

Curriculum Vitae*



Personal details

Surname: Mukabana
 First name: Wolfgang
 Middle name: Richard
 Occupation: Medical Parasitology / Medical Entomology
 Position: Research Scientist and Associate Professor
 Postal address (official): School of Biological Sciences, University of Nairobi,
 P.O. Box 30197 - 00100, Nairobi, Kenya
 Postal address (private): P.O. Box 23790 - 00100, Nairobi, Kenya
 Telephone (Mobile): +254 733 825228 OR +254 715 036 366
 E-mail: rmukabana@yahoo.co.uk / richard.mukabana@gmail.com
 Date of Birth: July 12, 1970
 Sex: Male
 Nationality (birth): Kenyan
 Languages: English and Kiswahili

Educational Background

Dates	Institution	Field of study	Degree
2011-2014	Open University, United Kingdom	Business Administration	MBA (ongoing)
2004	University of Florida, Gainesville, FL, USA	Sterile Insect Technique	Certificate
1998 - 2002	Wageningen University, The Netherlands	Medical Entomology	Ph.D.
1993 - 1997	University of Nairobi, Nairobi, Kenya	Medical Parasitology	Masters
1989 - 1992	Egerton University, Njoro, Kenya	Botany and Zoology	Bachelors

Positions held

17 March 2011-date: Associate Professor, School of Biological Sciences, University of Nairobi, Kenya
 Jan. 2011 – Dec 2014: Head, Human Health Division, Int'l Centre of Insect Physiology & Ecology, Nairobi, Kenya
 Mar 2011- Dec 2014: Council Member (representing *icipe*), Consortium for National Health Research, Kenya
 Feb 2011 - Dec 2013: Contact Person, *icipe* Regional Centre for the Stockholm Convention on POPs
 Oct. 2007 - Dec 2010: Visiting Scientist, Int'l Centre of Insect Physiology & Ecology (ICIPE), Nairobi, Kenya
 May 2006 - Mar 2011: Senior Lecturer, School of Biological Sciences, University of Nairobi, Nairobi, Kenya
 Sept 2006 – Feb 2008: Deputy Chief, Department of Entomology & Vector-borne Disease, US Army Medical Research Unit-Kenya (USAMRU-K), Kenya Medical Research Institute (KEMRI) - *The Walter Reed Project*
 Apr 2006 - Mar 2007: Visiting Scientist, International Centre of Insect Physiology & Ecology (ICIPE), Kenya
 Mar – May 2006: Lecturer, School of Biological Sciences, University of Nairobi, Nairobi, Kenya
 2006 - 2007: Honorary Lecturer, Makerere University, Kampala, Uganda
 Mar 2003 – Mar 2006: Lecturer, Department of Zoology, University of Nairobi, Nairobi, Kenya
 2005 (April – Dec.): Visiting Scientist, International Centre of Insect Physiology & Ecology (ICIPE), Kenya
 2004 (July): WHO/TDR temporary adviser - strategic planning group to bridge laboratory and field research in disease vector control (14–16, July 2004 at ICIPE, Nairobi, Kenya).
 1999 – 2002: Research Intern, International Centre of Insect Physiology & Ecology (ICIPE), Kenya
 1998 – 2002: Tutorial Fellow, Department of Zoology, University of Nairobi, Kenya
 1997 – 1998: Graduate Assistant, Department of Zoology, University of Nairobi, Kenya
 June 1998: WHO/TDR temporary advisor - course on practical approaches to the population genetics of African malaria vectors
 1994 – 1997: Research assistant, USA Centers for Disease Control and prevention (based at the Kenya Medical Research Institute, Nairobi, Kenya)
 1993 (Jan. - Sept.): Biology teacher, Karamani Boys' Secondary School, Tharaka Nithi District, Kenya

* Updated on 20180809

Memberships

- Jan 2010 – date: International Editorial Advisor, Rwanda Journal of Medicine and Health Sciences
 Aug 2016 – date: Member, British Ecological Society
 Nov 2012 – date: Member, American Society of Tropical Medicine and Hygiene
 Jan 2010 – date: Member, International Advisory Board, Tanzania Journal of Health Research.

