

**CURRICULUM VITAE**

**DR. JEMIMAH ACHIENG ODUMA**

*B.SC. HONS; (DAR), M.SC; PH.D; (NAIROBI)*

**UNIVERSITY OF NAIROBI**

**DEPARTMENT OF VETERINARY ANATOMY AND PHYSIOLOGY**

**CHIROMO CAMPUS**

**P.O. BOX 30197,**

**NAIROBI, KENYA**

## CURRICULUM VITAE

### PERSONAL DETAILS

**Name:** **DR. JEMIMAH A. ODUMA**

**Nationality** Kenyan  
**Religion** Protestant  
**Languages** English, Swahili, Luo

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[odumaja@yahoo.com](mailto:odumaja@yahoo.com)

### PROFESSIONAL AND FUNCTIONAL SKILLS

#### Professional Expertise

- **Reproductive Physiologist/toxicologist.**

Extensive experience gained through 25 years of research, training and teaching in the area of Mammalian Physiology with specific emphasis on Reproductive Physiology, as evidenced by several publications in peer reviewed journals and conference presentations.

Wide experience gained through research, postgraduate training, seminars, workshops and conferences, on the effects of exposure to environmental

pollutants, toxins, natural products and drugs on mammalian reproductive performance with specific emphasis on pesticides and herbal products

### **Training Skills**

- \* Lectures in all areas of Animal Physiology to undergraduates in Veterinary Medicine, Agriculture, Range Management, Food Science and Technology Biomedical Technology and Wildlife Management and related Options.
- \* Lectures, training and mentorship of post graduates at MSc and PhD levels.
- \* Training and mentorship of students on Attachments, Field Trainings and Research Projects for undergraduates, diploma and other certificates.
  - Member of Faculty Postgraduate Committee.
  - External Examiner, University of Makerere, Department of

### **Managerial Skills:**

- \* Management of University department as acting Chairman and Associate Dean on several diverse occasions. Chairman of Faculty of Veterinary Medicine Attachment and Projects committee. Member of several other faculty committees including postgraduate studies committee, Faculty Biannual Conference organizing committee and curriculum committee
- \* Management and coordination of research grants from local and International donors.
- \* Management of projects from proposal writing to presentation of results, including budget proposals, SWOT analysis.
- \* Management and coordination of student programmes on Industrial attachments, Field trainings and Research projects.

- \* Management and maintenance of Research Laboratories in terms of SOP, GLP, and GCP.

**Laboratory Techniques:**

- \* Molecular Biology techniques including PCR in DNA/RNA isolation, analytical techniques such as RIA, ELIZA, HPLC, protein purification and characterization, cell and tissue culture, 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.

**UNIVERSITY EDUCATION, CERTIFICATES AND TESTIMONIALS**

**A. UNIVERSITY EDUCATION**

<b>Qualification</b>	<b>University</b>	<b>Duration</b>
Doctor of Philosophy Degree (Mammalian Physiology)	University of Nairobi	1992-1998
Master of Science Degree (Reproductive Physiology)	University of Nairobi	1984-1988
Bachelor of Science (with Education) Upper Second Class Honors	University of Dar es Salaam	1972-1975

**B. OTHER POSTGRADUATE TRAININGS/SHORT COURSES**

<b>Course</b>	<b>Institution</b>	<b>Qualification</b>	<b>Duration</b>

First Aid at Work (Course)	St John Ambulance Nairobi	Certificate	2013
Training of Trainers on animal welfare education (Workshop)	University of Nairobi		2012
First Aid at Work (Course)	St John Ambulance Nairobi	Certificate	2011
Promotion of good animal welfare in Kenya (Workshop)	Agricultural Information Resource Centre	Certificate of Attendance	2010
Prepare-PhD project – PhD supervision Training	University of Nairobi	Certificate of Attendance	2010
Performance Enhancement Strategies	Empowerment Resource Technologies Ltd and University of Nairobi	Certificate of Attendance	2009
Laboratory and Occupational Safety and Health (Course)	Ministry of Labour and Human Resource Development - Directorate of Occupational Health and Safety Services:	Certificate	2007
Scientific Proposal Writing (Workshop)	University of Nairobi	Certificate	2006
National Workshop on Quality Management	University of Nairobi and Network of Users of Scientific Equipment in Eastern and Southern Africa (NUSESA)	Certificate	2005
Regional Workshop on Laboratory Management	National University of Lesotho - Roma, and NUSESA	Certificate	2004
Asynchronous E-content Development for E-learning –	University of Nairobi at KWSTI Naivasha, Kenya:	Certificate	2004

