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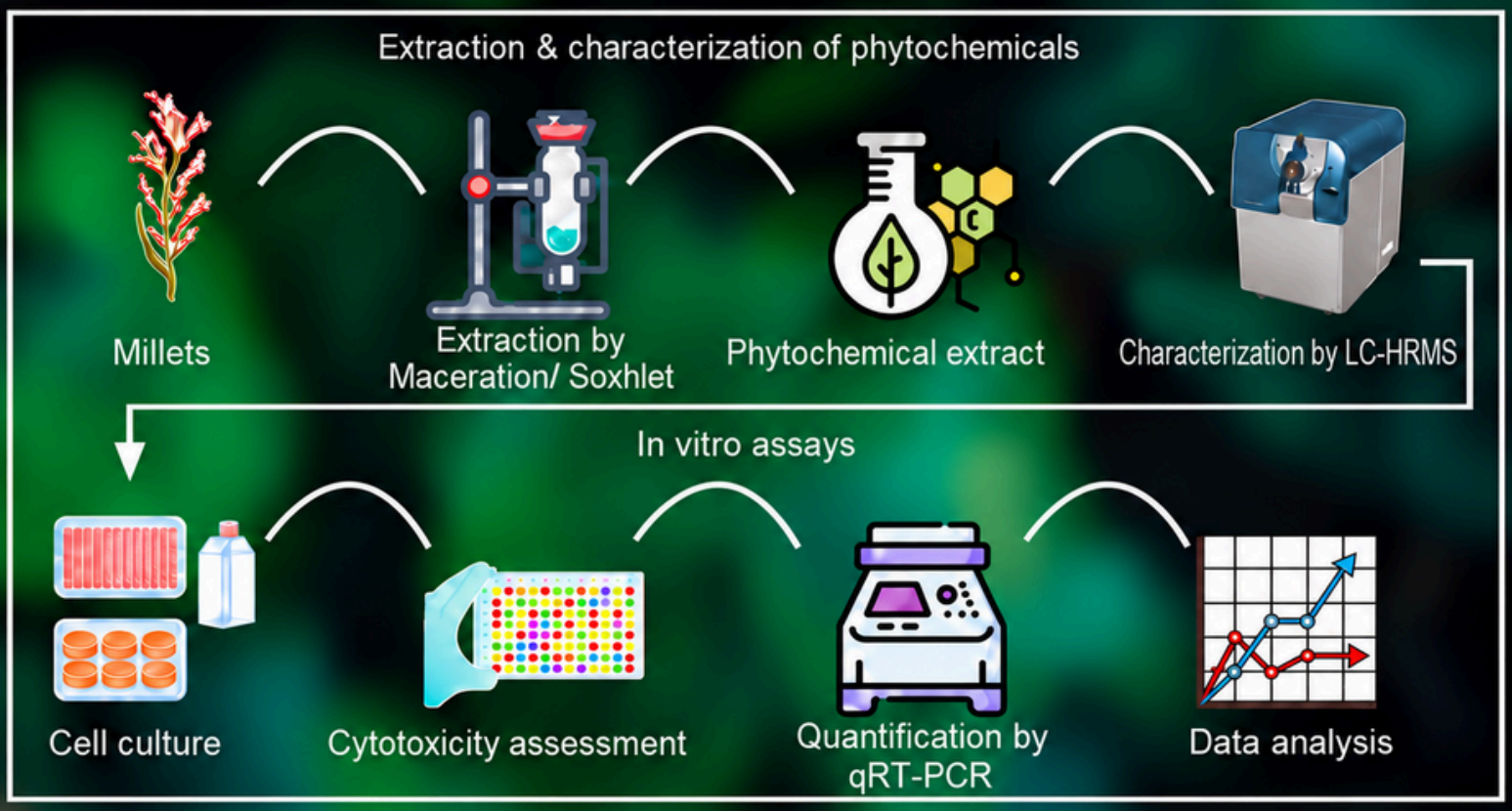
HANDS-ON WORKSHOP ON

