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UNIVERSITY OF NAIROBI

COLLEGE OF AGRICULTURE AND VETERINARY SCIENCES FACULTY OF VETERINARY MEDICINE

FACULTY OF VETERINARY MEDICINE

ANNUAL REPORT 2011/2012



nary Medicine

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The Faculty of Veterinary Medicine is one of the oldest Faculties in the University of Nairobi having started training in diplomas in the 1940s. It later became fully fledged Faculty offering degrees in 1962 and celebrated its 50 years (Golden Jubilee) since inception in April 2012. It has produced a large part of the alumni of over two thousand both undergraduate and postgraduate.

Currently, it has a teaching staff of 115, technical, secretarial and support staff of 140. The Faculty currently offers five (5) degree programs namely; Bachelor of Veterinary Medicine, B.Sc. in Biomedical Technology and B.Sc. in Wildlife Management & related options, B.Sc. in Leather Science & Technology and B.Sc. in Fisheries & Aquaculture Management. In addition, it offers over 20 M.Sc. and PhD programs, 1 postgraduate certificate, 3 diplomas, and 4 certificate program.

Having undertaken to participate in achieving the vision 2030, it has joined the other stakeholders in developing the leather technology programs at diploma, B.Sc, M.Sc. and PhD levels. The above courses have been launched.

The Faculty continues to participate in outreach and community services and has regular Biennial conferences that attract local, regional and international participants. The 8th Biennial conference was held in April 2012 . plans are underway for the next (9th) Biennial conference in 2014.

Prof. Mulei Charles M., Dean, Faculty of Veterinary Medicine



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LTY OF VETERINARY MEDICINE Applied Parasitology anao, g. aduate Applied Microbiology Veterinary Pathology & Diagnostics degree programs. Clinical Pathology and Laboratory Diagnosis **Bachelor of Veterinary Medicine** Bachelor of Science in Biomedical **Fish Science** Technology **Poultry Science** Bachelor of Science in Wildlife Management Animal Genetics and Breeding and Related options Livestock Production Systems Bachelor of Science in Fisheries and Animal Nutrition and Feed Science Aquaculture Management Veterinary Public Health Bachelor of Science in Leather Science & Veterinary Epidemiology & Economics Technology Postgraduate Certificate Courses **Postgraduate Degree Programs** Epidemiology & Disease Surveillance The Faculty trains students for Masters of Science (MSc.) and Doctor of Philosophy **Diploma Courses** degrees in various fields of specialization. Animal Health & Production Veterinary Anatomy Leather Technology Comparative Mammalian Physiology Veterinary Public Health & Meat Technology Veterinary Theriogenology Veterinary Surgery **Certificate Courses** Veterinary Medicine Artificial Insemination & Fertility Management Wildlife Health and Management Meat Hygiene and Quality Assurance Natural Products & Bioprospecting **Poultry Management** Pharmacology and Toxicology **Dairy Management Reproductive Biology Biochemistry** Veterinary Pathology, Microbiology and Parasitology

CURRICULA REVIEWED WITHIN THE YEAR

Bachelor of Science in Wildlife Management and Related options Diploma in Animal Health and Production

CURRICULUM DEVELOPED WITHIN THE YEAR



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Chining		EACH UNDERGRADUATE PROGRAM IN 201	1/2012
		FACULTY OF VETERINARY MEDICINE	
		1. Bachelor of Veterinary Medicine	132
		2. B.Sc. in Biomedical Technology	0
		3. B.Sc. in Wildlife Management	14
		4. Dipl in Animal Health and Prod.	19
		5. Certificate in Artificial Insemination	25
		TOTAL	158
	NUMBER OF STUDENTS WHO GRADUA	TED FROM EACH PROGRAM IN 2011/2012	
		FACULTY OF VETERINARY MEDICINE	
		1. PhD	4
		2. MSc.	116
		3. Bachelor of Veterinary Medicine	50
		4. B.Sc. in Biomedical Technology	24
		5. B.Sc. in Wildlife Management	16
		6. Dip. in Animal Health and Prod.	11
		7. Artificial Insemination	8
		TOTAL	229



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	NAME	DEPARTMENT	INSTITUTION
1.	Dr. Benard Bett	PHPT	ILRI, Kenya
2.	Dr. B.O. Bebe	AP	Moi University
3.	Dr. Charles Muleke	VAP	Egerton University
4.	Dr. Ciira Kiiyukia	VPMP	JKUAT
5.	Dr. David N. Gacheru	VAP	Egerton University
6.	Dr. Dennis Byarugaba	VPMP	Makerere University
7.	Dr. Gideon Kikuvi	PHPT	JKUAT
8.	Dr. Hastings O. Suba	CSD	IPR
9.	Dr. Henry K. Kiara	PHPT	ILRI
10.	Dr. J.M. Nginyi	VPMP	VRC KARI, Kenya
11.	Dr. Joseph K. Rotich	PHPT	Moi University
12.	Dr. Michael M. Gicheru	PHPT	KU
13.	Dr. Samuel Obwoya Okello	VAP	Sokoine University
14.	Godwin Kinyua Njeri	PHPT	Nairobi
15.	Dr. I.M. Nyariki	CSD	Nairobi, Kenya
16.	Dr. J.K. Kimani	CSD	Nairobi, Kenya
17.	Prof. Alexander K. Kahi	AP	Moi University
18.	Prof. Charity W. Gichuki	CSD	Presbyterian Uni of E.A.
19.	Prof. G. Mogoma	Biochemistry	JKUAT
20.	Prof. G.L. Mwamengele	VPMP	Sokoine University
21.	Prof. Gabriel Magoma	Biochem.	JKUAT
22.	Prof. Gabriel Mbaasa	VAP	Sokoine University
23.	Prof. George O. Oliech	AP	Moi University
24.	Prof. John Acon	CSD	Makerere University
25.	Prof. Mbaruk A. Suleiman	CSD	IPR
26.	Prof. Nkumbuka Mtambo	CSD	Sokoine University
27.	Prof. Noel L. Kanuya	CSD	Sokoine University
28.		PHPT	Moi University
29.	Prof. Resto D. Mosha	PHPT	Sokoine University
30.	Prof. Rubaire Akiiki	VPMP	Makerere University

VISITORS TO THE COLLEGE

FACULTY OF VETERINARY MEDICINE

Department	Name	From Where	Date
Dean's Office, Faculty	Kevin M. Mutisya	Kitengela	13/7/2011
of Veterinary Medicine	Bernard Langat	Nairobi	13/7/2011
	Omari Ali	Nairobi	13/7/2011
	Dr .Chris Wanga	Nairobi	13/7/2011
	M. Kariuki Njenga	Nairobi	13/7/2011
	Walter N. Masiga	Nairobi	13/7/2011
	Judy Kimaru	Nairobi	13/7/2011
	Joan Magero	Nairobi	13/7/2011
	Dr. Patricia Kungu	Nairobi	13/7/2011
	Dr. Josephine Wright	Nairobi	13/7/2011
	Dr .Peter Maina	Nairobi	13/7/2011
	Ithondeka		
	Kenneth M. Lusaka	Nairobi	13/7/2011
	Dr. Ouko E.O.	Nairobi	13/7/2011

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en in integral i t		гтог. v.o. таino	University of Ibadan, Nigeria	16/8/2011
		Prof. B.O. Oke	University of Ibadan, Nigeria	16/8/2011
		Dr. K.O. Soetan	University of Ibadan, Nigeria	16/8/2011
		Susan Baggs	Albugerque NM, USA	23/8/2011
		Jen Gardioso	Albuqerque NM, USA	23/8/2011
		Vibeke Halkgher	Albuqerque NM, USA	23/8/2011
		Kivodson		23/0/2011
		Laura E. Jones	Albuqerque NM, USA	23/8/2011
		Michael Majewski	Washington, DC	23/8/2011
		Dr. Jalango J.N.	Vet Labs, Nairobi	23/8/2011
		Carlos A. Salazar	Albuqerque NM, USA	23/8/2011
		Dr. Anna Songolo	MLFD, Lusaka	24/8/2011
		Dr. & Mrs. Joachum	Carmeroon	25/8/2011
		Songwe		
		Dr. Lois Hild	Hemet, C.A.	3/1/2012
		Dr. Jim Randall	University of Prince Edward,	19/1/2012
			Island	
		Dominic Travis	University of Minnesota CVM, USA	25/1/2012
		Geoffrey Kabagambe	OHCEA	25/1/2012
		Rugamba		
		Hannu Korhonen	MTT Agrifood Research, Finland	26/1/2012
		Riielea Kesleimen	MTT Agrifood Research, Finland	26/1/2012
		Tapani Poykko	HAMK, Finland	26/1/2012
		Jukka Kola	University of Helsinki, Finland	26/1/2012
		Joseph Mukiibi	MAF, S. Sudan	1/2/2012
		Atens Garang	MAF, S.Sudan	1/2/2012
		George Tadu	MAF, S.Sudan	1/2/2012
		Lako Busuk	MAF, S.Sudan	1/2/2012
		Virginia Wangari	KARI- HQs	1/2/2012
		Andrei Mihalca	CLUJ-Napoca, Romania	1/2/2012
		Dadgos Bintoiu	CLUJ-Napoca, Romania	1/2/2012
		Damico G. Anluca	CLUJ-Napoca, Romania	1/2/2012
		Dr. Luboya Kasongo Mutemba	University of Kinshasa, DRC	6/2/2012
		Dr. Ngulu Nsasi Arthur	University of Lububashi, DRC	6/2/2012
		Dr. Kasongo Aseke	University of Lububashi, DRC	6/2/2012
		Owkanga Gregoire	,, .	-
		Dr. Mahangaiko Nuyuriba	University of Lububashi, DRC	6/2/2012
		Saad Naandi	Ambassador of Algeria	14/2/2012
		Raabed Ahned	Government of Algeria	14/2/2012
		Dr. K. Tirnd	University of Al-Tarb, Algeria	14/2/2012
		Dr. A. Kadi	University of Annaba, Algeria	14/2/2012
		Dr. Tara Harrison DM	Michigan State University	6/3/2012
		Dr. Christine Thuranine -	Loyal Veterinary College,	19/312
		Uckeeven	University of London	
		Dr. Ayona Silva-Fletcher	Loyal Veterinary College, University of London	21/3/2012
		Prof. Oshiund D. Mwandemele	University of Namimbia	10/4/2012
		Mr. S.P. Muewa	University of Namimbia	10/4/2012
		Prof. Mausse Francisco	University of Namimbia	10/4/2012
		Dr. Kenneth K. Matenga	University of Namimbia	10/4/2012
		Jimmy W. Smith	ILRI Campus	10/4/2012

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	DI. OUKU L.C	J.	KVA	24/4/2012
	Prof. Isaac J	umba	University of Nairobi	24/4/2012
	Jeffrey Wicht	el	Altantic Veterinary College,	14/5/2012
			University of Prince Edward	
			Island, Canada	
	Morgan Find	lay	Western College of Veterinarian	14/5/2012
			Medicine	
	Jennifer Huiz	en	Atlantic Veterinary College	14/2/2012
	Jolginberg		University of Michigan	7/5/2012
	Springer Bisl	ene	University of Missouri	6/7/2012
	Margaret Kur	nnard	Mpala Research Centre	6/7/2012
	Shadowm De	em	Institute for Conservation	6/7/2012
			Medicine, St. Lois Zoo	

COMMITTEES OF THE FACULTY OF VETERINARY MEDICINE

	FACULTY	DEPARTMENTAL	DEPARTMENT	CHAIRMAN,
	COMMITTEE	REPRESENTATIVE		FACULTY
	_			COMMITTEE
1.	Postgraduate	Prof. L.C. Bebora	Vet. Pathology	Prof. L.C. Bebora
	Studies Committee	Prof. D.O. Kihurani	Clinical Studies	
		Dr. J. Junga	Animal Production	
		Prof. S.M. Kisia	Vet. Anatomy & Physiology	
		Dr. R.O. Ojoo	Vet. Anatomy & Physiology	
		Dr. J.M. Kitala	PHPT	
		Dr. J.M. Kamau	Biochemistry	
		Dr. L.W. Njagi	Vet. Pathology	
2.	Curriculum	Dr. V.T. Tsuma	Clinical Studies	Dr. V.T. Tsuma
	Committee	Dr. R.M. Waruiru	Vet. Pathology	
		Dr. D.W. Gakuya	Clinical Studies	
		Dr. B.M. Kavoi	Vet. Anatomy & Physiology	
		Prof. P.G. Mbuthia	Vet. Pathology	
		Dr. E. Maina	Biochemistry	
		Dr. G.M. Muchemi	PHPT	
		Prof. C.K. Gachuiri	Animal Production	
		Dr. J. M. Kitaa	Faculty Timetabling Committee	
3.	Timetabling	Dr. J.M.A. Kitaa	Clinical Studies	Dr. J. M. Kitaa
	Committee	Prof. P.G. Mbuthia	Vet. Pathology	
		Dr. L.W. Kanja	PHPT	
		Dr. Joel Ochieng	Animal Production	
		Dr. D.K. Kagunya	Vet.Pathology	
		Dr. A. W. Nyongesa	Vet. Anatomy & Physiology	
		Dr. J.M. Kamau	Biochemistry	
		Dr. E.M. Nderitu	Clinical Studies	
4.	Student	Dr. J.A. Oduma	Vet Anatomy & Physiology	Dr. J.A. Oduma
	Attachment &	Dr. G.O. Abonge	PHPT	
	Projects	Mr. K. L. Oluoch	Biochemistry	
	Committee	Dr. J.O. Jungqa	Animal Production	
		Dr. H.M. Mutembei	Clinical Studies	

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		and Expanded Fe	humbi	Vet. Pathology	Prof. P.K. Gathumbi
Ommilleur	Payes		IL	Vet. Anatomy & Physiology	
		Conference	Dr. A.N. Makanya	Vet. Anatomy & Physiology	
			Dr. C.N. Kimwele	Vet. Anatomy & Physiology	
			Dr. V.T. Tsuma	Clinical Studies	
			Prof. G.K. Gitau	Clinical Studies	
			Prof. S.N. Arimi	PHPT	
			Prof. J.M. Mbaria	PHPT	
			Dr. J.K.N. Kuria	Vet. Pathology	
			Dr. D.N. Karanja	Vet. Pathology	
			Dr.P.W. Macheru	Vet. Anatomy & Physiology	
			Dr. J.G. Maina	Animal Production	
			Ms. E.G. Kanduma	Biochemistry	
	7.	Veterinary Farm	Prof. C.K. Gacuiri	Animal Production	Prof. C.K. Gacuiri
		Management	Dr. J.D. Mande	Clinical Studies	
		Committee	Prof. E.R. Mutiga	Clinical Studies	
			Prof. P.K. Gathumbi	Vet. Pathology	
			Dr. S.M. Macharia	PHPT	
			Prof. M.S. Badamana	Animal Production	
			Dr. T.O. Abuom	Vet. Farm	
			Prof. P.W. Kinyanjui	Biochemistry	
			Prof. J.N. Ombui	PHPT	
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		Committee	Dr. A.W. Nyongesa	Vet. Anatomy & Physiology	
			Dr. G.M. Muchemi	PHPT	
			Dr. G.Kirui	Clinical Studies	
			Dr. E.K. Muge	Biochemistry	
			Dr. J. Ochieng	Animal Production	
		0 1	Dr. D.N. Karanja	Vet. Pathology	
	9.	Senate Representative	Prof. R.G. Wahome	Animal Production	
	10	Bio Safety,	Dr. R.O. Ojoo	Vet. Anatomy & Physiology	Dr. R.O. Ojoo
		Animal	Dr. E.G. Mogoa	Clinical Studies	
		Use and Ethical	Prof. P.N. Mbugua	Animal Production	
		Committee	Prof. T.E. Maitho	PHPT	
			Dr. J.K. Gathumbi	Vet. Pathology	
			Dr. L. W. Waibochi	Biochemistry	
			Dr. C.N. Kimwele	Vet. Anatomy & Physiology	
			Prof. S.W. Mbugua	Clinical Studies	
	11	Exhibition and	Dr. D.W. Gakuya	Clinical Studies	Dr. D.W. Gakuya
		Show Committee	Dr. L.W. Njagi	Vet. Patology	
			Dr. J.K. Muthee	Clinical Studies	
			Dr. J.M. Nguta	PHPT	
			Mr. B.A.O. Inyangala	Animal Production	
			Dr. A.W. Nyongesa	Vet. Anatomy & Physiology	
			Mr. K.L. Oluoch	Biochemistry	
	12	Grants Research	Prof. P.W.N. Kanyari	Vet. Pathology	Prof. P.W.N. Kanyar
		and External	Prof. R.G. Wahome	Animal Production	,
		Liaision	Dr. H. Mutembei	Clinical Studies	
		Committee	Prof. E.K. Kangoethe	PHPT	



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			Dr. Nyachio A	Atunga	Biochemistry	
			Dr. C.G. Gita	0	Vet. Pathology	
			Dr. Isaac Mul	ei	Vet. Pathology	
			Prof. G.K. Git	tau	Clinical Studies	
	13	Science Park	Prof. S.M. Kis	sia	Associate Dean, Faculty of	
		Committee			Veterinary Medicine	
	14	One Health Committee	Prof. S.M. Kis Dr. A.G. Thai Dr. V.T. Tsun Prof. J.M. Mb Dr. B.M. Kavo Dr. L.W. Njag Dr. P.M. Matl	ya na paria pi	Vet. Anatomy & Physiology Clinical Studies (Secretary) Clinical Studies PHPT Vet. Anatomy & Physiology Vet. Pathology Vet. Anatomy & Physiology	Prof. S.M. Kisia



OFFICE, FACULTY OF VETERINARY MEDICINE

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		Designation
1.	Prof. C.M. Mulei	Dean
2.	Prof. S.M. Kisia	Associate Dean
3.	Mr. D.K. Cheboi	Assistant Registrar
4.	Ms. Monica Agunda	Senior Secretary
5.	Ms. Beth Kiragu	Assistant Secretary
6.	Ms.Benadine Okola	Assistant Secretary
7.	Mr. Patrick Karuu	Records Clerk
9.	Mr. Jonathan Toromo	Records Clerk
10.	Mr. Njoroge Kahiga	Driver
11.	Ms. Caroline Akoth	Cleaner
13.	Mr. Patrick Keya	Cleaner





UNIVERSITY OF NAIROBI

COLLEGE OF AGRICULTURE AND VETERINARY SCIENCES FACULTY OF VETERINARY MEDICINE

DEPARTMENT OF PUBLIC HEALTH, PHARMACOLOGY AND TOXICOLOGY

ANNUAL REPORT

2011/2012



ages and Expanded Features nacology & Toxicology annual report for 2010/2011 gives an overview or the physical racines available including those that have been acquired and maintained in the academic year to enable smooth running of its activities.

A detailed outline of academic programs, both at undergraduate and postgraduate levels, as well as the current students undertaking Mastors and Doctors of Philosophy degrees is given alongside their areas of study and a brief statement of their findings.

