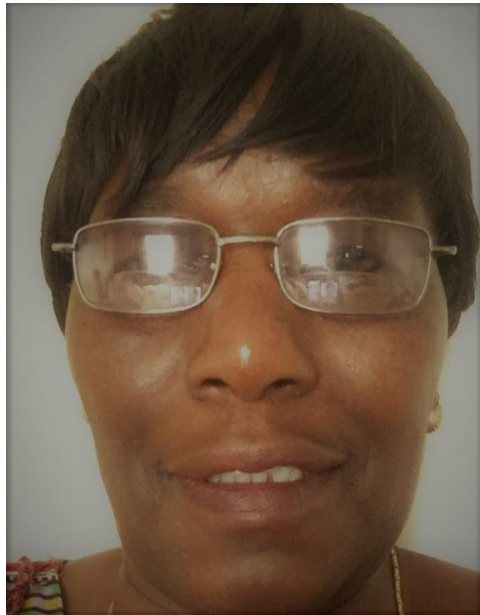


CURRICULUM VITAE

2020



Professor Jemimah Achieng Oduma, Associate Professor of Physiology,
Department of Veterinary Anatomy and Physiology, Faculty of Veterinary Medicine,
College of Agriculture and Veterinary Sciences, University of Nairobi.

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1.0 PROFILE

Prof. Jemimah Oduma was born in Siaya County, Bondo Sub-County, Kenya. She undertook her formal University education at the University of Dar es Salaam, Tanzania where she studied Botany, Zoology with Education, obtaining an Upper Second Class degree. She joined Alliance Girls High School as a biology teacher and head of department. After six years at Alliance Girls, she joined the University of Nairobi in 1982 as an administrator during which she studied on part time basis and obtained an MSc and later in 1998 a PhD both in physiology, specializing in Mammalian Reproductive Biology. After the MSc, she joined academics as lecturer and later as senior lecturer upon obtaining her PhD. She was later promoted to Associate Professor in the Faculty of Veterinary Medicine, University of Nairobi in 2016. Prof. Oduma has led an active life as an academician, researcher and external Examiner.

Prof. Oduma was appointed Associate Dean of the Faculty of Veterinary Medicine in 2016. During her tenure as Associate Dean, she had several responsibilities at faculty, college and senate levels including; i. Co ordination of courses taught at pre-clinical levels to Faculty students; ii. Chair of two college committees namely, College Gender and Disability Mainstreaming and the College Mentorship Program; iii) Chair of Senate sub-committee on Student Safety and Security.

Her research interests centre around mammalian reproduction and in the following research arrears in particular; the effect of toxins, endocrine disruptors and other xenobiotics especially pesticides on mammalian reproductive physiology and endocrinology; natural products/herbal medicines and their effects on mammalian reproductive performance. Some of the research findings, many of which have come from student postgraduate training have been published in several peer reviewed articles. She has also been called upon to review articles for several online journals. She heads the Reproductive Biology Unit a thematic research unit in the Department of Veterinary Anatomy and Physiology which has seen the training of several postgraduate students in the department, Faculty and beyond. For the purposes of training at postgraduate levels, Prof. Oduma has forged links and collaborations with various institutions namely, WHO, Institute of Primate Research (IPR), Kenya; Meharry Medical College and University of

Minnesota both of USA. Currently, she is the Country Lead in an IDRC-Livestock Vaccine Innovation Fund (LVIF) funded project that is being conducted jointly in Kenya, Uganda and Rwanda.

2.0 PERSONAL DETAILS

Name: PROF. JEMIMAH A. ODUMA

Nationality Kenyan
Religion Protestant
Languages English, Swahili, Luo

Address – Off: Department of Veterinary Anatomy and Physiology,
University of Nairobi
P.O. Box 30197
Nairobi

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Nairobi

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Telephone 254-2-448648 (office)
Cell phone 254-722 551 896
254-734 877 908

E-mail joduma@uonbi.ac.ke
odumaja@yahoo.com
joduma82@gmail.com

3.0 PROFESSIONAL AND FUNCTIONAL SKILLS

Professional and Research Expertise

- **Profession: Reproductive Physiologist and Endocrinologist.**

Extensive experience on quantitative data collection and analysis, gained through 25 years of research, training, teaching, seminars, workshops, and conferences in the area of Mammalian Physiology with specific emphasis on Reproductive Physiology. This is evidenced by several publications in peer reviewed journals and conference presentations covering a wide range of topics on the effects of

exposure to environmental pollutants, toxins, natural/herbal products and drugs on mammalian reproductive performance. Have extensive experience on community based research involving qualitative data collection and analysis.