Semenology for Sub-Saharan African Health Care Workers - Training Workshop	University of Stellenbosch and Tygerberg Hospital, Cape Town:	Certificate	2002
Professional Skills for Scientists	Society of Neuroscientists of Africa, Safari Park, Nairobi:	Certificate	2001
Cell and Molecular Biology of Early Development – International Training Course	UNESCO-ICRO /Mombasa Marine and Fisheries College	Certificate	1999
Molecular Biology Techniques for Researchers and Scientists	University of Nairobi	Certificate	1997
Imaging Cellular Dynamics during Development and Reproduction (Workshop)	University of Witwatersrand/ UNESCO-ICRO	Certificate	1996
IAEA: Regional Training Course on control and safe use of Radiation Sources	University of Nairobi	Certificate	1992
First Congress and Teaching Workshop of the African Association of Physiological Sciences	Milimani Hotel, Nairobi	Certificate.	1992
In vitro Techniques for Research in Reproduction (Workshop)	Institute of Primate Research	Certificate	1990
Neuroscience (Workshop)	University of Nairobi and IBRO/UNESCO	Certificate of participation	1989

Immunology of Reproduction (Course)	University of Cambridge	Certificate	1989
Reproductive Biology and Research Methodology Course	University of Nairobi	Certificate.	1988
Standardization and Quality Control of Radioimmunoassay (Workshop)	WHO/University of Nairobi	Testimonial.	1981

2006: University of Nairobi: 5<sup>th</sup> Biennial Scientific Conference and Exhibition – Organizing Committee – **Certificate of Recognition**

2004: Nairobi, Kenya: Kenya DAAD Scholars Association (KDSA)- Seminar on Science and Technology Policy for Sustainable Development – - **Certificate of Attendance.**

<b>UNIVERSITY TEACHING EXPERIENCE</b>
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2012 – present External Examiner – Makerere University, Kampala Uganda

1999-present 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 and Technology,  
Wildlife Management  
Biomedical Technology.

#### **UNDERGRADUATE TRAINING OUTSIDE THE FACULTY**

1. Certificate programme in Laboratory Techniques and Practice – Government of South Sudan.
2. FELASA
3. Julie Francois – Laboratory Attachment - Ecole Nationale Veterinaire - France

#### **CURRENT POSTGRADUATE SUPERVISION**

1.	Dr. Kaingu, C. K. University of Nairobi	M.Sc.	Completed
2.	Dr. Kipyegon, A.K University of Nairobi	M.Sc	Completed
3.	Ms. Onchaga, S. K University of Nairobi	M.Sc	Ongoing
4.	Ms. Vulogosi, B. Kenyatta University	M.Sc	Ongoing



5.	Dr. Nyongesa, A. W. University of Nairobi	PhD	Completed
6.	Dr. Kaingu, C.K. University of Nairobi.	PhD	Ongoing
7.	Dr. Ochwangi, D. University of Nairobi .	PhD.	Ongoing
8.	Dr. Kipyegon, A. K University of Nairobi	PhD	Ongoing
9.	Ms. Etsey, A.N. University of Ghana	PhD	Ongoing