Short courses attended

- 05 – 07 April 2016: Entomology Training workshop – TransMal project. Kumasi Centre for Collaborative Research in Tropical Medicine (KCCR), Kumasi, Ghana. *Role: Facilitator*
- 26-30 May, 2014: Certificate of Achievement – Training for Managing Transgenic Mosquitoes in Containment Facilities; Perugia, Italy. *Role: Participant*
- 27 – 31 Jan, 2014: Biosafety Practitioners Course, Imperial College, London, United Kingdom. *Role: Participant*
- 5-6 August, 2013: Certificate of Participation (a) Feed and Food Safety Assessment Standard, (b) Bioethics, Biosecurity and Dual Use Research of concern. National Biosafety Authority, Nairobi, Kenya. *Role: Participant*
- 2011 (28 Mar–7 Apr): Regional Training Workshop on Integrated Vector Management (IVM) as an alternative approach to use of DDT for Malaria Control, *icipe*, Nairobi, Kenya. *Role: Facilitator.*
- 2010 (27 Sept - 8 Oct): 3rd Biosafety Training Course for Africa Related to the Potential Release of Genetically Modified Disease vectors, Bamako, Mali. *Role: Participant.*
- 2009 (11-22 May): Mosquito Ecology and Vector Control Course, National Institute for Medical Research (NIMR), Tanga, Tanzania. *Role: Facilitator.*
- 2008 (May): Mosquito Ecology and Vector Control Course, National Institute for Medical Research (NIMR), Tanga, Tanzania. *Role: Facilitator.*
- 2007 (Aug. 20-24): USAMRU/GEIS-Kenya Course on Identification of Mosquitoes from Africa. *Role: Coordinator.*
- 2007 (May 7 - 18): Mosquito Ecology and Vector Control Course, National Institute for Medical Research (NIMR), Tanga, Tanzania. *Role: Facilitator.*
- 2007 (April 14): Successfully completed Human Participants Protection Education for Research Teams online course, sponsored by the National Institutes of Health (NIH).
- 2004 (May – June): FAO/IAEA Interregional Training Course on the Use of Sterile Insect and Related Techniques for the Integrated Area Wide Management of Insect Pests held at the University of Florida in Gainesville, FL, USA. *Role: Participant.*
- 2001 (June 16-30): Biology of Disease Vectors (BDV) 11th International course, Institute of Parasitology, Academy of Sciences of the Czech Republic, České Budějovice, Czech Republic. *Role: Participant.*
- 2001: Kenya Ministry of Health and Case Western Reserve University sponsored course on emerging and re-emerging infections, Kenya College of Communications Technology, Nairobi, Kenya. *Role: Participant.*
- 1998 (June 7-13): WHO-TDR course on practical approaches to the population genetics of African malaria vectors, International Centre of Insect Physiology & Ecology, Nairobi, Kenya. *Role: Participant.*

Meetings attended

- 05 – 07 April 2016: TransMal project Meeting. Kumasi Centre for Collaborative Research in Tropical Medicine (KCCR), Kumasi, Ghana.
- 29 Oct–01 Nov 2014: Target Malaria Joint Project Team Meeting, New Orleans, USA.
- 8 - 12 Dec 2013: Workshop on “Revisiting Malaria: Moving From Control to Sustainable Elimination”; Hebrew University-Hadassah, Jerusalem, Israel
- 2 – 9 Nov 2013: HEG Consortium Joint Project meeting, Institut de Recherche en Sciences de la Sante/Centre Muraz (IRSS), Bobo Dioulasso, Burkina Faso
- 1-5 Apr, 2013: Workshop on “Food security and the productivity, health and nutrition nexus”, Wageningen, University and Research Centre, the Netherlands