PHYTOMEDICINES FOR MITIGATING MALIGNANCIES

December 14th to 19th 2026

JSS Academy of Higher Education & Research

(Deemed to be University, Accredited "A++" grade by NAAC, Ranked 21st by NIRF, NHRD, Govt. of India)



Organized By

Center of Excellence in Molecular Biology & Regenerative Medicine (CEMR) Laboratory
(A DST-FIST Supported Center and ICMR-Collaborating Center of Excellence (CCoE))
Department of Biochemistry (A DST-FIST Supported Department) &
Department of Medical Genetics, JSS Medical College, JSS AHER, Mysuru - 570015

NAAC	nirf 2025	Shanghai Ranking	Times Higher Education Impact Ratings 2026	Times Higher Education Impact Ratings 2026 Overall	QS World University Rankings By Subject 2026	THE World University Rankings 2027	THE World University Rankings 2026 by Subject
A++	21st University Category	Subject: Clinical Medicine World Rank 401-500 National / Regional Rank 5	SDG-3 Good Health and Wellbeing 2026 11 in WORLD	Impact Ranking 74 in WORLD 3 in INDIA	Pharmacy & Pharmacology 91 Medicine 551-600	701-800 17 in INDIA	Medical & Health 601-800 Life Science 801-1000

nirf 2025 | JSS College of Pharmacy, Ooty - 4th ★ JSS College of Pharmacy, Mysuru - 7th ★ JSS Dental College & Hospital - 10th ★ JSS Medical College - 37th

ABOUT THE WORKSHOP

Millets are an excellent source of bioactive secondary metabolites, including phenolic acids (ferulic, p-coumaric, and gallic acids), flavonoids (catechins and quercetin), and condensed tannins. These non-nutrient compounds are potent antioxidants, neutralizing harmful free radicals such as reactive oxygen species (ROS) and reactive nitrogen species (RNS), thereby alleviating cellular oxidative stress, and lowering the risk of chronic diseases such as cardiovascular disease (CVDs), diabetes, and cancer. Understanding the extraction, characterization, and biological evaluation (safety and anticancer efficacy) of millet-derived phenolics is essential for developing functional foods and nutraceutical interventions against cancer.

The workshop aims to provide participants with theoretical knowledge and hands-on training in the extraction and fractionation of phenolics, followed by separation using liquid chromatography (LC), and characterization by LC-high-resolution mass spectrometry (HRMS). Functional properties of phenolic extracts will be assessed by measuring their effect on exponentially growing cancer cells by the sulforhodamine B (SRB) assay.

Subsequently, total RNA will be isolated from the treated cells using TRIzol reagent and converted to complementary DNA (cDNA) using a cDNA synthesis kit. The expression of key cancer-related genes will be analyzed using quantitative real-time PCR (qRT-PCR). The data obtained from qRT-PCR will be analysed using real-time fluorescence amplification curves.

The workshop also includes expert lectures by distinguished faculty, a visit to the USIC (University Sophisticated Instrument Facility), Center of Excellence in Molecular Biology and Regenerative Medicine (CEMR) Laboratory, and Center for Experimental Pharmacology and Toxicology (CEPT) facilities at JSS AHER. Overall, the workshop aims to provide a hands-on and interactive learning experience in the areas of extraction of secondary metabolites (phenolics, free sugars, and amino acids) from millets, *in vitro* cytotoxicity assays, and molecular techniques for evaluating anticancer effects. The participants will be provided informative hand-outs and an attractive workshop kit consisting of a backpack, notebook, and day-to-day work schedule sheet.

DIVINE BLESSINGS

His Holiness Jagadguru Sri Shivarathri Deshikendra Mahaswamiji

Jagadguru Sri Veerasimhasana Mahasamsthana Math, Suttur SriKshethra

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RESOURCE PERSONS



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REGISTRATION FEE: ₹5,000/- + 18% GST (TOTAL: ₹5,900/-)

ACCOMMODATION

Accommodation is not provided for the participants by the organizers. However, assistance with accommodation arrangements can be provided upon request.

FOR MORE DETAILS

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LAST DATE TO REGISTER: 5th DECEMBER 2026