

CURRICULUM VITAE

PERSONAL INFORMATION

Name : HARRISON GATHENGA KIBOGO
Address : ICIPE/MBBD, P. O. Box 30772-00100, Nairobi
Telephone(s) : +254722586823 / +254731472266
E-mail : kibogoh@gmail.com & hkibogo@icipe.org
Nationality : Kenyan
Date of birth : 6th February 1972
Employment : Lecturer

RESEARCH INTERESTS

Research : Research in Molecular Genetics. Use of molecular tools in understanding every aspect of life; diseases, diversity and conservation
Teaching : Lecturer in Biochemistry, Biotechnology, Genetics, Forensic Science, Medical Biochemistry

CURRENT POSITION

Tutorial Fellow : Kenyatta University from January 2015
Arppis PhD scholar : Jomo Kenyatta University of Agriculture & Technology (JKUAT)

PUBLICATIONS

1. Koudande, O D, Dossou-Gbete, G, Mujibi, F, **Kibogo, H**, Mburu, D, Mensah, G A, Hanotte, O, Van Arendonk, J A M, **2009**. Genetic diversity and zebu genes introgression in cattle population along the coastal region of the Bight of Benin. **Animal Genetic Resources Information (AGRI)**, 44: 45-56
 2. Deo B. Ndumu, Roswitha Baumung, Olivier Hanotte, Maria Wurzinger, Mwai A. Okeyo, Han Jianlin, **Harrison Kibogo** and Johann Sölkner, **2008**. Genetic and morphological characterisation of the Ankole Longhorn cattle in the African Great Lakes region. **Genetic Selection Evolution**, **40**: 467-490
 3. Norman B. Barr, Robert S. Copeland, Marc De Meyer, Daniel Masiga, **Harrison Kibogo**, Ellie Osir, Robert Wharton and Bruce McPheron, **2006**. Molecular diagnostics of economically important fruit fly species (Diptera: Tephritidae) in Africa using PCR and RFLP analyses. **Bulletin of entomological research, ISSN 0007-4853; vol. 96, no5, pp. 505-521**
Proceedings
 4. Koudande, O.D., Dossou-Gbete, G., Fidalis, M., **Kibogo, H.**, Mburu, D., Mensah, G.A., Hanotte, O. and Van Arendonk, J.A.M., **2005**. Cattle genetic diversity assessment in the coastal region of the Bight of Benin. *In: Proceedings of the 4th All Africa Conference on animal Agriculture and 31st Annual Meeting of the Tanzania Society for Animal Production held in Arusha, Tanzania.* pp. 93
In preparation
 5. **Harrison Kibogo**, Anne Muigai, Joseph Ng'ang'a, Daniel Masiga and Suresh Raina. Inferences on the population structure and hybridization effects of honey bee, *Apis mellifera* in East Africa
 6. **Harrison Kibogo**, Joseph Ng'ang'a, Anne Muigai, Daniel Masiga and Suresh Raina. Genetic and behavioral characterization of the Kenya honey bee, *Apis mellifera* races using *sting* and *pln* QTLs
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WORK EXPERIENCE

Dates	May 2013 – December 2014
Occupation	Part time Lecturer
Responsibilities	Kenyatta University: Units: Biostatistics and Research Methodology (SBC308) (3 rd yr students), Introduction to Bioinformatics (SBC354); Protein metabolism (HMB106) (1 st year Pharmacy students) (1 st year Medicine students); Units: (1) Population & Evolutionary genetics II (SBC443), 4 th yr BSc (Forensic Science) students & Population & Evolutionary genetics I (SBC342), 3rd yr BSc (Forensic Science) Technical University of Kenya: Units: Biochemical Pathology II (Dip students); Forensic science & Technology (SHBQ3223) (3 rd year BSc Medical Laboratory Science & Technology students); DNA and Serology Forensics (SSAI4103) (4 th year Btech in Biotechnology students); Basic Biochemistry (SHCE1217) (1 st year Diploma in Public and Community Health students)
Employer	Kenyatta University , Department of Biochemistry and Biotechnology, P.O. Box 43844 – 00100, Nairobi Technical University of Kenya , Biochemistry and Biotechnology Department, P.O. Box 52428 – 00200, City Square – 00200, Nairobi
Type of sector	Academic Institution
Dates	Sept 2012 – April 2013
Occupation	Part time Lecturer
Responsibilities	Kenyatta University: Units: (1) Population & Evolutionary genetics II (SBC443), 4 th yr BSc (Forensic Science) students & (SBC421) 4 th yr BSc Biotechnology students (2) Population Genetic Models in Forensic Science (SBC454) 4 th yr BSc (Forensic Science) (3) Population & Evolutionary genetics I (SBC342), 3rd yr BSc (Forensic Science) (4) Applied Forensic Statistics (SBC452), 4 th yr BSc (Forensic Science)
Employer	Kenyatta University , Department of Biochemistry and Biotechnology, P.O. Box 43844 – 00100, Nairobi
Type of sector	Academic Institution
Dates	January – August 2012
Occupation	Part time Lecturer
Responsibilities	Kenyatta University: Units: (1) Biochemical Pathology B (SSAK 2218), 4 th yr BPhil (Technology) students (2) Serology and DNA Forensics (SSAM 1214) 4 th yr BPhil (Biochemistry) students (3) Enzymology (SSAI 3102) 4 th yr BPhil Technology students
Employer	Technical University of Kenya , Biochemistry and Biotechnology Department, P.O. Box 52428 – 00200, City Square – 00200, Nairobi
Type of sector	Academic Institution
Dates	January 2010 – May 2011
Occupation	Part time Lecturer

