

EXPLORING ALTERNATIVE PROTEINS : CHALLENGES AND OPPORTUNITIES



Indian Institute of Technology Kharagpur
Kharagpur - 721302, India

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Organized by
Agricultural and Food Engineering Department
IIT Kharagpur

In collaboration with
Curtin University, Australia

&
Tezpur University, Assam

Under the sponsorship
of
SPARC (MHRD, Govt. of India)

Convener
Dr. P Srinivasa Rao

Co-Convener
Dr. Brajesh K Panda



This workshop aims to discuss recent innovations and practical solutions in the alternative protein sector, bringing together distinguished experts. Participants will understand the role of alternative proteins on global food security and climate change mitigation. Keynote talks will address emerging technologies, market trends, technical challenges and strategies for the commercialization of novel protein products. Join us to explore cutting-edge research, innovative solutions, and collaborative opportunities shaping the future of alternative proteins sector.

Key Speakers



- Dr. Rewati Raman Bhattarai
- Dr. Soumya Ranjan Purohit
- Dr. Praveen Kumar Sappati
- Dr. Ronit Mandal
- Dr. Pramesh Kumar Dhungana



Topics

- Recent advancements in enhancing the techno-functionality of alternative plant proteins.
- Opportunities and challenges in non-conventional leaf protein concentrate.
- Algal proteins: A sustainable alternative to conventional protein sources.
- Application of machine learning techniques for the prediction of functionality of plant proteins.
- Non-cow milk as a sustainable alternative to cow milk: effect on product performance.

Registration is compulsory on or before 26/01/2025

Registration fee: Free

Register through CEP Portal link (online)

Email: sparcproteiniitkgp@gmail.com

About Dept. of Agricultural and Food Engineering, IIT Kharagpur

The Department of Agricultural and Food Engineering at IIT Kharagpur, established in 1952, is a pioneer in agricultural and food engineering education and research in India. As the first department of its kind within the IIT system, it has significantly contributed to advancements in engineering aspects of agriculture and food processing. The department offers UG, PG and Ph.D courses in various fields of agriculture and food engineering. Equipped with state-of-the-art laboratories and pilot plants, it fosters a research-driven learning environment. IIT Kharagpur has many notable initiatives that showcase a tradition of cross-disciplinary research and innovation, solidifying the department's position as a leader in agricultural and food engineering education.

About IIT Kharagpur

IIT Kharagpur, established in 1951, is the first IIT in India and a pioneer in technical education, research, and innovation. Spread across a sprawling 2,100-acre campus, the institute provides a wide array of undergraduate, postgraduate, and doctoral programs across diverse fields, including engineering, science, management, law, architecture, humanities, and design. It is home to 19 departments, 12 schools, 17 research centers, and 2 academies, offering more than 61 specialized courses. With its commitment to fostering innovation and knowledge exchange, the institute has consistently ranked among the top institutions in India and globally.

About Curtin University, Australia

Curtin University, located in Perth, Australia, is a globally recognized institution known for its innovative education, research excellence, and strong industry connections. Curtin provides a wide range of programs across various fields, including engineering, business, health, science, and the arts. The School of Molecular and Life Sciences at Curtin focuses on advancing knowledge in biological, chemical, agricultural, and environmental sciences with an emphasis on practical applications. In Food Science and Technology, the school addresses critical research areas such as food security, sustainability, and quality enhancement. Collaborating with industry partners, it develops innovative solutions, including functional foods, plant-based foods, and advanced food preservation methods.

About Tezpur University, Assam

Tezpur University, located in the serene town of Tezpur, Assam, India, is a prominent institution known for its focus on research and academic excellence. Established in 1994, the university provides a unique environment blending modern education with cultural diversity. The Department of Food Engineering and Technology focuses on advancing education and research in food science, engineering, and technology. Its research spans areas such as food processing, preservation, quality assessment, and the development of novel food products, emphasizing the use of local resources to address challenges in sustainability and nutrition.