Editorial Skills:

Reviewer for following Journals:-

1. Journal of Medicinal Plant Research (JMPR)
2. International Journal of Water Resources and Environmental Engineering (JWREE)
3. African Journal of Pharmacy and Pharmacology (AJPP)
4. Direct Research Journal of Health and Pharmacology (DRJHP)
5. Journal of Human Nutrition And Food Science (JHNFS)
6. Direct Research Journal of Agriculture and Food Sciences (DRJAFS)

Laboratory Techniques:

- * Molecular Biology techniques including PCR in DNA/RNA isolation; Analytical techniques such as RIA, ELISA, EIA, HPLC; Protein purification and Characterization,. Cell and tissue culture techniques, Semen analysis and Histology among others.

Computer Literacy:

- MS word, Microsoft Excel, Microsoft Access, Outlook, Power Point, Harvard Graphics, Web Design, Data base analytical software including SPSS, SAS.

4. 0 UNIVERSITY EDUCATION AND POSTGRADUATE TRAINING

4.0.1 UNIVERSITY EDUCATION

Qualification	University	Duration	Scholarship

Doctor of Philosophy (Mammalian Physiology)	University of Nairobi	1992-1998	University of Nairobi Dean's committee Grant Norad and DAAD scholarship
Master of Science (Reproductive Physiology)	University of Nairobi	1984-1988	WHO/HRP Training scholarship
Bachelor of Science (with Education) Upper Second Class Honors	University of Dar es Salaam	1972-1975	Kenya Government Scholarship

4.0.2 . POSTGRADUATE TRAININGS: SHORT COURSES AND WORKSHOPS

Course/Workshop	Institution/Trainer	Duration and Qualification	Sponsor, Travel/Training Grant
Qualitative Data Analysis Workshop	IDRC-LVIF	February	IDRC/OHCEA
VVC Stakeholder's Engagement	Nairobi, Kenya.	January 29, 2020	IDRC
Meeting -IDRC/LVIF Senior Project Manager	IDRC Hq, Nairobi, Kenya.	January 20 -23, 2020	IDRC-LVIF
VVC Stakeholder's Workshop in Kigali, Rwanda.	University of Global Health-Kigali	November 6, 2019	IDRC-LVIF
Outcome Mapping Training Workshop	Nairobi, Kenya	August 20-22,2019	IDRC-LVIF
Gender Analysis and Methodologies training Workshop.	University of Nairobi, Kenya	August 5-9,2019	IDRC-LVIF
Gender analysis Training	Mbarara, Uganda	July 8th -12th, 2019.	IDRC- LVIF

Gender/ IDRC's LVIF Joint Core Team Inception Workshop	Maanzoni/Nairobi, Kenya	May 11th - 18th 2019	IDRC-LVIF
Gender and Disability Mainstreaming Forum	AGPO -Kenya	September 8 th . 2017.	AGPO-Kenya and UoN
The OHCEA Field Experiential Learning Harmonization Workshop	Kigali-Rwanda	August 14 th – 16 th 2017.	OHCEA
The OHCEA Modules Review Workshop	Kampala- Uganda	November 9 th - 12 th 2016	OHCEA
The OHCEA Modules Development Workshop	Kampala- Uganda	May 9 th -13 th , 2016	OHCEA
Gender Training	Dar es Salaam	March, 2016	OHCEA
First Aid at Work Refresher Course	St John Ambulance Nairobi	January, 2015 Certificate	Self
First Aid at Work Refresher Course	St John Ambulance Nairobi	March, 2013 Certificate	Self
Course on Performance Enhancement	Empowerment Resource Technologies Ltd and University of Nairobi	28 th – 29 th July, 2012-Certificate of Participation	University of Nairobi
First Aid at Work Course	St John Ambulance Nairobi	23 rd – 27 th May, 2011 Certificate of Competence	University of Nairobi
Training on Disaster Management	University of Nairobi	7 th -8 th February,2011	University of Nairobi
Workshop on Strategies for Promotion of good animal welfare in Kenya	Agricultural Information Resource Centre	28 th to 29 th Oct, 2010- Certificate of Participation	University of Nairobi
Prepare-PhD project – PhD Training and	University of Nairobi	2 nd – 4 th March 2010- Certificate	University of Nairobi