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- 15-16 Nov 2012: Monitoring Mosquito Transmission of Malaria Meeting, Atlanta, USA
- 10-15 Nov 2012: 62nd annual meeting of the American Society of Tropical Medicine and Hygiene (ASTMH), Atlanta, Georgia, USA.
- 28-29 March 2012: International Workshop on Use of Transgenic *Aedes* for Population Control, Juazeiro, Bahia, Brazil.
- Jan 25-27, 2012: HEG mosquito technology meeting. Imperial College London
- 7-9 Sept 2011: International Conference on Vector-borne Diseases, The University of Illinois, Urbana-Champaign, USA
- 2011 (25-29 Apr.): Fifth meeting of the Conference of the Parties (COP-5) to the Stockholm Convention on Persistent Organic Pollutants, Geneva, Switzerland.
- 2011 (24 Feb): Biovision farmer communication program launch, *icipi*-duduville, Nairobi
- 2010 (09-10 Dec): Field testing of genetically engineered mosquito meeting, Imperial College London, South Kensington Campus, London, United Kingdom.
- 2010 (06-11 Sept): IDRC Capacity Development Workshop for Proposals on Integrated Research Partnerships for Malaria Control in Africa (IPMA), Accra, Ghana.
- 2009 (25-28 Nov): Fungus for Malaria Control in Africa meeting, Wageningen, The Netherlands.
- 2009 (18-21 Nov) 5th Annual Grand Challenges in Global Health (GCGH) Meeting, Arusha, Tanzania.
- 2009 (21-25 Sept): FAO/IAEA Mosquito Mass Rearing Research Committee Meeting, Bologna, Italy.
- 2007 (October, 7-9) 3rd annual meeting of the Grand Challenges in Global Health Initiative, Cape Town International Convention Center, Cape Town, South Africa.
- 2007 (October, 1-3) ARPPIS Academic Board Meeting, University of Ghana, Legon, Ghana.
- 2007 (April 26) President's Malaria Initiative (PMI) Stakeholders meeting, Safari Park Hotel, Nairobi, Kenya.
- 2007 (April 1-5, 2007) 73rd Annual meeting of The American Mosquito Control Association (AMCA), The Pea Body Hotel, Orlando, Florida, USA.
- 2007 (Feb., 21-23) ARPPIS Academic Board Consultative and Planning Meeting, ICIPE Duduville campus, Nairobi, Kenya
- 2007 (Feb., 14-16) Wellcome Trust Frontiers meeting on Vector Biology, KEMRI, Centre for Geographic Medicine Research, Kilifi, Kenya
- 2006 (Dec., 15) Proceedings of the Netherlands Entomological Society, Ede, The Netherlands.
- 2006 (Nov 12 -16) 55th meeting of the American Society of Tropical Medicine and Hygiene (ASTMH), Marriot Marquis Hotel, Atlanta, Georgia, USA.
- 2006 (Sept 20-23) Workshop on "Exo-antigens for diagnosis and treatment of *Leishmania*". Mombasa Serena Beach Hotel, Mombasa, Kenya.
- 2006 (May 17 – 18) Workshop on Biotechnology capacity building trends in Kenya: Implications for Biotechnology growth in the country, corporate room, School of Computing and Informatics (SCI), Chiromo campus, University of Nairobi.
- 2006 (March 27 – 31) 4th VicRes harmonization workshop, AICAD centre, Jomo Kenyatta University of Agriculture and Technology (JKUAT), Juja, Kenya.
- 2005 (Dec. 5 – 9) First Research Co-ordination Meeting (RCM) of the International Atomic Energy Agency's (IAEA) Co-ordinated Research Project (CRP) on '*Development of standardized mass rearing systems for male Anopheles arabiensis mosquitoes*'. Austria Center Vienna (ACV), Vienna, Austria.
- 2005 (Nov. 10 – 13) MIM (Multilateral Initiative on Malaria) Entomology Workshop, Meumi Palace Hotel, Yaoundé, Cameroon.
- 2005 (October, 3 – 4) 32nd meeting of the African Regional Postgraduate Programme in Insect Science (ARPPIS), ICIPE duduville, Nairobi, Kenya.
- 2005 (June, 20 – 21) Planning meeting of the African Regional Postgraduate Programme in Insect Science (ARPPIS), ICIPE duduville, Nairobi, Kenya.
- 2003 (December, 3-7): 52nd annual meeting of the American Society of Tropical Medicine and Hygiene (ASTMH), Marriot Downtown Philadelphia, Pennsylvania, USA.
- 2003 (October, 28-31): First annual networking meeting of the Health, Education, and Economic Development (HEED) program of the National Institutes of Health (USA), Bethesda, Maryland, USA.