#### RECENT POSTGRADUATE THESIS EXAMINED/DEFENSE

1. Dr. Ronald Onzago Okindo. MSc. The antimicrobial, analgesic and toxicity properties of *Vernonia hymenolepis*, a medical plant used for toothache in Kenya. **Internal Examiner**
2. Dr . Albert Nyongesa. PhD. Mechanism of action of purified cathinone from Khat (*Catha edulis*) on behavioral and reproductive function in vervet monkeys (*Chlorocebus aethiops*). **Internal Examiner**
3. Dr, Moraya Joan. MSc- **Board Member**
4. Dr. Catherine K. Kaingu MSc. In Vitro study of *Ricinus communis* and *Euclea divinorum* extracts on isolated rabbit uterus. **Internal Examiner.**
5. Dr. Brian Lishenga Makamu.MSc – **Board Member**
6. Dr Ruth Akinyi Origa. MSc. Comparative Assessment of fertility characteristics of bull semen in Kenya based on in-vivo and in-vitro criteria - **Internal Examiner**
7. Dr. Orege PhD - **Board Member**
8. Mr. Mwangi Ngachu, MSc – **Board Member**

#### POSITIONS HELD WITHIN THE FACULTY

2012 -present	Acting Chairman Department of Veterinary Anatomy and Physiology (several diverse occasions).
2012	Acting Associate Dean, Faculty of Veterinary Medicine.
2008 – present	Member, Steering Committee, Wangari Maathai Institute for

Peace and Environmental Studies, University of Nairobi

- 2007-2008 Member, LOC; 5<sup>th</sup> 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 Conference
- 2005 -present Coordinator, Reproductive Biology Unit. (RBU). A research laboratory specializing in research on reproduction, in collaboration with national and international research organizations. RBU has been a WHO collaborating centre.
- 2003 - present Chairperson, Faculty Committee in charge of student Attachments, Field Trainings and Research Projects for undergraduates.
- 2002 - 2008 Member, Faculty Postgraduate Committee
- 2002 - present Member, Faculty Committee on Module 11 Policy and Guidelines.
- 2000-present Acting Chairman, Department of Animal Physiology.  
(several diverse occasions)
- 1998:1999 Member of special faculty committee appointed to develop a curriculum for the degree of B.Sc. in Biomedical Laboratory Technology. The course is now being offered as one of the University of Nairobi approved degree courses.
- 1981 - 1989: Administrator/Chief Technologist Reproductive Biology Unit, University of Nairobi, Kenya. 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

<b>POSITIONS HELD OUTSIDE THE FACULTY</b>
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2012 - present	External Examiner, Makerere University, Kampala, Uganda.
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 (various capacities) Kenya National Examination Council.
1975 -1981:	Biology Teacher and Head of Biology Department - Alliance Girls High School, Kenya. Patron-Young Farmers Clubs Association.

<b>SCHOLARSHIPS, TRAVEL AND TRAINING GRANTS AWARDED</b>
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**A. SCHOLASHIPS**

<b>PERIOD</b>	<b>SCHOLARSHIP</b>
2008-2012	Deans Research Grant , University of Nairobi,
2002:	WHO / UNDP/ World Bank scholarship for semenology training grant

	for Cape Town, South Africa.
1996	UNESCO-ICRO scholarship for Imaging Cellular Dynamics training course, University of Witwatersrand, South Africa.
1994	DAAD scholarship for Ph.D studies -Veterinarc Universitat -Giessen, Germany
1993	University of St. Andrews link: Training scholarship for University of St Andrews, Scotland
1992-1998	University of Nairobi Dean's Grant /Norad and DAAD scholarships for Ph.D studies, University of Nairobi, Kenya
1990	Rockefeller Foundation/Regional Commonwealth Secretariat Training Scholarship for Institute of Primate Research - Nairobi, Kenya
1989	Norad - Training Scholarship for Immunology of Reproduction training grant, University of Cambridge –U.K.
1988	Rockefeller Foundation - Training Scholarship for Research Methodology course, University of Nairobi, Kenya
1984-1988:	WHO- Training scholarship for Master of Science degree studies. University of Nairobi, Kenya
1972-1975	Kenya Government Scholarship for Bachelor's degree course University of Dar es Salaam, Tanzania

