



A FIVE-DAY NATIONAL SPARC WORKSHOP ON
“Food Waste Biorefinery for Value-Added Products”
(3rd - 7th November 2025)

Venue : Khurana Hall, Seminar Hall Complex



Chief Guest
Dr. Mahesha M. Poojary
Associate Professor
Department of Food Science
University of Copenhagen
Denmark



Dr. M. Jerold
Assistant Professor
Department of Biotechnology
National Institute of Technology Warangal

Organizers



Dr. Winny Routray
Assistant Professor
Department of Food Process Engineering,
NIT Rourkela

Organized by
Department of Biotechnology
National Institute of Technology Warangal



UNIVERSITY OF
COPENHAGEN



A SPARC Sponsored Workshop on Food Waste Biorefinery for Value-Added Products

Organized by the **Department of Biotechnology, NIT Warangal, India**

In Association with the **University of Copenhagen, Denmark, Technical University of Denmark, and National Institute of Technology Rourkela, India**

Under Scheme for Promotion of Academic and Research Collaboration (SPARC), Ministry of Education, India

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PROGRAM SCHEDULE

Day & Date	09:00 – 10.00	10:00 – 11.00	TEA BREAK	11.30 – 12.30	LUNCH BREAK	14:30 – 17:00 9 Lecture (online)/ Lab Session)	
Monday 03-11-2025	09:00 – 10:00 REGISTRATION	10:00 – 11:00 INAUGURATION		11.30 – 12:30 Invited Lecture Food Waste Valorization: Introduction & State-of- the Art Dr. Mahesha M. Poojary University of Copenhagen, Denmark		15:00-16:00 Invited Lecture Highlights of Food Waste Valorization Projects from EU Dr. Francisco J. Barba University of Valencia, Spain	16:00-17:00 Invited Lecture Valorizing Millet Processing Waste: Extraction and Encapsulation Dr. Winny Routray NIT Rourkela, India
Tuesday 04-11-2025	09:00 – 11.00: Invited Lecture HPLC Basic Principles & Instrumentation Dr. Mahesha M. Poojary University of Copenhagen, Denmark			11.30 – 12:30 Invited Lecture: Metabolic engineering of Yarrowia lipolytica for the production of lactic acid using food waste Dr. Ashish A Prabhu, NIT Warangal		14:30 – 15:30 Invited Lecture Dairy Side streams and Potential Applications Dr. Shyam Suwal Arla Foods amba, Denmark	15:30 – 17:00 HPLC Lab visit: Group 1 (Group 2 & 3 networking)

Wednesday 05-11-2025	09:00 – 10:00 Invited Lecture: Corncob Biorefinery Waste to Value added compounds Dr. B Rama Raju, NIT Warangal, India	10:00 – 11:00 Invited Lecture: Bio-refinery for sustainable Development: Concepts and Application Dr. Jerold Manuel, NIT Warangal, India		11:30 – 12:30 Invited Lecture Treatment of Kitchen Solid Waste and Bioelectricity Production in a Dual-Chamber Microbial Fuel Cell Dr. Surajbhan Sevda, NIT Warangal, India		14:30 – 15:30 Invited Lecture Innovative Technologies for Food Waste Valorization Dr. Brijesh K. Tiwari Teagasc Food Research Center, Ireland	15:30 – 17:00 HPLC Lab visit: Group 2 (Group 1 & 3 networking)
Thursday 06-11-2025	09:00 – 10:00 Invited Lecture: Transforming Food Scraps into Sustainable Resources Dr. R. Satish Babu, NIT Warangal, India	10:00 – 11:00 Invited Lecture Oil Seed Waste Valorization: A Case Study with Rapeseed Dr. Mahesha M. Poojary University of Copenhagen, Denmark		11:30 – 12:30 Invited Lecture Ultra-Purification of Proteins from Rapeseed Press Cake Peter Lihme (online) University of Copenhagen, Denmark		14:30 – 15:30 Invited Lecture Generation of new food ingredients from food side-streams Dr. Charlotte Jacobsen Technical University of Denmark	15:30 – 17:00 HPLC Lab visit: Group 3 (Group 1 & 2 networking)
Friday 07-11-2025	09:00 – 10:00 Invited Lecture: Role of AI in Bioprocess Engineering Dr. K. Narasimhulu, NIT Warangal, India	10:00 – 11:00 Invited Lecture: Biotransformation of Dairy Side streams: A Case Study with Microalgae Dr. Mahesha M. Poojary University of Copenhagen, Denmark		12:00 – 13:00 Invited Lecture Utilization of side streams from the meat industry Dr. Rene Lemetsch University of Copenhagen, Denmark		14:30 – 17:00 FEEDBACK, VALEDICTORY FUNCTION, & NETWORKING	

Details of Hands-on Laboratory

Group	Experiment Topic	Faculty	Location
1, 2, & 3	HPLC Demonstration & Analysis of Polyphenols in Millet samples	Dr. Mahesha M. Poojary University of Copenhagen, Den Denmark & Dr. Jerold M NIT Warangal, India	Department of Biotechnology, NIT Warangal, India