2002 (June) Workshop on ecological aspects for application of genetically modified mosquitoes, Wageningen International Conference Centre, Wageningen, The Netherlands.

Other relevant qualifications / skills

1. Molecular biology techniques

DNA extraction: By alcohol precipitation and Isoquick® Nucleic acid extraction kit
 DNA amplification: By the polymerase chain reaction
 Electrophoresis: On submarine agarose, Polyacryl amide and cellulose acetate gels
 DNA visualization: UV illumination of Ethidium bromide stained gels, silver staining.
 Forensics: DNA fingerprinting/profiling.

2. Experienced use of the following computer software

Word processing: MS Word
 Data management: MS Excel
 Graphics: PowerPoint
 Statistics: SPSS; Genstat®; Biosys 1.7; PopGen.
 General: Endnote 4; Windows 95/98/00; Windows XP; MS Office 97; MSOffice 98

3. Driving

Motor vehicles Holds a valid Kenyan driving license (class BCE) – obtained in 1996.

Funding

Jan 2018 – Dec 2018: Saving Lives Using Antimalaria Drones
Funder: Stichting Joep Lange Institute for Global Health and Development
Funding level: **Euros 10,000.00**
Role: Principal Investigator

Jan 2018 – Dec 2020: Creating Wealth and Society Equity from Mosquito Larval Habitats
Funder: National Research Fund (Kenya)
Funding level: **USD 180,000.00**
Role: Principal Investigator

Nov 2017 – Marc 2018: Efficacy Testing of Commercial Aerosol Insecticides
Funder: Reckitt Benckiser
Funding level: **USD 14,292.60**
Role: Principal Investigator

Nov 2016 – Mar 2018: Turning Notorious Mosquito Larval Habitats into Sources of Wealth and Social Equity
Funder: British Ecological Society
Funding level: **GBP 10,000.00**
Role: Principal Investigator

Jan 2012 – Dec 2015: Solar power for malaria eradication
Funder: COMON Foundation
Funding Level: **Euros 3,285,277**
Role: In-country Principal Investigator

Aug 2012 – Jul 2015: Controlling the mosquito vectors of malaria with engineered endonucleases
Funder: Foundation for the National Institutes of Health (FNIH), USA.
Funding Level: **US\$ 402,494.22**
Role: In-country Principal Investigator

Jul – Nov, 2013: Integrated Research Partnership for Malaria Control in Africa (IPMA): Consolidation Workshop
Funder: International Development Research Centre (IDRC) - Canada
Funding Level: **US\$ 70,999.06**
Role: Convener

May – Dec 2013: Mbita Point ACL insectary
Funder: Foundation for the National Institutes of Health (FNIH), USA.
Funding Level: **US\$ 185,363.00**
Role: In-country Principal Investigator

Apr 2011 – Sep 2013: Integrated partnerships for Malaria Control (IPMA)
Funder: International Development Research Centre (IDRC)

