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#### SUMMARY OF ACADEMIC QUALIFICATIONS

2004: Ph.D in Zoology- Immunobiology , University of Madras,  
India.  
1997: MSc. in Zoology-Annamalai University, India.  
1995: BSc. in Zoology,Botany and Chemistry- Mohanlal  
Sukhadia University, India.

#### AREAS OF RESEARCH INTEREST

- i.Medicinal plants and complementary medicine
- ii.Immunobiology and immunopathology of marine/aquatic invertebrates
- iii.Malaria and vector biology & ecology
- iv.Vermitechnology
- v.Sex reversal & monosex fish culture and aquaculture
- vi.Applications of biotechnology in environment management

#### SELECTED PUBLICATIONS IN PEER REVIEWED/REFEREED JOURNALS

- i. James G. Kiboche, Philip A. Ogutu and Anne Naliaka Mutsami. Assessment of Uptake of Cervical cancer Screening services among Women of Reproductive Age in Khwisero Sub-County, Kakamega County, Kenya. *Int. J. Comm. Medicine & Public Health*. 2021 Jan; 8(1) :111-118. <http://www.ijcmph.com>
- ii. Nicholas Kimutai K., Philip A. Ogutu and Charles Mutai. Antibacterial activities of extracts of Selected Medicinal Plants from Nandi County ,Kenya. *Asian Jr. Microbiol. Biotech. Env. Sci.* Vol.22, No (3): 2020;541-547.
- iii.Nicholas Kimutai K., Philip A. Ogutu, Charles Mutai and Pascaline Jeruto. Ethnobotanical study of selected medicinal plants used against bacterial infections in Nandi county, Kenya. *J. Medicinal Plants Studies* 2019: 7(4): 103 -108.

- iv. Philip A. Ogutu. Vermicomposting Water Hyacinth: Turning Fisherman's Nightmare into Farmers' Fortune. *Int. J. Res. & Innov. in Applied Science*. 2019; IV(I) : 12-14.
- v. Roselyne Asiko Abwalaba and Philip Ogutu. Factors Influencing Nurses' competence on Intravenous Fluid Therapy in Under Fives with dehydration in Kakamega County Hospitals, Kenya. *Int. J. Education and Research*. 2018; 6(12): 257 – 266
- vi. Peter Gudo Ogira, David Liti and Philip Ogutu. Feminization of *Oreochromis Niloticus* Using Diethylstilbestrol. *Research Journal's Journal of Agriculture Vol.5 No. 9 October, 2018*
- vii. Susan Odinga, Philip Ogutu and Anthony Sifuna. Conditions for high growth rates of Nile tilapia (*Oreochromis niloticus*) fry in Western Kenya. *Int. J. Fisheries and Aquatic Studies*. 2018; 6(3): 287-291.
- viii. Roselyne Asiko Abwalaba, Philip Ogutu and Samuel Ng'arng'ar. Nurses' competence on intravenous Fluid Therapy in Under Fives with dehydration in Kakamega County. *J. of Nursing and Health Science*. 2018; 7(2): 41-48
- ix. Mulambalah Chrispinus Siteti, Siamba Donald Namasaka, Ogutu Philip Ariya, Siteti Darwin Injete and Wekesa Antony Wanyonyi. Anaemia in pregnancy: Prevalence and possible risk factors in Kakamega county, Kenya. *Science Journal of Public Health*. 2014; 2(3): 216 – 222.
- x. A. Ogutu Philip, P. Mullainadhan, S. Mulambalah Chrispinus and N. Siamba Donald. Characteristics of serum agglutinins in marine crab *Scylla serrata* (Forsk.) and their interaction with various bacteria species. *Int. J. Curr. Microbiol. Appl. Sci.* (2013) 2 (10): 31 – 43.
- xi. Mulambalah CS, Siamba DN and Ogutu PA. Mechanisms of pathogenesis in severe complicated human malaria. *Int. J. Biol. Pharm. Allied Sci.* June, 2013, 2 (6): 1328 – 1344.
- xii. Mulambalah Chrispinus Siteti, Siamba Donald Namasaka, Ogutu Philip Ariya. Safety profile of concomitant administration of Artemisinin based therapy and calcium compounds in laboratory animals. *Int. Res. J. Pharm.* 2013, 4 (5) : 106 – 110 .