The report highlights research publications in peer reviewed journals by members of staff, research projects awarded, conferences and workshops they attended including workshops held in the department. In additon the report captures consultancy projects won by the department, donations received in the academic year and a list of linkages and collaborations the department has made with other institutions. The report concludes with a list of staff, their grades and areas of specialization where applicable.

It is my hope that you will find the report informative.

Prof. J.N. Ombui

Chairman,

Dept. Of Public Health, Pharmacology & Toxicology



nacology and Toxicology (PHPT) is one of the five academic units in the racing or veterinary medicine, University of Nairobi. It was established 39 years ago in the 1972/73 academic year by combining the closely related disciplines of Pharmacology, Toxicology and Veterinary Public Health. The two disciplines were originally in different departments. Veterinary Public Health was at the clinical studies while Pharmacology and Toxicology was in the Department of Veterinary Pathology and Microbiology.

The Department is located 15 Km from the city centre at the College of Agriculture and Veterinary Sciences, of the University of Nairobi. The establishment of the Department of PHPTos physical facilities was financed by a grant from the Norwegian government which also provided initially the academic staff to run the department and resources that were used for development of local academic staff and finance research activities. The first local academic members of staff to serve the department got their postgraduate training through the Norwegian government and USAID grants. Some staff trained in Norway and locally using the Norwegian government grant. Others trained in America under USAID grant.

The Department of Public Health, Pharmacology and Toxicology provides training, research in the following specialized areas: Veterinary Public Health (Food Microbiology, Food Hygiene, Food and Environmental Toxicology, Zoonoses, Meat hygiene), Pharmacology, Toxicology, Epidemiology, Livestock Economics and Business management, Biostatistics, Computer Application and Information Systems, Immunology and Microbial Biotechnolog, Food and beverage production and sales, House keeping, Tourism economics, Public relations and tourism management, Management, Entreprenuership, Information Technology, Biochemical-Pharmacology Biochemical-Toxicology. Consultancy services are provided in the following areas: Acute toxicity testing of pesticides, Drug efficacy trials, toxicological analysis of feed samples, microbiological analysis of food, water and feeds, mycotoxin analysis, slaughterhouse design and construction and field surveys.

Vision

To be committed to academic excellence and promotion of research and outreach activities.

Mission

To be a centre of excellence for learning and scholarship, research and consultancy, fostering an intellectual culture and contribute to socio-economic development.

Core values

- 1. Commitment to provision of quality teaching, research and consultancy services
- 2. Espouse virtues of truth, integrity, honesty, tolerance, professionalism and teamwork.
- 3. Uphold ethical practices in provision of services.
- 4. Promotion of creativity and innovativeness
- 5. Ensure opennes and transparency in our operations
- 6. Respect the beliefs and values of others
- 7. Respect and protect the environment
- 8. Be responsive and adaptive to changing conditions

Strategic objectives

- 1. Provide quality teaching and research
- 2. Continuously revise training programs to reflect global changes and customer needs
- 3. Develop new programs that address emerging problems
- 4. Provide quality consultancy services
- 5. Disseminate research findings through publications, conferences and workshops
- 6. Participate in outreach activities through exhibitions, workshops, field and open days
- 7. Create working partnerships and linkages with local and international institutions and organizations.



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Certificate in Meat Hygiene and Quality Assurance

Diploma

Diploma in Veterinary Public Health and Meat Technology (offered at the Meat Training linstitute)

Diploma in Leather Technology

Undergraduate

Teaching is done for the following undergraduate programs

Bachelor of Veterinary Medicine Bachelor of Science in Bomedical Technology Bachelor of Science in Wildlife and Tourism management Bachelor of Science in Biochemistry Bachelor of Science in nutrition and diatetics

Masters Programs

Master of Science in Pharmacology and Toxicology Masters in Epidemiology and Economics Masters in Veterinary Public Health Master of Science in Natural products and Bioprospecting Master of Science in Leather Science

PhD Programs

PhD in Pharmacology and Toxicology PhD in Epidemiology and Economics PhD in Veterinary Public Health PhD in Natural products and Bioprospecting PhD in Leather Science



UATE PROGRAMMES – 2012/2013

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Reg. No.	Name	Program
J56/81176/12	KiraitheMicheni Ndei	NP
J56/79712/12	Kabubii Nyaituha Zelipha	NP
J56/79717/12	Aonda Ochami Ezra	MVEE
J56/77673/12	Wangila Sitawa Rinah	MVEE
J56/79406/12	Gichuyia CianjokaMercy	MVEE
J56/79225/12	Akwalu Kamwilu Samuel	MVEE
J56/79900/12	Macharia Kariuki James	MVEE
J56/80864/12	Muriuki Muthii John	MVEE
J56/80615/12	Ngunga Makau Laban	MVEE
J56/80831/12	Kiraithe Nkiria Zaverio	MVEE
J56/81473/12	Waruri Sebastian	MVEE
J56/81254/12	Onduso Richard	MVEE
J56/83293/12	Nyaga Wanja Nazaria	MVEE
J56/80896/12	NguueMakau Dennis	MVEE
J56/83717/12	Odera Oduor Charles	MVEE
J56/81871/12	Chacha Nchagwa Isaiah	MVEE
J56/80317/12	Maina Samuel Kahariri	MVEE
J56/81091/12	Kiungu Nkirote Purity	MVEE
J56/84231/12	Mwololo Katee Damaris	MVEE
J56/82672/12	Ganda Ogola Joseph	MVEE
	Langat Kipkemoi Paul	Leather Science
	Ramtu Shukuru Paul	Leather Science
J56/78797/12	Chebet Tenai Betty	P&T
J56/84296/12	Mvova Joel Paul	P&T
J56/60509/13	Ogola Okoth Joseph	P&T

NP	-	Natural Productions & Bioprospecting
MVEE	-	Veterinary Epidemiology & Economics
P&T	-	Pharmacology & Toxicology

Others (continuing)

REG. NO	NAME	Program
J56/7853/97	Opiyo Anyango Teresa	MVPH
J56/7497/01	Mwaura Zachery Ndungqu	MVEE

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J56/7105	9/07 Mweu Marshal M	lutinda	MVEE
J56/7698	3/09 Sirma Anima Jen	natia Kigen	MVPH
J56/76743	3/09 Chege Maina Ste	ephen	MVEE
J56/75134	4/09 Ouko Omolo Eliz	abeth	MVEE
J56/79042	2/10 Kimani Njoki Clai	re	P&T
J56/6493	0/10 Miriam Jepkosge	i Nakeel	MVEE
J56/64794	4/10 Mabior Mabil Awa	ar Yuot	MVEE
J56/6495	0/10 Omwenga Mokay	ya Isaac	P&T
J56/6613	5/10 Lanyasunya Pat	Rupunye	NP
J56/6663	6/10 Rukenya Muthii Z	Zachary	NP
J56/6599	2/10 Menni Kuria Jam	es	NP
J56/6613	5/10 Lanyasunya Rup	unye Pat	NP
J56/6665	7/10 Okindo Onzago F	Ronald	NP
J56/6934	5/11 Toroitich Kisa Ch	arles	MVEE
J56/6963	8/11 Wamwatila Nalia	ka Selestine	MVEE
J56/6931	8/11 Ochieng Owange	Nelson	MVEE
J56/6881	8/11 Ngethe Wangari	Esther	MVPH
J56/69182	2/11 Wahome Mukun	di Joseph	P&T
J56/6992	1/11 Ngugi Njenga Da	avid	P&T
J56/7048	6/11 Andrews LeeLi	ia Rosamond	MVEE

PhD

Click

Reg. No.	Name	Program
J80/8528/03	Oguna Maina Mary	P&T
J80/8310/05	Dr. F.D. Wesonga	MVEE
J80/82302/09	Dr. Portas Olwande	MVEE
J80/8150/09	Dr. Kamanja Irene Thuguku	P&T
J80/80143/10	Massimo Castiello	Public Heath
J87/81202/12	Ms. Lucy Gicuku Njue	Public Health
2008	Kithuka James Mutiira	MVEE
2008	Mr. Peter O. Lamuka	MVEE
2009	Dr. Koros Kipsengeret	P&T



VEE . Veterinary Public Health

P&T . Pharmacology & Toxicology

International Students

Mabior Mabil Awaar Yuot	J56/64794/10	-	Sudan
Andrews LeeLia Rosamond	J56/70486/11	-	Liberia



1.	Kabaka Waweru	J56/75600/09	MVEE	Prevalence and risk factors for gastrointestinal nematode infections and efficacies of anthelmintics in cattle in Mukurwe-in and Nakuru districts of Kenya
2.	Ayieko Paul Odhiambo	J56/71880/08	MVEE	A comparative economic analysis of the contribution of livestock to household incomes: a case of Uriri, Karungu and Nyatike divisions
3.	Mary Gichure Nyambura	J56/77076/09	MVEE	Prevalence and risk factors of African horse sickness in the donkey population of Kiambu west district, Kenya
4.	Japhet M. MoAnampiu	J56/8159/01	MVPH	A study of organochlorine pesticides residues in fish and sediment from Lake Naivasha
5.	Francis Ochola Okumu	J56/72044/08	P&T	Pharmaco-epidemiological and toxicological study of snake envenomations in selected areas of Kenya
6.	Dominic Kiragu Mureithi	J56/72213/08	P&T	Prevalence of antimicrobial resistance and characterization of resistance genes in Escherichia coli isolates from captive baboons
7.	Hesbon Zablon Amenya	J56/72183/08	P&T	Acute and subacute toxicological studies of Rapanea melanophloeos (L) mex in laboratory rats
8.	Itonga Stanley Mwebia	J56/71391/07	P&T	Ethnobotanical survey of plants used in traditional medicine and as biopesticides in Meru Central, Kenya and preliminary toxicological evalution of Tephrosia vogelii
9.				
10.	. Joseph Kisivo Musa	J56/71880/08	P&T	Antimicrobial activity, cytotoxicity and phytochemistry of selected medicinal plants in Meru Central District, Kenya

EXTERNAL EXAMINERS APPOINTED IN 2011/2012 ACADEMIC YEAR

- 1. Dr. Michael Muita Gicheru Kenyatta University)- For Public Health and Immunology courses
- 2. Dr. Henry Kimathi Kiara (ILRI). For Epidemiology and Economics courses
- 3. Dr. Gideon M. Kikuvi (JKUAT) : For Undergraduate Pharmacology and Toxicology courses
- 4. Mr. Godwin Njeru (USIU) . for BSc. Wildlife and Tourism Courses)



Click Here to upgrade to Unlimited Pages and Expanded Features - For Biostatistics courses (Sokoine University) . For Postgraduate Pharmacology and

RESEARCH

Prof. E. Kang'ethe

- 1. 2011 . 2013 Development of Continuing Professional development courses for Veterinary Public Health Funded FAO Rome
- 2010. 2013: Capacity building to improve safety in the feed dairy chain with special focus on healthy risks associated with biological contaminants- Funded by Ministry of Foreign Affairs, Finland
- 2012. 2015 Safe food, fair food 2: Building capacity to improve the safety of animal-source foods and ensure continued market access for poor farmers in sub Saharan Africa Funded by BMZ and GIZ Germany
- 4. 2012 =-2015: Environmental and Social Ecology of Human Infectious Diseases . Funded by MRC UK
- 5. 2012 . 2016 : Improving Food Security in West and East Africa through Capacity Building in Research and Information Dissemination (Food Africa). Funded by Ministry of Foreign Affairs Finland.

Prof. Maitho

2012. Mukundi J.W., Maitho T. and Mbaria, J.M. Toxicological Analysis of herbal medicines used orally in Nairobi County.

Prof. Mbaria

- 1) A Study of Wound Healing and Antimicrobial Activity, phytochemistry and Toxicity of Aspilia Pluriseta
- 2) A toxicological and epidemiological study of environmental and occupational pesticide exposure on floricultural workers in Kenya
- 3) Acute and sub-acute toxicological studies of *Prosopis juliflora* from Marigat district, Kenya
- 4) Evaluation of antifertility properties of medicinal plants traditionally used in Tana River County, Kenya
- 5) Evaluation of Antimicrobial activity and Cytotoxic Effects of *Aloe turkanesis*
- 6) In vivo antimalarial and cytotoxic effects of selected plant extracts used in Kenya
- 7) Occurrence of Multiple Strains, Antibiotic Resistance of Enteropathogenic *Stapylococcus aureus* in some Foods of Animal Origin in Nairobi Kenya
- 8) Pharmacological and Toxicological Study of *Clerodendrum myricoides*, an ethnomedical Herbal Remedy Used in Kenya
- 9) Pharmacology, toxicology and phytochemical analysis of selected antimalarial plants in Kenya
- 10) Phytochemical and antihelmintic activity of *Entalda leptostachya* (MIMOSACEAE) and *Rapanea rhododendroides* (MYRINACEAE
- 11) Prevalence of aflatoxin B₁ in foods and cattle feeds stocked in Nairobi using Enzyme-Linked Immunosorbent Assay
- 12) Study of Antimalarial Activity, Cytotoxicity and Acute Toxicity of Zanthoxylum chalybeum Engl. and Vernonia lasiopus O. Hoffman (Collaboration with KEMRI).



peoples of Machakos and Kitui, Kenya for management of

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Activity of Vernonia hymenolepsis, a Medicinal Plant used in

Dr. Nguta

Evaluation of Brine Shrimp lethality and antifungal activity of Zanthoxylum Chalybeaum Engl. Species . Deans Committee Research Grant

Dr. Kanja

Development of meat preservative from garlic (Allium sativa L. extracts) - Deans Committee Research Grant

A toxicological and epidemiological study of environmental and occupational pesticide exposure on floricultural workers in Kenya

An assessment of pesticide and heavy metal residues in inland fish farming in Machakos and Kiambu counties, Kenya.

PUBLICATIONS

Dr. Nguta

J.M. Nguta, J.M. Mbaria, D.W. Gakuya, P.K. Gathumbi, J.D. Kabasa, S.G. Kiama. Cytotoxicity of animalarial plants extracts from Kenyan biodiversity to the brine shrimp, *Artemia salina* L. (Artemiidae). Drugs and Therapy Studies 2012; volume 2:e12.

J.M. Nguta, J.M. Mbaria, D.W. Gakuya, P.K. Gathumbi, J.D. Kabasa, S.G. Kiama Evaluation of acute toxicity of crude plant extracts from Kenya biodiversity using brine shrimp, *Artemia saline* L. (Artemiidae). The Open Conference Proceedings Journal, 2012, 3, 30-34

J.M. Nguta, J.M. Mbaria, D.W. Gakuya, P.K. Gathumbi, J.D.Kabasa, S.G.Kiama, 2011. Biological Screening of Kenyan Medicinal plants using *Artemia salina* L. (Artemiidae).

J.M. Nguta, J.M. Mbaria, D.W. Gakuya, P.K. Gathumbi J.D.Kabasa and S.G.Kiama, 2012. Evaluation of Acute Toxicity of Crude Plant Extracts from Kenyan Biodiversity using Brine Shrimp, *Artemia salina* L. (Artemiidae)

Joseph Mwanzia Nguta, James M.Mbaria, Peter K.Gathumbi, Daniel Gakuya, John David Kabasa and Stephen Gitahi Kiama. 2011. Ethnodiagnostic skills of the Digo community for malaria: a lead to traditional bioprospecting



F.K. Mutua, C.E. Dewey, S.M. Arimi, E. Schelling, W.O. Ogara and M. Levy, 2011. Reproductive performance of sows in rural communities of Busia and Kakamega Districts, Western Kenya.

Prof. Ogara

Francis Gakuya1, Luca Rossi, Jackson Ombui, Ndichu Maingi, Gerald Muchemi, William Ogara, Ramón C Soriguer and Samer Alasaad, 2011. The curse of the prey: *Sarcoptes* mite molecular analysis reveals potential prey-to-predator parasitic infestation in wild animals from Masai Mara, Kenya

F.K. Mutua, C.E. Dewey, S.M. Arimi, E. Schelling, W.O. Ogara and M. Levy, 2011. Reproductive performance of sows in rural communities of Busia and Kakamega Districts, Western Kenya.

Florence Kanini Mutua, Catherine Dewey, Samuel Arimi, Willaim Ogara, Mike Levy, Esther Schelling, 2011. A description of local pig feeding systems in village smallholder farms in Western Kenya.

W.O. Ogara, J.S. Olesarioyo, G. Muchemic and N. Oguge, 2011. Community based best practices in natural resources management and pastoralism in Ewaso Nyiro Ecosystem, Kenya: A case study of Namunyak and Naibung conservancies.

F.K. Mutua, C.E. Dewey, S.M. Arimi, W.O. Ogara, S.M. Githigia, M. Levy and E. Shelling, 2011. Indigenous pig management practices in rural villages of Western Kenya.

Dr. Onono

Joshua Orungo Onono, Barbara Wieland, Jonathan Rushton, 2012. Productivity in different cattle production systems in Kenya.

Dr. Muchemi

Gakuya F., Ombui, J., Maingi, N., Muchemi, G., Ogara, W., Ooriguer, R.C. and Alasaad, S. (2012). Sarcoptic mange and cheetah conservation in Masai Mara (Kenya): Epidemiological study in wildlife/livestock systems. Parasitology (2012).

Gakuya, F., Ombui, J., Henkelbach, J., Maingi N., Muchemi, G., Ogara, W., Mijele, D., and Alasaad, S. (2012). Knowledge of mange among Masai pastoralists in Kenya. PloS ONE journal Vol. 7, Ussue 8 (2012).

Prof. Mbaria

O Ombasa, P G Kareru, G. Rukunga, **J Mbaria**, J M Keriko, B O Owuor (2012). *In-vitro* anthelmintic effects of two Kenyan plants extracts against *Haemonchus contortus* adult worms. *International Journal of Pharmacological Research* 2(3):113-116



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, **J Mbaria**, J M Keriko, B O Owuor (2012). Mortality of Entada leptostachya Harms. and Rapanea rhododendroides

(Gil) Mez. Extracts. African. J. Ethnomed. Pract. 1 (1):36-43

Dr. Kanja

Mureithi D., Danish W.S., Ikenaka Y., Kanja L., Mayumi I. (2012). Cytochrome P4503A in RNA expression along goat and rat gastrointestinal tract. Japanese Journal of Veterinary Research 60 (4) 205-210.

Prof. Maitho

Bundotich J.K., Mbaria, J.M. and Maitho, T. 2012. Study of acute toxicity of Zanthoxylum chalybeum using mice and brine shrimp experimental model. African Journal of Traditional, Complementary and Alternative Medicine (In, Press).

Nkoroi J.K. and Maitho T. 2012. Prevalence and control of mastitis in Mathira Constituency, Nyeri country. The Kenya Veterinarian (final review).

Prof. Kitala

Kipronoh, K.A., Gathuma, J.M, Kitala, P.M. and Kiara, H.K. 2011. Prevalence of tick-borne infections in extensive cattle management system in West Pokot District, Kenya.