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- Funding Level: CAD 110,100.00*
Role: Principal Investigator
- Jul – Nov, 2013: UNOPS Meeting
Funder: UNEP
Funding Level: US\$ 50,000.00
Role: Convener
- 2010 - 2011: Fungus for Malaria Control in Africa (FMCA)
Funder: Dioraphte Foundation – The Netherlands
Funding Level: US\$ 70,999.06
Role: In-country Principal Investigator
- 2007 - 2010: Disruption of Malaria Transmission by Chemical Manipulation of Anopheline Olfactory Responses-Major foreign collaborator and site
Funder: Foundation for the National Institutes of Health (FNIH), USA
Funding Level: US\$ 597,462.68
Role: In-country Principal Investigator
- 2006 - 2008: Research training for operational vector control specialists
Funder: Valent BioSciences Corporation, USA
Funding Level: US\$ 50,000.00
Role: Co-Principal Investigator
- 2006 - 2008: Speeding up the life cycle of Afrotropical *Anopheles* to enhance mass rearing
Funder: Third World Academy of Sciences (TWAS)
Funding Level: US\$ 9,950.00
Role: Principal Investigator
- 2005 - 2011: Optimizing Colony Reproduction Procedures for the Mass Rearing of Male *Anopheles arabiensis* Mosquitoes
Funder: International Atomic Energy Agency (IAEA)
Funding Level: € 30,000
Role: Principal Investigator
- 2004 - 2005: Development of a Mosquito Surveillance System for Rapid Assessment of Malaria Risk and Epidemiology
Funder: Third World Academy of Sciences (TWAS)
Funding Level: US\$ 7,000.00
Role: Principal Investigator
- 2003-2005: Community Empowerment for Malaria Control in Africa (FMCA)
Funder: National Institutes of Health (NIH), USA
Funding Level: US\$ 180,000.00
Role: Primary Foreign Collaborator
- 2002: PhD thesis publication grant (part payment)
Funder: Executive Board, Wageningen University and Research Centre, The Netherlands
Funding Level: € 1,250.00
Role: PhD Student
- 2002: PhD thesis publication grant (part payment)
Funder: Dr. Judith Zwartz Foundation, The Netherlands
Funding Level: € 667.00
Role: PhD student
- 2002: PhD thesis publication grant (part payment)
Funder: WHO-TDR, Research Training Grant section
Funding Level: US\$ 750.00
Role: PhD student
- 2001: Characterization of compounds causing differential attractiveness of humans to mosquitoes
Funder: WHO-TDR, Research Training Grant section
Funding Level: US\$ 10,000.00
Role: PhD student
- 2001: Characterization of compounds causing differential attractiveness of humans to mosquitoes
Funder: WHO-TDR, Research Training Grant section

Funding Level: US\$ 17,700.00

Role: PhD student

Awards

1998: Received a sandwich Ph.D. scholarship from the executive board of Wageningen University and Research Centre (WUR), Wageningen, The Netherlands.

Theses

Mukabana, W.R. 2002, Differential attractiveness of humans to the African malaria vector *Anopheles gambiae* Giles: Effects of host characteristics and parasite infection. Ph.D. thesis Wageningen University and Research Centre, Wageningen, The Netherlands (ISBN number: 90 – 5808 – 754 – 9).

<http://www.dpw.wageningen-ur.nl/ento/proefschriften/mukabana.PDF>

Mukabana W.R., 1997, Use of short tandem repeats to analyze genetic variability in *Anopheles gambiae* from three countries in Africa. M.Sc thesis, University of Nairobi, Nairobi, Kenya.

Courses taught

SZL 305: Genetics	SBT 545/SZL 579: Biometry
SZL 401: History and Philosophy of Biology	SZL 571: Parasitic Protozoa
SZL 406: Medical Protozoology	SZL 573: Vector Biology
SZL 508: Ecological Statistics	SZL 575/583: Applied Molecular Biology
SZL 524/577: Epidemiology of Parasitic Infections	SZL 576: Parasitology Field Course