## B. TRAVEL AND TRAINING GRANTS

PERIOD	GRANT
2008:	Meharry Medical College- Nashville USA-Visiting Scholar/Consultant.
2006:	RAIN ASARECA for University of Nairobi
<b>2005</b>	European and Developing Countries Clinical Trials Partnership (EDCTP) for Durban, South Africa.
<b>2005</b>	NUSESA (Network of Users of Scientific Equipment in Eastern and Southern Africa) for University of Nairobi.
<b>2004</b>	VLIR – IUC –UON for E-learning Workshop, Naivasha, Kenya
<b>2004</b>	NUSESA (Network of Users of Scientific Equipment in Eastern and for Southern Africa), University of Lesotho, Roma.
<b>2004</b>	DAAD for Nairobi.

<b>2001</b>	Society of Neuroscientists of Africa for Nairobi, Kenya.
<b>2000</b>	The US National Minority AIDS Education & Training Center for Atlanta, Georgia.
<b>1999</b>	UNESCO - ICRO for Mombasa, Kenya.
<b>1997</b>	Netherlands Government through Kenya Agricultural Biotechnology Platform for University of Nairobi, Kenya.
<b>1992</b>	IAEA - for University of Nairobi
<b>1991</b>	WHO and Danish Government – for Copenhagen, Denmark and Geneva
<b>1981</b>	World health Organization (WHO) Training Grant for University of Nairobi.

<b>SELECTED CONFRENCES AND SYMPOSIA ATTENDED</b>
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**A. PROFESSIONAL.**

1. University of Nairobi, Faculty of Veterinary Medicine –7<sup>th</sup> Biennial Scientific Conference and Exhibition (2010)
2. University of Nairobi, Faculty of Veterinary Medicine –7<sup>th</sup> Biennial Scientific Conference and Exhibition (2010)
3. University of Nairobi, Faculty of Veterinary Medicine –6<sup>th</sup> Biennial Scientific Conference and Exhibition (. 2008)
4. Workshop on Proposal and Scientific Writing. KCB Training Centre Nairobi, Kenya (Nov. 2006)
5. University of Nairobi, Faculty of Veterinary Medicine –5<sup>th</sup> Biennial Scientific Conference and Exhibition (Sept. 2006)

6. University of Nairobi, Faculty of Veterinary Medicine – 4<sup>th</sup> Biennial Scientific Conference. (Nov. 2004)
7. Faculty of Veterinary Medicine Workshop on Strategic Plan for the next 10 years. Abadares, Kenya (10-24<sup>th</sup> September 2003).
8. International Symposium - “Ex Ovo Omnia: From the Egg Everything” - Johannesburg, South Africa, (1996).
9. Resource Person- International Workshop on Impact of Environment on Reproductive Health - Copenhagen, Denmark (1991).
10. Visiting scholar – WHO Headquarters - Geneva (1991)
11. 3rd European Congress on Cell Biology - Firenze, Italy (1990).
12. 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).
13. Seminar on Family Planning Research in Rural Kenya with special report on Norplant use in Kenya - Nairobi, (1989).
14. International Conference on Comparative Reproduction in Mammals and Man. Nairobi, Kenya (1987).
15. Joint IAEA/FAO Training Course on Radioimmunoassay and Enzyme immunoassay of Prostaglandins - Nairobi, Kenya (1986).
16. WHO Workshop on Andrology at Chiromo Campus-Nairobi, Kenya (1985).

## **B. NON PROFESSIONAL**

1. EDCTP Second Annual Forum on HIV/AIDS, TB and Malaria in Africa, Durban, South Africa. (Oct. 2005)
2. DAAD workshop on Science and Technology Policy for Sustainable Development in Kenya (Nov. 2004)
3. HIV Care in Minority Communities, A Clinical Update Conference- Atlanta, Georgia. (April, 2000).
4. 5th World Congress of Young Farmers - Christchurch - New Zealand (1985).
5. International Federation of Young Farmers Exchange Programme – Britain (1980).
6. Workshop on Environmental Education - Nairobi, Kenya (1979).