Supervision		of Training	
Course on Performance Enhancement Strategies	University of Nairobi and Empowerment Resource Technologies Ltd an	31 st January, 2009- Certificate of Participation	University of Nairobi
Training Course on Occupational Safety and Health	UON and Ministry of Labour and Human Resource Development - Directorate of Occupational Health and Safety Services:	13 th – 16 th March, 2007- Certificate of Participation	Univeristy of Nairobi
Stakeholder’s workshop on the Implementation of Animal Welfare Training in the Faculty	University of Nairobi and WSPA	25 th – 30 th Nov, 2007	University of Nairobi
Workshop on Scientific Proposal Writing	University of Nairobi and	19 th – 25 th Nov, 2006 - Certificate	University of Nairobi and RAIN ASARECA
National Workshop on Quality Management	University of Nairobi and	23 rd – 26 th August, 2005 - Certificate	Network of Users of Scientific Equipment in Eastern and Southern Africa (NUSESA)
Regional Workshop on Laboratory Management	National University of Lesotho - Roma,	31 st May – 4 th June- 2004 Certificate	NUSESA
Asynchronous E-content Development for E-learning –	KWSTI Naivasha, Kenya:	2004	VLIR – IUC /University of Nairobi
Workshop on Science and Technology Policy for sustainable Development in Kenya	Milimani Hotel, Nairobi, Kenya	11 th – 12 th November, 2004 - Certificate of Attendance	DAAD and KDSA(UON Chapter)
Semenology Training	University of	2 nd -6 th	

Workshop for Sub-Saharan African Health Care Workers -	Stellenbosch/Tygerberg Hospital, Cape Town South Africa	December, 2002 - Certificate of Training	UNDP/UNFPA/WHO and World Bank,
Professional Skills for Scientists	Safari Park Hotel, Nairobi:	21 st -22 nd April, 2001-Certificate of Attendance	Society of Neuroscientists of Africa
UNESCO-ICRO International Training Course on Cell and Molecular Biology of Early Development	Mombasa Marine and Fisheries College	8 th -20 th February, 1999-Certificate	UNESCO-ICRO
International Training Course on Molecular Biology Techniques for Researchers and Scientists	Department of Biochemistry, University of Nairobi	20 th January - 15 th February, 1997 - Certificate	Netherlands Government/ Kenya Agricultural Biotechnology Platform
Workshop on Imaging Cellular Dynamics during Development and Reproduction	University of Witwatersrand Johannesburg, South Africa.	January, 1996 - Certificate	UNESCO-ICRO
Analytical Techniques as part of the PhD studies	Justus Liebig University, Giessen, Germany	June – October, 1994	DAAD Research Fellowship
Analytical Techniques in Pesticide Research	University of St Andrews	April – June, 1993	UON/St Andrews Link
IAEA: Regional Training Course on Control and Safe use of Radiation Sources	Centre for Nuclear Science, University of Nairobi.	28 th September - 23 rd October, 1992Certificate	IAEA
First Congress and Teaching Workshop of the African Association of Physiological Sciences	Milimani Hotel, Nairobi	21 st – 28 th September, 1992Certificate	Kenya Physiological Society
Training Course on In-vitro Techniques for	Institute of Primate Research	August, 1990 Certificate of	Commonwealth Regional Health

Research in Reproduction		Attendance	Secretariat and Rockefeller Foundation
Neuroscience Workshop	University of Nairobi and	4 th -9 th December, 1989 Certificate of participation	IBRO/UNESCO
British Council Course - Immunology of Reproduction	Cambridge University.	9 th -21 st April, 1989 - Certificate	British Council
Reproductive Biology and Research Methodology Course	University of Nairobi	1 st -28 th August, 1988 - Certificate.	University of Nairobi/ NCRR
WHO Workshop on Andrology	University of Nairobi.	1985	WHO
Workshop on Standardization and Quality Control of RIA	University of Nairobi	1981- Testimonial.	WHO/HRP

5.0 UNIVERSITY TEACHING AND TRAINING EXPERIENCE

- 2016- present Associate Professor of Physiology, Department of Animal Physiology, University of Nairobi.
- 2012 - 2014 External Examiner – Makerere University, Kampala Uganda
- 1999-2015 Senior Lecturer, Department of Animal Physiology, University of Nairobi. Responsibilities include conducting lectures and practicals in all areas of physiology to undergraduates of Veterinary Medicine, Agriculture, Food Science Technology, Range Management, Biomedical Laboratory Technology and Wildlife Management and Related options.