Students Supervised

Student name	Degree and Research topic	Status
Onyango JA	MSc: Using an Ecosystem Approach to Understand the Link Between Artisanal Capture Fishing and Malaria on Mageta Island in Western Kenya	Completed (2018)
Omondi SA	MSc: Quantifying the Intensity of Permethrin Resistance in <i>Anopheles</i> mosquitoes in western Kenya	Completed (2017)
Busula A.O.	PhD: Microorganism mediated behavior of malaria mosquitoes	Completed (2017)
Evelyn Olanga	Ph.D. Malaria Risk Among Fishermen of Rusinga Island, western Kenya: Assessment of Different Malaria Transmission Metrics & Human Behavior	Completed (2016)
Mweresa C.K.	P.hD: Odour-based strategies for surveillance and behavioral disruption of host-seeking malaria and other mosquitoes	Completed (2014)
Caroline Mirieri	M.Sc. Effect of Controphic species on natural population Dynamics of malaria mosquito larvae on Rusinga Island	Completed (2014)
Monicah Mburu	M.Sc. Evaluation of 2 Butanone as a substitute for carbon dioxide in synthetic attractant for malaria mosquito	Completed (2013)
Sisay Dugassa	Ph.D. Development of a gravid trap to attract and kill the malaria vector <i>Anopheles gambiae</i> s.l. Gilles (Diptera: Culicidae)	Completed (2013)
Caroline Moseti	M.Sc. Trends and infection dynamics of <i>plasmodium</i> parasites in human hosts and malaria vectors from western kenya	Completed (2013)
Hemed A	M.Sc. Pattern of Host Seeking and Oviposition Preferences of Malaria Vectors in Kilifi County-Coastal Kenya	Completed (2013)
James Msami	M.Sc. Monitoring Insecticide Resistance of Malaria Vectors along Coastal Region of Kenya	Completed (2013)
Isaac Namango	M.Sc. Malaria Parasite Infection Risk in Urban Dar Es Salaam, Tanzania: The role of routine outdoor nocturnal activities and common livelihoods among adults	Completed (2013)
Makworo NK	M.Sc. A comparative efficacy study on commercially available insecticides against <i>anopheles gambiae</i>	Completed (2013)
Kevin Opondo	M.Sc. Efficacy of the d-design ifakara tent trap for sampling malaria vectors in an area of mass long lasting insecticidal bed nets use	Completed (2012)
Busula AO	MSc: Experimental Infection of of Malaria Mosquitoes with the Entomopathogenic fungus <i>Beauveria bassiana</i> under Field Conditions	Completed (2012)
Ondiaka S.N.	P.hD: Behavioural effects of fungal infection in adult malaria mosquitoes in Kenya	Completed (2012)

Olanga E.O.	M.Sc: Role of heat and moisture on odour mediated behaviour of <i>Anopheles gambiae</i> mosquitoes to synthetic attractants.	Completed (2010)
Onyango, M.G.	MSc: Transfection of <i>P. berghei</i> to express Green Fluorescence protein (GFP) for thiazole kinase drug screening system	Completed (2010)
Wanzala W.O.	PhD: Evaluation of tactical use of antitick natural products used in livestock health management in Kenya	Completed (2009)