John Gachohi, Rob Skilton, Frank Hansen, Priscilla Ngumi and Philip Kitala, 2012. Epidemiology of East Coast fever (Theileria parva infection) in Kenya: past, present and the future.

Kipronoh, K.A, Gathuma J M, Kitala P M*and Kiara H K, 2011. Pastoralistsqperception of the impact of East Coast fever on cattle production under extensive management in Northern Rift Valley, Kenya.

Prof. Mbaria

- .M. Nguta, J.M. Mbaria, D.W. Gakuya, P.K. Gathumbi, J.D. Kabasa, S.G. Kiama. Cytotoxicity of animalarial plants extracts from Kenyan biodiversity to the brine shrimp, *Artemia salina* L. (Artemiidae). Drugs and Therapy Studies 2012; volume 2:e12.
- J.M. Nguta, J.M. Mbaria, D.W. Gakuya, P.K. Gathumbi, J.D. Kabasa, S.G. Kiama Evaluation of acute toxicity of crude plant extracts from Kenya biodiversity using brine shrimp, *Artemia saline* L. (Artemiidae). The Open Conference Proceedings Journal, 2012, 3, 30-34
- 3. J.M. Nguta, J.M. Mbaria, D.W. Gakuya, P.K. Gathumbi, J.D.Kabasa, S.G.Kiama, 2011. Biological Screening of Kenyan Medicinal plants using *Artemia salina* L. (Artemiidae).
- J.M. Nguta, J.M. Mbaria, D.W. Gakuya, P.K. Gathumbi J.D.Kabasa and S.G.Kiama, 2012. Evaluation of Acute Toxicity of Crude Plant Extracts from Kenyan Biodiversity using Brine Shrimp, *Artemia salina* L. (Artemiidae)



baria, Peter K.Gathumbi, Daniel Gakuya, John David Kabasa hnodiagnostic skills of the Digo community for malaria: a lead

Dr. Kanja

Dominic Mureithi, Wageh Sobhy Darwish , Yoshinori Ikenaka, Laetitia Kanja and Mayumi Ishizuka 2012. Cytochrome P450 3A mRNA expression along goat and rat gastrointestinal tracts

Dr. Aboge

Yan Li, Mohamad Alaa Terkawi, Yoshifumi Nishikawa, Gabriel Oluga Aboge, Yuzi Luo, Hideo Ooka, Youn-Kyoung Goo, Longzheng Yu, Shinuo Cao, Yongfeng Sun, Junya Yamagishi, Tatsunori Masatani, Naoaki Yokoyama, Ikuo Igarashi, and Xuenan Xuan 2011. Macrophages Are Critical for Cross-Protective Immunity Conferred by *Babesia microti* against *Babesia rodhaini* Infection in Mice

Prof. Ombui

Francis Gakuya1, Luca Rossi, Jackson Ombui, Ndichu Maingi, Gerald Muchemi, William Ogara, Ramón C Soriguer and Samer Alasaad, 2011. The curse of the prey: *Sarcoptes* mite molecular analysis reveals potential prey-to-predator parasitic infestation in wild animals from Masai Mara, Kenya

Prof. Kangethe

Erastus Kangœthe, Violet Kimani, Delia Grace, Grace Mitoko, Brigid McDermott, Julie Ambia, Concepta Nyongesa, Gabriel Mbugua, William Ogara, Peninnah Obutu, 2012. Development and delivery of evidence-based messages to reduce the risk of zoonoses in Nairobi, Kenya

Violet N. Kimani, Grace Mitoko, Brigid McDermott, Delia Grace, Julie Ambia, Monica W. Kiragu, Alice N. Njehu, Judith Sinja, Joseph G. Monda, Erastus K. Kangæthe, 2012. Social and gender determinants of risk of cryptosporidiosis, an emerging zoonosis, in Dagoretti, Nairobi, Kenya

Erastus K. Kangoethe, Violet N. Kimani, Brigid McDermott, Delia Grace, Alfred K. Langoet, Monica W. Kiragu, Nancy Karanja, Alice N. Njehu, Thomas Randolph, Gabriel Mbugua, Tabitha W. Irungu, Peninnah Ombutu,2012. A trans-disciplinary study on the health risks of cryptosporidiosis from dairy systems in Dagoretti, Nairobi, Kenya: study background and farming system Characteristics.

Delia Grace, Joseph Monda, Nancy Karanja, Thomas F. Randolph, Erastus K. Kangæthe, 2012.

Participatory probabilistic assessment of the risk to human health associated with cryptosporidiosis from urban dairying in Dagoretti, Nairobi, Kenya

Delia Grace, Erastus Kangoethe, David Waltner-Toews, 2012. Participatory and integrative approaches to food safety in developing country cities

Erastus K. Kangoethe, Erastus K. Mulinge, Robert A. Skilton, Moses Njahira, Joseph G. Monda,

Concepta Nyongesa, Cecilia K. Mbae, Stanley K. Kamwati 2012. Cryptosporidium species detected in calves and cattle in Dagoretti, Nairobi, Kenya



Click Here to upgrade to Unlimited Pages and Expanded Features suring change in risk management behaviour among urban lius N. Nyangaga, Delia Grace, Violet Kimani,

wonica w. Miagu, Aireu K. Langar, Gaoriel Mbugua, Grace Mitoko, Erastus K. Kangœthe, 2012.

Erastus Kangeqhe, Brigid McDermott, Delia Grace,, Cecilia Mbae, Erastus Mulinge, Joseph Monda, Concepta Nyongesa, Julie Ambia, Alice Njehu, 2012. Prevalence of cryptosporidiosis in dairy cattle, cattle-keeping families, their non-cattle-keeping neighbours and HIV-positive individuals in Dagoretti Division, Nairobi, Kenya

Delia Grace, Jeff Gilbert , Thomas Randolph, Erastus Kang@the, 2012. The multiple burdens of zoonotic disease and an ecohealth approach to their assessment

Prof. Gathuma

Kipronoh, K.A., Gathuma, J.M, Kitala, P.M. and Kiara, H.K., 2011. Prevalence of tick-borne infections in extensive cattle management system in West Pokot District, Kenya.

Stephen G. Mbogoh and Joseph Gathuma, 2012. Methodological issues applications in economic evaluation of alternative livestock disease control strategies. The case of the CBPP Quarantine line in North-Eastern Kenya.

Kipronoh K A, Gathuma J M, Kitala P M and Kiara H K, 2011. Pastoralistsqperception of the impact of East Coast fever on cattle production under extensive management in Northern Rift Valley, Kenya

PAPERS PRESENTED

Dr. Muchemi

Nanyingi, M.O., Kiama, S.G., Thumbi, S.M. and Muchemi, G.M. (2012). Climate change vulnerability, adaptation and mitigation of livestock systems in Kenya. Joint Faculty of Veterinary Medicine and KVA conference, April, 2012, Nairobi.

Chege, S., Kitala, P., Muchemi, G. and Iqbal, M. (2012). Factors associated with ungulate morbidity and mortality in Al Ain Wildlife Park and Resort, UAE. Joint Faculty of Veterinary Medicine and KVA conference, April, 2012, Nairobi.

Prof. Kangethe

Erastus K. Kangoethe, Hannu J. Korhonen, Sheila Okoth, Gatwiri Murithi, Christine K. Mburugu, Joseph K. Mungatu and Harrison N. Mburu. Animal feeds types and sources in Nandi and Makueni counties, Kenya: aflatoxins and fumonisins contamination, International silage conference, haemelinna, Finland, 2nd July 2012

Dr. Nguta

J.M. Nguta. Efficacy, safety and phytochemical screening of selected antimalarial plants form Kenya. 13th International Symposium on Natural Products Chemistry and Related Biological Sciences, International Centre for Chemical and biological Sciences (ICCBS), University of Karachi, Pakistan, Sept. 22-25, 2012.

J.M. Nguta. Spectroscopic determination of cobalt and copper in grass pastures in Kabete, Kenya. 4th International Toxicology Symposium in Africa, Samora Machel School of Veterinary Medicine, University of Zambia 2-4th Sept. 2012.



ad poisoning by waste from a battery manufacturing company in Nakuru, Kenya.September 5, 2012. 4th International Toxicology Symposium in Africa. Held Samora Machel School of Veterinary Medicine, University of Zambia.

J. M. Mbaria (2012) Mapping the double disease burden and complications. March 1st to 2nd, 2012: Expert meeting on indigenous peoples, diabetes and development, organized by International Diabetes Federation and World Diabetes Foundation. Held at Marriot Hotel, Copenhagen Demark.

Prof. Maitho

Maitho, T. Clinical trials of herbal medicines in animals. 30th-31st January, 2012. Hotel Baulevard, Nairobi.

Maitho, T. pesticides uses, benefits and hazards in Kenya. Advances in Pest Management and the Role of Veterinarians 16th September 2011. Faculty of Veterinary Medicine, Kabete Campus.

Rao, K.P. Kamamia E.K., Maitho T. and Pratima S. Design and formuation development paracetamol -----. 4th International conference on Drug Discovery and Therapy . 12th-15th February 2012, Dubai,

CURRENT STAFF ESTABLISHMENT

Title	In post
Professor	4
Ass. Professor	7
Senior Lecturer	2
Lecturer	9
Tutorial Fellow	1
Chief Technologist	1
Senior Technologist	4
Technologists	7
Assistant Secretary Grade A	1
Junior Technologist IV	1
Technical Assistant III	2
Subordinate Staff II	3
Driver II	1



ialization

Prof. Ombui, J.N. B.V.M. M.Sc., Ph.D. (Nbi) - Public Health, Food safety and hygiene, microbial biotechnology, antibiotic resistance and residues in food.

Professors:

Gathuma, J.M., B.V.Sc., M. Sc., Ph.D. (Nbi) . Veterinary Public Health. Epidemiology, Animal health economics.

Mitema, S.E.O., B.V.M. (Nbi), M.S. (Kansas), Ph.D. (Nbi) . Pharmacology and Toxicology. Chemotherapeutic agents against haemoprotozoa, antibiotic residues studies, calcium channel blockers.

Maitho, T. E., B.V.M. M.Sc. (Nbi) Ph.D. (London) . Pharmacology and Toxicology. Non-steroidal antiinflammatory drugs, pesticide residue in food.

Kangoethe, E.K., B.V.M. (Nbi), M.Sc., (Bristol), Ph.D. (Nbi) . Veterinary Public Health. Meat Science, meat hygiene, and Immunology.

Associate Professors:

Kagiko, M. M., B.V.M., M.Sc., Ph.D. (Nbi) . Veterinary Public Health. Parasitic zoonoses, immunology and food microbiology.

Arimi, S.M., B.V.M., M.Sc. (Nbi), Ph.D. (Reading) . Veterinary Public Health, Milk hygiene, food microbiology and Bacterial and emerging zoonosis.

Njeruh, F.M., B.V.M., M.Sc., Ph.D. (Nbi) . Veterinary Public Health, Immunology, parasitic Zoonoses, Milk hygiene.

Ogara, W. O., D.V.M., M.Sc., Ph.D. (Moscow) . Veterianry Public Health, Meat and Fish hygiene, Environmental Health and hygiene, Environmental Impact Assessment.

Kitala, P.M., B.V.M., M.Sc., Ph.D. (Nbi) . Verinary Public Health. Viral zoonoses and Epidemiology



Senior Lecturers:

Gathura, P.B., B.V.M., M.Sc., Ph.D. Nbi) . Veterinary Public Health. Zoonoses, Immunology and Water hygiene.

Kanja, L. W., B.Sc., M.Sc., Ph.D. (Nbi) . Pharmacology and Toxicology, Analytical chemistry, pesticide residues in food and mother's milk.

Lecturers:

Nderu, F.M.K., B.V.M., (Nbi), M.P.V.M. (California) . Veterinary Public Health. Epidemiology and Food hygiene.

Kahunyo, J.M., B.V.M., M.Sc., (Nbi) . Pharmacology and Toxicology. Pesticides and, mycotoxins.

Senerwa, D. M., B.V.M., M.Sc., (Nbi) . Veterinary Public Health; food microbiology, Molecular biology, bacterial plasmid transfer and resistance.

Macharia, S.M., B.V.M., M.Sc., (Nbi) . Veterinary Public Health. Epidemiology and animal health economics.

Oguna, M.J., B.V.M., MSc., (Nbi) ongoing Ph.D. (Nbi) . Pharmacology and Toxicology. Reproductive pharmacology.

Muchemi, G.M., B.V.M., M.Sc., Ph.D. (Nbi) . Veterinary Epidemiology. Parasitic zoonoses, Biostatistics.

Mapenay, I.M., B.V.M., M.Sc., Ph.D. (Nbi) . Pharmacology and Toxicology. Molecular pharmacology.

Nguta, J. M., B.V.M., M.Sc., Ph.D, (Nairobi) . Pharmacology and Toxicology, Natural Products and Pharmacology and Toxicology of medicinal plants.

Tutorial Fellows:

Onono, J. O., B.V.M., MSc., ongoing Ph.D.. Veterinary Epidemiology, Animal Health Economics and Biostatistics.



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ges and Expanded Featu	ires	
Nduhiu Gitahi	Chief Technologist	HND (KP), MSc. (KU), Dip. Project Mgt (KIM)
Dorcas Nduati	Senior Technologist	HND (KP)
Ronoh Kosgei	Senior Technologist	BSc. (MKU)
Lucy Wanjiru Mwangi	Senior Technologist	HND (KP)
Kenneth Maloba	Senior Technologist	HND (KP)
Francis Gitau	Technologist	Diploma (KP)
Kiogora A. Marimba	Technologist	Diploma (KP)
Joseph Gichuki Nderitu	Technologist	Diploma (NTI)
Alfred Mainga	Technologist	Diploma (KP)
Penina Ateka	Technologist	Diploma (KP)
Kipkorir Bett	Technologist	Diploma (NTI)
James K. Macharia	Technologist	Certificate, JLT (KP)
Leah Mwaniki	Junior Technologist	Certificate, JLT (KP)
Grace Pacho	Technical Assistant III	Certificate, JLT (KP)
Mercy Gitungo	Technical Assistant III	Certificate, JLT (KP), Certificate SLT
Peter K. Njeru	Driver	KCSE
Caroline N. Maina	Assistant Secretary A	Certificate, SS (Temple)
Martin Dongo Ogutu	Technical Assistant II	KCSE
Jackline M. Nyaribo	Technical Assistant II	KCSE
Johnson Silas Mwakio	Technical Assistant II	Certificate, JLT (NTI)

Teaching and Research facilities

Sony Data Projector	1
HP Pavilion Laptop	1
HP 2200 workstations (desktop computers)	4
Catalina chairs . high density cushions	35
Laboratory stools high density cushions	25
Sony LCD projector	1

Key visitors

Khalid Saeed	FAO
Dr. H.K. Kihanya	Meat Training Institute
Kasongo Owkanga	University of DRC



PDF Complete.



UNIVERSITY OF NAIROBI

COLLEGE OF AGRICULTURE AND VETERINARY SCIENCES FACULTY OF VETERINARY MEDICINE

DEPARTMENT OF VETERINARY PATHOLOGY, MICROBIOLOGY AND PARASITOLOGY

ANNUAL REPORT

2011/2012



Department of Veterinary Pathology, Microbiology and Parasitology was among the first departments that started with set-up of Faculty of Veterinary Sciences of the University of East Africa, Makerere in 1962, which later evolved to Faculty of Veterinary Medicine in 1970, when University of Nairobi was established by an act of parliament.

The department is located on upper Kabete campus on Loresho Ridge Road, off Kapenguria Road, approximately 2 kilometers from the main Nairobi-Kikuyu-Limuru Highway. It is approximately 15 kilometers North-West of Nairobi City center. It comprises of the following sections: Pathology (gross-pathology, histopathology and clinical pathology), Microbiology (bacteriology, mycology, virology and immunology) and Parasitology (helminhology, entomology and protozoology); and carries out the following other services: diagnostic pathology, diagnostic microbiology, diagnostic parasitology, poultry clinic, and mycotoxin analysis.

The department is involved in:-

(1) The teaching of both undergraduate (Bachelor of Veterinary Medicine, BSc. in Biomedical Technology and BSc. in Wildlife Management and Conservation) and postgraduate (MSc and PhD) students in the following disciplines: - Pathology, Clinical pathology, Microbiology, Immunology, Parasitology and Diagnostic pathology, and Fish Science.

(2) Servicing other departments through teaching some of their courses. These include departments within the Faculty of Veterinary Medicine (Animal Production, Public Health, and Clinical Studies), Faculty of Human Medicine (Biochemistry) and Faculty of Agriculture [Department of Agricultural Economics and Department of Land Resource Management of Agricultural Technology (LARMAT).

