



# THE TECHNICAL UNIVERSITY OF KENYA

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Faculty:	Applied Sciences and Technology
School:	Biological and Life Sciences
Department:	Food Science and Technology
Current Designation:	Lecturer, FOOD SCIENCE AND TECHNOLOGY
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Consultation Hours:	8AM-5PM MON - FRI



## EDUCATION

LEVEL	QUALIFICATION NAME	INSTITUTION	YEAR
Doctor of Philosophy (PhD)	FOOD SCIENCE	Christian-Albrechts- Universitat Zu Kiel/Max Rubner Institute(Germany)	2009
Masters of Business Administration (MBA)	STRATEGY AND PUBLIC FINANCE MANAGEMENT	STRATHMORE BUSINES SCHOOL(Kenya)	2016
Masters of Science (M.Sc.)	FOOD SCIENCE	EGERTON UNIVERSITY(Kenya)	2004
Bachelor of Science (BSc)	FOOD SCIENCE & TECHNOLOGY	EGERTON UNIVERSITY(Kenya)	2001
Short Course/ Training	INTERNAL QUALITY AUDITING COURSE	KENYA BUREAU OF STANDARDS(Kenya)	2012
Professional Course	Pan African EMBA Module	University of Navarra(Spain)	2015

## WORK EXPERIENCE

<b>PERIOD</b>	<b>INSTITUTION</b>	<b>POSITION</b>
AUG, 2011 - TO DATE	SMART SOLUTIONS AFRICA LTD	PRINCIPAL CONSULTANT/PARTNER
2011 - TO DATE	TECHNICAL UNIVERSITY OF KENYA	LECTURER
2005 - SEPT 2009	TEA RESEARCH FOUNDATION OF KENYA (TRFK)	FOOD TECHNOLOGIST
FEB, 2010 - JULY, 2010	KIMATHI UNIVERSITY COLLEGE	LECTURER/ DIRECTOR BPS
OCT, 2006 - JULY, 2009	CHRISTIAN-ALBRECHT'S UNIVERSITY-KIEL GERMANY	PhD RESEARCH FELLOW
MAY, 2013 - FEB, 2017	MINISTER FOR AGRICULTURE, LIVESTOCK, FISHERIES & COOPERATIVES, EMBU COUNTY	COUNTY EXECUTIVE COMMITTEE MEMBER (MINISTER)
OCT, 2009 - 2011	KENYATTA UNIVERSITY	PART-TIME LECTURER
AUG, 2010 - 2011	KENYATTA UNIVERSITY	LECTURER
2005 - 2006	KENYATTA UNIVERSITY	PART-TIME LECTURER
2004 - 2005	NEW KENYA CO-OPERATIVE CREAMERIES	PRODUCTION SUPERVISOR

#### GENERAL STATEMENT ON RESEARCH AREAS

Probiotics, molecular Nutrition, Molecular techniques, Isolation and characterization of microorganisms in food, immune modulation, health benefits of food microorganisms

#### CURRENT RESEARCH PROJECTS

Western Heads East Project - Collaboration with Western Ontario University

Western Heads East is a collaboration between Western staff, students, faculty and African partners using probiotic food to contribute to health and sustainable development.