#### CONFERENCE PAPERS/PRESENTATIONS

- 19<sup>th</sup> -21<sup>st</sup> June 2019: 13<sup>th</sup> Multidisciplinary International Conference, 2019. MMUST, Kakamega. “ Encapsulation-suppressing agglutinin isolated from the serum of marine crab *Scylla serrata* (Forsk.) .
- 18<sup>th</sup> -21<sup>st</sup> June 2018: First Pan African International Research Congress on Knowledge Generation and Dissemination at The Grand Royal Swiss Hotel in Kisumu. I presented a paper titled “ Opsonic Activity of an agglutinin isolated from the serum of marine crab *Scylla serrata* .
- 5<sup>th</sup>- 7<sup>th</sup> October 2016: Univen- WSU International Research Conference at The

Ranch Polokwane, Limpopo Province, South Africa. I presented a paper titled “Antibacterial activity of multiple agglutinins isolated from the serum of marine crab *Scylla serrata* (Forsk.)”.

6<sup>th</sup> – 11<sup>th</sup> June 2016: Commonwealth Association of Technical Universities and Polytechnics in Africa (CAPA) conference at the Pride-in Hotel in Mombasa.  
“ Vermicomposting of Pressmud and Water Hyacinth (*Eichhornia crassipes*) by Earthworm *Perionyx excavatus*.”

#### SUPERVISION OF POST GRADUATE STUDENTS

1.Susan Odinga. SEB/G/02/12 (MSc). Effects of Temperature and 17- Alpha Methyl Testosterone Concentration on Growth and Sex Reversal of Nile Tilapia (*Oreochromis niloticus*) fry. Graduated (MMUST -2018)

2. Roselyne Asiko Abwalaba. HNR/G/12/15 (MNSc). Evaluation of Nurses’ Competence on Intravenous Fluid Therapy in Under Fives with Dehydration in Kakamega County Hospitals, Kenya. Graduated (MMUST- 2018)

3.James Githui.KAK/H/MPH/312/01735 (MPH). Assessment of Uptake of Cervical Cancer Screening Services Among Women of Reproductive age in Khwisero Subcounty, Kakamega County,Kenya.- Submitted thesis (MKU- July 2019), defended thesis (MKU- March 2021). Currently awaiting graduation.

4.Nicholas Kimutai Kogo. SMB/H/03/15 (PhD). Antibacterial Activities of Compounds Isolated From Selected Medicinal Plants from Nandi County, Kenya. Submitted thesis (MMUST- Nov. 2020).- Currently awaiting thesis defence.

5.Kipcho Davis Mukabane. SMP/H/01/2016 (PhD). Malaria Indices among Residents of Gold Mining and Sugarcane Farming Areas in Western Kenya Highlands. Ongoing ( MMUST)

6. Hellen Awuor Jaoko. SAT/G/01-53924/2017 (MSc). Ecology of Mosquito Vectors on the Slopes of Mount Elgon, Western Kenya Highlands.- Ongoing (MMUST)

7. Sr.Mukumu Catherine Agnes. SAP/H/01-52757/2018 (PhD). Efficacy of Aloe vera (*Aloe barbadensis*), Garlic (*Allium sativum*) and Metformin Drug in the Management of Pathophysiology of Alloxan-induced Diabetes mellitus in Rats. Ongoing (MMUST)

8. Gitau John M. SBB/H/01-53968/2019 (PhD). Molecular Profiling of Differentially Expressed Genes in Nile Tilapia (*Oreochromis niloticus*) subjected to Chronic Stress: Association with Growth Performance.-Ongoing (MMUST)