(3) Carrying out problem-oriented research, which is geared towards improving animal health and production (domestic and wild, including poultry, fish and rabbits), human health, poverty alleviation and ensuring environmental sustainability; respective findings being disseminated to the general public via publications, workshops, seminars, conferences, farm visits and field days

(4) Offering demand-driven diagnostic services in diseases of both domestic and wild animals, including poultry, fish and rabbits; and zoonotic diseases. These diagnostic services also form part of the training component for both undergraduate and postgraduate students

2.0 COURSES OFFERED IN UNDERGRADUATE PROGRAMS.

The Department teaches courses on pathology, microbiology and parasitology in the following programs that are offered by the faculty of veterinary medicine: Bachelor of Veterinary Medicine, BSc. in Biomedical technology and BSc. in Wildlife management and Conservation. The department also services course in degree programs offered by Faculty of agriculture and faculty of medicine



ATE PROGRAMS AND STUDENT ENROLLMENT

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No.	Name of Students	Year Graduated	Programmes in the Department.	No. Graduated in 2011/ 2012
1	Dr. Wilson Kuria	-	MSc. in Vet Pathology and	-
1	Gachugia		Microbiology	
2	Dr. Kyalo Micheal	-	MSc. in Applied Vet.	-
-	Makau		Parasitology	
3	Dr.Nyamweya Joel	-	MSc. in Applied Vet.	-
	Makau		Parasitology	
4	Dr. Mwihia Evalyn	_	MSc. Clinical Pathology and	-
	Wanjiru		Laboratory Diagnosis	
	,		, , ,	
5	Thanda Carter	-	MSc. in Vet Pathology and	-
			Diagnostics	
6	Dr. Kibore Benson	-	MSc. in Applied Microbiology	-
7	Dr. Mutua Victoria	-	MSc. in Applied Microbiology	-
	Ngoqndu		Mee. In Applied Microsology	
8	Dr. Wagura D.	-	MSc. in Applied Vet.	-
	Warui		Parasitology	
9	Dr. Kamundia Patrick Waweru		MSc. in Fish Science	-
	Pallick Waweru			
10	Dr Chago Lloppo		MCa in Applied Vat	
10	Dr.Chege Hanna Wambui	-	MSc. in Applied Vet. Parasitology	-
	vvanibui		Falasitology	
11	Dr. Maina S. Migwi	-	MSc. in Applied Microbiology	-
12	Dr.Kemboi David	-	MSc. in Applied Microbiology	-
	Chebutai			
13	Dr.Christine Minoo	-	MSc. in Applied Microbiology	-
	Bindyo			
14	Dr. Dhaval Shah	-	MSa in Vat Dathalagy and	
14	DI. Dhavai Shah	-	MSc. in Vet Pathology and Diagnostics	-
15	Dr. Paul Okumu		MSc. Clinical Pathology and	-
	Onyango		Laboratory Diagnosis	
17	Mubemba Benjamin	-	MSc. In Fish Science	-
	(Foreign Student)			

b) PhD PROGRAMS

Name of the student	Year registered	Name of	Year Graduated
		program	



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re to	upyrade to Jes and Expanded Fe	atures	Vet Pathology and Diagnostics	ongoing
		0040/0044		
2.	Simon Mwangi Kihu	2010/2011	Applied Microbiology	ongoing
3.	Dr. Vincent O. Obanda	Processing his registration	Applied Parasitology	ongoing
4	Benear A. Obanda	Processing his registration	Applied Microbiology	ongoing
5.	Nkando Isabella Gacheri	Processing her registration	Applied Microbiology	On going
6.	Dr. Mutinda Wanzila Usyu`	Processing her registration	Applied Microbiology	On going
7.	Dr. Donald Mukolwe Lubembe	Processing his registration	Applied Vet. Parasitology	On going

3.0 EXTERNAL EXAMINERS IN 2011/2012

- 3.1 Dr.Ciira Kiiukia- Jomo Kenyatta University- Kenya (Microbiology- semester I)
- 3.2 Dr. Joseph M. Nginyi- Kenya Agricultural Research Institute (Parasitology- Semester I)
- 3.3 Dr. Rubaire- Akiiki- Makerere University- Uganda (Parasitology- semester II
- 3.4 Dr. Denis K. Byarugaba- Makerere University- Uganda (Microbilogy- Semester II
- 3.5 Prof. George Mwamengele- Sokoine University of Agriculture- Tanzania (Pathology-Semester II)

4.0 ONGOING RESEARCH PROGRAMS

5.1 P.G. Mbuthia attended 2nd Planning meeting for the project Conhancement of Sustainable Productivity of Fish in Lake Victoria through control of pollutants with Emphasis on Endocrine Disruptors and Microbial pathogens+. VicRes Project. Held at Sunset Motel, Entebbe on 12th to 14th August 2011. All costs were met by the project, such as:

4.1 Air fare . USD 340.0
4.2 Per diem . USD 110 per day
4.3 Local travel . USD 35.0
4.4 Health insurance . USD 27.0
(Appendix 10A)

5.2 P.G. Mbuthia attended meeting Aquaculture Stakeholder¢ in Kirinyaga County, held on 18th and 19th August 2011 for the project, Enhancing Sustainability and Commercialization of Aquaculture through EfficientProduction, Value Addition, and Partnership Development+. All travel and per diem costs were met by the research grant.



IENTS:

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d a successful tree nursery of medicinal plants (Figure 1) at der the project on, evaluation ancommercialization of proved livelihoods: a case study of East Coast feverg Funded

by World Bank grant through Kenya Agricultural Productivity (KAPP) led by **Prof. P.K. Gathumbi**. From this project, medicinal plants seedlings were donated to CAVS tree planting activities and to tree planting activities in selected schools

The **department** has established and maintained a successful botanical garden of medicinal plants at CAVS field station for conservation, teaching and recreational purposes under the project on, **£valuation and commercialization of medicinal plants' extracts for improved livelihoods**: a case study of East Coast feverq Funded by World bank grant through Kenya Agricultural Productivity (KAPP) led by **Prof. P.K. Gathumbi** (Figure 2)

6.3Prof. E. Maingi, *Diagnostic and Control Tools and Strategies for Taenia soliu cysticercosis (ASARECA/AB/2009/01). Total funding: US\$ 521,859. Funding to University of Nairobi: US\$ 120,145".*

6.5Prof. L.C. Bebora, , , Prof. N. Maingi, Prof. P.N. Nyaga, Dr. P.G. Mbuthia, Dr. C.O. Gor and Dr. L.W. Njagi, *"Enhancing Village Chicken Productivity through Parasite Management for Effective Newcastle Disease Vaccination in Kenya"*

6.6Dr. J.G. Maina, Dr. P.G. Mbuthia, Prof. E.G. Karuri, Dr. Sabina W., Prof. E.G. Karuri, Mr. George O. Owiti, Dr. Bethuel Omolo, Mr. Paul Orina, Ms Jane Ngugi, "Enhancing Sustainability and Commercialization of Aquaculture through best Production Practices, Value Addition and Partnership in Development".

6.7 Dr. P.G. Mbuthia, "Enhancement of Sustainable Productivity of Fish in Lake Victoria through Control of Pollutants with Emphasis on Endocrine Disruptors and Microbial Pathogens".

6.8 **Prof. P.W.N. Kanyari,** Dr. J.Kagira, Prof. J.R.L. Mhoma and Prof. Akiiki **Rubaire**‰*haracterizing and Assessing the benefits and Public Health Risks of Urban and Peri-Urban Livestock Production in Three Urban Settlements around Lake Victoria namely Kisumu, Entebbe and Mwanza*".

6.9 Prof. P.W.N. Kanyari, "Developing Reforms for promoting ASAL communities in drought mitigation and maximization of livestock resources for improved livelihoods through strategic linkages"



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and phlogeographic relations among ectoparasites of wild untain ranges (Kulal and Nyiru) from Northern Kenya". \

6.92 Dr. C.G. Gitao, a research on *"Improvement Of Dairy Productivity And Marketing In Sub humid And Pastoral Areas Of Kenya Through Improved Dairy Value Chain" – 2010-2013* KAPAPCGS/CN/2010/LS/RC NO. 04, 2010-2013 (*Appendix 8c*)

6.93 Dr. C.G. Gitao, a proposal on *Qevelopment of strategies for clean milk marketing and production in east Africa:EAAPP-OCGS-01-2011-18, 21st February, 2012.*

6.94 **Dr. C.G. Gitao** together with other collaborating Institutions: Sokoine University of Agriculture; Ministry of livestock, Dept Veterinary Services; FAO; Networks East Africa, a research on *"Developing capacity for implementing innovative PPR control strategies based on the Epidemiology and Socio-economic aspects of the disease in the East African region (RU/CFP/CGS/TADS/09/1*

7.0 NEW RESEARCH GRANTS

7.1 Prof. P.W.N. Kanyari, "Diversity and phylogeographic relations among ectoparasites of wild birds and small mammals in two mountain ranges (Kulal and Nyiru) from Northern Kenya"

7.2 As a result of his visit to Romania in the month of September last year, the University of Nairobi, Faculty of Veterinary Medicine and the University of Agricultural Sciences and Veterinary Medicine, Cluj-Napoca, Romania signed an MoU.

The following two pieces of equipment were acquired:

- •A Digital Microscope valued at KES 900,000.00
- •A Stereo Microscope valued at KES 600,000.00

7.3 Prof. P.W.N. Kanyari, *Post graduate Training Course:* MSc in Veterinary Epidemiology and Public Health by Distance Learning .

7. Dr. J.K.N. Kuria was confirmed a collaborator in the SUBPROJECT "Developing 4reforms for Promoting ASAL Communties in Drought Mitigation and Maximisation of Livestock Resources for Improved Livelihoods through Strategic Linkages", letter dated 20/01/2012.

8.0 Consultancies

9.1_Prof. N. Maingi attended a three days consultative, planning and write-shop at the Hilton Hotel in Nairobi from 7th to 9th November 2011. The meeting was organized by the Agrobiodiversity & Biotechnology Program (AGROBIO) of ASARECA. It brought together scientists from various countries who have been participating in eight (8) projects funded by ASARECA



the Principal Investigator for one of the projects titled itegies for *Taenia solium* cysticercosis.

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The objectives of the meeting were:

- 1. To prepare manuscripts for publication of data collected under the projects. These are to be published as regional papers where more than one country is involved.
- 2. Prepare regional manuals, posters, pamphlets and other materials from the project.
- 3. Plan and agree on appropriate delivery pathways for the generated information products.
- 1. Plan on the next phase of the project since ASARECA has agreed to extend project activities up to 2013.

9.1 Dr. Githigia, S.M. National Consultant – Pig Sector Review in Kenya- Project of FAO . ECTAD Regional Office for East Africa , July . October 2010.

Submitted a comprehensive report on the pig sector in Kenya after interacting with various stakeholders in the livestock industry in Kenya. The report included current policies and legal frame work affecting the pig sector in Kenya. The strength, potential and weaknesses of the industry were analyzed and a strategy for the pig industry formulated.

9.2 Dr. S.M. Githigia Appointed member to the taskforce on National Pig Development Strategy (NPDS) by PS Ministry of Livestock Development – June 2012

10.0 PUBLICATIONS

10.1 Lucy W. Njagi. Paul G. Mbuthia. Phillip N. Nyaga. Lilly C. Bebora. Uswege M. Minga

(2011) Viral nucleoprotein localization and lesions of Newcastle disease in tissues of indigenous ducks *Trop Anim Health Prod DOI 10.1007/s 11250-011-9958-2*

- 10.2 John M. Kagira. Paul N. Kanyari. Samuel M. Githigia. N. Maingi. James C. Ngqangqa. John M. Gachohi (2011) Risk factors associated with occurrence of nematodes in free range pigs in Busia District, Kenya Trop Anim Health Prod DOI 10.1007/s11250-011-9951-9.
- 10.3 Gakuya, F. Rossi, L., Ombui, J., Maingi, N., Muchemi, G., Ogara, W., Soriguer, R. and Alasaad, S. (2011). The course of the prey: *Sarcoptes* mite molecular analysis reveals potential prey-to-predator parasitic infestation in wild animals from Masai Mara, Kenya. Parasites and Vectors Article No. 1794326039587938 of 2011.
- 10.4 P. G. Mbuthia, L. W. Njagi, P. N. Nyaga, L. C. Bebora, U. Minga, Jens Peter Christensen & J. E. Olsen; (2011) Time course investigation of infection with a low virulent



al and immune-suppressed 12 week-old free range chickens:

8.

- 10.5 Sabuni Z A, Mbuthia P G, Maingi N, Nyaga P N, Njagi L W, Bebora L C and Michieka J N² 2011. Prevalence of haemoparasites infection in indigenous chicken in Eastern Province of Kenya. Livestock Research for Rural Development 23(11)2011. http://www.lrrd.org/lrrd23/11/sabu23238.htm
- 10.6 J. M. Nguta, J.M. Mbaria, D.W. Gakuya, P.K. Gathumbi, J.D. Kabasa, S.G. Kiama. Biological screening of Kenyan Medicinal plants using *Artemia Salina L*. Pharmacologyonline 2: 458-478 (2011).
- 10.7 **Karanja D N**, Ngatia T A, Wabacha J K, Bebora L C and Ngqangqa C J (2011). The pathogenic effects associated with natural gastrointestinal helminth infections in pigs in Kenya. Bull Anim Hlth Prod Afr. 59: 53-59
- 10.8 J.W. Aleri, A.N. Kipyegon, J.D. Mande, C.M. Mulei, and D. N. Karanja. Acute Respiratory Distress Syndrome Due to Babesiosis in a Dog: Case Report. Research Journal of Animal Sciences 5 (2): 14. 16, 2011.
- 10.9 Muthee J.K., Mbaria J M, Thaiya A G, Karanja D N and Gakuya D W. Clinical, Haematological, Biochemical and Pathological Manifestations of Sub-Acute Toxicity of *Nicandra Physaloides*(L) Gaertn in calves. Bull.Anim. Hith. Prod. Afr: (2011).59 17-24.
- 10.10Karanja D.N, Ngatia T.A, Wabacha J.K. & Bebora L.C. (2011): Cases of pig poisoning encountered naturally in small holder farms in Nairobi and its environs. Kenya Veterinarian 35(1): 52-55.
- 10.11Kutto, Ngigi, Karanja D.N., Kangeqhe, Bebora L.C., Lagarkvist, Mbuthia, Njagi and Okello (2011): Bacterial contamination of Kale along the value chain in Nairobi and its environs. Paper presented at the 10th African Crop Science Society Conference, 10th. 13th October 2011, at Maputo, Mozambique.
- 10.12Prof. John Cooper, Dr. Margaret Cooper, Prof. P.K. Gathumbi, Prof. P.N. Nyaga, P.G. Mbuthia, L.W. Njagi, J. Mbaria, M.Ogeto, Laban Njoroge (2011). A report on Veterinary Forensic Works. The bulletin of the Royal College of Pathologists 156:255. 257.
- 10.13P.G. Mbuthia, L.C. Njagi, P.N. Nyaga, L.C. Bebora, U.Minga, P. Christensen and J.E. Olsen (2011) Time . Course investigation of infection with a low virulent *Pasteurella multocida* strain in



- 10.14 **Dr.P.G. Mbuthia**, *"Risk (Predisposing) factors for non-infectious claw disorders in Dairy cows under varying zero Grazing Systems",* in a book % Birds-eye view of Veterinary Medicine edited by Carlos C. Perez-Marin, published February, 2012.(Appendix 1)
- 10.15Obonyo F.O., Prof. E.Maingi, Githigia S.M. and Ngaqq;a C.J. 2012, Prevalence, intensity and spectrum of helminthes of free range pigs in Homabay District, Kenya. *Livestock Research for Rural Development, Volume 24, Article* #48. Retrieved March 14, 2012, from http://www.lrrd.org/lrrd24/3/obon24048.htm (Appendix 2)
- 10.16 Dr. L.W. Njagi, Prof. P.N. Nyaga, Prof.L.C. Bebora, Dr. P.G.Mbuthia, and Uswege M. Minga a Research Article on *Effect of Immunosuppression on Newcastle Disease Virus Persistence in Ducks with Different Immune Status, International Scholarly Research Network ISRN Veterinary Science Vol.2012, Article ID 253809.*" to verify the possibility of ducks being sources of Newcastle disease (ND) virus infection for chickens in mixed flocks 4th January, 2012. (Appendix 3)
- 10.17**Prof. cooper J, Margaret Cooper and the Department of Veterinary Pathology Microbiology and Parasitology** © ompanion Bsava on 29/1/2012 . *hosted Prof. John cooper and his wife Margret a one-day Forensics Workshop in Kenya* 25/01/2012. (Appendix 4)
- 10.18 **Dr.P.G. Mbuthia**, *"Risk (Predisposing) factors for non-infectious claw disorders in Dairy cows under varying zero Grazing Systems",* in a book **%** Birds-eye view of Veterinary Medicine edited by Carlos C. Perez-Marin, published February, 2012
- 10.19 Obonyo F.O., **Prof. E.Maingi**, Githigia S.M. and Ngaqng;a C.J. 2012, Prevalence, intensity and spectrum of helminthes of free range pigs in Homabay District, Kenya. *Livestock Research for Rural Development, Volume 24, Article #48.* Retrieved March 14, 2012, from http://www.lrrd.org/lrrd24/3/obon24048.htm.
- 10.20 Dr. L.W. Njagi, Prof. P.N. Nyaga, Prof.L.C. Bebora, Dr. P.G.Mbuthia, and Uswege M. Minga a Research Article on *Effect of Immunosuppression on Newcastle Disease Virus Persistence in Ducks with Different Immune Status, International Scholarly Research Network ISRN Veterinary Science Vol.2012, Article ID 253809.*" to verify the possibility of ducks being sources of Newcastle disease (ND) virus infection for chickens in mixed flocks 4th January, 2012.



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and the Department of Veterinary Pathology ompanion Bsava on 29/1/2012 . *hosted Prof. John cooper ensics Workshop in Kenya 25/01/2012.*

10.21 Dr. S.M. Githigia, Sam Okuthe and Bouna Diop, FAO, 2012:" *Pig Sector Kenya, FAO Animal Production and Health Livestock Country Reviews No. 3 Rome*

10.22 Gichohi, C.M., Mbuthia, P.G., **Waruiru, R.M.**, Ngatia, T.A., Kamundia, P.W., Mutune, M.N. & Otieno, R.O. (2011). Prevalence and intensity of Paracamallanus species infection in farmed and wild catfish. The Kenya Veterinarian, 35: 25-32.

10.23Joseph Mwanzia Njguta, James M Mbaria, **Peter K Gathumbi**, Daniel Gakuya, John David Kabasa and Stephen Gitahi Kiama, ‰thnodiagnostic skills of the digo Community for malaria: a lead to traditional bioprospecting.+

10.24 Ngugi M Piero, NJagi N Joan, Kibiti M Cromwell, Ngeranwa J Joseph, Njagi N M Eliud, Njue M Wilson, **Gathumbi K Peter** and, Werbal management of Diabetes Mellitus; A rapidly expanding research avenue+

10.25Ngugi M Piero, Murugi N Joan, Kibiti M Cromwell, Ngeranwa J Joseph, Njue M Wilson Maina Daniel, **Gathumbi K Peter** and Njagi N Eliud, ‰ypoglycemic Activity of some Kenyan plants traditionally used to manage Diabetes Mellitus in Eastern Province.+

10.26JM Nguta, JM Mbaria, DW Gakuya, **PK Gathumbi**, JD Kabasa and SG Kiama **B**iological screening of Kenya Medicinal plants using Artemia Salina L. (ARTEMIDAE).

10.27Njagi J.M., Ngugi M.P., Kibiti C,M, Ngeranwa N.J.J., Njagi, E.N.M, Mbiti W.N., Maina D. and **Gathumbi P.K.** Evaluation of anti diabetic effects of *Kleinia Squarrosa* on alloxanized diabetic mice

10.28Njagi J.M., Ngugi M.P, Kibiti C,M, Ngeranwa N.J.J, Njagi, E.N.M, Njue, M.W., Maina D., and **Gathumbi P.K.** Hypoglycemic effects of *Caesalpinia Volkensii* on alloxan. induced diabetic mice

10.29AG Thaiyah, PN Nyaga, JM Maribei, **TA Ngatia**, JPM Kamau and JM Kinyuru, ‰ Acute, subchronic and chronic toxicity of Solanum incanum L in sheep in Kenya.+



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uiru, TA Ngatia, PW Kamundia, M Nthenya and RO Otieno lanus species infection in farmed and wild catfish+.

10.31**DN Karanja**, TA Ngatia, JK Wabacha and LC Bebora, **Cases** pig poisoning encountered naturally in smallholder farms in Nairobi and its environs.+

10.32Epaphras A Muse, Ramadhan B Matondo, Esron D Karimuribo, Gerald Misinzo, Mbyuzi O Albano and **George G Gitao**, Clinico-pathological findings of the 2011 outbreak of Peste des Petits Ruminants (PPR) in Tandahimba District Southern Sudan.