Responsibilities	Egerton University; Semester I Unit: Physical Biochemistry (BIOC207), 2 nd yr Biochemistry; Semester II Units: 1. Biotechnology II (BIOC414), 4 th yr Biochemistry class students; 2. Biomedical Instrumentation (BMED449), 4 th yr Biomedical science students, Units: 1. Biochemical Techniques II (BMED318), 3 rd yr Biomedical science students; Semester II 2. Structural Biochemistry (BIOC111), 1 st yr Medical Science students; Semester II
Employer	Egerton University, Department of Biochemistry & Molecular Biology, P. O. Box 536 – 20115, Egerton, Njoro , Nakuru
Type of sector	Academic Institution

WORK EXPERIENCE

Dates	2007 – 2014
Occupation	Arppis PhD scholar ICIPE & Registered JKUAT PhD scholar
Responsibilities	Molecular characterization of honeybee races from East Africa Preliminary reviewer, ICIPE Journal for Insect Science Jomo Kenyatta University of Agriculture & Technology (JKUAT), Institute of Biotechnology Research (IBR), P.O. Box 62000 – 00200, Nairobi & <i>icipe</i> -African Insect Science for Food and Health, P.O. Box 30772, 00100, GPO, NAIROBI, KENYA
Employer	
Type of sector	Academic & Research Institutions

Dates	May 2004 – December 2006
Occupation	Research Technician – Animal Genetic Resources (AnGR) Project
Responsibilities	<ul style="list-style-type: none"> • Assisting visiting scientists, postdoctoral research associates, visitors, graduate and undergraduate students with their research and orientation • Producing, genotyping & sequencing data for the molecular characterization component of the AnGR project • Training visiting scientists and students in the basic molecular biology techniques for molecular characterization (DNA extraction, gene amplification by PCR and purification, data scoring and checking using softwares, automated sequencing and genotyping, among others) • Producing and implementing standard laboratory protocols • Monitoring and maintaining a record on the use of laboratory consumables used by the molecular characterization group and ordering them as required to keep the genetic diversity laboratory operating at its maximum efficiency • Updating, maintaining & coordinating a database of livestock samples (DNA, Blood, Tissues) • Processing loads of DNA samples when requested • Assisting the principal investigators with personal research activities • Experimenting with new techniques, products, and technologies as they become available • Ensuring laboratory safety and providing first aid to injured victims.
Employer	International Livestock Research Institute (ILRI), AnGR, P.O. Box 30709 – 00100, Nairobi, Kenya
Type of sector	Research Institution

WORK EXPERIENCE

Dates	May 1999 – December 2000
Occupation	Laboratory & Technical Assistant
Responsibilities	<ul style="list-style-type: none"> • Isolation of entomopathogenic fungi; <i>Metarrhizium anisopliae</i> and <i>Beauveria bassiana</i> fungi and • Performing ticks bioassay experiments using fungi, nematodes and plant extracts • Rearing of local and Israel of <i>Heterorhabditis</i> and <i>Steinernematids</i> nematodes isolates using <i>Galleria mellonella</i> (wax moth) • Extraction of plant extracts from <i>Melinis minutiflora</i>, <i>Ocimum suave</i> and <i>Ocimum kilimandsharicum</i> • Ticks (<i>Rhipicephalus appendiculatus</i>, <i>Ambryomma variegatum</i>, <i>Ambryomma gemma</i>, <i>Boophilus decoloratus</i>, <i>Rhipicephalus pulchelus</i>, <i>Rhipicephalus evertsi evertsi</i>) handling, identification and rearing on goats, rabbits and cattle, • Maintaining laboratory safety and cleanliness • Fire fighting and first aid skills
Employer	<i>icipe</i> -African Insect Science for Food and Health, P.O. Box 30772, 00100, GPO, Nairobi, Kenya
Type of sector	Research Institution

