



THE TECHNICAL UNIVERSITY OF KENYA

Haile Selassie Avenue, P.O. Box 52428, Nairobi, 00200, Tel +254(020) 343672, 2249974, 2251300, 341639

Fax 2219689, Email: vc@tukenya.ac.ke, Website: www.tukenya.ac.ke

NAME: DR CYNTHIA NAFULA WAKHUNGU

Faculty:	Applied Sciences and Technology
School:	HEALTH AND BIOMEDICAL SCIENCES
Department:	Pharmaceutical Sciences and Technology
Current Designation:	Tutorial Fellow, DEPARTMENT OF BIOLOGICAL AND LIFE SCIENCES
Office Telephone:	+254(020) 2219929, 3341639, 3343672
Official Email:	cynthia.wakhungu@tukenya.ac.ke
Consultation Hours:	8AM-5PM MON - FRI



EDUCATION

LEVEL	QUALIFICATION NAME	INSTITUTION	YEAR
Doctor of Philosophy (PhD)	MICROBIOLOGY	University of Nairobi(Kenya)	2025
Masters of Science (M.Sc.)	PLANT PATHOLOGY	EGERTON UNIVERSITY(Kenya)	2016
Bachelor of Science (BSc)	SCIENCE	EGERTON UNIVERSITY(Kenya)	2013
O level/Equivalent	KENYA CERTIFICATE OF SECONDARY EDUCATION	LUGULU GIRLS HIGH SCHOOL(Kenya)	2007

WORK EXPERIENCE

PERIOD	INSTITUTION	POSITION
2023 - Date	Technical University of Kenya	Tutorial fellow
2017 - 2018	Technical University of Kenya	Part time lecturer

GENERAL STATEMENT ON RESEARCH AREAS

Microbial communities, interactions and their impacts on environment and plant health

Community-based interventions for climate change adaptation, integrating local knowledge with scientific approaches to strengthen resilience, food security, and sustainable livelihoods

SELECTED PUBLICATIONS

TITLE	LINK TO PUBLICATION	YEAR
Wakhungu, C.N., Okoth, S., Wachira, P., and Otieno, N.A. (2023). Prevalence of Aflatoxin B1 in Marketed Herbs and Spices in Nairobi County Kenya: Consumer Awareness, Practices and Associated Health Risks. Journal of Agriculture and Food Science	View online	2023
Wakhungu, C.N., Okoth, S., Wachira, P. and Amimo, N. (2021) Review of mycotoxins contaminating herbs and spices in Africa. African journal of biological sciences	View online	2021
Wakhungu, C. N., Isaiah M. Tabu., Daniel O. Otaye. and Victor Wafula Wasike. (2021). Incidence and Severity of Fusarium Wilt on Bambara Nut (Vignasubterranea L.) Landraces in Western Kenya. African Journal of Biological Sciences	View online	2021
Wakhungu, C. N., Isaiah M. Tabu., Daniel O. Otaye. & Victor W. Wasike. (2017). Management of Fusarium wilt of bambara nut (Vigna subterranea (L.) Verdc.) using farmyard manure in Busia County Western Kenya. Archives of phytopathology and plant protection.	View online	2017
Loss of soil biodiversity through judicious use of synthetic pesticides; A case study of Trans Nzoia county Kenya	View online	2024
Wakhungu C.N., Okoth S., Amimo N., Wachira P., Amakhobe T., Owiti A., and Wachira P. Screening of mycoflora and ochratoxin A analysis on common culinary herbs and spices sold in Nairobi County, Kenya. Journal of Food Additives and Contaminants.	View online	2024

COURSES TAUGHT

NAME	DESCRIPTION	PERIOD
Crop Production	This course provides an overview of the principles and practices involved in crop production, including crop growth requirements, land preparation, planting, crop management, harvesting, and post-harvest handling.	2025 - TO-DATE
Environmental Microbiology	The course explores the diversity, distribution, and ecological roles of microorganisms in soil, water, air, and other natural habitats. Key areas of study include microbial processes in nutrient cycling, biodegradation, waste management, environmental pollution, and ecosystem functioning.	2025 - TO-DATE
General Microbiology	General Microbiology introduces the fundamental concepts of microorganisms, including their structure, physiology, diversity, and roles in health, industry, and the environment	2023 - TO-DATE
Mycology	Mycology explores the biology, diversity, and ecological as well as economic importance of fungi, including their roles in health, agriculture, and biotechnology	2023 - TO-DATE
Plant Pathology	Plant Pathology examines the causes, mechanisms, and management of plant diseases, emphasizing the interactions between pathogens, hosts, and the environment to promote sustainable crop health	2023 - TO-DATE