#### EXAMINATION OF POST GRADUATE THESES

1.EMMANUEL M. KHAZALWA (SIM/G/01/2015). Hemocytopenias and immune status of HIV infected Treatment Naïve Injection Substance Users from Mombasa City,Kenya. September 2018. (MSc MMUST)

2. ERIC OLIANG' A MIRENGA (SBB/G/01/2015). Molecular Characterization of Chlorpyrifos and Diuron Degrading Bacteria Isolated from the Nzoia River Drainage Basin. September 2018. (MSc MMUST)
3. Janepher Abuti Ogot (HPE/G/03/2015). A study on utilization and Communication Technology in Teaching and Learning in Medical Training Colleges within Kakamega. October 2018. (MSc MMUST)
4. Chrisostim Wafubwa Mang'oli (SAT/G/01/2015). Assessment of The Effects of Anthropogenic Activities on Insect Pollinator and Entomophilous Plants Diversity and Abundance within Kakamega Forest, Kenya. September 2019. (MSc MMUST)
5. Jew Ochola Ouma (MSI/G/01/14). Immunophenotypic Characterization of HIV Infected Subjects and Hematological Reference Ranges in Children from Kisumu West Subcounty. October 2019. (MSc MMUST)
6. Werunga Kevin Daniel (SMP/G/03/14). Prevalence and Intensity of Intestinal Helminth Infections in Pre- School Pupils in Lugari Sub-county, Kakamega. December 2019. (MSc MMUST)
7. Walter Kibet Yego (HOV/G/55816/2016). Visual Outcome in Keratoconic Patients Using Rigid Gas Permeable and Scleral Contact Lenses At Muthaiga Eye Clinic In Nairobi, Kenya. June 2020. (MSc MMUST)

#### MEMBERSHIP TO PROFESSIONAL BODIES:

- i. Member, Bioethics Society of Kenya (BSK)
- ii. Member, Kenya Society of Immunology (KSI).
- ii. Member, International Union of Immunological Societies (IUIS)

#### PROFESSIONAL TRAININGS

- 20th – 24th July 2020: Fundamentals of Bioethics Certificate Course, CBEC-KEMRI Bioethics Training Initiative. (Virtual)
- 25th – 27th Feb. 2019: 1<sup>st</sup> KSI Introductory Immunology course held at the Institute of Primate Research, Nairobi
- 10th - 13th Sept. 2018: Certificate Course in Research Ethics for Institutional Ethics Review Committees, by NACOSTI at ARC Hotel, Egerton University.

#### MANAGERIAL TRAININGS

- 11<sup>th</sup> -13<sup>th</sup> March 2020: Training on Financial Management, MMUST cost centre heads, at Kisumu Hotel, Kisumu City.
- 2<sup>nd</sup> – 3<sup>rd</sup> May 2019: Training on Corporate Governance, -MMUST Senate, Eldoret
- Aug - Oct. 2018 : Certificate of Proficiency- Senior Management Course, The Kenya

Institute of Management  
26<sup>th</sup> – 28<sup>th</sup> March 2018: Training on Strategic Leadership and Management of Higher  
Education Institutions. MMUST

#### MINISTRY/CHRISTIAN SERVICE TRAININGS

2015: Diploma in Discipleship and Evangelism Ministerial Training Course, Donkrow  
Ministries, Colorado, US.

2003: Bachelor of Ministry, Prince of Life Bible College, Chennai- India.

#### SEMINARS /WORKSHOPS ATTENDED

3<sup>rd</sup> -4<sup>th</sup> July 2019: Workshop on Exploring Biophysics Diversity for sustainable Industrial  
And Economic Development, at Masinde Muliro University of  
Science and Technology.

3<sup>rd</sup> – 6<sup>th</sup> Nov.2015: Participated in 2015/2016 MMUST Performance Contract Negotiation  
and Vetting.

24<sup>th</sup> June 2014: Workshop for Curriculum Development, Review & Implementation for  
the Faculty of Science. Masinde Muliro University of  
Science and Technology.