Dates	April 1998 – April 1999
Occupation	Teacher
Responsibilities	<p>Subjects taught: Mathematics, Biology, Physics, Chemistry and Christian Religious Education (C.R.E)</p> <p>Preparation of lesson plans & teaching schemes, Maintenance of student discipline, Guidance & Counseling, Games tutor</p>
Employer	R.G.S Secondary School, P.O. Box 31874, 00100, Nairobi, Kenya
Type of sector	Academic institution

ACADEMIC EDUCATION

Dates	2007-2013
Qualification expected	Ongoing PhD in Biotechnology
Thesis title	Molecular characterization of Honeybees, <i>Apis mellifera</i> in east Africa
Institution	Jomo Kenyatta University of Agriculture and Technology (JKUAT) and <i>icipe</i> -African Insect Science for Food and Health
Dates	2001-2005
Qualification awarded	Master of Science in Biochemistry
Thesis title	Identification of fruit fly species in the genera <i>Ceratitis</i> and <i>Trirhithrum</i> (Diptera: Tephritidae) using molecular markers
Institution	Jomo Kenyatta University of Agriculture and Technology (JKUAT) and <i>icipe</i> -African Insect Science for Food and Health
Dates	1992-1998
Qualification awarded	Bachelor of Science General, Upper Second Class Honours
Principal subjects	Biochemistry, Chemistry, Mathematics and Physics
Institution	Egerton University, Njoro Campus, Nakuru, Kenya

ACADEMIC EDUCATION	
Dates	1988-1991
Qualification awarded	KCSE certificate (Grade B– (minus))
Principal subjects	Mathematics, English, Kiswahili, Physics, Chemistry, Biology, Accounting, Geography, History, Christian Religious Education
Institution	Nairobi High School
Dates	1979-1987
Qualification awarded	KCPE certificate (461 marks out 600; Mean Grade A)
Principal subjects	Mathematics, English, Kiswahili, ACHM (Art, Craft, Home Science & Music), Science & Agriculture, GHCR (Geography, History, CRE)
Institution	Kiairathe Primary School, Kangema, Murang'a County
SEMINARS AND TRAINING	
Dates	January, 2008 and Refresher course on 10 th –18 th May 2011
Qualification awarded	Certificate
Topic covered	Introduction to R Statistics & R statistics and statistical genetic analysis
Venue	<i>icipe</i> -African Insect Science for Food and Health, Duduvillè, Nairobi
Dates	28 th –29 th August, 2008
Qualification awarded	Certificate
Topic covered	Basic Molecular Phylogeny
Venue	International Livestock Research Institute (ILRI), Nairobi, Kenya
Dates	23-25 th October, 2007, The Open Door Workshop
Qualification awarded	Certificate
Topic covered	Working with the Human Genome Sequence
Venue	Kemri/Wellcome-Trust Research programme, Kilifi, Kenya
Dates	November 2005
Qualification awarded	Certificate
Topic covered	Introduction to Bioinformatics
Venue	International Livestock Research Institute (ILRI), Nairobi, Kenya
Dates	Sept 2004 Biochemical Society of Kenya (BSK) Workshop
Qualification awarded	Certificate
Topic covered	Elementary Bioinformatics Training
Venue	Egerton University, Njoro, Nakuru, Kenya
Dates	24-25 Sept. 2002: Biochemical Society of Kenya (BSK) and BiONET-Africa Training Workshop
Qualification awarded	Certificate
Topic covered	Bioinformatics / Computational Biology
Venue	University of Nairobi
CONFERENCES ATTENDED	
Dates	Monday 10th to Wednesday 19th October 2011
Theme	Bee Health and Pollination Services for Food Security in Africa
Presentation topic	Inferences on the population structure and the hybridization effects of the honeybee, <i>Apis mellifera</i> in east Africa
Venue	<i>icipe</i> -African Insect Science for Food and Health, Duduville, Nairobi
Dates	20 th –24 th Sept, 2005 4 th All Africa Conference on Animal Agriculture
Theme	Role of Biotechnology in Animal Agriculture
Poster presentation	Cattle genetic diversity assessment in the coastal region of the Bight of Benin
Venue	Arusha International Conference Centre (AICC), Arusha, Tanzania