#### SELECTED PUBLICATIONS

TITLE	LINK TO PULICATION
Aflatoxin variations in maize flour and grains collected from various regions of Kenya: <i>Afr. J. food Agric. Nutr. Dev.</i> 2017; 17(1): 11743-11756.	<a href="https://www.ajfand.net/Volume17/No1/Nduti16875.pd">https://www.ajfand.net/Volume17/No1/Nduti16875.pd</a>
Identification and characterisation of lactobacilli isolated from Kimere, a spontaneously fermented pearl millet dough from Mbeere, Kenya (East Africa)	<a href="https://www.researchgate.net/publication/51561985_Identification_and_characterisation_of_lactobacilli_isolated_from_Kimere_a_spontaneously_fermented_pearl_millet_dough_from_Mbeere_Kenya_East_Africa">https://www.researchgate.net/publication/51561985_Identification_and_characterisation_of_lactobacilli_isolated_from_Kimere_a_spontaneously_fermented_pearl_millet_dough_from_Mbeere_Kenya_East_Africa</a>
Molecular Characterization and Probiotic Potential of Kimere Lactobacilli	<a href="https://fachbuch-schaper.buchhandlung.de/de/shop/article/28369170/patrisio_njeru_molecular_characterization_and_probiotic_potential_of_kimere_lactobacilli.html">https://fachbuch-schaper.buchhandlung.de/de/shop/article/28369170/patrisio_njeru_molecular_characterization_and_probiotic_potential_of_kimere_lactobacilli.html</a>
Investigating probiotic yoghurt to reduce an aflatoxin B1 biomarker among school children in Eastern Kenya: Preliminary study	<a href="https://www.researchgate.net/publication/306049393_Investigating_probiotic_yoghurt_to_reduce_an_aflatoxin_B1_biomarker_among_school_children_in_eastern_Kenya_Preliminary_study">https://www.researchgate.net/publication/306049393_Investigating_probiotic_yoghurt_to_reduce_an_aflatoxin_B1_biomarker_among_school_children_in_eastern_Kenya_Preliminary_study</a>
Suppression subtractive hybridization identifies bacterial genomic regions that are possibly involved in hBD-2 regulation by enterocytes	<a href="http://onlinelibrary.wiley.com/doi/10.1002/mnfr.201100052/abstract">http://onlinelibrary.wiley.com/doi/10.1002/mnfr.201100052/abstract</a>
An assessment of integrated financial management information system implementation towards effective management practices in Nairobi and Lamu counties.	<a href="https://su-plus.strathmore.edu/bitstream/handle/11071/4787/Patrisio%20Njeru.pdf?sequence=2">https://su-plus.strathmore.edu/bitstream/handle/11071/4787/Patrisio%20Njeru.pdf?sequence=2</a>
Prevalence of Maternal Serum Zinc Deficiency and its Associated Factors among Pregnant women in Naivasha, Kenya	<a href="http://imsear.li.mahidol.ac.th/handle/123456789/164578">http://imsear.li.mahidol.ac.th/handle/123456789/164578</a>
Molecular Characterization and Probiotic Potential of Kimere Lactobacilli	<a href="https://cuvillier.de/uploads/preview/public_file/2242/9783869550565.pdf">https://cuvillier.de/uploads/preview/public_file/2242/9783869550565.pdf</a>
Isolation, Characterization and Identification of Potentially Probiotic Lactobacilli from Kimere; a Spontaneously Fermented pearl Millet Dough From Mbeere, Kenya(East Africa)	<a href="https://www.researchgate.net/publication/51561985_Identification_and_characterisation_of_lactobacilli_isolated_from_Kimere_a_spontaneously_fermented_pearl_millet_dough_from_Mbeere_Kenya_East_Africa">https://www.researchgate.net/publication/51561985_Identification_and_characterisation_of_lactobacilli_isolated_from_Kimere_a_spontaneously_fermented_pearl_millet_dough_from_Mbeere_Kenya_East_Africa</a>
Dietary, Socio-Economic and Demographic Factors influencing Serum Zinc levels of Pregnant women at Naivasha Level 4 Hospital Nakuru County, Kenya	<a href="http://ir-library.ku.ac.ke/bitstream/handle/123456789/9438/Mitheko%20Agnes%20Ndutah.pdf;sequence=1">http://ir-library.ku.ac.ke/bitstream/handle/123456789/9438/Mitheko%20Agnes%20Ndutah.pdf;sequence=1</a>
Weissella Cibaria Nn20 Isolated from Fermented Kimere Shows Ability to Sequester AFB1 In vitro and Ferment Milk with Good Viscosity and Phin Comparison To yogurt	<a href="https://medwinpublishers.com/FSNT/FSNT16000138.pdf">https://medwinpublishers.com/FSNT/FSNT16000138.pdf</a>
Host-Microbe-Drug Triad; Role of Chloroquine/Hydroxychloroquine in Covid-19 Treatment-focus on Inflammatory Cytokine inhibition	<a href="https://academicjournals.org/journal/AJMR/article-in-press-abstract/host_microbe_drug_triad_role_of_chloroquine_hydroxychloroquine_in_covid_19_treatment_focus_on_inflammatory_cytokine_inhibition">https://academicjournals.org/journal/AJMR/article-in-press-abstract/host_microbe_drug_triad_role_of_chloroquine_hydroxychloroquine_in_covid_19_treatment_focus_on_inflammatory_cytokine_inhibition</a>

## POSTGRADUATE STUDENTS SUPERVISION

NAME	PROJECT TITLE	PERIOD
MITHEKO AGNES NDUTAH (B.E.D HOME ECONOMICS)	MSc. Thesis Title:-Dietary, Socio-Economic And Demographic Factors Influencing Serum Zinc Levels Of Pregnant Women At Naivasha Level 4 Hospital Nakuru County, Kenya	2013
NICHOLAS NDARU NDUTI BSc (Hons), MSc.	PhD Thesis Title:-Isolation and characterization of Lactobacillus in Kimere, a fermented Pearl Millet product in Kenya and screening their ability to retain viability and health benefit in a new developed product	2014-2018
ALICE WAITITU KIMANI	Assessment Of Donkey Milk Chemical, Microbiological And Sensory Quality In Kamare Village, Naivasha Town, Nakuru County; Kenya	2018

## COURSES TAUGHT

NAME	DESCRIPTION	PERIOD
SSFI 3101 PRODUCT DEVELOPMENT AND MARKETING	Product development, meaning of product and product classification, new product development process, branding and branding decisions, consumer adaptation process and process life cycle Market positioning, segmentation product positioning Marketing of processed food products, channels of distribution, market organization, pricing and pricing strategies Promotion of food products -importance, marketing mix, Food marketing policies in kenya	Sep-2017 - TO-DATE
SSFI 4103 FOOD INDUSTRY MANAGEMENT	-Scope and importance of management in food manufacturing operations - Operations in food industry -Technical management -production schedules, quality management -Business management -Industrial economics, financial and cost accounting, planning and budgeting -Management techniques and principles -Policy making, decision making, organization structure -Human resource management -Supply chain management	Sep-2017 - TO-DATE
Food Microbiology	Introduction to microbiology, factors affecting microbial growth, control of microorganisms in food. Food spoilage, isolation of microorganisms from various foods, Characterization Probiotics & Prebiotics Antibiotic resistance Molecular Techniques	Jan 2018 - TO-DATE
Food Biotechnology	Fermentations, Application of Biotechnology in food industry, Fermentations, Molecular Techniques	Jan 2018 - TO-DATE

#### PROFESSIONAL AFFILIATIONS AND SOCIETIES

TITLE	INSTITUTION
Nutritionist / Dietician	Kenya Nutritions & Dieticians Institute.
AUDITOR -QMS ISO 9000 & 22000	Quality Management Institute-KEBS, Kenya
Lead Expert Member	Environment Institute of Kenya

#### EXTRA INFORMATION

##### DESCRIPTION

Member -Rotary Club of Kitengela (Water & Sanitation Champion)  
 Member, KAAD Society of East Africa (KAAD Alumni)  
 DAAD Alumni