<b>RESEARCH INTERESTS</b>
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1. The effect of herbal products, toxins and other xenobiotics especially pesticides on mammalian reproductive physiology.
2. Genomic alterations in cancer- the role of pesticides and other agents in promoting these alterations.
3. 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 / without combination with commercial supplements in the management of HIV/AIDS and other nutrition related ailments.
4. The effectiveness of traditional approaches especially herbal medicines in the management of HIV/AIDS, Cancer and other diseases like STDs, rheumatoid arthritis and epilepsy.

## **ON-GOING AND RESENTLY COMPLETED RESEARCH PROJECTS.**

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). **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. (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 – 3<sup>rd</sup> 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) **Ph.D. Project – Main Supervisor - Ongoing**
6. Contraceptive Potential of selected herbs used in Tana River County. (RICE-AFFNET Grant). **Ph.D. Project – Main Supervisor - Ongoing**
6. Pharmacophysiological anti-neoplastic potential of medicinal plants used in Kakamega County, Kenya. (RICE-AFFNET Grant). **Ph.D. Project – 2<sup>nd</sup> Supervisor - Ongoing**

## **MEMBERSHIP TO ACADEMIC AND PROFESSIONAL SOCIETIES**

1. Member - RICE-AFFNET Group



- Member - Kenya Physiological Society.
- 2. Member - Kenya Society of Neuroscientists
- 3. Member - Africa Society for Cell and Developmental  
Biology- Kenya
- 4. Member - Biochemical Society of Kenya.
- 5. Member - Kenya DAAD Scholars Association.

<b>MEMBERSHIP TO OTHER ORGANIZATIONS AND CONTRIBUTION TO UNIVERSITY AND NATION</b>
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- 1. Member - Income Generating Unit (IGU), Department of  
Veterinary Anatomy and Physiology
- 1. Member - Board of Directors – Traditional Healthcare Integration  
Network (THIN)
- 2. Member - Young Women Christian Association.
- 3. Member - Kenya Professional Association of Women In Agriculture  
and Environment. (KEPAWAE)
- 4. Cooperate member - Maendeleo ya Wanawake
- 5. Member - Parish Church Council, Church of Good Shephard ,  
Langata.  
  
Chairman, Finance Committee.
- 6. Member Board of Governors - Got Agulu Secondary School,  
Yimbo, Bondo District

## PUBLICATIONS

### A. SELECTED CONFERENCE PRESENTATIONS AND PROCEEDINGS.

1. 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. 15<sup>th</sup>. Symposium of Natural Product Chemistry Network for Eastern and Central Africa (NAPRECA). 3-10th Dec, Khartoum, Sudan.
2. Kaingu, C. K., **Oduma**, J.A., Mbaria, J.M., Kiama, S.G. (2013). Male Sexual Dysfunction and Infertility in Tana River County, Kenya. 15<sup>th</sup> Symposium of Natural Product Chemistry Network for Eastern and Central Africa (NAPRECA) 3-10th Dec, Khartoum, Sudan.
3. Albert W. Nyongesa, **Jemimah A. Oduma**, Motohiro Nakajima, Hesbon O. Odongo, Pius A. Adoyo, Mustafa al' Absi (2013). Neural and hormonal interplay influencing behaviour following acute and sub-chronic cathinone administration in vervet monkeys (*Chlorocebus aethiops*)". 11th International Conference of the Society of Neuroscientists of Africa" in June 13 -17, Rabat, Morocco.
4. Kaingu, C.K.; **Oduma, J.A.**; Kanui,T.I. (2010). The Practices of Traditional Birth Attendants in Machakos District, Kenya. 6<sup>th</sup> Biannual Scientific Conference, Faculty of Veterinary Medicine, University of Nairobi
2. Kaingu, C.K.; **Oduma, J.A.**; Kanui,T.I. (2010). An In vitro study of *Ricinus communis* and *Euclea divinorum* extracts on isolated rabbit uterus. 6<sup>th</sup> Biannual Scientific Conference, faculty of Veterinary Medicine, University of Nairobi