23<sup>rd</sup> -24 Jan. 2014: University Multiplication Training Workshop on Curriculum  
Development and Review for Public Universities in Kenya:  
Implementation and accreditation. Masinde Muliro University of  
Science and Technology.

3<sup>rd</sup> – 6<sup>th</sup> July 2012: AIDS Control Unit Training workshop on “ Intergrating HIV/AIDS  
into  
University Functions . Busia Farmers Training Institute. Organized by  
National Aids Control Council in conjunction with MMUST.

22<sup>nd</sup> Feb. 2012 : Sensitization Workshop on Opportunities under ST & I Grant, organized  
by MMUST and NCST at Masinde Muliro University of Science and  
Technology.

3<sup>rd</sup> Feb. 2012 : 2<sup>nd</sup> Symposium on Academic Linkages on promoting internalization of  
education through collaboration and partnership with the theme, “  
Academic Linkages: strategies, opportunities, challenges and future, at  
MMUST.

1<sup>st</sup> -2<sup>nd</sup> Dec. 2011: Training and sensitization Workshop on Intellectual Property (IP)  
Policy Development and Patenting. Masinde Muliro University of  
Science and Technology in collaboration with Kenya Industrial Property  
Institute.

4<sup>th</sup> Nov. 2011 : Career in Cancer research: Challenges of cancer surveillance in  
Western Kenya and Burkitts Lymphoma- cancer caused by Epstein

## Barr Virus(EBV)

6<sup>th</sup> – 8<sup>th</sup> June 2011: International Conference on Forest Biodiversity, Conservation and Climate Change. Masinde Muliro University of Science and Technology.

8<sup>th</sup> March 2011 : ISO Training and Awareness. Masinde Muliro University of Science and Technology

15<sup>th</sup> –27<sup>th</sup>Aug: 2010: Capacity Building in ICT and pedagogy: Leadership through Staff Development, at MMUST

6<sup>th</sup> – 7<sup>th</sup> May 2010: E –Resources Training Workshop on Research 4life and TEEAL Programmes. Masinde Muliro University of Science and Technology.

17<sup>th</sup> -18<sup>th</sup> Feb. 2010: 2<sup>nd</sup> International Health Care Conference. Masinde Muliro University of Science and Technology.

11<sup>th</sup> -22<sup>nd</sup> Jan. 2010: Training course on Capacity Building in Higher Education:- Enhancing Teaching Effectiveness, ICT for Capacity Building& Project Management & Data Anlysis. Masinde Muliro University of Science and Technology.

13<sup>th</sup> - 14<sup>th</sup> Aug. 2009: Workshop on Quality Assurance in Academic Programmes. Masinde Muliro University of Science and Technology.

18<sup>th</sup> – 19<sup>th</sup> Feb. 2002: National Symposium on Physiology and Biochemistry of Cultivable Crustaceans. “ Detection and isolation of multiple lectins from the hemolymph of marine crab *Scylla serrata*(Forsk.)” Department of Zoology, University of Madras, India.

8<sup>th</sup> – 9<sup>th</sup> Dec. 2000: Workshop on “Immunity and Inflammation: Demonstration of Antigens in Tissue Sections.” Department of Biotechnology, University of Madras, India.

## FACILITATION IN SEMINARS/WORKSHOPS

Workshop by MMUST Institutional Ethics Review Committee (IERC) and Directorate of Research and Post Graduate Support (DRPS): 30<sup>th</sup> January, 2020

Facilitation topic: Biosafety

## TEACHING EXPERIENCE

APRIL 2021- To date: Senior Lecturer, Department of Biological Sciences, MMUST

JUNE 2008- March 2021: Lecturer, Department of Biological Sciences, MMUST

Courses Taught: Physiology, Immunology, Parasitology, Biochemistry and Endocrinology (both undergraduate and post graduate levels in the department of Biological Sciences). Also taught Medical Biochemistry at undergraduate level in SONMAPS & SPHBST.

