipes fuscipes* (Diptera: Glossinidae) in Northern Uganda: Implications for vector control. PLoS Negl Trop Dis 11(4): e0005485. <https://doi.org/10.1371/journal.pntd.0005485> PMID: 28628653

Opiro R, Saarman NP, **Echodu R**, Opiyo EA, Dion K, Halyard A, Aksoy S, Caccone A **(2016)**. Evidence of temporal stability in allelic and mitochondrial haplotype diversity in populations of *Glossina fuscipes fuscipes* (Diptera: Glossinidae) in northern Uganda. Parasit Vectors.9:258. PMID: 27141947; PMID: PMC4855780.

Calvin M Owora, Hilary Edema, Geoffrey Otim and **Richard Echodu (2016)**. Diversity of Anopheles mosquito species and Prevalence of malaria in children and mothers attending Doho and Mulanda Health Centres. Gulu University Annual Journal Press **2016**.

Gloria-Soria A, Dunn WA, Telleria EL, Evans B, Okedi L, **Echodu R**, Warren WC, Montague MJ, Aksoy S, Caccone A **(2016)**. Patterns of Genome-Wide Variation in *Glossina fuscipes fuscipes* Tsetse Flies from Uganda. G3 (Bethesda). pii: g3.116.027235. PMID: 27172181.

Richard Echodu, Mark Sstrom, Jon S. Beadell, Loyce M. Okedi, Serap Aksoy, Chineme Enyioha, John C. K Enyaru, Elizabeth Opiyo, Wendy Gibson, Adalgisa Caccone (2015). Genetic diversity and population structure of *Trypanosoma brucei* in Uganda: implications for the epidemiology of sleeping sickness and Nagana. PLOS Neglected Tropical Diseases.

Angwech H, Nyeko JH, Opiyo EA, Okello-Onen J, Opiro R, **Echodu R**, Malinga GM, Njahira MN, Skilton RA. (2015). Heterogeneity in the prevalence and intensity of bovine trypanosomiasis in the districts of Amuru and Nwoya, Northern Uganda. BMC Vet Res. 11:255. PMID: 26449544; PMCID: PMC4599665.

Emre Aksoy, Erich Telleria, **Richard Echodu**, Yineng Wu, Loyce Okedi, Brian Weiss, Serap Aksoy and Adalgisa Caccone (2014). Analysis of multiple tsetse fly populations in Uganda reveals limited diversity and species-specific gut microbiomes. Accepted, Journal of Applied and Environmental Microbiology, published online 9 May 2014, doi: 10.1128/AEM.00079-14 AEM.00079-14.

Opoke, R., Okello-Onen, J., Opiyo, E. A., Nyeko Pen-Mogi, J. H., Opiyo, J., **Echodu, R.**, Tek-kara, A., Zema, P. (2014). Assessment of socio-demographic risk factors associated with Human African trypanosomiasis in Moyo district. In Ovuga, E., Obika, J. A., Olido, K., Opiyo, E. A. (Eds). Conflict and peace studies in Africa: Peace and Peace Building: Enhancing Human Security. Vol.1 No. 2. Vision Printing, Uganda. ISSN 2306-9023.

Richard Echodu, Mark Sstrom, Chaz Hyseni, John Enyaru, Loyce Okedi, Serap Aksoy, Adalgisa Caccone (2013). Genetically distinct *Glossina fuscipes fuscipes* populations in the Lake Kyoga region of Uganda and its relevance for Human Africa trypanosomiasis. BioMed Research International Journal, Volume 2013 (2013), article ID614721, 12pages.

Rebecca E. Symula, Uzma Alam, Corey Brelsfoard, Yineng Wu, **Richard Echodu**, Loyce Okedi, Serap Aksoy, Adalgisa Caccone (2013). *Wolbachia* association with the tsetse fly, *Glossina fuscipes fuscipes*, reveals high levels of genetic diversity and complex evolutionary dynamics. Journal BMC Evol Biol. 2013; 13: 31.

Published online 2013 February 5. doi: 10.1186/1471-214813 31.

Richard Echodu, PhD thesis (2013), Molecular Genetics studies of *Glossina fuscipes fuscipes* and *Trypanosoma brucei rhodeiense* in Eastern Uganda. Gulu University.

Mark Sistrom, **Richard Echodu**, Chaz Hyseni, John Enyaru Serap Aksoy, Adalgisa Caccone **(2012)**. Taking advantage of genomic data to develop reliable microsatellite loci in *Trypanosoma brucei*. Journal of Molecular Ecology Resources. Available online at "Permanent Genetic Resources added to Molecular Ecology Resources Database 1 October 2012-30 November 2012". Mol Ecol Resour. 2013 Mar;13(2):341-3. doi: 10.1111/1755-0998.12061. Epub 2013 Jan 25.