3. Young, J; Carter. C; Macube-Barnes; Adegoke, O; Offodile, R; Onayade, A; **Oduma, J.A**; Smith, J; Marshall, D.R. (2007). Delineation of Lifestyle and Genetic Risk factors for Breast Cancer in Women of Diverse Genetic Backgrounds: The African Aspect of the study. Proceedings of The First AACR Conference, Atlanta, Georgia.
4. Oduma, J.A.; Oduor Okelo, D.; Odongo, H. O.; Makawiti, D.W. (2006). The pesticide heptachlor affects steroid hormone secretion in isolated follicular and luteal cells. Proceedings of 4<sup>th</sup> Biennial Scientific Conference, Nairobi, Kenya.
5. Oduma, J.A. and Oladele, A. (2005). Infectious diseases clinical trials monitoring programme activities in Africa: A collaborative model. Proceedings of the Second EDCTP Annual Forum on HIV/AIDS, TB and Malaria in Africa. Durban, South Africa.
6. Oduma, J.A.; Wango, E.O.; Makawiti, D.W.; Oduor Okelo, D.; Schuler, G. & Hoffmann, B. (1997). In-vivo and in-vitro effects of graded doses of the pesticide heptachlor on the synthesis of progesterone and estradiol. Proceedings of 1st Pan-African Conference on biochemistry and molecular biology, Nairobi, Kenya.
7. Oduma, J.A.; Waindi, E.N. & Gombe, S. (1990). A possible membrane bound androgen receptor protein in the dog cauda epididymis. 3rd European Congress on Cell Biology - Firenze, Italy.
8. Oduma, J.A.; Waindi, E.N. & Gombe, S. (1987). Testosterone profiles, spermogram and gonadal histology in the dog Proc. (Proc. Interna. Conf. Reprod. In Mammals and Man - Nairobi, Kenya 23-27 November, 1987.
9. Oduma, J.A.; Waindi, E.N. & Gombe, S. (1987). Purification and

characterization of cauda epididymal cellular androgen binding protein.  
Proc. Internat. Conf. Reprod. In Mammals and Man.  
Nairobi, 23-27 November, 1987.

## **B. PEER REVIEWED PUBLICATIONS**

1. Catherine K. Kaingu, James M. Mbaria, **Jemimah A. Oduma**, Stephen G. Kiama (2014). Ethnobotanical survey of medicinal plants traditionally used in Tana River County for the management of illnesses. Asian Journal of Complimentary and Alternative medicine 2(2): 1-5.
2. Dominic O. Ochwangi, Charles N. Kimwele, **Jemimah A. Oduma**, Peter K. Gathumbi, James M. Mbaria, Stephen G. Kiama (2014). Medicinal plants used in treatment and management of cancer in Kakamega County, Kenya. Journal of Ethnopharmacology 151: 1040-1055.
3. Nyongesa, A.W.; **Oduma, J.A.**; Nakajima, M.; Odongo, H.O.; Adoyo, P.A.; al'Absi. (2013). Acute and sub-chronic effects of purified cathinone from khat (*catha edulis*) on behavioural profiles in vervet monkeys (*Chlorocebus aethiops*). Mertabolic Brain Disease 28(3):
4. 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):
5. Kaingu, C.K.; **Oduma, J.A.**; Mbaria, J.; Kiama, S. G. (2013). Medicinal plants used for the management of male sexual dysfunction and infertility in Tana River County, Kenya. Journal of Ethnobiology and Traditional Medicine. 119(1): 453-563