Imbahale, S.S.	PhD: The effects of water management systems in traditional agriculture on malaria mosquitoes in western Kenya	Completed (2009)
Mweresa, C.K.	M.Sc: Abundance & control of malaria mosquito larvae in the traditional water management agro-ecosystem of Kasagam, western Kenya	Completed (2009)
Maggy Sikulu	M.Sc: Sampling malaria vectors and other mosquitoes with the Ifakara tent trap and the standardized resting boxes in urban Dar es Salaam.	Completed (2009)
Sheila O Barasa	M.Sc: Impact of mosquito-proofing of houses upon mosquito entry as well as investment and motivation by households	Completed (2009)
Omary Adinani	MSc: Impact of intensive larval control and monitoring on malaria vectors in an area of high insecticide treated net coverage in rural western Kenya	Completed (2009)
George Chimile	M.Sc: Efficacy of the insect growth regulator pyroproxyfen for the control of <i>Anopheles gambiae</i>	Completed (2009)
Johnson Ndaro	M.Sc: Efficacy and residual activity of <i>Bacillus spahericus</i> granules and <i>Bacillus thuringiensis</i> var. <i>israelensis</i> wettable granules for controlling <i>Culex quinquefasciatus</i> in Dar es Salaam, Tanzania	Completed (2009)
Jackson N. Saya	M.Sc.: Systematic management of mosquito larval control operations and its impact on malaria transmission potential in urban Dar es Salaam	Completed (2009)
Fredros Okumu	M.Sc: Medium range olfactory responses of the malaria vector <i>Anopheles gambiae</i> to synthetic odor blends	Completed (2008)
Ogoma, S.B.	BSc: Repellency of mosquitoes using essential oils of <i>Tagetes minuta</i>	Completed (2006)
Yugi, J. O.	MSc: Optimizing Colony Reproduction Procedures for the Mass Rearing of Male <i>Anopheles arabiensis</i> Mosquitoes	Completed (2007)
Muriu, S.M.	PhD: Impact of vector control on malaria transmission in a rice agroecosystem	Completed
Awuor, O.O.	BSc: Effects of house characteristics on mosquito indoor resting density on Rusinga Island, western Kenya.	Completed (2004)
Waiganjo, B.W.	M.Sc: Efficacy of cow dung as a deliberate aquatic pollutant against <i>Anopheles gambiae</i>	Completed (2006)
Owino, E.A	M.Sc: Field evaluation of Limburger cheese as an odour bait source for sampling afrotropical malaria vectors	Completed (2006)
Kiptoo, S.K.	MSc: Community-based malaria vector surveillance in Rusinga Island, western Kenya.	Completed (2006)
Nyanchong'i, B.O.	MSc: Evaluation of bush clearing as a control measure against Afrotropical malaria vectors	Completed (2006)
Senkoro, K.P.	PhD: Malaria burden and its impact on agricultural productivity in Mvomero District, Tanzania	Exited
Harbison, J.E.	M.Sc: Development of a practical technique for sampling the afrotropical malaria vectors <i>Anopheles gambiae</i> s.l. and <i>An. funestus</i> .	Completed (2005)
Weckenbrock, P.	M.Sc: Livelihoods, Vulnerability and the Risk of Malaria on Rusinga Island	Completed (2003)