10.33Chepkwony E.C., **Dr. C.G. Gitao** and Muchemi G.M. "Seroprevalence of Foot and Mouth Disease in the Somali Eco-System in Kenya.+

10.34Purity N Nguhiu, Claire N Wamae, Japheth K Magambo, **Paul G Mbuthia**, Daniel C Chai and Dorcas S Yole, Gross and histopathological findings in Cercopithecus aethiops with experimental Cyclospora infection in Kenya

10.35 Dr. S. M. Githigia, Sam Okuthe, Bouna Diop (2012) Pig Sector Kenya. FAO Animal Production and Health Livestock Country Reviews No. 3 Rome

10.36Obonyo, F.O., Maingi, N., **Githigia, S.M**., Ngqangqa, C.J. (2012). Prevalence, intensity and spectrum of helminths of free range pigs in Homabay District, Kenya

10.37Kenya Livestock Research for Rural Development 24 (03) 2012 Kagira, J.M.; Kanyari, P.W.N.; **Githigia,S.M**.; Maingi,N.: Nganga, J.C.; Gachohi, J.M. (2011). Risk factors associated with occurrence of nematodes in free range pigs in Busia District, Kenya. Trop Anim Health Prod

11.0 WORKSHOPS AND CONFERENCES

11.1P.G. Mbuthia presented and participated CL Davis Pathology Workshop on Enhanced Diagnostic Veterinary pathology Capacity of Transboundary Diseases, held in United Nations Center in Addis Ababa, Ethiopia on 14th September 2011. All costs were met by CL Davis and ICOPHAI, such as:

- a. Air fare . USD 254.0
- b. Per diem and local travel . USD 510.0
- c. Health insurance . USD 27.0 (paid by me)

11.2 P.G. Mbuthia participated in 1st International Congress on pathogens at the Human-Animal Interface (ICOPHAI): Impact,Limitations and Needs in Developing Countries on 15-17th September 2011 at United Nations Conference Center Addis Ababa, Ethiopia



Click Here to upgrade to Unlimited Pages and Expanded Features parasitology, neight the Dept of Veterinary pathology, Microbiology and Parasitology on 10th and 11th August 2011. FVM, CAVS, Kabete. A CPD course.)

11.4P.K. Gathumbi (2011): Ethnoveterinary medicine and its relevance to Kenya; economy and Food security presented in RESEARCH conference Egerton University SEPT. 22, 2011. All costs were paid by the project. (

Travel 17,260/=,

per diem 13,200/=,

Accommodation 11,800/=. Total = Ksh. 42,260

11.5P.K. Gathumbi attended a stakeholders meeting organized by Global Antibiotic Resistance partnership (GARP) on August, 23-24TH 2011 at Panafric Hotel to discuss the situational analysis on antibiotic Resistance and use in Kenya

11.6P.K. Gathumbi presented and participated in a 2-day course on Trends in veterinary parasitology, held in the Dept of Veterinary pathology, Microbiology and Parasitology on 10th and 11th August 2011. FVM, CAVS, Kabete. A CPD course and presented a paper on parasitic disease of rabbit.

11.7N. Maingi presented and participated in a Two-days Continuing Professional Development (CPD) workshop on Trends in Veterinary Parasitology, held at the Department of Veterinary Pathology, Microbiology & Parasitology, University of Nairobi , 10th and 11th August 2011

11.8N. Maingi participated in a Five-day workshop at the Kenya School of Law from 12th to 16th September, 2011 to prepare Open and Distance Learning notes for the course AAS 204: Parasitology offered to BSc in Agricultural Education and Extension. The workshop was organized by the faculty of Agriculture in Conjunction with the College of Education and External Studies (CEES), University of Nairobi

11.9N. Maingi participated in a One-day workshop on recent developments in the immunodiagnostics for *Taenia solium* cysticercosis in pigs using a lateral flow system as a %penside+test. The workshop was organized by ILRI under the auspices of the ASARECA. funded project on Diagnostic Tools and Strategies for *Taenia solium* cysticercosis and was held at ILRI on 21st September 2011.



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11.11R.M. Waruiru presented and participated in a Two-days Continuing Professional Development (CPD) workshop on Trends in Veterinary Parasitology, held at the Department of Veterinary Pathology, Microbiology & Parasitology, University of Nairobi , 10th and 11th August 2011 **11.12Dr. P.G. Mbuthia** attended the 2nd Monitoring and Evaluation and Research activity for the VicRes project in Kenya at Homabay town.

Travel costs = 4950.00, Per diem = 34,500.00, Others = 10,550.00

Sub total - Ksh 50,000.00.

11.13 **Dr. P.G. Mbuthia** attended Ruforum Research in Mbeere, Eastern Province . Questionnaires were administered and interacted with various stakeholders as well as interviewing indigenous chicken farmers.

Travel costs = Combined with Professor Bebora; Per diem =Ksh 18,000.00

Other consumables = Combined with Professor Bebora.

Subtotal - 18,000.00

11.14**Dr. P.G. Mbuthia** attended VicRes Biennial conference in Munyonyo, Uganda - 1ST LAKE VICTORIA RESEARCH INITIATIVE (VICRES) BIENNIAL FORUM 9-13TH OCTOBER 2011, AT MUNYONYO, KAMPALA UGANDA. SPONSORED BY

THE INTER UNIVERSITY COUNCIL FOR EAST AFRICA

- a. Airticket . USD 340.00
- b. Full board . USD 480.00
- c. Others . USD 150.00
- d. Local travel in Kenya(to and from the Airport)- USD 35
- e. Health Insurance for the period . USD 30

Subtotal = USD 1035.00 x Ksh 90 = Ksh. 93,150.00

- 11.15During the Biennial forum our team presented a plenary paper entitled, Conductine disruptors and Microbial Pathogens in Lake Victoria in the East African Region+
- 11.16**Prof. L.C. Bebora** attended regional dissemination workshop for **%REPARE PhD PROJECT**", held in Arusha, Tanzania from November 29th . 30th November, 2011.
- 11.17**Dr. Gitao C.G.** attended a baseline survey on the KAPAP project from 15-22 Nov 2011 in Embu, Garissa and Meru.



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- 11.19**Prof. P.K. Gathumbi** attended the World Veterinary Congress from 10th to 14th October, 2011 in Cape Town.
- 11.20**Prof. P.K. Gathumbi** served as a member of the working group to draft Natural Products Industry Policy, Bill and Institutional Framework(s) on 19th October, 2011.
- **11.21Prof P.K. Gathumbi**, attended a RISE AFNNET workshop in Nairobi Node on 13th December, 2011
- 11.22**Prof. P.K. Gathumbi**, *invited to attend a stakeholders forum* to provide input to the draft natural products industry policy on 14th March, 2012
- 11.23**Prof. P.K. Gathumbi** was invited to attend Wangari Maathai Day together with world forestry day celebrated on March 21, 2012 at Freedom Corner.
- 11.24**Prof. P.K. Gathumbi** attended a meeting to present the draft natural Products Industry Policy to NESC Social Afairs sub-committee on Tuesday March 20, 2012, at NESC Boardroom KICC, 4th floor.
- 11.25**Prof. P.K. Gathumbi** was invited to attend National Economic and Social Council 9NESC) meeting on The Natural Products Industry Policy . DRAFT at the Kenya School of Monetary Studies on 24/03/2012
- 11.26**Dr. P.G. Mbuthia** was invited to Limnology and Wetland Ecosystems(LWE) DIDACTIC workshop form 7th 11th February 2012 qt Lake Naivasha Country Club by UNESCO-IHE Institute for Water Education.
- 11.27**Dr. P.G. Mbuthia**, was awarded with a certificate of participation in the *Regional Seminar for OIE National Focal Points on Aquatic Animals, held in Accra (Ghana)* 20. 22 March 2012.
- 11.28**Prof P.W.N. Kanyari**, hosted an *Orientation Workshop at the College Boardroom* with the Royal Veterinary College (RVC) London between 20th and 22nd March 2012.



d Bouna Diop, FAO, 2012:" Pig Sector Kenya, FAO Animal Production and meanin Livesiock country Reviews No. 3 Rome."

- 11.30**Prof. P.N. Nyaga,** ANISE 2012: Invited to attend the a3rd annual influenza surveillance held at the crownie plaza, Nairobi $1 3^{rd}$ February 2012
- 11.31**Prof. P.N. Nyaga**, attended a one day seminar on /rift valley fever (RVF) held at ILRI on 2/02/2012 on the work done in Marigat and Thika on the Impact RVF outbreaks on the livelihoods of m=smallholder farmers.(Appendix 9b)
- 11.32**Prof. P.N.Nyaga** attended committee meetings for the National Disaster preparedness Planning at the National Disaster Center 9NDOC), Nairobi. (Feb and March 2012
- 11.33**Prof. P.N. Nyaga** attended a one week workshop at the University CCU between 12-16 March 2012, on GRANT PROPOSAL AND RESEARACH PROPOSAL WRITING TRAINING SEMINARY and was awarded with a certificate.(appendix 9d)
- 11.34**Prof P.K. Gathumbi,** attended a RISE AFNNET workshop in Nairobi Node on 13th December, 2011
- **11.35Prof. P.K. Gathumbi**, *invited to attend a stakeholders forum* to provide input to the draft natural products industry policy on 14th March, 2012.
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mnology and Wetland Ecosystems(LWE) DIDACTIC 012 qt Lake Naivasha Country Club by UNESCO-IHE

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- 11.43**Prof. P.N. Nyaga**, attended a one day seminar on /rift valley fever (RVF) held at ILRI on 2/02/2012 on the work done in Marigat and Thika on the Impact RVF outbreaks on the livelihoods of m=smallholder farmers.
- 11.44**Prof. P.N.Nyaga** attended committee meetings for the National Disaster preparedness Planning at the National Disaster Center 9NDOC), Nairobi. (Feb and March 2012
- 11.45**Prof. P.N. Nyaga** attended a one week workshop at the University CCU between 12-16 March 2012, on GRANT PROPOSAL AND RESEARACH PROPOSAL WRITING TRAINING SEMINARY and was awarded with a certificate
- 11.46**Prof. P.N. Nyaga**, hosted a RUFORUM workshop on RUFORUM M&E Systmem, at the Department of Veterinary Pahtology, Microbiology & Parasitology, Museum room from 28th March to 30th Masrch 2012.

11.47Prof.P.K. Gathumbi was the Chairman of the University of Nairobi Faculty of Veterinary Medicine (FVM) 8th Biennial Scientific Conference and the 46th Kenya Veterinary Association Annual Scientific Conference held at the Safari Park Hotel, Nairobi, Kenya on April, 25 - 27
2012. In this conference, many academic members of staff at CAVS presented papers as highlighted in the attached book of Programme and Abstracts In this conference members of the Department of Veterinary Pathology, Microbiology and Parasitology presented the following papers (p):



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11.49Manyibe T.N and Muriuki S, **Prof. P.K. Gathumbi**, Conservation medicine in the African context. **(Abstract 047)**

11.50Gakuya DW, SG Kiama, JM Mbaria, PN Mbugua, **PK Gathumbi**, M Mathiu, **%**he potential use of moringa oleifera Lam as pultry feed supplement in Kenya.+ (Abstract 021)

11.51Cooper JE, Cooper ME, Nyaga PN, Gathumbi PK, Mbuthia PG, Njagi LW, Githigia SM, Weterinary forensic medicine: an emerging and important discipline+ (Abstract 040)

11.52Kyalo MM, **PG Mbuthia, Maingi, PN. Nyaga, LW Njagi** @ccurrence and lesions associated with echinostoma Revolution in free-range indigenous chickens in Kenya.+(Abstract 027)

11.53Maina JG, **Mbuthia PG**, Ngugi JN;, Karuri EG. "M. Effects of management practices and Economic stimulus program on fish production in Mwea Division of Kirinyaga County+(Abstract 022)

11.54Nguhiu-Mwangi, J Mbithi, PMF Wabacha, J.K. **Mbuthia PG** "The challenges of balancing between productivity and claw health of dairy cows in modernized husbandry in small holder farming units.+(**Abstract 018**)

11.55JKN Kuria and Gathogo SM presented a paper on *Dimorphic yeast fungi* infections in beef cattle" in the Joint Faculty of Veterinary Medicine (FVM) 8th Biennial Scientific Conference & 46th Kenya Veterinary Association (KVA) Annual Scientific Conference & Exhibition held at the Safari Park Hotel, Nairobi, from 25th . 27th April 2012.

11.56 Mathenge, C.G., **Mbuthia, P.G.**, **Waruiru, R.M.**, **Ngatia, T.A.**, **Mutune, M.N.** & **Otieno, R.O.** (2012). Prevalence, intensity and pathological lesions associated with *Contracaecum* species infection in farmed and wild catfish in the upper Tana river basin, Kenya.

11.57Mavuti, S.K., **Mbuthia, P.G.**, **Waruiru, R.M.**, **Njagi, LW., Mutune, M.N., Otieno,** R.O. &Msoffe, P.L.M. (2012). Prevalence of haemoparasites in free-range local ducks



iru, R.M., **Njagi, LW**., **Mutune, M.N., Otieno**, **R.O.,** , G.K. (2012). Prevalence and pathology of *Echidnophaga*

11.59Maina, A.N., **Waruiru, R.M.**, **Ngatia, T.A.**, **Mbuthia, P.G**. & Munyua, W.K. (2012). Gastrointestinal parasites and other endoparasites of indigenous chickens traded in Nairobi, Kenya

11.60Waruiru, R.M., Nganga, J.C., **Munyua, W.K.**, **Mutune, M.N. & Otieno, R.O**. (2012). Efficacy of copper oxide wire particles for the control of gastrointestinal nematode infections of indigenous goats

11.61Waruiru, R.M., **Munyua, W.K.**, **Otieno, R.O., Mutune**, M.N., Gichohi, V.M. & Gitari, R.N. (2012). Effects of medicated urea-molasses block supplementation on productivity and gastrointestinal nematode infections in sheep in Nyandarua District, Kenya.

11.62Dr. C.G. Gitao and Chepkwony E.C. Foot and Mouth disease Manifestation from a % attle boma+in South Sudan

11.63Dr. C.G. Gitao and Field C, Experiences of camel health management in Botswana.

11.64Dr.C.G.Gitao, Toroitich K.C. and Mbindyo C, *Qairy goat health problems* affecting milk production in Meru, Nyeri and Embu counties" "The possible effects of camel milk on management of diabetes type 1

11.65 Dr. C.G. Gitao, Kihu S and **Maina S.M**, *Experimental infection of PPR in goats in Kenya*

11.66Akweya B, Kamau and **Gitao C.G.** The properties of potential camel lactobacilli cultures for yoghurt producton

11.67Manyibe TN, **Gathumbi PK**, **Ngatia TA**, **Bebora LC**, Muchemi G, **M**istorical perspectives of lesser flamingo mortalities in Kenya+.

11.68Lubembe DM, **Githigia SM**, Chogo P, Athumani HM and Kitaa JM **W** anagement of Bovine Papillomatosis using an Autogenous Vaccine+: A Case Study in Bukura Agricultural College, Western Kenya.



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Prof. Gathumbi P, Kagira J ‰rypanosome Migration to the a Neuroscienc Conference on 18 . 19 June 2012

11.70**P.N. Nyaga** Was the Moderator and facilitator for the Sector Specific Pandemic Preparedness Planning Workshop held on June 4th . 8th, 2012, Nakuru, Kenya (**Appendix 11a**)

11.71P.N. Nyaga, Attended the Kenya National Government Pandemic Disaster Response Planning Workshop held on 16th . 20 April 2012, Reef Hotel Mombasa, Kenya.

11.72**The Department of Veterinary Pathology, Microbiology and Parasitology** hosted a 5 days practical training for Diploma in Animal Health . Ahiti Ndomba.

11.73The Department of Veterinary Pathology, Microbiology and ParasitologyhostedUSAID from the American people, FAO and the University of Georgia for a5 days seminar onBasics of Field and Laboratory Diagnosis Train-the TrainersWorkshop On 23rd April to 27th April.

12 NEW LINKAGES

12.0Prof. P.N.Nyaga, made contacts with Dr. Tabitha Kimani of FAO and her collaborators in Sweden on the possibility of likage with the Swish scientist to use samples that we have collected to study effectiviness of RVF vaccination in targeted areas.

12.1Prof. P.N.Nyaga liaised with Prof. Denis Byarugaba of Makerere university to have his PhD student visit our department in the future to learn procedures on pathogenesis evaluation for Newcastle disease

12.2**Prof. P.N.Nyaga** linkage with KEMRI-CDC/Kenya continues with the PhD student Dr. Peninah Munyua studies on Influenza epidemiology.(Appe ndix 9a)

12.3**P.N. Nyaga** Linkage with KEMRI-CDC/Kenya continues with the PhD student Dr. Peninah Munyua studies on Influenza epidemiology. Will be travelling to Kisumu to visit the field sites July 1-3,

12.4**P.N. Nyaga** Linkage with Dr. Mutinda of Mariakani Veterinary Investigation Laboratory continued regarding her studies with Infectious bursal disease (IBD).

13 VISITORS TO THE DEPARTMENT IN THE DEPARTMENT IN 2011/2012

13.1 Prof. V.O. Taiwo, Prof. B.O. Oke Faculty of Veterinary Medicine, University of Ibadan and Dr.K.O. Sectoan Department of Vet. Physiology, Biochem and Pharmacology on 16/8/2011

13.2 Prof. Patrick T. Rubaihayo, Makerere University, on 30/8/2011



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- 13.4 Dr. Christine Thuranira, Royal Veterinary College, on 11/11/2011
- 13.5 Dr. J.M. Randall VP Academic, University of Prince Edward Island, Canada on 19/01/2012
- 13.6 Dominic Travis of University of Minessota and Dr. Geoffrey Kabagambe of Kampala, 25/1/2012
- 13.7 Dr. Adrei Mihalca, Dragos Birton and Danico Gialuca of Romania on 1/2/2012
- 13.8 Dros. Kasongo Muteba, Ngulu Nsasi and Kasongo aseke of Lubumbashi, DRC. 0n 7/2/2012
- 13.9 Saad Maandi and Naabed Ahmed of Algeria on 14/02/2012
- 13.91 Dr. Sam Okuthe of FAO-ECTAD, E.A. and Edward Okoth of ILRI on 22/02/2012

13.92 Drs. Victor yamo, Ouko E.O, Sanyu Naluwooza, Johanna Lindstoke and Godfrey Kayobyo on 28/02/2012

13.93 Barbora Dervena and Corrie Brown of Athens USA on 25/4/2012

- 13.94 Kaboret Yalace of University of Dakar, Senegal on 27/4/2012.
- 3.95 Eng. Joel Sigei and Anthony Kibuja of Plenser Ltd on 18/06/2012

14 OUTREACH AND COMMUNITY SERVICE

14.1Dr. Njagi L.W. had a research trip to Mbeere district for study lay - out and data collection between 11th and 12th November 2011.

14.2Prof. P.K. Gathumbi is reviewing a Manuscript entitled **%** istopathological changes in the Liver Tissue of *Clarias batrachus* treated with sago effluent+for Baraton University.

14.3Prof. P.K. Gathumbi has been invited to be in the Editorial Board of the journal Biological Research published by Asia Publishers Pakistan.

14.4John and Margret Cooper, who are associates in the Department, hosted a Workshop on Primate Pathology held in IPR, in November 2011.