6. Kaingu, C.K.; **Oduma, J.A.**; Mbaria, J. Kiama, S. G. (2013). Medicinal plants traditionally used for the management of female reproductive health dysfunction in Tana River County, Kenya. *International Journal of Genuine Traditional Medicine*. 3(2):1-10
7. Kipyegon, A.N.; Mutembei, H.M.; Tsuma, V.T.; **Oduma, J.A.** (2012) Effects of ripe carica papaya seed powder on testicular histology of boars. *Inter. J. Vet. Sci.* 1(1): 1-4
8. Kaingu, C.K.; **Oduma, J.A.**; Kanui, T.I. (2012). Preliminary investigation of contractile activity of *Ricinus communis* and *Euclea divinorum* extracts on isolated rabbit uterine strips. *J. Ethnopharmacology*. 142: 496-502
9. Kaingu, C.K.; **Oduma, J.A.**; Kanui, T.I. (2011). The Practices of Traditional Birth Attendants in Machakos District, Kenya. *J. Ethnopharmacology* 137: 495-502.
10. Sandra, L. D.; Ada, E.; Joan, S.; Adina G.; Justin Y.; Cleo C. Jr.; Fatima B.; **Jemimah A. Oduma**, Adedeji O.; Muheez, D.; Olufemi J. A.; Dana R. M. et. al.; (2010). Challenges Unique to the design of a Comprehensive Questionnaire Assessing Breast Cancer Risk factors among Women in Sub-Saharan Africa. *JHCPU* 21:11–16.
11. Oduma, J.A.; Oduor Okelo, D.; Odongo, H. O.; Makawiti, D.W. (2006). The pesticide heptachlor affects steroid hormone secretion in isolated follicular and luteal cells. *Comp. Biochem. Physiol. C* 144: 76-84.
12. Oduma, J.A. (1998). The effect of graded doses of heptachlor - a chlorinated hydrocarbon pesticide - on the reproductive performance of adult female (sprague dawley) rats. Ph.D Thesis. University of Nairobi.

13. Oduma, J.A.; Wango, E.O.; Oduor Okelo, D.; Makawiti, D.W. & Odongo, H.O. (1995). In-vivo and in-vitro effects of graded doses of the pesticide heptachlor on female sex steroid hormone production in rats. *Comp. Biochem. Physiol.* 111C(2): 191-196.
14. Oduma, J.A.; Wango, E.O.; Makawiti, D.W.; Einer-Jensen, N. & Oduor Okelo, D. (1995). Effects of graded doses of the pesticide heptachlor on body weight, mating success, oestrous cycle, gestation length and litter size in laboratory rats. *Comp. Biochem. Physiol.* 110(2): 221-227.
15. Wango, E.O.; Odongo, H.O.; **Oduma, J.A.**; Oduor Okelo, D. (1995). Effects of 6-Hydroxydopamine on testosterone production by mouse Leydig cells in-vitro. *Acta Biologica Hungarica.* 46(1): 75-85
16. Oduma, J.A.; Waindi, E.N.; Gombe, S. & Wango, E.O. (1994). Partial purification of a putative membrane bound androgen binding protein in the dog cauda epididymis. *Int. J. Biochem.* 26(4): 583-588.
17. Leke, R.J.I.; **Oduma, J.A.**; Bassol-Mayagoita, S.; Bacha, A.M. & Grigor, K.N. (1993). Regional and Geographical variations in infertility: Effects of environmental, cultural and socio-economic factors. *Environ. Health Persp. Suppl.* 101 (Suppl 2): 73-80.
18. Oduma, J.A.; Waindi, E.N. and Gombe, S. (1991). Plasma and testicular testosterone and related gonadal parameters on early pubertal and adult dogs. *Discovery and Innovations* 4 (3): 53-58.
19. Oduma, J.A. (1988). Isolation and characterization of cauda

epididymis cellular androgen binding protein. M.Sc. Thesis, University of Nairobi.

### **C. PUBLISHED ABSTRACTS**

1. Oduma, J.A.; Waindi, E.N. & Gombe, S. (1990). A possible membrane bound androgen receptor protein in the dog cauda epididymis. Cell Biology International Reports, 1990.
2. Oduma, J.A.; Waindi, E.N. & Gombe, S. (1988). Epididymal membrane androgen binding protein: Purification and characterization (Abstract) 4th International Congress of Cell Biology, Montreal, Canada 14-19 August, 1988

### **Referees:**

1. Prof. Dominic Makawiti,  
Vice Chancellor  
Maseno University  
P.O.Box Private Bag.  
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