- Specialized lectures to postgraduates including Master of Science in Biology of Conservation, Reproductive Physiology, Comparative Mammalian Physiology, Animal Production, Genetics and Nutrition, Natural Products, Biotechnology
- Training, supervision and examination of MSc and PhD students.

1989-1999 Lecturer, Department of Animal Physiology, University of Nairobi. Teaching animal physiology to undergraduate students in Veterinary Medicine, Range Management, Agriculture, Food Science Technology,
Wildlife Management, Biomedical Technology and Biochemistry

6.0. TRAININGS OUTSIDE THE FACULTY

1. Certificate program in Laboratory Techniques and Practice – Government of South Sudan.
2. Laboratory Animal Science (FELASA)
3. Health and Safety in the Workplace – KWS staff.
4. First Aid at work – KWS staff
5. Julie Francois – Laboratory Attachment - Ecole Nationale Veterinaire – France

7.0 POSTGRADUATE SUPERVISION

Name	Registration	University	Degree	Status	Manuscripts	Publications
Dr Kaingu, C. K.		University of Nairobi	MSc	Completed	-	2
Dr.		Universwity of	MSc	Completed	-	1

Kipyegon,A. K		Nairobi				
Ms. Onchaga, S. K	J56/81359/2 012	University of Nairobi	MSc	Data collection/	-	-
Ms. Vulogosi, B.		Kenyatta University	MSc	Completed	1	-
Mr. Mwinami, T	J56/60311/2 013	University of Nairobi	MSc	Thesis correction	-	1
Dr. Joseph Kamongo		South Eastern University	MSc	Completed	-	1
Mrs Judith Achoki	MPS22/700 10/14	Kisii University	MSc	Completed	-	1
Dr Linnet Kaaria		University of Nairobi	MSc	Writing up	-	-
Dr Joyce Maina		University of Nairobi	MSc	Proposal Developme nt	-	-
Mr. Lucky Kitoga		University of Nairobi	MSc	Proposal Developme nt		
Ms Jeanette Nkatha		University of Nairobi	MSc	Proposal Developme nt		
Dr. Nyongesa, A. W.		University of Nairobi	PhD	Completed	-	3
Ms. Etsey, A.N.		UON/Universit y of Ghana	PhD	Completed	-	1
Dr. Kaingu, C.K.		University of Nairobi	PhD	Completed	-	3
Dr. Ochwangi, D.		University of Nairobi	PhD	Completed		3
Dr. Kipyegon, A.		University of Nairobi	PhD	Completed	-	3
Dr. Valence Mutwedu		University of Nairobi	PhD	Data collection		-

