

Faculty Talk: Insightful Seminar Series

Faculty of Livestock, Fisheries, and Nutrition

Wayamba University of Sri Lanka

Topic

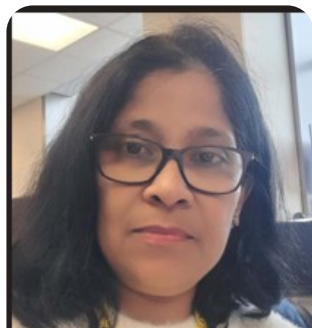
Novel Host Defense Peptides (HDP's) Against Meat Spoilage: A solution for Antimicrobial Resistance (AMR)

Overview

Antimicrobial resistance (AMR) has become a global health concern for both human and animal. The current infections by AMR bacteria in human is reported as 2.8 million with 700000 deaths annually which would increase five times by 2050 if AMR is not reduced. Bacteria isolated from food-producing animals have shown high AMR for most antimicrobials used in human medicine hence challenging the consumption of meat. The current preservatives used in meat are not effective enough to control AMR bacteria hence novel therapies are an essential need to safeguard both food security and human health. Host defense proteins (HDP's) represent nature derived promising solutions with broadspectrum antimicrobial and robust antibiofilm activities. This speech is about the research conducted during my postdoctoral fellowship, at Department of Microbiology and Immunology of Otago University, New Zealand.

Speaker

Dr. Sharmila Jayatilake, Senior Lecturer (Grade 1), Department of Food Science & Technology, Faculty of Livestock, Fisheries & Nutrition, Wayamba University of Sri Lanka



Dr. Sharmila Jayatilake earned her Ph.D. from the United Graduate School of Agricultural Sciences, Iwate, Japan, and both her MSc and B.Sc. in Agriculture specializing in Food Science & Technology from the University of Peradeniya. She joined the Department of Food Science and Technology, Faculty of Livestock, Fisheries and Nutrition, Wayamba University of Sri Lanka in 2001 as a probationary lecturer. Her research explores the bioactive properties of whey proteins in inflammatory colitis, the role of dairy products in modulating gut microflora, and the development of novel foods with health-promoting and disease-suppressive attributes.

Moderator

Prof. W.A. Harindra Champa, PhD, Chairperson, Research Development and Publication Committee, Faculty of Livestock, Fisheries and Nutrition, Wayamba University of Sri Lanka.

Date & Time

11:30 AM – 12.00 noon on 05th August, 2026

Venue

Aquaculture & Fisheries Lecture Room, Faculty of Livestock, Fisheries and Nutrition

Contact

For inquiries, please contact Prof. W.A. Harindra Champa, Chairman, RDPC, FLFN, WUSL. Email: harindra.bsu@wyb.ac.lk

**Organized by: Research, Development and Publication Committee
Faculty of Livestock, Fisheries, and Nutrition**