Uzma Alam, Chaz Hyseni, Rebecca E. Symula, Corey Brelsfoard, Yineng Wu, Oleg Kruglov, Jingwen Wang, **Richard Echodu**, Victor Alioni, Loyce M. Okedi, Adalgisa Caccone and Serap Aksoy **(2012)**. Microfauna-host interactions: implications for trypanosome transmission dynamics in *Glossina fuscipes fuscipes* in Uganda. Appl. Environ. Microbiol. 2012 July; 78(13): 4627–4637. doi: 10.1128/AEM.00806-12.

Richard Echodu, Jon S Beadell, Loyce M Okedi, Chaz Hyseni, Serap Aksoy, Adalgisa Caccone **(2011)**. Temporal stability of *Glossina fuscipes fuscipes* in Uganda. Journal of Parasites and Vectors. 2011; 4: 19. Published online 2011 February 14. doi: 10.1186/1756-3305-4-19.

Richard Echodu, J. Okello-Onen, J. J. Lutwama, J. Enyaru, R. Ocan, R. B. Asaba, F. Ajuga, R. Akikii, D. Bradley C. Mutero, C. Kabonesa and J. Olobo **(2010)**. Malaria transmission intensity in Nyabushozi County, Kiruhura district, Uganda. Journal of Parasitology and Vector Biology Vol. 2(3), pp. 35-43, November 2010. Available online <http://www.academicjournals.org/JPVB> @ 2010 Academic Journals.

Richard Echodu, J. Okello-Onen, J. J. Lutwama, J. Enyaru, R. Ocan, R. B. Asaba, F. Ajuga, R. Akikii, D. Bradley C. Mutero, C. Kabonesa and J. Olobo **(2010)**. Heterogeneity of *Anopheles* Mosquitoes in Nyabushozi County, Kiruhura district, Uganda. Journal of Parasitology and Vector Biology Vol. 2(3), pp. 28-34, November 2010. Available online at

Y. Arocha, **R. Echodu**, D. Talengera, J. Muhangi, E. Rockefeller, O. Asher, R. Nakacwa, R. Serugga, G. Gumisiriza, J. Tripathi, D. Kabuye, M. Otipa, K. Vutseme Lukanda and E. Boa **(2009)**. Occurrence of candidates phytoplasma aurantifolia (16SrII group) in cassava and four other species in Uganda. *Plant Pathology*, 58 (2): 390-390. DOI: 10.1111/j.1365-3059.2008.01963.

Echodu Richard (2006); "Heterogeneity of *Anopheles* Mosquitoes and *Plasmodium falciparum* infection in Adult mosquitoes in Nyabushozi County, Mbarara district" a MSc. thesis in Molecular Biology, Makerere University.

Echodu Richard (2002); "Comparative evaluation of polymerase chain reaction assay with serological techniques for the diagnosis of contagious bovine pleuropneumonia in Uganda"; a BSc. thesis in Biomedical Laboratory Technology, Makerere University.

Published Abstracts/Book Abstracts

Michael Okia, David Hoel, James Kirunda, Betty Mpeka, Muhanguzi Asaph, Richard Ocan-Onen, Opigo Jimmy, Katamba Vincent, **Richard Echodu**, Ananya Price **(2018)**. Insecticide susceptibility status of *Anopheles gambiae* s.l. to public Health insecticides from twelve sentinel sites in Uganda. *American Journal of Tropical Medicine and Hygiene*, Volume 99: issue 4, page 364.

Brooke E Miers, Jonathan Kayondo, **Richard Echodu**, Julius Lutwama, John Grieco, Lacey Ahern **(2017)**. Assessing the potential risk factors associated with nodding syndrome in northern Uganda. *American Journal of Tropical Medicine and Hygiene*, Volume 95: issue 5, page 401

Richard Echodu, Mark Sstrom, Chaz Hyseni, John Enyaru, Loyce Okedi, Serap Aksoy, Adalgisa Caccone **(2013)**. Genetically distinct *Glossina fuscipes fuscipes* populations in the Lake Kyoga region of Uganda and its relevance for Human Africa Trypanosomiasis.

Proceeding of 32nd ISCTRC Conference, September 2013, Khartoum, Sudan.

Echodu Richard, Beadell Jon S, Hyseni Chaz, Alioni Victor, Okedi Loyce M, Aksoy Serap, Caccone Adalgisa **(2013)**. Spatial and temporal stability of *Glossina fuscipes fuscipes* populations in Uganda. Proceeding of 2nd Joint Annual EANETT/HAT Platform Scientific Conference, June 2013, Panafric Hotel, Nairobi, Kenya.

Richard Echodu, Mark Sistrom, Jon S. Beadell, Loyce M. Okedi, Chineme Enyioha, John C. K Enyaru, Elizabeth Opiyo, Wendy Gibson, Serap Aksoy, Adalgisa Caccone **(2013)**. Genetic diversity and population structure of *Trypanosoma brucei* in Uganda: implications for the epidemiology of sleeping sickness and Nagana. Proceeding of the 2nd Joint Annual EANETT/HAT Platform Scientific Conference, June 2013, Panafric Hotel, Nairobi, Kenya.