14.5Prof. L.C. Bebora is member of Livestock Committee, and Chairman of Pigs & Poulty Subcommittee; Agricultural Society of Kenya (ASK).

14.6Prof. L.C. Bebora was nominated Judge for various classes of poultry, for ASK.

14.7Prof. L.C. Bebora and others (including 2 Msc students) went to Mbeere to map out work plan and collect samples for the 2 Msc. students on RUFORUM funding . Drs. Kemboi and Hannah Chege from November, 11th -12th, 2011. In the process, farmers had an opportunity to consult with them on various problems they, were experiencing regarding poultry.



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o Rachuonyo to assess work carried out by a PhD student, I. In the process, farmers had an opportunity to consult with

them on various problems they were experiencing regarding poultry.

14.9Prof. P.N.Nyaga linked with Dr. Mutinda of Mariakani Veterinary Investigation Laboratory continued rearding h er studies with Infectious bursal disease (IBD)

15 LINKAGES ESTABLISHED OR CONTINUED

15.1The University of Nairobi, Faculty of Veterinary Medicine and the University of Agricultural Sciences and Veterinary Medicine, Cluj-Napoca, Romania have signed an MoU for purposes of joint research projects among other collaborative activities. This initiative is as a result the visit to Romania by Prof. P.W.N. Kanyari in the month of September, 2011. At the moment, there is a visiting team of eight(8) from the Romanian University undertaking joint research work in the Northern part of Kenya.

The fore mentioned team have brought with them the following two pieces of equipment:

- A Digital Microscope valued at KES 900,000.00
- A Stereo Microscope valued at KES 600,000.00

15.2Prof. P.N. Nyaga . Invitation to attend the Regional Conference on Building Capacity for invproved food and livelihood Security 20th . 24th September 2010, Entebbe, Uganda.

16.0 OTHERS

- 16.1**P.N. Nyaga** Evaluated papers for Professorial appointment for Sokoine University of Agriculture, member of staff, %Prof. L.J.M Kusiluka. (**Appendix 14a**)
- 16.2**P.N. Nyaga** Serviced a course for the Department of Agricultural Economics (teaching examinations), AIC 608: Statistics and research methods. (**Appendix 14b**)
- 16.3**P.N. Nyaga** assessed MSc thesis by Dr. Victoria N. Mutua entitled, "*Impact Of Formal and Informal Interventions In The Control Of Rift Valley Fever Disease In Thika and Marigat Districts Of Kenya*", completed and ready for submission. (Appendix 14c)
- 16.4P.N. Nyaga Liaised with Prof. Denis Byarugaba of Makerere University and trained his PhD student on Newcastle disease virus pathogenicity indices evaluation(Mean death time-MDT; intra cerebral pathogenicity index- ICPI; intravenous pathogenicity index . IVPI, Hemagglutination and hemagglutination inhibition tests (HA and HA) (Appendix 14d)
- 16.5**Prof. P.K. Gathumbi**, was appointed to serve as a member of Management Committee of the Centre for Sustainable Dryland Ecosystems and Societies and also as a member of the Centrec Research Development Sub-Committee. (Appendix 15a)



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nd awarded with a certificate of attendance during the Faculty 8th Biennial Scientific Conference & 46th Kenya Veterinary 1tific Conference & Exhibition held at the Safari Park Hotel,

Nairobi, from 25" to 27" April 2012). (Appendix 15b)

- 16.7Prof. P.K. Gathumbi, participated as Master of Ceremony in the Tree planting on World environment Day at the College of Agriculture and Veterinary Sciences on 5th June 2012. (Appendix 15c)
- 16.8**Prof. P.N. Maingi,** appointed to assess of the research publications of Dr. S.O. Omotainse for readership position in veterinary pathology in the Department of Veterinary Pathology in Federal University of Agriculture Abeokuta, Nigeria. **(Appendix 16a)**
- 16.9**Prof. P.N. Maingi,** invited by the Ministry of Higher Education, Science and Technology to review papers for the upcoming volume 3 Innovation Journal. **(Appendix 16b)**
- 16.91Dr. R.M Waruiru, participated and awarded with a certificate of attendance during the Faculty of Veterinary Medicine (FVM) 8th Biennial Scientific Conference & 46th Kenya Veterinary Association (KVA) Annual Scientific Conference & Exhibition held at the Safari Park Hotel, Nairobi, from 25th to 27th April 2012). (Appendix 17)
- **16.92Dr. C.G. Gitao**, received an appreciation letter from RUFORUM for the concluded review of the RUFORUM M&E System. (Appendix 18a)
- 16.93**Dr. C.G. Gitao**, attended the EAPP proposal writing workshop in Njoro, KARI 2nd to 4th May. (Appendix 18b)
- 16.94Mary Mutune, Mary M. Njeru and Ephantus M. Nyaga, participated in a one day empowerment workshop on May 11th 2012 at the Clinical Studies seminar hall and awarded with certificates on Transformational Customer Care.
 (Appendix 19)
- 16.95Jackson Gachoka and Charity Gathenya, participated in a one day training on Fire Safety on June 13, 2012 at the Clinical Studies Seminar Room as part of the Universityqs preparedness for any fire disaster that may occur at the workplace.
 (Appendix 20)
- **16.96Prof. P.K. Gathumbi, Jackson Gachoka** and Rose Gitari participated in a two-
management training workshop on Managerial and leadership skills t at the
Studies Seminar Room on June 28 29 2012. (Appendix 21)day
- **16.97Prof. P.K. Gathumbi**, invited as a reviewer for the Journal Avian Pathology.(Appendix22)
- **16.98 Dr. S.M. Githigia, Internal Examiner Obonyo Fredrick Ojiambo 's MSc thesis** Titled Epidemiology and public Health Importance of gastrointestinal helminthes and hemoparasites of pigs in Homabay District, Kenya. **July 201**
- 16.99 Dr. S.M. GithigiaInternal Examiner of Dr Kabaka Waweru MSc Thesis Titled Prevalence and risk factors for Gastrointestinal nematode infection and efficacies of anthelmintics in cattle in Mukurwe-ini and Nakuru Districts July 2011



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caminer of Dr Eric Emali Eshitera's MSc Thesis titled sis in free range pigs and the associated risk factors in Homa

Bay District, Kenya November 2011

16.74Member of board of examiners for the following

- i. Dr Eric Eshitera Emali . Msc Thesis March 2012
- ii. Dr Fredrick Ojiamboos MSc Thesis August 2011
- iii. Dr Waweru Kabakaqs MSc Thesis August 2011

16.75External Examiner – Department of Land Resources, Planning & Management 2010 –

2014 External examiner- Department of Land Resources and Animal Sciences, Department of Food Science and Technology Faculty of Agriculture Jomo Kenyatta University of Agriculture and Technology 2010. 2014

17.0 **TRAVELS**

- 17.1 Dr Mbuthia travelled as an external examiner for Sokoine University of Agriculture . He was veterinary pathology examiner in the Dept of Pathology in the period 31-07-211 to 06-08-2011. I examined Bachelor of Veterinary Medicine students written, practical and oral examinations in General Pathology (2nd Year), Veterinary Pathology II (3rd year); and Veterinary Clinicals a practical/oral examination to 5th year BMM. All travel cost were paid by Sokoine University as follows:
 - a. Air ticket 340 USD
 - b. Hotel costs (Bed and Breakfast) at Arc Hotel
 - c. Local travel in Kenya (to and fro the Airport) . USD 35
 - d. Health Insurance for the period . USD 27
 - e. Daily up keep allowance of Tshs 30,000/day
 - f. Honorarium . Tshs 50000 per day while in Tanzania

(Appendix 11)

6.0 MEMBERSHIP IN COMMITTEES

a) COLLEGE COMMITTEES

1. College Management Board(CMB)	Prof. P.K. Gathumbi, Chairman of the Department
 College Exhibition Committee College Disposal committee 	Dr. J.N. Chege Prof. P.K. Gathumbi

b) FACULTY COMMITTEES



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						COMMITTEE
	1.	Postgraduate	Prof. L.C. Bebo	ra	Vet. Pathology,	Prof. L.C. Bebora
		Studies	Dr. L.C. Njagi			
		Committee				
	2.	Curriculum	Dr. R.M.Waruiru	l	Vet. Pathology	
		Committee			Vet. pathology	
	3.	Timetabling	Dr. P.G. Mbuthi		Vet. Pathology	Dr. P.G. Mbuthia
		Committee	Dr. D.K. Kaguny		Vet. pathology	
	4.	Student	Dr. S.M. Githigi	а	Vet. pathology	
		Attachment &				
		Projects				
		Committee				
	5.	Faculty Biennial	Dr. D.N. Karanj	а	Vet. Pathology	Prof. P.K.
		Scientific	Prof. P.K. Gath	umbi		Gathumbi
		Conference				
	6.	Module II Policy	Dr. M.O. Odong	0	Vet. pathology	
		Guidelines				
		Implementation				
		Committee				
	7.	Veterinary Farm	Prof. P.K. Gath	umbi	Vet. Pathology	
		Management				
		Committee				
	8.	Library Committee	Dr. M.O. Odong		Vet. pathology	
	9	Biosafety	Dr. J.K. Gathum	nbi	Vet. pathology	
		Committee				
	10	Exhibitions	Dr. J.N. Chege		Vet. pathology	Dr. J.N. Chege
		Committee	_			
	11	Grants, research	Prof. P.K. Gath	umbi	Vet. pathology	
		and external				
		liaison committee				

c) OTHER COMMITTEES

Γ	1	Faculty of	Prof. P.K. Gathumbi	Vet. pathology	
		Agriculture			
		environmental			
		committee			

7.0 CONSULTANCIES

14.1 Prof. Bebora L.C. Consultative meeting of women scientists of University of on 14th July 2010, UoN, Council Chamber.



neeting on how to strengthen and improve academic ities, attended by all professors on 6th Sept. 2010, UoN,

- 14.3 **Prof. Bebora L.C**. Judging poultry classes at ASK, Nairobi Internal show, to be held from 27th September to 3rd October 2010, at Jamhuri Park, Nairobi. Also the Poultry and Pigs subcommittee chairman at the show.
- 14.4 Prof. P.N. Nyaga . Meeting on Rift Valley Fever (RVF) with Ministry of Livestock Development.
- 14.5 **Prof. Nyaga** carried out consultancy assignment for the East African Community on the assessment of animal-human health expertise in avian influenza, other zoonoses and transboundary animal diseases in October, 2010.
- 14.6 **Dr. Gitao C.G.** carried out consultancy training on, draught power of camel (training workshop) in Makindu. for KARI . KASAL 10-13th Nov 2010.
- 14.7 **Prof. Nyaga** carried out consultancy assignment for the East African Community on the assessment of animal-human health expertise in avian influenza, other zoonoses and transboundary animal diseases in October, 2010
- 14.8 **Dr. Gitao C.G.** carried out consultancy training on, draught power of camel (training workshop) in Makindu. for KARI . KASAL 10-13th Nov 2010

8.0 OTHER ACTIVITIES

- **15.1 Dr. P.G. Mbuthia –** Was an External Examiner in Veterinary Pathology at SOKOINE UNIVERSITY OF AGRICULTURE, TANZANIA in the period June/July 2010
- **15.2 Dr. P.G. Mbuthia -** served as an External Examiner for five (5) theses for Jomo Kenyatta University of Agriculture and Technology.
- **15.3 Dr. P.G. Mbuthia** served as an External Examiner for one (1) thesis for Makerere University, Uganda.
- **15.4** Dr. P.G. Mbuthia Reviewed two (2) manuscripts for The Kenya Veterinarian journal.
- **15.5** Dr. P.G. Mbuthia Has been given a letter for **£ommendation for Good performance and** Support of the facultyqin my role as the **%**Chairman of the Timetabling Committee+
- 15.6 Dr. P.G. Mbuthia Has been given a letter for **£ommendation for Good performance and Support of the faculty**qas a dedicated member of the **%aculty Curriculum Committee+**.



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15.8 Dr Mbuthia examined the following thesis:

- a) Dr. Stephen Kitonga Mavuti MSc thesis entitled, % revalence, Intensity and Pathology Associated with Parasitic Infections in Ducks in Nairobi and its Environs+a student at University of Nairobi, November 2010.
- b) George Ngondi Michuki Ph.D. thesis entitled, Metagenomic Characterization of vaginal Ecosystem and Association of Bacteriophage, Bifidobacterium and Oenococcus with Bacterial vaginosis in HIV infected Women+a student at Jomo Kenyatta University of Agriculture and Technology, October, 2010.
- c) Afayoa mathias MSc thesis entitled, *wesions and Prevalence of Newcastle Disease in Chicken Presented for Necropsy at faculty of Veterinary Medicine, Makerere University+a student at Makerere University, October 2010.*
- d) Dr. Mbuthia received a certificate of attendance to the 7th Biennial scientific conference 8th to 10th September 2010 (Appendix 28)
- **15.10 Prof. P.K. Gathumbi, Prof P.N. Nyaga, Dr. J.N. Chege and Dr. Lucy Njagi**, participated in arranging for a departmental seminar on forensic science by Prof. J. Cooper and Dr. Margaret Cooper on 24th November 2010.
- **15.11 Professor Gathumbi** participated as a committee member, in activities of the management committee of the veterinary farm in October 2010
- **15.12** Professor Gathumbi participated as a committee member, in activities of the disposal committee of the College of Agriculture and Veterinary Sciences in October 2010
- **15.13 Prof. Nyaga** reviewed a grant application research proposal for the South African National research Council in October 2010
- 15.14 Prof. Nyaga reviewed a manuscript for , African Journal of Microbiology in October 2010

10. NUMBER OF STAFF

TITLE NO



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	Lecturer	7
	Tutorial Fellow	2
	Chief Technologist	1
	Senior Technologists	10
	Secretary	1
	Junior Technologists	8
	Driver	1
	Cleaner	1
	Cleaner	1

16.0	LIST OF MEMBERS	OF ACADEMIC STAFF
------	-----------------	-------------------

NAME	QUALIFICATION	DESIGNATION
1. PROF. P.N. NYAGA	BVM, MPVM, PhD	Professor
2. PROF. W.K. MUNYUA	BVM, MSc., PhD	Professor (on contract)
3. PROF. P.N. KANYARI	BVM, MSc., PhD	Professor
4. PROF. T.A.NGATIA	BVM, MSc., PhD	Associate Professor
5. PROF. B.A. KIMETO	BVM, MSc., PhD	Associate Professor (on contract)
		Associate Professor
6. PROF. L.C. BEBORA	BVM, MSc., PhD	Chairman/Associate Professor
7. PROF. P.K. GATHUMBI	BVM, MSc., PhD	Associate Professor
8. PROF. N. MAINGI		Associate Professor
9. PROF. P.G. MBUTHIA	BVM, MSc., PhD	Senior Lecturer
10. DR. C.G. GITAO	BVM, MSc., PhD	Senior Lecturer
11. DR. J.N. KURIA	BVM, MSc., PhD	Senior Lecturer
12. DR. R.M. WARUIRU	BVM, MSc., PhD	Senior Lecturer
13. DR. S.M. GITHIGIA	BVM, MSc., PhD	Senior Lecturer
14. DR. J.N. CHEGE	BVM, MSc., PhD	Lecturer
15. DR. J.K. GATHUMBI 16.	BVM, MSs., PhD	Lecturer
DR. L.W. NJAGI	BVM, MSc., PhD	Lecturer
17. DR. D.N. KARANJA	BVM, MSc., PhD	Lecturer
18. DR. J.M. AYUYA	BVM, MSc.	Lecturer
19. DR. M.O. ODONGO	BVM, MSc.	Lecturer
20. DR. D.K. KAGUNYA	BVM, MSc.	Lecturer
21. DR. E.S. KILELU	BVM, MSc.	Tutorial Fellow
22. DR. P.O. OKUMU	BVM, MSc	Tutorial Fellow
23. DR. I.R. MULEI	BVM	Chief Technologist
24. EZEKIEL H. WEDA	BVM, MSc.	
	HND	

17.0 LIST OF MEMBERS OF TECHNICAL AND SUPPORT STAFF

NAME	QUALIFICATION	DESIGNATION
1. JULIUS K. KIBE	HND	Senior Technologist
2. ROSE W. GITARI	BSc/HND	Senior Technologist
3. MARY N. MUTUNE	HND	Senior Technologist
4. VIRGINIA M. GICHOHI	HND	Senior Technologist
5. JACKSON M. GACHOKA	HND	Senior Technologist
6. JOHN MUKIRI	HND	Senior Technologist
7. DAVID M. GUCEMA	HND	Senior Technologist
8. ANN K. MUNENE	HND	Senior Technologist
9. CHARITY W. GATHENYA	HND	Senior Technologist
10. REBECCA W. GITHINJI	HND	Senior technologist
11. EDITH A KEYA	HND	Junior Technologist IV
12. EPHANTUS M. NYAGA	HND	Junior Technologist IV
13. GEORGE DIMBU	HND	Junior Technologist IV

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18. MARY W. MURIAKIARA	CPE	Junior Technologist III
19. PATRICK M. WAHOME	KCE	Junior Technologist III
20. SAMUEL INDECHE	KCE.	Junior Technologist III
21.ADIEL K. MURATHI	KCSE	Driver Grade IV
22. GORDON OTIENO	KCSE	Cleaner grade II (Contract)

18.0 **IMAGES**

Chairman Department of Veterinary pathology, Microbiology and Parasitology Prof. P.K. Gathumbi



Figure 1 Medicinal plant tree nurseries at Ngong established under the project on, ±valuation and commercialization of medicinal plantsqextracts for improved livelihoods: a case study of East Coast feverq Funded by World Bank grant through Kenya Agricultural Productivity (KAPP) led by Prof. P.K. Gathumbi, Department of Veterinary Pathology, Microbiology and Parasitology





Click Here to upgrade to Unlimited Pages and Expanded Features n of medicinal plants at CAVS field station established under ommercialization of medicinal plantsqextracts for improved : Coast feverq Funded by World Bank grant through Kenya

Agricultural Productivity (KAPP) lead by **Prof. P.K. Gathumbi,** Department of Veterinary Pathology, Microbiology and Parasitology

Figure 2a



Figure 2b





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UNIVERSITY OF NAIROBI

COLLEGE OF AGRICULTURE AND VETERINARY SCIENCES FACULTY OF VETERINARY MEDICINE

DEPARTMENT OF CLINICAL STUDIES

ANNUAL REPORT

2011/2012



1. Academic staff

List of academic staff and their qualifications

Chairman of Department

Mulei, C.M., B.V.M. (Nairobi), Ph.D (Queensland)

Professor:

Mbithi, P.M.F., B.V.M., M.Sc., (Nairobi), M.VSc, (Saskatchewan), Ph.D., (Nairobi)

Mulei, C.M., B.V.M. (Nairobi), Ph.D (Queensland)

Agumbah, G.J.O., B.V.M., M.Sc (Nairobi) D.P.V.M (Copenhagen) Ph.D. (Glasgow U.K.)

