

Faculty Talk: Insightful Seminar Series
Faculty of Livestock, Fisheries, and Nutrition
Wayamba University of Sri Lanka

Topic

Physical fortification of rice with ethanol as a carrier medium

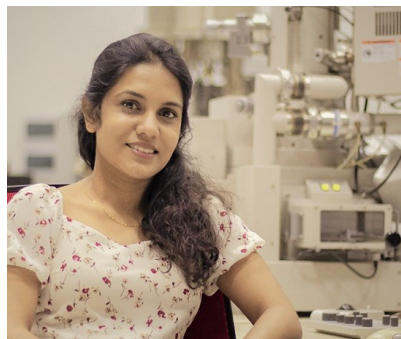
Overview

Rice is the staple food for nearly half of the world's population, particularly in Africa, South Asia, and Southeast Asia, making it an ideal vehicle in food fortification. Several post-harvest rice fortification technologies exist to increase the micronutrient content of milled rice, including soaking rice in micronutrient solutions, parboiling with fortified water, dusting with micronutrient powders, and blending with coated or extruded fortified kernels. However, these methods face limitations such as nutrient losses during washing and cooking, poor adherence of powders, poor sensory characteristics and incompatibility of with some functional ingredients that can be used in rice fortification. A new ethanol-based carrier method for rice fortification has been evaluated, which not only improves nutrient stability and retention but is also capable of enhancing the functional properties of rice. This technology was successfully scaled up to commercial production of fortified rice in Sri Lanka.

Speaker

Dr. Haily Senevirathne, Senior Lecturer

Department of Food Science and Technology, Faculty of Livestock, Fisheries, and Nutrition,
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Dr. Haily Senevirathne holds a BSc in Food Science and Technology and an MSc in Food and Nutrition from the University of Peradeniya. She earned PhD in Nanoscience and Nanotechnology from Sri Lanka Institute of Nanotechnology (SLINTEC). Her doctoral research included preliminary studies carried out at University of Peradeniya and Australian Synchrotron, affiliated with the Australian Nuclear Science and Technology Organization, while the core research was completed at SLINTEC. Her areas of expertise include food fortification, nanoencapsulation of bioactive ingredients, natural food colorants, and plant-based proteins.

Moderator

Prof. W.A. Harindra Champa, Chairman, Research Development and Publication Committee, Faculty of Livestock, Fisheries and Nutrition

Date & Time

11:30 AM - 12:00 Noon on 03rd September 2025

Venue

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

Contact

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Organized by: Research, Development and Publication Committee
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