Echodu Richard, Jon S. Beadell, et al. **(2012)**. Genetic diversity and population structure of *Trypanosoma brucei* in Uganda: implications for the epidemiology of sleeping sickness and Nagana. Proceeding of American Society of Tropical Medicine and Hygiene 61st Annual Meeting, November 2012, Atlanta Marriott Marquis, Atlanta, Georgia USA.

Echodu Richard, Jon S. Beadell, Loyce M. Okedi, Chaz Hyseni, Serap Aksoy, Adalgisa Caccone **(2011)**. Spatial and temporal stability of *Glossina fuscipes fuscipes* populations in Uganda. Proceedings of 60th American Society of Tropical Medicine and Hygiene Annual Conference, December, 2011, Philadelphia PA, USA.

Echodu Richard, Jon S. Beadell, Loyce M. Okedi, Chineme Enyioha, John C. K Enyaru, Wendy Gibson, Serap Aksoy, Adalgisa Caccone **(2011)**. Population genetic structure of *Trypanosoma brucei* in Uganda: it's implication on the epidemiology of sleeping sickness.

Proceedings of 31st International Scientific Council for Trypanosomiasis Research and Control Annual Conference, September 12th -16th, 2011, Bamako, Mali.

Echodu Richard, Beadell Jon S, Hyseni Chaz, Enyaru John C. K, Opiyo Elizabeth, Okedi Loyce M, Aksoy Serap, Caccone Adalgisa (2010). Molecular genetic studies of *Glossina fuscipes fuscipes* and *Trypanosoma brucei rhodesiense* in Eastern Uganda. Proceedings of 59th American Society of Tropical Medicine and Hygiene Annual Scientific Conference, November 3-7, 2010, Atlanta Marriott Marquis, Atlanta, Georgia USA.

Echodu, R., Olobo, J., Lutwama, J.J., Okello-Onen, J., Rubaire-Akiiki, C., Kabonesa, C., Ocan, R., Ajuga, F., Asaba, B.R., Tibenderana, J., Kyalisiima, Z. Mutero, C. and Bradley, D (2005). Epidemiology of malaria in the pastoral/agro-pastoral communities in Nyabushozi county, Mbarara district, Uganda. Proceedings of System Wide Initiative on Malaria and Agriculture (SIMA) Progress Review and Synthesis Workshop, held in Dar es Salaam, Tanzania from 20th – 24th November 2005.

Echodu, R., Olobo, J., Lutwama, J.J., Okello-Onen, J., Rubaire-Akiiki, C., Kabonesa, C., Ocan, R., Ajuga, F., Asaba, B.R., Tibenderana, J., Kyalisiima, Z., Mutero, C. and Bradley, D (2005). The seasonal dynamics and sporozoite infection rates of *Anopheles* mosquitoes in Nyabushozi county, Mbarara district, Uganda. Proceedings of System Wide Initiative on Malaria and Agriculture (SIMA) Progress Review and Synthesis Workshop, held in Dar es Salaam, Tanzania from 20th –24th November 2005.

Richard Echodu, J. Enyaru, J. Okello-Onen, J.J. Lutwama & J. Olobo (2005). Heterogeneity of *Anopheles* Mosquitoes and *Plasmodium falciparum* Transmission Intensity in Nyabushozi County, Mbarara District. Proceedings of the first Annual Scientific Conference of the Faculty of Medicine, Makerere University. Theme The contribution of Research in Advancing Health Care in Uganda. Imperial Beach

Resort Hotel, Entebbe, November 24-26, 2005.

Echodu, R. et al., (2005). Malaria transmission and mosquito bednet usage in Kela and Siseo villages in Blantyre, Malawi at Workshop held in Malawi College of Medicine, Malaria Alert Centre, 23-24 June, 2005.

Ocan, R., **Echodu, R.**, et al., (2005). Characterization of habitats and spatial distribution of *Anopheles* mosquitoes in Nyabushozi County, Mbarara district, Uganda. SIMA Progress Review and Synthesis Workshop, held in Dar es Salaam, Tanzania from 20th –24th November 2005.

Ainomugisha, A., R., **Echodu, R.**, et al., (2005). Household perceptions, behaviour and responses for malaria-related illness among the pastoral/agro-pastoral communities in Nyabushozi County, Mbarara district: Implications for treatment and management of malaria. SIMA Progress Review and Synthesis Workshop, held in Dar es Salaam, Tanzania from 20th – 24th November 2005.

Echodu, R. et al., (2004). Entomological and Environmental factors influencing malaria transmission in Nyabushozi County, Mbarara district at workshop held in Rwizi Arch Hotel, Mbarara district, 17-20 October, 2004.

O. REFEREES

Prof. Opiyo Elizabeth, PhD

Gulu University, P. O. Box, 166, Gulu, Uganda.

Telephone number: +256-772-856871 E-mail: e.a.opiyo@gu.ac.ug

Prof. David Owiny

Deputy Vice Chancellor, Gulu University

Gulu University, P. O. Box, 166, Gulu, Uganda.

Telephone number: +256-772-443658 E-mail: owinyd@gmail.com/
owinyd@gu.ac.ug