Peer-reviewed publications

1. Robinson A, Busula A, Voets MA, Beshir KB, Caulfield JC, Powers SJ, Verhulst NO, Winskill P, Muwanguzi J, Birkett MA, Smallegange RC, Masiga DK, **Mukabana WR**, Sauerwein RW, Sutherland CJ, Bousema T, Pickett JA, Takken W, Logan JG, de Boer JG, 2018, *Plasmodium*-associated changes in human odor attract mosquitoes. Proceedings of the National Academy of Science USA, pii: 201721610. doi: 10.1073/pnas.1721610115. [Epub ahead of print]
<http://www.pnas.org/content/pnas/early/2018/04/11/1721610115.full.pdf>
2. Quinlan MM, Birungi J, Coulibaly MB, Diabaté A, Facchinelli L, **Mukabana WR**, Mutunga JM, Nolan T, Raymond P, Traoré SF, 2018, Containment Studies of Transgenic Mosquitoes in Disease Endemic Countries:

- The Broad Concept of Facilities Readiness. *Vector Borne Zoonotic Diseases* 18(1):14 - 20. doi: 10.1089/vbz.2017.2189.
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5770120/pdf/vbz.2017.2189.pdf>
3. Kiuru CW, Oyieke FA, **Mukabana WR**, Mwangangi J, Kamau L, Muhia-Matoke D, 2018, Status of insecticide resistance in malaria vectors in Kwale County, Coastal Kenya. *Malaria Journal* 17(1):3. doi: 10.1186/s12936-017-2156-6
<https://malariajournal.biomedcentral.com/track/pdf/10.1186/s12936-017-2156-6?site=malariajournal.biomedcentral.com>
 4. Seline Omondi, **Wolfgang Richard Mukabana**, Eric Ochomo, Margaret Muchoki, Brigid Kemei, Charles Mbogo and Nabie Bayoh, 2017, Quantifying the intensity of permethrin insecticide resistance in *Anopheles* mosquitoes in western Kenya. *Parasites & Vectors* 2017 10:548
<https://parasitesandvectors.biomedcentral.com/track/pdf/10.1186/s13071-017-2489-6?site=parasitesandvectors.biomedcentral.com>
 5. Mburu MM, CK Mweresa¹, Philemon Omusula, Alexandra Hiscox, Willem Takken and **WR Mukabana**, 2017, 2-Butanone as a carbon dioxide mimic in attractant blends for the Afrotropical malaria mosquitoes *Anopheles gambiae* and *Anopheles funestus*. *Malaria Journal* 16:351. DOI 10.1186/s12936-017-1998-2
<https://malariajournal.biomedcentral.com/track/pdf/10.1186/s12936-017-1998-2?site=malariajournal.biomedcentral.com>
 6. Busula AO, T Willem, de Boer Jetske, **WR Mukabana** and Verhulst N, 2017, Variation in host preference of malaria mosquitoes is mediated by skin bacterial volatiles, *Medical and Veterinary Entomology*, 31(3): 320-326
 7. Spitzen J, Koelewijn T, **Mukabana WR**, Takken W, 2017, Effect of insecticide-treated bed nets on house-entry by malaria mosquitoes: The flight response recorded in a semi-field study in Kenya. *Acta Tropica* 172: 180-185.
 8. Makworo NK, Ochieng VO, Ogoyi DO and **WR Mukabana**, 2017, Knock down efficacy of commercially available insecticides against *Anopheles gambiae*. *Journal of Applied Biology and Biotechnology*, 5 (02): 077-084. DOI: 10.7324/JABB.2017.50212
http://jabonline.in/admin/php/uploads/197_pdf.pdf
 9. Wycliffe Wanzala, Ahmed Hassanali, **WR Mukabana** and Willem Takken, 2017, Essential oils of indigenous plants protect livestock from infestations of *Rhipicephalus appendiculatus* and other tick species in herds grazing in natural pastures in western Kenya, *Journal of Pest Science*, Published online on 27 March 2017. DOI 10.1007/s10340-017-0853-0
 10. Homan T, Hiscox A, Mweresa CK, Masiga D, **Mukabana WR**, Oria P, Maire N, Pasquale AD, Silkey M, Alaii J, Bousema T, Leeuwis C, Smith TA, Takken W., 2016, The effect of mass mosquito trapping on malaria transmission and disease burden (SolarMal): a stepped-wedge cluster-randomised trial, *Lancet*, 17;388(10050):1193-201. doi: 10.1016/S0140-6736(16)30445-7
 11. Hiscox A , T Homan, CK Mweresa, N Maire, A Di Pasquale, D Masiga, PA Oria, J Alaii, C Leeuwis, **WR Mukabana**, WillemTakken and Thomas A. Smith TA, 2016, Mass mosquito trapping for malaria control in western Kenya: study protocol for a stepped wedge cluster-randomised trial, *Trials*, 17:356
<http://trialsjournal.biomedcentral.com/articles/10.1186/s13063-016-1469-z>
 12. Mweresa CK, **Mukabana WR**, Omusula P, Otieno B, Van Loon JJ, Takken W., 2016, Enhancing Attraction of African Malaria Vectors to a Synthetic Odor Blend. *Journal of Chemical Ecology*. 42(6):508-16. doi: 10.1007/s10886-016-0711-1
<http://link.springer.com/article/10.1007/s10886-016-0711-1?view=classic>
 13. Silkey M, Homan T, Maire N, Hiscox A, **Mukabana WR**, Takken W, Smith TA., 2016, Design of trials for interrupting the transmission of endemic pathogens. *Trials*. 2016 Jun 6;17(1):278. Doi: 10.1186/s13063-016-1378-1.
<https://trialsjournal.biomedcentral.com/articles/10.1186/s13063-016-1378-1>
 14. Homan T, di Pasquale A, Onoka K, Kiche I, Hiscox A, Mweresa C, **Mukabana WR**, Masiga D, Takken W, Maire N., 2016, Profile: The Rusinga Health and Demographic Surveillance System, Western Kenya. *International Journal of Epidemiology*, 45(3):718-27
<http://ije.oxfordjournals.org/content/early/2016/05/12/ije.dyw072.short?rss=1>
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