SEPT. 2012- 2017: Associate faculty, Department of Medical Laboratory Sciences, School of Health Sciences, Mount Kenya University, Kakamega Campus  
Courses Taught: Clinical Immunology, Epidemiology (undergraduates); Principles of Public Health, Communicable and Non- Communicable Diseases Epidemiology (Master of Public Health)

June 2006 – April 2009: Adjunct faculty, United States International University, Nairobi.  
Courses Taught: Human Physiology

June 2006 – Dec. 2008: Adjunct faculty, University of Nairobi  
Courses Taught: Biological Anthropology, Human Genetics & Biochemical Anthropology, Human Growth & Constitution , Primatology

Jan. 2006 – Aug 2006: Adjunct faculty, Kenya Methodist University, Meru.  
Courses Taught: Advanced Microbiology, Medical Biochemistry, Immunology, Epidemiology (undergraduate)

Sept. 2015 – July 2008: Adjunct faculty, Kenyatta University, Nairobi.  
Courses Taught: Cell Biology & Genetics, Medical Biochemistry (undergraduate- Department of Nursing); Human Anatomy, Physiology and Immunity( Diploma- Department of Public Health); Medical Biotechnology, Population Genetics (postgraduate level- Department of Biochemistry)

Sept. 2007 – July 2008: Adjunct faculty, Department of Zoology, Jomo Kenyatta University of Agriculture & Technology  
Courses Taught: Cell Biology & Genetics; Cellular Immunology & Immunogenetics (postgraduate level)

#### UNIVERSITY APPOINTMENTS/ADMINISTRATIVE EXPERIENCE

January 2<sup>nd</sup> 2018 - to- date : Chairman, Department of Biological Sciences

2018:Chair, Hospitality Sub-Committee for the World Conference of Transformative Education (WCTE), MMUST, Kakamega.

2018:Chair, Hospitality Sub-Committee for the 1<sup>st</sup> Pan African International Research Congress Research Generation and Dissemination, Grand Royal Swiss Hotel, Kisumu.

2019- To date: Ag. Secretary, MMUST Institutional Ethics Review Committee

2015-To date: Member, MMUST Institutional Ethics Review Committee (IERC)

June 1<sup>st</sup> – 31<sup>st</sup> May 2019: Member of the public speakers and event movers committee.

2011/2012: Member, Ad-hoc Committee on the Establishment of the Department of Medical Laboratory Sciences at Masinde Muliro University of Science and Technology.

#### DEPARTMENTAL APPOINTMENTS/ ACTIVITIES.

Oct.2016 – To January 2018: Coordinator, Industrial Attachments.  
August 2014 - To Jan 2018: Departmental Academic Advisor, first year students  
Sept. 2010 – Oct. 2015: Departmental Exams and Timetable coordinator.

## PROFESSIONAL APPOINTMENTS

Rapporteur/ Chair: 13<sup>th</sup> Multidisciplinary International Research Conference-  
MMUST,2019

Rapporteur/ Chair: 1<sup>st</sup> Pan African International Research Congress on Knowledge  
Generation and Dissemination-KISUMU,2018

Rapporteur/ Chair: 2<sup>nd</sup> UNIVEN/WSU International Research Conference-  
POLOKWANE, South Africa-2016.

## COMMUNITY SERVICE

2015-to- date: Serving as a pastor at Dominion Worship Church, Kakamega.

2015-to –date: Serving as the Chaplain, Gideons International, Kakamega Camp. Offering  
pastoral services to members, and distributing Bibles to schools, colleges and universities,  
hospitals, hotels and prisons in Kakamega County

## EXTRA – CURRICULAR ACTIVITIES

Football and volleyball

## REFEREES

Dr Joseph Owino  
Senior Lecturer & Dean, School of Natural Sciences  
Masinde Muliro University of Science and Technology  
P.O Box 190, Kakamega- 50100.  
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Dr Millicent Ndong'a  
Senior Lecturer & Former COD  
Department of Biological Sciences  
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Prof. Lt. Col (Rtd) John Okoth  
Former Executive Dean,  
School of Nursing, Midwifery & Paramedical Sciences  
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