CONFERENCES ATTENDED			
Dates	March 21–24, 2005 3 rd Annual Africa Genome Conference		
Theme	A TIME TO HEAL: Cracking Africa’s Killer Diseases		
Venue	Windsor Hotel & Country Club, Nairobi, Kenya		
Dates	June 9 th –14 th 2003, 15 th conference on The African Association of Insect Scientists (AAIS)		
Theme	Integrated Pest and Vector Management in the tropics: perspective and future strategies		
Venue	<i>icipe</i> -African Insect Science for Food and Health, Duduvillè, Nairobi		
LANGUAGE PROFICIENCY			
Self Assessment	Understanding	Speaking	Writing
English	Proficient	Independent speaker	Proficient writer
Kiswahili	Proficient	Independent speaker	Proficient writer
SKILLS AND COMPETENCE			
Social skills competence	<ul style="list-style-type: none"> • Intercultural skills-Having worked in centres of excellence institutions such as ILRI and <i>icipe</i>, I have interacted with people from extensive diverse backgrounds (Asians, Caucasians and Africans) • Team work: I have worked in various team project e.g. AnGR project, Commercial Insect Project, African Fruitfly Project 		
Management and organisational skills	<ul style="list-style-type: none"> • Managed ILRI’s Animal Genetic Resources laboratory for two and half years • Orientated visiting scientists, students, postdoctoral fellows from various continents • Supervised students on attachment, master and PhD students and assisted them in their projects 		
Technical skills and competences	<ul style="list-style-type: none"> • Research in Molecular Genetics, Molecular Biology, Biochemistry, Biotechnology & Bioinformatics. Molecular Biology Techniques • Lecturer in Biochemistry, Biotechnology, Genetics, Forensic Science, Medical Biochemistry 		
Computer skills and competences	<p>Microsoft Software Knowledge: Ms Word, Access, Excel, PowerPoint, Page maker, Bioinformatics & Internet database search</p> <p>Analysis softwares: Multivariate statistical package (V 3.131), Mircrosatellite Analysis (MSA), GenescanTM (V. 3.1.2), GenotyperTM (V.2.0), Microsat toolkit (V 3.1), Genepop (V 3.4), Dispan, Arlequin (V.2.000), Statistical Analysis System (SAS V.6.12), Genstat etc.</p>		
Membership	<ul style="list-style-type: none"> • American Society for Microbiology (ASM) • International Society of Computational Biology (ISCB) • Regional Society Group of East Africa (RSG-East Africa) • Biochemical Society of Kenya (BSK) • Dudu Clubs of Kenya (based at ICIPE) • Egerton and JKUAT University Alumni Association • Old Cambrian Society-Nairobi School 		
Other skills	Driving skills since 2006 (Kenyan Driving Licence class BCE)		
Hobbies & Interests	Yearly Charity Runs Participation (Nairobi Marathon, Mater Heart Run, Run for the bibleless, Ndakaini Run etc) “Murang’a Child Can” mentorship programme		

REFERENCES

1. **Dr Elijah Lelmen**,
Lecturer & Chairman, Biochemistry and Biotechnology Department,
Technical University of Kenya (TUK),
P.O. Box 52428 – 00200, City Square – 00200, Nairobi.
Mobile: +254-731-454067,
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 2. **Dr Marion Burugu**, Lecturer, Department of Biochemistry and Biotechnology,
Kenyatta University,
P.O. Box 43844 – 00100, Nairobi.
Mobile: +254-735-366043,
Email: marionwari@gmail.com

 3. **Dr James Nonoh**, Lecturer; Biological Sciences Department,
Technical University of Kenya (TUK),
P.O. Box 52428 – 00200, City Square – 00200,
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 4. **Dr Paul Mireji**, Lecturer & Chairman,
Biochemistry Department, Egerton University,
P.O. Box 536 -20115, Njoro, Egerton.
Mobile: +254-711-881665
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 5. **Dr Daniel Masiga**, Principle Scientist and Head of Molecular Biology & Biotechnology,
icipe-African Insect Science for Food and Health,
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