8.0 BOARD OF EXAMINERS FOR MASTERS AND PHD THESES

- 1, **Internal Examiner** for Ms Vulogosi. M.Sc Herbal plants used for treatment of retained placenta in Vihiga County, Kenya.
- 2, **Internal Examiner** for Dr. Odhiambo Dennis Ochieng. M.Sc Cross Species Amplification and Genetic Structure of Wild Population of Endangered Grevy's Zebra in Kenya
3. **Internal Examiner** for Dr. Ronald Onzago Okindo. MSc. The antimicrobial, analgesic and toxicity properties of Vernonia hymenolepis, a medical plant used for toothache in Kenya. (Faculty of Vet Medicine)
- 4 **Internal Examiner** for Dr. Albert Nyongesa. PhD. Mechanism of action of purified cathinone from Khat (*Catha edulis*) on behavioral and reproductive function in vervet monkeys (*Chlorocebus aethiops*).
5. **Internal Examiner** for Dr. Catherine K. Kaingu MSc. In Vitro study of Ricinus communis and Euclea divinorum extracts on isolated rabbit uterus.
6. **Internal Examiner** for Dr Ruth Akinyi Origa. MSc. Comparative Assessment of fertility characteristics of bull semen in Kenya based on in-vivo and in-vitro criteria
7. **Internal Examiner** for Dr. David Kiprotich Kios PhD thesis. Factors Affecting Quantity and Quality of Dairy Cattle Embryos and Adoption of Embryo Transfer Technology in Kenya.
8. **Internal Examiner** for Ms Linnet Kaaria MSc. Evaluation of Asparagus Racemosus from Nakuru County, Kenya on Selected Female Reproductive Parameters using the Wistar Rat
9. **Internal Examiner** for Wafula David Kayaja Msc. Effects Of Adulterated and Re-Used Cooking Fat on Metabolic Syndrome In Male Sprague Dawley Rats (*Ratus Norvegicus*)
10. **Board Member** for MS Beth Ndunda – PhD (CBPS)
11. **Board Member** for Dr. Orange - PhD (FVM)
12. **Board Member** for Dr. Thuo Jesse Ndung'u – MSc (FVM)
13. **Board Member** for Dr. Johnson Nasimolo – MSc (FVM)
14. **Board Member** for Mr. David Mbugua – MSc (FVM)
15. **Board Member** for Dr, Moraya Joan. MSc (FVM)

16. **Board Member** for Dr. Brian Lishenga Makamu.MSc (CHS)

17. **Board Member** for Mr. Mwangi Ngachu, MSc (FVM)

9.0 POSITIONS HELD WITHIN THE UNIVERSITY OF NAIROBI

2016 – 2019 Member, University Senate

2016 – 2019 Member, University Deans Committee

2017 – 2019 Chairperson, Senate Committee, Student Security and Safety.

10.0 POSITIONS HELD WITHIN THE COLLAGE OF AGRICULTURE AND VETERINARY SCIENCES -CAVS.

2016 - 2019 Chairperson – College Gender and Disability Committee

2016 - 2019 Chairperson - College Mentorship Committee

2016 – 2019 Member, College Management Board

2016 – present Member, College Academic Board

2016 – 2019 Member, College Corruption Prevention Committee

11.0 POSITIONS HELD WITHIN THE FACULTY.

2018 – Member, Faculty of Veterinary Medicine Biennial Scientific Conference Organizing Committee.

2016- present Associate Dean Faculty of Veterinary Medicine.

2014- 2016 Member, Faculty of Veterinary Medicine Biennial Scientific Conference Organizing Committee. Awarded Certificate of Facilitation for the 9th Biennial Conference.

2012. Acting Associate Dean, Faculty of Veterinary Medicine.

2008- Member, Steering Committee, Wangari Maathai Institute for

2007-2008	Peace and Environmental Studies, University of Nairobi Member, LOC; 5 th International Congress of Physiological Society.
2006 - present	Member, College of Biological and Physical Sciences Health and Safety Committee.
2004-2008	Member, Faculty of Veterinary Medicine Biennial Scientific Conference Organizing Committee
2003 - 2016	Chairperson, Faculty Committee in charge of student Attachments, Field Trainings and Research Projects for all undergraduates.
2002 - 2008	Member, Faculty Postgraduate Committee
2002 - 2014	Member, Faculty Committee on Module 11 Policy and Guidelines.
1998:1999	Member of special faculty committee appointed to develop a curriculum for the degree of B.Sc. in Biomedical Laboratory Technology. The course was approved by Senate.

12.0 POSITIONS HELD WITHIN THE DEPARTMENT OF VET ANATOMY AND PHYSIOLOGY
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2013- 2016	Section Head - Physiology
2012 -2019	Acting Chairman Department of Veterinary Anatomy and Physiology (several different occasions).
2013 – 2018	Convener Departmental adhoc Committee on Laboratory Techniques and Practice – charged with developing the curriculum for the newly introduced course. Course was approved by Senate and is currently being offered to BVM students.
2010 – 2016	Departmental IGU, Executive Committee – alternate Chairman – Lead person in one of the IGU’s assignments from the Ministry of Livestock to monitor the presence of hormones and growth promoters in Kenyan cattle.
2013- 2016	Chairman, Departmental Curriculum Committee
2000- present	Member and past Chairman- Departmental Welfare Association.

