

CURRICULUM VITAE

JOSEPHINE WAMBAIRE KIMANI

CURRENT ADDRESS:

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PERSONAL DATA

Gender	Female
Date of birth	16 July 1979
Nationality	Kenyan
Marital status	Single

LANGUAGE PROFICIENCY

Fluent in writing, speaking and reading English and Kiswahili

RESEARCH INTEREST

To improve the management of diseases by understanding host-pathogen interactions, development of diagnostics, therapies and vaccines.

EDUCATION

2012 to September 2017 - PhD Biotechnology (University of Nairobi, Kenya)

2006 to 2010 - Master of Science in Biochemistry
- Jomo Kenyatta University of Agriculture and Technology (JKUAT), Kenya

2000 to 2004 - Bachelor of Science in Biochemistry, JKUAT
- Graduated with Upper Second Class (2.1) Honours

1994 to 1997 – Kenya Certificate of Secondary Education.
- Overall grade B+ (plus)

PROFESSIONAL EXPERIENCE

October 2017 to Date – Lecturer, Department of Biochemistry, JKUAT
- Duties include teaching, examination and supervision of research by undergraduate and postgraduate students.

Dec 2012 to Sept 2017 - Assistant Lecturer, Department of Biochemistry, JKUAT

2009 to April 2011 – Laboratory Technologist (Part-time basis), JKUAT
(i) Department of Biochemistry (ii) Food Science and Technology Department

RESEARCH EXPERIENCE

1. 2012 to 2017 –PhD Biotechnology Research
Centre for Biotechnology and Bioinformatics, University of Nairobi.
Thesis title: Development of Dromedary Antibody-based Immunoassay for Detection of Chikungunya Virus Infections.
2. Aug 2010 to Aug 2011 - Analytical Biochemistry
Department of Food Science and Technology, JKUAT.
Duty - Food chemistry and quality analysis.
3. Aug 2007 – 2009 - MSc. Research, Department of Biochemistry, JKUAT.
Thesis title - Characterization of Seed Oil and Evaluation of Oxalate Oxidase Activity among Kenyan Sunflower Varieties.
4. Jan–April 2003 –Laboratory Attachment
Kenya Medical Research Institute (KEMRI).
Assisted in bioprospecting for bioactive compounds from medicinal plants.

PUBLICATIONS

1. **Josephine Kimani**, George O. Osanjo, Rosemary Sang, Joel Ochieng and Francis Mulaa (2017). Development of dromedary antibody-based enzyme linked immunosorbent assay for detecting Chikungunya virus infections. *African Journal of Pharmacology and Therapeutics* Vol. 6 No. 2 Pages 109-116.
2. George O. Osanjo, Irene A. Onyango, **Josephine Kimani**, James Ochanda and Julius Oyugi. (2017). Evaluation of malaria rapid diagnostic tests among children in a malaria endemic region in coastal Kenya. *African Journal of Pharmacology and Therapeutics* Vol. 6 No. 2 Pages 77-82.
3. **Josephine Kimani**, George Osanjo, Rosemary Sang, James Ochanda and Francis Mulaa (2016). Performance of methylcellulose and Avicel overlays in plaque and focus assays of Chikungunya virus. *African Journal of Pharmacology and Therapeutics* Vol. 5 No. 2 Pages 54-58.
4. **Kimani, J. W.**, Kariuki, D. W., Kenji, G. M. and Kihurani, A. W. (2014). Evaluation of resistance of Kenyan sunflower to leaf tissue degradation by oxalic acid and the oil yield. *JAGST* Vol. 16(3) 2014.
5. **Kimani, J.** (2011). Sunflower seed oil quality and resistance to oxalic acid degradation – Exploring alternatives to pesticide application. Lambert Academic Publishing GmbH & Co. KG. Germany ISBN 978-3-8473-0698-6.

RESEARCH SUPERVISION AND THESIS EXAMINATION

Six undergraduate research projects supervised, Ten MSc. theses examined, One PhD student to co-supervise and many MSc. project proposals examined.

CONFERENCES

1. **Josephine Kimani**, George Osanjo and Francis Mula. (2017). Development of dromedary antibody-based enzyme linked immunosorbent assay for detecting Chikungunya virus infections. 4th University of Nairobi and Kenyatta National Hospital International Scientific Conference, June 2017
2. **Josephine Kimani (2015)**. Performance of methylcellulose and Avicel overlays in plaque and fluorescent focus assays of Chikungunya virus. 3rd University of Nairobi and Kenyatta National Hospital International Scientific Conference, June 2015, pp 35-36.
3. **Kimani, J. W.**, Kariuki, D. W., Kenji, G. M. and Kihurani, A. W. (2009). Characterization of seed oil and evaluation of oxalate oxidase activity among Kenyan sunflower varieties: 2nd Faculty of Science Scientific Conference - Part 2, Jomo Kenyatta University of Agriculture and Technology, Kenya, May 2009.

SHORT COURSES

1. September 2018 - Kenya Immunobiology of Parasites, Pathogens and Pathogenesis (KENBOP) Course and Symposium- by University of Glasgow and KEMRI-Wellcome Trust, Kilifi, Kenya. Issued with Certificate of Attendance
2. May – August 2017
Pan African Bioinformatics Network for H3Africa by University of Cape Town, South Africa. Issued with certificate - Introduction to Bioinformatics course (IBT_2017).
3. September - October 2010
Food Security Centre Summer School, University of Hohenheim, Germany.
Issued with certificate- Disease-Related Malnutrition.
4. November 2008 - International Livestock Research Institute (ILRI), Kenya.
Issued with certificate -Introduction to Proteomics.

SCHOLARSHIPS AND AWARDS

1. 2013-2015: JKUAT's scholarship to support PhD research. Amount awarded= USD 6,000.
2. 2012-2014: Gandhi Smarak Nidhi Fund
To undertake PhD studies at the University of Nairobi. Amount awarded = USD 10,000.
3. Aug- Sept 2010 - DAAD Scholarship Award
Fellowship to study Disease-Related Malnutrition at the University of Hohenheim, Germany.

PROFESSIONAL MEMBERSHIPS

1. Bioinformatics club of JKUAT
2. Biochemical Society of Kenya

LEADERSHIP SKILLS/RESPONSIBILITIES

1. 2018-2019- Spearheading a committee in charge of PhD curriculum development (ongoing project)
2. March 2017 to Date –Postgraduate Programs Coordinator, Department of Biochemistry, JKUAT.
3. July –August 2018- Acting Chairman, Department of Biochemistry, JKUAT
4. 2016 to Date - Departmental Representative of Gender, Mentorship and Special Needs Committee at the Directorate of Gender and Mentoring, JKUAT.
5. 2014 to 2016 – Departmental Board Secretary, Department of Biochemistry, JKUAT.
6. 2006 to 2010 – Class Representative, MSc. Biochemistry group, JKUAT.

REFEREES

1. Prof. George O. Osanjo (PhD Supervisor)
Department of Pharmacology and Pharmacognosy, University of Nairobi
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2. Prof. Daniel W. Kariuki
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3. Ms. Faith M. Muriuki
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