Kiptoon, J.C., B.V.M., M.Sc., Ph.D (Nairobi)

Mutiga, E.R., B.V.M., (Nairobi), M.Sc. (Colorado), Ph.D (Queensland).

Associate Professor:

Kihurani, D.O., B.V.M., M.Sc., Ph.D, (Nairobi)

Mbugua, Susan W., B.V.M. (Nairobi), M.Sc. (California), Ph.D (Nairobi)

Njenga, M.J., B.V.M., M.Sc., Ph.D (Nairobi)

Wabacha, J.K., B.V.M. (Nairobi), M.Sc. (VUB-Brussels.), Ph.D (Nairobi)(On Leave of Absence)

Gitau, G.K., B.V.M. (Nairobi), M.Sc., (Guelph) Ph.D, (Nairobi)

Senior Lecturer:

Mande, J.D., B.V.M., M.Sc., Ph.D (Nairobi)

Mogoa, E.G.M., B.V.M., M.Sc. (Nairobi), Ph.D, (Pretoria)

Tsuma, V.T., B.V.M., (Nairobi), Ph.D, (Uppsala)

Munyua, S.J.M., B.V.M. (Nairobi), M.Phil. (Murdoch), Ph.D, (Nairobi) (On Leave of Absence)

Thaiyah, A.G., B.V.M., M.Sc. (Nairobi) Ph.D (Nairobi)

Gakuya, D.W., B.V.M., (Nairobi), M.Sc., (Edinburgh), Ph.D, (Nairobi)



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oi), Ph.D. (Nairobi)

Lecturer:

Bwanga, C. O., B.V.M. (Nairobi), M.VSc, (Uppsala), FRCVS (Uppsala)

Kitaa, J.M.A., B.V.M., M.Sc. (Nairobi)

Mbai, K., B.V.M., M.Sc. (Nairobi)

Wasike, Nekesa., B.V.M., M.Sc., (Nairobi)

Muthee, J.K., B.V.M., (Nairobi) MSc. (Nairobi)

Clinicians/Tutorial Fellows:

Aleri J.W. B.V.M. (Nairobi), MSc. (Nairobi)

Abuom, T. O., B.V.M., (Nairobi), MSc. (Nairobi)

Gitonga, P.N., B.V.M., (Nairobi), MSc. (Nairobi)

Kipyegon A.N. B.V.M., (Nairobi) MSc. (Nairobi)

Dr. G. Kirui, B.V.M (Nairobi)

Dr. Muraya Joan B.V.M. (Nairobi)

ACADEMIC PROGRAMS IN THE DEPARTMENT OF CLINICAL STUDIES

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 degrees in various fields of specialization. Theriogenology Veterinary Surgery 	BVM IV - 78 Students BVM V - 48 Students	
Veterinary MedicineWildlife Health and Management	POST GRADUATE STUDENTS MVET. Medicine - 2 Mvet. Surgery - 2	
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2. Research



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Enhancing Dairy Goat Productivity in Kenya Using Better Breedir Strategies, Good Husbandry Practices and Stakeholder Capacity Building	Project	10 million Kenya Shillings	Dr. V.T. Tsuma, Dept. of Clinical Studies	Dr. Henry Mutembei, Dept. of Clinical Studies	A joint project between UoN, Kenya Agricultural Research Institute (KARI)-Naivasha and Kenya Animal Genetic center (KAGRC)	2012	2015
One Health East and Central Africa (OHCEA)	USAID- RESPOND	5 million Kenya Shillings	Dr. Andrew G. Thaiyah	Prof. Matuku Mwanthi Dr. Peter Koskei	University of Minessota, Tufts University, Moi University School of Public Health and University of Nairobi, School of Public Health	2011	2015
Clinical Studie Department- Wildlife Societ for protection of Animals(WSP Disaster Management	y Society for Protection of Animals (WSPA)	75 Million Kenya Shillings (5 million/year)	Dr. Henry Mutembei	Prof. Charles Mulei (Project Manager Dr. J.D. Mande Dr. E. Mogoa	University of Nairobi, Ministry of Livestock Development, ANAW, National Disaster Centre, Donkey Sanctuary	2010	2015
A sero- epidemiologic study of Africa Horse Sicknes (AHS) in Donkeys.	n Sanctuary,	Kshs 764,500/-	Prof. D. Kihurani	Dr. M. Gichure, Dr. P. Kitala, Dr. J.D. Mande and Prof. N. Munene.	University of Nairobi	2010	2012

Publications

J.K. Muthee,*, D.W. Gakuya, J.M. Mbaria, P.G. Karer, **C.M. Mulei**, F.K. Njonge: Ethnobotanical study of anthelmintic and other medicinal plants traditionally used in Loitoktok district of Kenya Journal of Ethnopharmacology 135 (2011) 15. 21

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J W Aleri, J Nguhiu-Mwangi, E M Mogoa and C M Mulei: Welfare of dairy cattle in the smallholder (zero-grazing) production systems in Nairobi and its environs: *Livestock Research for Rural Development 24* (9) 2012

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Abuom T.O., Njenga M.J., Wabacha J.K., Tsuma V.T. and Gitau G.K.: Incidence and risk factors of periparturient conditions in smallholder dairy cattle herds in Kikuyu Division of Kiambu District, Kenya Ethiop. Vet. J., 2012, 16(2), 85-102

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A.G Thaiyah, P.N Nyaga, J.M Maribei, T.A Ngatia, J.P.M Kamau and JM Kinyuru: Acute, subchronic and chronic toxicity of *Solanum incanum* L in sheep in Kenya: *The Kenya Veterinarian Vol.* 35 (1) 2011

J.M.Nguta, J.M.Mbaria, **D.W.Gakuya**, P.K.Gathumbi, J.D.Kabasa, S.G.Kiama: Biological Screeig Of Keya Medicial Plats Usig *Artemia Sali_A* L. (Artemiidae). *Pharmacologyonline* 2: 458-478 (2011)

Stanley N. Wambugua, Peter M. Mathiua, **Daniel W. Gakuya**, Titus I. Kanuia, John D. Kabasac, Stephen G. Kiama: Medicinal Plants Used In The Management Of Chronic Joint Pains In Machakos and Makueni Counties, Kenya: *Journal of Ethnopharmacology* 137 (2011) 945–955

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Muthee J K, Mbaria J M, Thaiyah A G, Karanja D N and **Gakuya D W**: Clinical, Haematological, Biochemical and Athological Manifestations Of Sub-Acute Toxicity Of *Nicandra Physaloides* (L) Gaertn In Calves: *Bull. Anim. Hith. Prod. Afr. (2011).* 59 17-24

Joseph Mwanzia Nguta, James Mucunu Mbaria, **Daniel Waweru Gakuya**, Peter Karuri Gathumbi, John David Kabasa, Stephen Gitahi Kiama: Cytotoxicity of antimalarial plant extracts from Kenyan biodiversity to the brine shrimp, Artemia salina L. (Artemiidae): *Drugs and Therapy Studies 2012; 2:e12*]

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logoa: Housing-design as a predisposing factor for injuries der units in periurban areas of Nairobi, Kenya: Livestock 2011

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Castiello M, Innocente S, Wamalwa K, **Munyua S J M**, Matete G and Njue S: Sustainable Livelihood: Potential Role and Quality Assurance of Camel Export Trade in Somalia: International Research Journal of Microbiology (IRJM) (ISSN: 2141-5463) Vol. 2(10) pp. xxx-xxx, November 2011.

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Kipyegon AN, HM Mutembei, VT Tsuma and JA Oduma: Effects of Ripe *Carica Papaya* Seed Powder on Testicular Histology of Boars: Inter J Vet Sci, 2012, 1(1): 1-4.

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Conferences /Workshops attended

- Mosoti Mogoa (2011): Promoting Animal and Human Welfare in Disasters: The Role of Veterinary Professionals. Proceedings of the 45th Annual Scientific Conference of the Kenya Veterinary Association, 27th. 29th April 2011, Kisumu, Kenya.
- J.W. Aleri, J. Nguhiu-Mwangi, E.M. Mogoa and C.M. Mulei (2011): Risk factors associated with body injuries and poor welfare in cattle within smallholder units in peri-urban areas of Nairobi, Kenya. Proceedings of the 45th Annual Scientific conference of the Kenya Veterinary Association, 27th . 29th April 2011, Kisumu Kenya.

Scientific papers presented in Scientific Conferences



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	Prof. Kiptoon, J.C.	B.V.M., M.Sc., Ph.D	Professor
	Prof. Mutiga, E.R.	B.V.M., M.Sc, Ph.D	Professor
	Prof. Wabacha, J.K.	B.V.M., M.Sc., Ph.D	Associate Professor
	Prof Mbugua, Susan W.	B.V.M., M.Sc., Ph.D	Associate Professor
	Prof. Kihurani, D.O.	B.V.M., M.Sc., Ph.D,	Associate Professor
	Prof. Njenga, M.J.	B.V.M., M.Sc., Ph.D	Associate Professor
	Prof. Gitau, G.K.,	B.V.M. , M.Sc., Ph.D,	Associate Professor
	Dr. Mande, J.D.,	B.V.M., M.Sc., Ph.D	Senior Lecturer
	Dr. Mogoa, E.G.M.,	B.V.M., M.Sc. , Ph.D,	Senior Lecturer
	Dr. Tsuma, V.T.,	B.V.M., FRVCS, Ph.D,	Senior Lecturer
	Dr. Munyua, S.J.M.,	B.V.M. , M.Phil., Ph.D,	Senior Lecturer/on leave of absence
	Dr. Varma, V. S.,	B.V.Sc., M.Sc., Ph.D.	Senior Lecturer
	Dr. Bwanga, C. O.,	B.V.M., M.VSc, FRCVS	Lecturer
	Dr. Gakuya, D.W.,	B.V.M., , M.Sc., Ph.D,	Lecturer
	Dr. Kitaa, J.M.A.	B.V.M., M.Sc.	Lecturer
	Dr. Mbai, K.	B.V.M., M.Sc.	Lecturer
	Dr. Molkiugu, H.M.,	B.V.M. M.Sc., Ph.D,	Lecturer
	Dr Mwangi, J.A.N.	B.V.M., M.Sc., Ph.D.	Lecturer
	Dr. Wasike, Nekesa.	B.V.M., M.Sc.,	Lecturer
	Dr. Thaiya, A.G.,	B.V.M., M.Sc., Ph.D	Lecturer
	Dr. Muthee, J.K.,	B.V.M., MSc.	Lecturer
	Dr. Abuom, T. O.,	B.V.M., MSc.	Tutorial Fellow
	Dr. Gitonga, P.N.,	B.V.M., Msc.	Tutorial Fellow
	Dr. Aleri, J.W.	B.V.M, MSc.	Tutorial Fellow
	Dr. Kipyegon A.N.	B.V.M, MSc.	Tutorial Fellow
	Dr. Gilber Kirui	B.V.M.	Tutorial Fellow
	Dr. Joan Muraya	B.V.M.	Tutorial Fellow
	MrM. Gitahi	HND	
	Ms. Caroline M. Huria	Bachelor of Commerce	Chief Technologist Administrative Assistant
	Mr. J.M. Nduhiu	HND	Senior Technologist
	Mr. G.O. Ogola	HND	Radiographer
	Mr. Richard W. Matheka	HND	Radiographer
		HND	
	Mrs. J. N. Onsongo		Senior Technologist
	Ms. J.M. Kamau	HND Dip. In Madical Lab	Senior Technologist
	Mr. P. Gitau	Dip. In Medical Lab.	Dip. In Medical Lab.
	Hildah L. Nakweya	Diploma	Technologist ABC
	Alice W. Kinyua	Diploma	Technologist ABC
	Athumani H. Mwashando	Diploma	Technologist ABC
	Mr. IsaacM. Kiragu	Certificate	Storekeeper - B
	Ms Ruciah W. Ngila	Certificate - Range	Receptionist/Animal Health Technician - B
	Ms Mary N. Mukiri	Certificates	Receptionist - A
	Mr. Jacob O. Tolo	Certificate . Animal Health	Driver Guide/Animal Health Technician - A
	Ms Rachel N. Gitau	Certificates - Secretarial	Assistant Secretary - A
	Ms. Benardine O. Okola	Diploma-Secretarial	Assistant Secretary - A
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	Mr. Gideon M. Karitu		KCE	Animal Attendant - II
	Mr. Benson W. Nyon	gesa	Certificate . Range	Animal Attendant - II
	Mr. Peter M. Mugo		Certificate - Range	Animal Attendant - II
	Mr. Victor M. Njumba	l	KCSE, Certificate - Al	Animal Attendant - II
	Mr. Robale M. Rajab		Certificates	Technical Assistant - II
	Mr. Charles K. Asava	l	KCSE, Certificate- Al	Animal Attendant - I
	Mr. Samuel N. Karan	ja	KCSE	Animal Attendant - I
	Ms Sarah N. Kubue		KCE	Animal Attendant - II
	Mr. John M. Mutua		KCSE	Cleaner II

A. CONFERENCES ATTENDED

B. WORKSHOPS ATTENDED

C: CONSULTANCIES

 Prof. J.N. Ombui and Dr. Eddy G.M. Mogoa. Analysis of Somaliland Livestock and Meat Value Chains (2011). A study commissioned by FAO-Somalia with financial support from DFID-UK (March . April, 2011).





UNIVERSITY OF NAIROBI

COLLEGE OF AGRICULTURE AND VETERINARY SCIENCES FACULTY OF VETERINARY MEDICINE

DEPARTMENT OF VETERINARY ANATOMY AND PHYSIOLOGY

ANNUAL REPORT

2011/2012



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of Vet. Anat. and Physiol. is for inclusion in the above report:

Peer Reviewed Publications

- Hlushchuk, R., Ehrbar, M., Reichmuth, P., Heinimann, N., Styp-Rekowska, B., Escher, R., Baum, O., Lienemann, P., Makanya, A., Keschet, E. and Djonov, V. (2011). Decrease in VEGF expression induces intussusceptive vascular pruning. Arterioscler. Thromb. Vasc. Biol., 31(12):2836-2844.
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- Kavoi, B. and Hassanali, J. (2011). Comparative Morphometry of the Olfactory Bulb, Tract and Stria in the Human, Dog and Goat. Int. J. Morphol., 29(3):939-946.
- 4. **Makanya, A.N.**, El-Darawish, Y., Kavoi, B.M. and Djonov, V. (2011). Spatial and functional relationship between air conduits and blood capillaries in the pulmonary gas exchange tissue of adult and developing chickens. Micr. Res. Tec., 74(2):159-69.
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- Ferdowsian, H.R., Durham D.L., Johnson C.M., Brüne M., Kimwele C., Kranendonk G., Otali E., Akugizibwe T., Mulcahy J.B., Ajarova, L (2012). Signs of generalized anxiety and compulsive disorders in chimpanzees. J. Vet. Behavior: Clinical Applications and Research 7(6)
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Trypanotolerance in Nopama x Boran crosses under natural trypanosome challenge: effect of test-year environment, gender, and breed composition. BMC Genetics 2012, 13:87

Postgraduate programmes

a). Masters programmes

Msc in Anatomy and Cell Biology

- 1. **Kimani J.M**. Dermal wound healing and regeneration in mole rats (Heterocephalus glaber and Tachyoryctes ibeanus) and percivals spiny mouse (Acomys percivalis)
- 2. **Nasimolo J.** . Morphometric evaluation of cellular involvement in neuroinflammation and potential anti-inflammatory properties of *Erythrena abyssinica*.



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Msc in reproductive biology:

4. Sylvia Kerubo Onchaga (2012)

Msc project completed

Michael B. Papah ±The structure of the male reproductive organs in lake magadi tilapia (*Alcolapia grahami*)գ

b). PhD programmes

Doctor of Science in comparative animal physiology:

- 1. **Ochwangi, D.O**.:Pharmacophyiological anticcancer potential of medicinal plants used in Kakamega County, Kenya.
- 2. Nyongesa A. W. : Mechanism of purified cathinone from khat (*Khat edulis*) on reproductive function in male vervet monkey (*Chlorocebus aethiops*)
- 3. **Wambugu S. N**. : Evaluation of painalleviating, anti-inflammatory and anti-rheumatoid properties of selected Kenyan medicinal plants.
- 4. **Kaluwa C.K**. :Evaluation of anti-fertility properties of medicinal plants traditionally used in Tana River county, Kenya.

Doctor of Science in Anatomy:

5. Kisipan M. L. : Heat shock proteins in thermal, salinity and toxicity stress tolerancein fish.

PhD project completed

Kavoi B. Mwanzia : The rabbit olfactory mucosa: Posnatal morphology and the effects of anticancer drugs vinblastine and docetaxel.

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		Dr. Daniel W. Onyango	Senior Lecturer	BVM, MSc, PhD (Nairobi)
		Dr. Deter K. Mwangi	Senior Lecturer	BVM, (Nairobi), DVM (Berne), PhD, (Liverpool)
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	17.	Dr. Allan N. Njogu	Lecturer	BVM, MSc. (Nairobi)
	18.	Dr. Boniface M. Kavoi	Lecturer	BVM, MSc. PhD, (Nairobi)
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		Dr. Stanley N. Wambugu	Tutorial Fellow	BVM, MSc. (Nairobi)
		Dr. John M. Kimani	Tutorial Fellow	BVM, (Nairobi)
		Dr. Johnson Nasimolo	Tutorial Fellow	BVM, (Nairobi)
		Dr. Michael B. Papah	Tutorial Fellow	BVM, MSc. (Nairobi)
	27.	Mr. George K. Kariuki	Chief Technologist	Higher Diploma in Applied Biology (Kenya
				Polytechnic)
	28.	Mr.Jackson Mugweru	Chief Technologist	Bachelor of Philosophy in Technology
				(Biotechnology) (Kenya Polytechnic University
				College)

TECHNICAL STAFF IN GRADE A – F

	MEMBER OF STAFF	GRADE	QUALIFICATIONS
1	Mr. S. W. Kamonde	E-F	Higher Diploma Medical
			Laboratory Technology (Kenya
			Polytechnic)
2	Mr. P. K. Kiguru	E-F	Higher Diploma Medical
			Laboratory Technology (Kenya
			Polytechnic)
3	Dr. C. G. Mukhwaya	D	BVM (Nairobi)
4	Ms. I. Osoro	D	Higher Diploma Biotechnology
			(Kenya Polytechnic)
6	Ms. M. M. Kagina	D	Higher Diploma Applied Biology
			(Kenya Polytechnic)



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e to upgi Pages a	rade to Ind Expanded Features		Bachelor of Philosophy in Technology (Biotechnology) (Kenya Polytechnic University
			College)
8	Mr. A. T. Mwasela	C	Diploma in Computer Studies (KNEC)
9	Mr. R. Tsuma	A-B	Diploma Applied Biology (Kenya Polytechnic)
10	Ms. C. Ngaywa	A	Bachelor of Philosophy in Technology (Biotechnology) (Kenya Polytechnic University College)
11	Mr. J. K. Kiai	A	Diploma Medical Laboratory Technology (Kenya Polytechnic)
12	Mr. F. V. Okumu	A	Diploma Medical Laboratory Technology (Kenya Polytechnic)



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UNIVERSITY OF NAIROBI

COLLEGE OF AGRICULTURE AND VETERINARY SCIENCES FACULTY OF VETERINARY MEDICINE

DEPARTMENT OF ANIMAL PRODUCTION

ANNUAL REPORT

2011/2012



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s one of the oldest departments of the University of Nairobi. Located at opper Nabele Campus, Faculty of Veterinary Medicine, the department is also a full member of the Faculty of Agriculture. Since its inception, the department has participated in the production of several veterinarians, agriculture graduates, food technologists, range managers, agricultural engineers in addition to several Masters of Science in Animal Nutrition, Animal Genetics and Breeding and Management of Livestock production systems as well as many Ph.D.s in specific aspects of Animal science Academic Programmes. The department offers courses in animal production to undergraduates of the faculties of Agriculture and Veterinary Medicine.