2005 -present	Coordinator, Reproductive Biology Unit. (RBU). A research laboratory specializing in research on reproduction in collaboration with national and international research organizations, e.g Princeton University. RBU has been a WHO collaborating centre.
1990 - 1998	Acting Chairman, Department of Animal Physiology. (several different occasions)
1989 – 1990	Senior Technologist
1981 - 1989:	Administrator/Chief Technologist Reproductive Biology Unit, Department of Animal Physiology. Responsibilities included organization and co-ordination of research activities within the Unit as well as collaboration with other National Research centers eg. IPR (Institute of Primate Research), KEMRI (Kenya Medical Research Institute) and other University Departments e.g. Dept. of Obs & Gynae. Collaboration with HRP (Human Reproduction Program) of WHO in the EQC program and Research projects

13.0 POSITIONS HELD OUTSIDE THE UNIVERSITY OF NAIROBI

2012 - 2014	External Examiner, Makerere University, Kampala, Uganda.
2012- 2014	Consultant/Trainer with UNES– Health and Safety in the Workplace
2002 - 2007	East Africa Region Project Coordinator- Premiere International Healthcare Inc. Providing coordination and administrative support to HIV/AIDS and Malaria drug trial monitors in East and Central Africa.
1975-1982:	Examiner; Team Leader - Kenya National Examination Council.
1975 -1981:	Biology Teacher and Head of Biology Department - Alliance Girls High School, Kenya.
1978 – 1981:	Young Farmers Clubs of Kenya Association. National Committee Member.
1975-1981	Patron, Young Farmer’s Club. Alliance Girls High School.

14.0 SELECTED CONFERENCES, SYMPOSIA AND MEETINGS ATTENDED

14.0.1 PROFESSIONAL

1. University of Nairobi, Faculty of Veterinary Medicine –9th Biennial Scientific Conference and Exhibition (2014) – Certificate of Facilitation.
2. University of Nairobi, Faculty of Veterinary Medicine –7th Biennial Scientific Conference and Exhibition (2012).
3. Wangari Maathai Institute (WMI) Strategic Planning Workshop/Meeting. Naivasha Simba Lodge, Kenya (16th -18th July, 2010)
4. Wangari Maathai Institute (WMI) Working Committee Meeting – Jacaranda Hotel, August 22nd, 2009.
5. University of Nairobi, Faculty of Veterinary Medicine –6th Biennial Scientific Conference and Exhibition (.2008)
6. Visiting Scholar and Consultant- Meharry Medical College, Nashville, USA. July to Oct 2008. **Travel Grant From Meharry**
7. University of Nairobi, Faculty of Veterinary Medicine –5th Biennial Scientific Conference and Exhibition (Sept. 2006) – Certificate of Appreciation
8. University of Nairobi, Faculty of Veterinary Medicine – 4th Biennial Scientific Conference. (Nov. 2004).
9. Faculty of Veterinary Medicine Workshop on Strategic Plan for the next 10 years. Abadares, Kenya (10-24th September 2003).
10. International Symposium - “Ex Ovo Omnia: From the Egg Everything” - Johannesburg, South Africa, (1996). **Travel Grant from UNESCO-ICRO**
11. Resource Person - International Workshop on Impact of Environment on Reproductive Health - Copenhagen, Denmark (1991). **Travel Grant from WHO and Danish Government.**
12. Visiting scholar – WHO Headquarters - Geneva (1991) **Travel Grant from WHO**
13. 3rd European Congress on Cell Biology - Firenze, Italy (1990). **Travel Grant from NORAD**

14. Seminar on a Decade of Research at the National Centre for Research in Reproduction (NCRR). Sponsored by Special Programme of Research, Development and Research Training in Human Reproduction, WHO - Nairobi, Kenya (1990).
15. Seminar on Family Planning Research in Rural Kenya with special report on Norplant use in Kenya - Nairobi, (1989).
16. International Conference on Comparative Reproduction in Mammals and Man. Nairobi, Kenya (1987).
17. Joint IAEA/FAO Training Course on Radioimmunoassay and Enzyme immunoassay of Prostaglandins - Nairobi, Kenya (1986).

14.0.2. NON PROFESSIONAL

1. AGGN/DAAD Eastern and Southern Africa regional chapters workshop on Good Governance in Post 2015. Nairobi , Kenya (Jan, 2015). **Grant by AGGN/DAAD**
2. European and Developing Countries Clinical Trials Partnership (EDCTP) Second Annual Forum on HIV/AIDS, TB and Malaria in Africa, Durban, South Africa. (Oct. 2005). **Travel Grant by EDCTP**
4. HIV Care in Minority Communities, A Clinical Update Conference- Atlanta, Georgia. (April, 2000). **Travel Grant from Premiere International Healthcare Inc, Atlanta, GA.**
5. 5th World Congress of Young Farmers - Christchurch - New Zealand (1985). **Travel Grant from International Federation of Young Farmers Clubs/ASK Kenya**
6. International Federation of Young Farmers Exchange Program – Britain (1980). **Travel Grant from 4K Clubs of Britain and ASK Kenya**
7. Workshop on Environmental Education Kenyatta University- Nairobi, Kenya (1979). **Grant from Ministry of Environment and Natural Resources**

15.0 LINKAGES AND COLLABORATIONS

Institute of Primate Research, Karen, Kenya

Princeton University, Washington, USA

Justus Liebig University, Giessen, Germany.

University of Minnesota Medical School, Duluth, Minnesota

Meharry Medical College, Nashville, Tennessee, USA

Makerere University, Kampala, Uganda.

Cummings School of Veterinary Medicine at Tufts University, MA

16.0 RESEARCH INTERESTS

1. The effect of toxins, endocrine disruptors and other xenobiotics especially pesticides on mammalian reproductive physiology and endocrinology.
2. Natural Products/Herbal medicines and their effects on mammalian reproduction
3. Genomic alterations in cancer- the role of pesticides and other toxins in promoting these alterations.
4. The value of nutritional supplementation in the management of HIV/AIDS, and in particular, the nutritional value of some traditional foods and their effectiveness in combination with/ without commercial supplements in the management of HIV/AIDS and other nutrition related ailments.
5. The effectiveness of traditional approaches especially herbal medicines in the management of HIV/AIDS, Cancer and other diseases like STDs, rheumatoid arthritis and epilepsy.
- 6, Vaccine delivery and use among small holder women farmers.

17.0 ON-GOING AND RECENTLY COMPLETED RESEARCH PROJECTS AND POSTGRADUATE TRAINING

1. A pilot study on the influence of Lifestyle factors on the incidence of Breast cancer in African women, in collaboration with Meharry Medical College and Vanderbilt

- University, Nashville TN. (NIH Grant). **Kenya Principal Investigator - Completed**
2. The relationship between epidemiological characteristics, clinical behaviour, histological features, DNA content, cell kinetics and genetic alterations in oral squamous cell carcinoma and their impact on patient prognosis in Kenya in collaboration with the Dental School. (NCST Grant). **Ongoing**
 3. The effect of selected herbal remedies used by Traditional Birth Attendants on the reproductive system. (University of Nairobi Deans Grant). **MSc project – Main Supervisor - Completed**
 4. The anti-fertility effects of aqueous crude extract of ripe papaya seed in the boar. **MSc Project – 3rd Supervisor - Completed**
 5. The effect and mode of action of cathinone on behaviour and male reproductive system. (University of Nairobi Deans Grant, University of Minnesota Grant, Meharry Medical College facilitation). **PhD. Project – Main Supervisor - Completed**
 6. Contraceptive Potential of selected herbs used in Tana River County. (RISE-AFFNET Grant). **PhD. Project – Main Supervisor - Completed**
 7. Pharmacophysiological anti-neoplastic potential of medicinal plants used in Kakamega County, Kenya. (RISE-AFFNET Grant). **PhD. Project – 2nd Supervisor Completed**
 8. Effect of herbal medicines on male reproductive system in the rat (RISE-AFFNET Grant). **MSc Project – Main Supervisor – Ongoing**
 9. Effect of endocrine disrupting compounds in sewage treatment plant affluent on testicular steroidogenesis and ultrastructure of the boar testis. Nairobi River. **PhD. Project - 3rd Supervisor -Completed**
 10. Herbal plants used for treatment of retained placenta in Vihiga County, Kenya. **MSc Project – 2nd Supervisor – Completed.**
 - 11 SheVax+ LVIF/IDRC Project – Hearing their voices: Action research to support women’s agency and empowerment in livestock vaccine distribution, delivery and use in Kenya, Uganda and Rwanda. Funded by IDRC-LVIF - Kenya Lead 2019-2023