List of Academic Programme:

Certificate Programmes

- 1) Poultry Management
- 2) Dairy Management

Postgraduate Programmes

- 1) M.Sc. Livestock Production Systems
- 2) M.Sc. Animal Nutrition and Feed Science
- 3) M.Sc. Animal Genetics & Breeding
- 4) M.Sc. Poultry Science

Number of New students admitted into each academic programme:

Animal Science Major 3^{rd} Year (2011/2012) = 9 students Animal Science Major 4^{th} Year (2011/2012) = 2 students M.Sc. Animal Nutrition and Feed Science (2011/2012) = 3 students M.Sc. Animal Genetics & Breeding (2011/2012) = 3 students PhD Animal Nutrition and Feed Science (2011/2012) = 1

Number of students who graduated from each programme

Animal Science Major 4^{th} Year (2011/2012) = 6 students

PhD Animal Genetics & Breeding = 1 student

External Examiners appointed in 2011/2012 Academic Year:

- (1) Prof. B.O. Bebe, Dept. of Animal Science, Egerton University.
- (2) Prof. George W. Oduho Oliech, Dept. of Animal Science, Chepkoilel University College.
- (3) Prof. Alexander K. Kahi, Dept. of Animal Science, Egerton University

Research Activities:

Dr. Joyce Maina

Research Activities:

1. Promoting a sustainable aquaculture sector using a value chain approach: Funded by National Council of science and Technology . 7 million



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at Mwea Irrigation Scheme in Kenya .validation of models .Kariuki of Kenyatta University as the Principal Investigator .

Dr. J.O. Jung'a Research Activities

Antibiotic resistant Escherichia coli feacal samples of captive baboons not normally exposed to antibiotic. Dominic K. Mureithi, Junga J.OI, Mitema E.S.; Mapenay L.M., and Ozwara H.S.

Submitted to Journal of Microbial Resistance.

Prof. Mitaru's Funded Projects:

Sustainable Intensification of Sorghum . Legume System to Improve Livelihood and Adaptation to Climate Change in Semi Arid Areas.

Period: October 1, 2011 to December 31, 12 2012.

Funding by ASARECA . USD 153,935.00, Sub-Grant Agreement No. ASARECA/SC/011/01.

Pearl Millet Innovations for improved livelihoods in drought prone areas of East and Central Africa Sustainable Intensification of Sorghum.- Legume System to Improve Livelihood and Adaptation to Climate Change in Semi Arid Areas.

Period: September 1, 2011 to December 31, 2013.

Funding by ASARECA . USD 90,000.

BY Joel W. Ochieng, PhD, Department of Animal Production, CAVS

1. RESEARCH GRANTS: AWARDS AND NEW APPLICATIONS

DATE	AMOUNT (USD)	AGENCY/DONOR	COLLABORATOR	STATUS	PROJECT
October 2011	4.0 M (40 M KES)	WELLCOME TRUST	ECSAAG (Africa Multi-institutional grant under UoN DVC-RPE)	First round review successful	Population genetics for improved health Mgmt
November 2011	12000 (1M KES)	NCST	Sole applicant for Innovation award	Awarded Letter attached	Tilapia genetics at Lake Baringo,
November 2011	1,200,000 (120 M KES) 18 M to UoN	NSF	University of Melbourne (Australia) Aururn University (US), University of Zagreb (Croatia)	Application under review	Mitochondrial Genetics and Enhanced Metabolic Traits in Swine
November 2011	100,000 (10 M KES)	Bill & Melinda Gates Foundation	Sole applicant	Application under review	LAMP Technique for diagnosis in animal health
December 2011	1,250,000 (125 M KES)	NIH	Baylor College of Medicine, Columbia Medical School	Application under review	Population genomics for improved health Mgmt

Dr. J.O. Jung'a



valley depauperately fragmented roan antelope populations.

DNA Based Interbreeding Resource Databases for Goats in Concerned in C

Publications by members of the Department of Animal Production

Socio-economic characteristics and perceptions of cattle keeper and constraints of cattle production in Western Kenya.

J.O. Amimo, S. Thumbi, B.O. Inyangala, J.O. Junga and R.O. Mosi

Livestock Research for Rural Development 23 (6) 2011.

J.O. Amimo, S. Thumbi, **B.O. Inyangala**, J.O. Junga and R.O. Mosi. Socio-economic characteristics and perceptions of cattle keepers and constraints to cattle production in Western Kenya. Livestock Research for Rural Development. 23 (6) 2011.

J. Oluka¹, E. Ssewannyanna¹ and A. Nakiganda¹ Amimo JO², S. Thumbi³, B.O Inyangala², J.O Junga² and R.O Mosi² ¹National Livestock Resources Research Institute (NaLIRRI), P. O. Box 96, Tororo, Uganda² Department of Animal Production University of Nairobi International Livestock Research Institute (ILRI). Socio-economic characteristics and perceptions of cattle keepers and constraints to cattle production in Central Uganda and Western Kenya. Asareca Publication. 2011

Socio-economic characteristics and perceptions of cattle keepers and constraints to cattle production in Western Kenya.

J.O. Amimo, S.M. Thumbi, B.O. Inyangala, J.O. Junga and R.O. Mosi.

Journal: Livestock Research for Rural Development (LRRD) 23(6) 2011

Muia J M K, Kariuki J N, Mbugua P N, **Gachuiri C K**, Lukibisi L B, Ayako W O and Ngunjiri W V 2011: Smallholder dairy production in high altitude Nyandarua milk-shed in Kenya: Status, challenges and opportunities. Livestock Research for Rural Development. *Volume 23, Article #108.* http://www.lrrd.org/lrrd23/5/muia23108.htm

Katiku P N, **Gachuiri C K** and Mbugua P N 2011 Characterization of dairy cattle farming in Mbeere District of Eastern Kenya. Livestock Research for Rural Development. Volume 23, Article #236. http://www.lrrd.org/lrrd23/11/kati23236.htm

M.I. Lengarite, P.N. Mbugua², **C.K. Gachuiri** and L.W. Kabuage. 2011. Mineral Status of Sheep and Goats Grazing in the Arid Rangelands of Northern Kenya. Paper accepted. Pakistan Journal of Nutrition.

Antibiotic resistant Escherichia coli feacal samples of captive baboons not normally exposed to antibiotic.Dominic K. Mureithi, **Jung'a J.O**, Mitema E.S.; Mapenay L.M., and Ozwara H.S.

Climate variability and dry season ruminant livestock feeding strategies in South Eastern Kenya Aphasard J.N. Ndathi, Moses M. Nyangito, Nashon K.R. Musimba and **Barnabas N. Mitaru**.

Livestock Research for Rural Development 23(9) 2011.

Published 1, September 2011.



Click Here to upgrade to Unlimited Pages and Expanded Features Krastanova, Safira Sutton, **Joel W. Ochieng**, Stephen Leong, ne expression at chalcone synthase (CHS) enzyme suggests skin and synchronized red cell cultures of North American

native grape berries. DNA and Cell Biology, In press (DOI: 10.1089/dna.2011.1589)

Anthony Ananga, Ernst Cebert, **Joel W. Ochieng**, Suresh Kumar, Devaiah Kambiranda, Hemanth Vasanthaiah, Violetka Tsolova, Zachary Senwo, Koffi Konan and Felicia N. Anike (**2011**). *Prospects for Transgenic and Molecular Breeding for Cold Tolerance in Canola (Brassica napus)* **Biotechnology** (3) Ed. Agbo, E.C. Intech, **ISBN 979-953-307-671-3**. In press

Ochieng, Joel W. (2011) *Gene mapping in plant species complexes*. In: <u>Biotechnology</u> (2) Ed. Agbo, E.C. Intech, ISBN 979-953-307-671-2. In press

Ouma C, Roca AL, Were T, Raballah EO, Oguge NO, Jura WZO, **Ochieng JW**, Hanotte O, Georgiadis N (**2011**) *Genetic structure of hartebeest populations Straddling a transition zone between Morphotypes*. **J. Basic & Appled Science Research**, 1(3) 131-149.

WORKSHOP/CONFERENCES/SYMPOSSIUM ATTENDED BY MEMBERS OF DEPT. OF ANIMAL PRODUCTION:

PROF. P.N. MBUGUA

Attended KARI Seminar on Arid lands.

- 1. Presented paper on mineral nutrition in Northern rangelands of Kenya.
- 2. Faculty Biennial conference (28th September, 2011) presented 3 papers:
 - (a) Climate change on animal production in Kenya. review.
 - (b) Role of poultry in smallholder livelihood.
 - (c) Mineral Nutrition in sheep and goats.
- 3. Assessment of climate in Kajiado District.

DR. L.W. KABUAGE

Papers presented at aGRO 2011 Biennial Conference . 28th September, 2011.

- 1. Evaluation of smallholder poultry production and its contribution to household income and nutrition in Kiambu West District, Kenya.
- 2. Effects of substituting maize with rice milling by products in commercial layer chicken diets by Njuguna, W; Kabuage, L.W. and Maina, J.G.
- 3. Mineral status of sheep and goats grazing in the rangelands of Northern Kenya.

Workshops attended:

- 1. Kenya Agricultural Productivity and Agribusiness Project (KAPAP).
- 2. KAPAP CGS Collaborative Research Projects Launch workshop, 24th . 26th August 2011 at KARI Headquarters.

B.O. INYANGALA

ASARECA end of the year project meeting in Kigali, Rwanda 21-25th March 2011.



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Prof. Gachuiri attended:

Conference attended: aGRO 2011 . Inaugural Biennial Conference: September 26-28, 2011.

Prof. C.K. Gachuiri

1. (a) Papers presented: Mineral status of sheep and goats grazing in the rangelands of Northern Kenya. Longarite M.I.^a, P.M. Mbugua^b, C.K. Gachuiri^b, and L.W. Kabuage^b

(b) Response of sweet potato dual purpose varieties to harvesting regime.

Manoa Lonita¹, Charles Gachuiri¹, Ben Lukuyu², Jane Wamatu¹, Sammy Agili³, Joyce Maina¹

WORKSHOPS HELD BY PROF. R.G. WAHOME

Dates	Activity	Presentation
6-9 July 2011	Deriving higher value from donor funds. Enhancing efficiency in research grants management workshop	
13-15 July 2011	Training in supervision workshop	1Introduction to PREPARE PhD Project2.Negotiating student/contracts3.Developing PhD study plan4.Judging quality of theses
8-10 August 2011	Proposal writing workshop	Introduction to proposal writing Research problems analysis and statement Developing research questions Converting questions to hypotheses Defining and refining research objectives Explaining the theoretical and conceptual frame work; milestones, expected results amount. Work plan and PhD plan Explaining the key budget items (budget notes). Writing project summary Follow-up on proposal writing; concluding EAAPP proposals applications
11-13 August	Computer and statistics applications in	1.Introduction to data analysis and
2011	research workshop	presentation. 2.Concluding the workshop and way forward.
27 ⁻ 29 September 2011	aGRO 2011-Biennial Scientific conference, Faculty of Agriculture	1.Addressing factors that affect efficiency of training at PhD level: a study on achievements of initiatives targeting PhD level training.



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Here to upgrade to ited Pages and Expand	led Features	 Nutritional evaluation of the suitability of proposals pods for livestock feed in Kenya. Assessment of the effect of feeding
		proposes pod flour based rations to layer chickens on laying and egg quality.
	Workshop to develop a PhD Programme for Wangari Maathai Institute for Peace and Environmental Studies	Facilitator

Activity Date and Title		Mode of participation	
Conferences and workshops	Development of MSc. Programmes for WMI. Workshop held at the GBM Centre, Karen, Nairobi 2 nd -3 rd December,2011.	Resource person	
	Regional Dissemination Workshop held on 28- 30 November, 2011 at the Olasit Gardens, Arusha, Tanzania.	Workshop organizer and presenter of three presentations.	
	The Agricultural Alternative for Africa, Conference held at the UNEP Headquarters, Gigiri, Nairobi, Kenya on 15-16 November 2011.	ProGrov team leader and participant	
	Joint Stakeholders Confeence of the ACP-EU Edulink and Science and Technology programmes October 26-28, 2011, held at the ACP House, Brussels, Belgium.	Invited paper on ‰mproving efficiency of PhD training in the East African Region.	
Grants Application	DRYLAND MILK PRODUCTION: GENERATING IFNORMATION AND BUILDING CAPACITY FOR ANCHORING CAMELS IN THE MILK VALUE CHAINS IN KENYA (proCaMilk). Project proposal presented to the EAAP Secretariat.	Principal Investigator	
	Potential for producing green energy using water Hycinth. Proposal presented to the Danish FFU, December 14, 2011	Collaborator	

PROF. M.S. BADAMANA ATTENDED:

Regional Dissemination Workshop held on 28-30 November, 2011 at the Olasit Gardens, Arusha, Tanzania.



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proaches that promote the development of sustainable

аупсинитат value спатть.

Maina, J.G., Ambuko, J.L., Lopokoiyit M. and Cheminingqva G.N. (2011) Proceedings of aGRO-2011 conference, Faculty of Agriculture, University of Nairobi (26-28th September 2011).

- A paradigm shift in curriculum development processes in public universities . towards a responsive and participatory multi-stakeholder approach.. Ambuko, J., Maina, J.G., Cheminingqva, G.N., and Lopokoiyit M., (1011). Proceedings of aGRO-2011 Biennial Conference, Faculty of Agriculture, University of Nairobi, Kenya (26th -28th September, 2011).
- Strengthening capacity of local universities to promote and teach rural innovation processes. Cheminingqva, G.N., Ambuko, J., Maina, J.G., Muiru, M.W. and Magomere, T. (2011). Proceedings of aGRO-2011 Biennial Conference, Faculty of Agriculture, University of Nairobi, Kenya (26th -28th September, 2011).
- Application of enzyme technology to improve the nutritive value of high-fibre feedstuffs for nonruminants.
 Waititu, S.M., Nyachoti, Maina, J.G., Slominski, B.A. and Ochada, J.O. (2011).
 Proceedings of aGRO-2011 Biennial Conference, Faculty of Agriculture, University of Nairobi, Kenya (26th -28th September, 2011).
- Effects of substituting maize with rice-milling by-products in commercial layer chickens. Njuguna, K., Kabuage, L.W., and Maina, J.G. (2011). Proceedings of aGRO-2011 Biennial Conference, Faculty of Agriculture, University of Nairobi, Kenya (26th -28th September, 2011).
- Effects of enzymes and probiotics on growth performance and gastro-intestinal morphology in broiler chicken.
 Karimi, H.N., Wahome, R., Maina, J, and Kuria P. (2011).
 Proceedings of aGRO-2011 Biennial Conference, Faculty of Agriculture, University of Nairobi, Kenya (26th -28th September, 2011).
- Response of sweetpotato dual purpose varieties to harvesting regimes. Manoa, L., Gachuiri, C. Lukuyu, B., Wamatu, J., Agili, S. and Maina, J.G. Proceedings of aGRO-2011 Biennial Conference, Faculty of Agriculture, University of Nairobi, Kenya (26th -28th September, 2011).

Outreach and Community Services:

- 1. P.N. Mbugua and C.K. Gachuiri . Outreach Programme in Makuyu
- 2. Prof. Gachuiri Outreach: Training of dairy farmers group in Punda Milia Location of Makuyu Division, Maragwa District. 30th September 2011.
- Guest of honor at Forest view academy on the occasion of meeting parents and students of Form 3 on 17th November, 2011.

Doctor of Philosophy thesis published:



t Milk Production by Optimizing Mate Allocation Strategies in Dany - opulations in Kenya by David Macharia Njubi

Exhibitions the department participated in:

(1) The ACK Nairobi International Trade Fare 2011

Awards the Department won:

Prizes won at NITF (Nairobi International Trade Fare)

- 1. Received two trophies:
- Pirrie cup
- Kenya Poultry Development Company Ltd.
- 2. Received a participation certificate in Nairobi International Trade Fare Year 2012.
- Rabbits Prizes
 4 prizes won (3 frist prizes and 1 second prize)

1st Prize:

- Adult Buck New Zealand White
- Champion Buck
- Best Doe and Litter less than 8 weeks
- Adult Doe Newzealand

2nd Prize

- Buck and Doe 5 months
- 4. Poultry & Egg won:
- 6 matched Normal Hen Eggs Brown

List of Members Staff members

Name	Qualifications	Title
Prof. M.S. Badamana	BVM, M.Sc., PhD	Associate Professor
Prof. B.N. Mitaru	B.Sc. M.Sc., PhD	Professor
Prof. P.N. Mbugua	B.Sc. M.Sc., PhD	Associate Professor
Prof. M.M. Wanyoike	B.Sc. M.Sc., PhD	Associate Professor
Prof. R.G. Wahome	BVM, M.Sc., PhD	Associate Professor
Prof. C.K. Gachuiri	BVM, M.Sc., PhD	Associate Professor
Dr. Okeyo Mwai	B.Sc. M.Sc., PhD	Senior Lecturer
Dr. J.O. Jungqa	B.Sc. M.Sc., PhD	Senior Lecturer
Dr. J.W. Ochieng	B.Sc. M.Sc., PhD	Lecturer
Dr. J. G. Maina	B.Sc. M.Sc., PhD	Lecturer
Mr. B. O. Inyangala	B.Sc. M.Sc.	Lecturer
Dr. J.O.Amimo	BVM, MSc	Tutorial Fellow
Anne Njuguna	Dip, HND, DBM, BBM, MBA	Chief Technologist
Sebastian A. Itenya	SLT, B.Sc.	Senior Technologist DEF
John M. Kanyi	Dip, HND	Senior Technologist DEF
Anne Kimende	Dip, HND	Senior Technologist DEF
Elizabeth Wainaina	Diploma	Computer Technologist ABC
Catherine T. Muhandick	Certificate	Secretary Grade B



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	Mercy Niiri	Certifi	cate	Assistant Technologist Grade III
	Wilson M. Mwaura	Certifi	cate	Assistant Technologist Grade III
	Charles K. Ndungu	KCE		Lab. Assistant Grade II
	Eric J.O. Odhiambo	KCSE		Lab. Assistant Grade I