18.0 MEMBERSHIP OF ACADEMIC AND PROFESSIONAL SOCIETIES

1. Member - Kenya National Academy of Science
2. Member - DAAD Scholars Alumni Organization.
3. Member - Kenya DAAD Scholars Association
4. Member - Kenya Physiological Society.
5. Member - Kenya Society of Neuroscientists
6. Member - Africa Society for Cell and Developmental
Biology- Kenya
7. Member - Biochemical Society of Kenya.

19.0 MEMBERSHIP OF OTHER ORGANIZATIONS AND CONTRIBUTION TO SOCIETY

1. Member - Young Women Christian Association.
2. Member - Kenya Professional Association of Women In Agriculture
and Environment. (KEPAWAE)
3. Cooperate member - Maendeleo ya Wanawake
4. Member - Parish Church Council, Church of Good Shephard (CGS)
Langata.
5. Chairman - Finance Committee, CGS Langata
6. Chairman - Strategic Plan Steering Committee, CGS Langata
7. Member - Board of Governors - Got Agulu Secondary School,
Yimbo, Bondo District

20.0 PUBLICATIONS

20.0.1 SELECTED CONFERENCE PRESENTATIONS AND PROCEEDINGS.

- 1, Kaingu C.K (2016). Oduma J.A, Mbaria J.M, Kiama S.G. Anti-fertility properties of selected medicinal plants traditionally used as fertility regulators in Tana River County, Kenya. Rise Affnet Workshop. Nairobi Node Meeting. 15 to 18th June 2016 Mash Park Hotel Nairobi, Kenya.
2. Kaingu C.K (2015). Oduma J.A, Mbaria J.M Kiama S.G. Anti-fertility properties of selected medicinal plants traditionally used as fertility regulators in Tana River County, Kenya. Regional RISE-AFNNET Fellows Conference 11th September 2015 at Imperial Royale Hotel, Kampala, Uganda.
3. Ochwang'i, DO, Kimwele CK, **Oduma JA**, Gathumbi PK, Mbaria JM, Kiama SG. (2013). Medicinal plants used in treatment and management of Cancer in Kakamega County, Kenya. 15th. Symposium of Natural Product Chemistry Network for Eastern and Central Africa (NAPRECA). 3-10th Dec, Khartoum, Sudan.
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20.0.2. PEER REVIEWED PUBLICATIONS

20.0.2.1 . Books or Book Chapters.

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2. D. O. Ochwang'i and **J.A. Oduma** (2017). Overview of Government Support Across Africa Toward the Development and Growth of Herbal Medicine. In: Medicinal Spices and Vegetables from Africa: Therapeutic Potential against Metabolic, Infectious and Systemic Diseases. Ed. Victor Kuete: Chapter 6, pg 153-167. Academic Press.

20.0.2.2. Journal Publications after year 2000

1. Linet Mwendu Kaaria, **Jemimah Achieng Oduma**, Catherine Kaluwa Kaingu, Peggoty Chepkoech Mutai, David Kayaja Wafula. (2019). Effect of Asparagus racemosus on selected female reproductive parameters using Wistar rat model. Discovery Phytomedicine. Volume 6, Number 4: 199-204
2. Catherine K. Kaingu, **Jemimah A. Oduma** (2019). Potential of Croton menyharthii and Uvariadendron kirkii aqueous extracts as female Novel contraceptives. Discovery Phytomedicine. Volume 6, Number 3: 112-118

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 19. Nyongesa, A.W.; **Oduma, J.A.**; Nakajima, M.; Odongo, H.O.; Adoyo, P.A.; al'Absi. (2013). Dose –response inhibitory effects of purified cathinone from khat (*catha edulis*) on cortisol and prolactin release in vervet monkeys (*Chlorocebus aethiops*). Metabolic Brain Disease. 28(4):
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20.0.2.3 . Publications before year 2000

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20.0.2.4. PUBLISHED ABSTRACTS

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