



सत्यमेव जयते



**Department of
Science & Technology**

DST-STUTI

**Hands on Training
On**

**PHYTOMEDICINES :
EXTRACTION, PURIFICATION,
IN VITRO & IN VIVO STUDIES**

July 24th - 30th, 2022

Organized by

**Department of Biochemistry, Kuvempu University
Department of Biotechnology, Sahyadri Science College
and
JSS Academy of Higher Education and Research, Mysuru**



In association with

**Department of Science and Technology
(DST-STUTI), Government of India**

For any details, Please contact

**Dr. Niranjana Pathappa
+91 90357 18389**

**Mr. Ankith Sherapura
+91 63621 81977**

**Dr. Dhanya B.E.
+91 94801 33230**

ABOUT THE ORGANIZATIONS



KUVEMPU UNIVERSITY

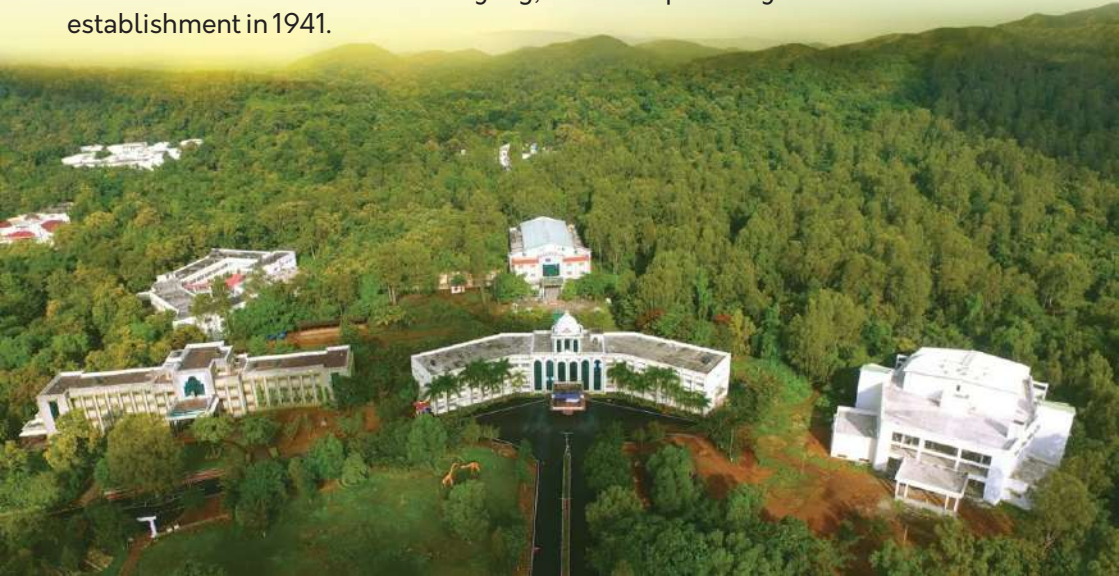


Kuvempu University is located in Shankaraghatta near Bhadra river project, Shivmogga District, Karnataka, India. It was established in the year 1987 and named after a great kannada writer Sri Kuppalli Venkatappa Puttappa (KUVEMPU), first jnanapitha awardee in kannada literature. The University has achieved a district academic profile and a cultural identity of its own. It offers a multidisciplinary academic program at the Undergraduate, Masters and Doctoral levels. The university is accredited by NAAC with 'A' Grade and also awarded 81 ranking in all India level by National Institutional Ranking Framework (NIRF), MHRD, India. In the Scimago global and Indian ranking, Kuvempu University is placed 45 among the Indian Institutes. Kuvempu University has been placed 3rd in the Karnataka State University Ranking Framework (KSURF) list by getting 4 stars.

SAHYADRI SCIENCE COLLEGE



Sahyadri Science College is a constituent college of Kuvempu University, Shivamogga, Karnataka, India. Institution rests on strong academic foundation, blended with a contemporary approach that sculptured young students into successful role models. This has been the legacy, for the past eight decades since its establishment in 1941.



JSS ACADEMY OF HIGHER EDUCATION & RESEARCH, MYSURU

JSS Academy of Higher Education & Research (AHER), formerly known as JSS University, was established in the year 2008 with four constituent colleges - JSS Medical College and Hospital, JSS Dental College and Hospital, JSS College of Pharmacy, Mysuru, and JSS College of Pharmacy, Ooty. In addition, JSS AHER has taken initiatives to enhance community health education and outreach activities by establishing departments of Water and Health (2011) and Health System Management Studies (2012). To expand our horizons in the field of Basic Health Science, the Faculty of Life Sciences with many basic and applied science departments was also initiated in the year (2013). JSS Mahavidyapeetha has been a guiding force providing support and encouragement to the JSS AHER and its initiatives.

JSS AHER has embarked on the international path through strategic initiatives and collaborations. These globalization efforts over the years have provided the students of JSS AHER and the healthcare professionals with an 1800-beds super-specialty tertiary care hospital, Mysuru. The hospital caters to a population of 3 – million people from all over Karnataka and India. This rich clinical environment along with dedicated faculty and physicians enables students and trainees to enhance their experience and professional development.

DEPARTMENT OF SCIENCE & TECHNOLOGY (DST-STUTI), GOI

The Department of Science and Technology (DST) is a department within the Ministry of Science and Technology in India. It was established in May 1971 to promote new areas of science and technology and to play the role of a nodal department for organizing, coordinating, and promoting Scientific and Technological activities in the country. It gives funds to various approved scientific projects in India. It also supports various researchers in India to attend conferences abroad and go for experimental works. The Scheme 'Synergistic Training program Utilizing the Scientific and Technological Infrastructure' (STUTI) is intended to build human resources and its knowledge capacity through open access to S&T Infrastructure across the country. As a complement to the various schemes of DST funding for expansion of R&D Infrastructure at academic institutions, the STUTI scheme envisions a hands-on training program and sensitization of the state-of-the-art equipment as well as towards sharing while ensuring transparent access to S&T facilities.

ABOUT THE WORKSHOP

This workshop focus on hands-on training on phytochemical (a) extraction methods; (b) purification from the extracts based on their charge, hydrophobicity and size; and (c) characterization of purified molecules using UV-Visible spectrophotometric, Thin Layer Chromatography (TLC) and High-Performance Liquid Chromatographic (HPLC) procedures.

In addition, the workshop provides training in (a) mammalian cell culture methods (freezing-, thawing-, and propagation of cell lines, cell viability determination by MTT etc); (b) extraction of total RNA, quality assessment, cDNA synthesis and quantitative realtime-polymerase chain reaction (qRT-PCR); and (c) isolation and quantification of proteins from cultured cells, followed by detection of a specific protein by SDS-PAGE and western blotting. Furthermore, senior professors and industry leaders will deliver expert talks covering the frontier areas of drug discovery from natural sources. Sessions pertaining to preclinical evaluation of phytomolecules will also be covered during this workshop.

In summary, this DST-STUTI sponsored 7-days workshop is a well-designed package to train the participants in the areas of phytomedicines isolation, purification and characterization as well as in the basic concepts of cell culture, drug screening and molecular methods of analyzing the mode of action of drugs.

KEY OBJECTIVES

- Provide knowledge and experimental skills to the researchers working in the areas of phytopharmacy and pharmacology
- Introduce the methods of cell culture, drug screening protocols, familiarize the participants to tools such as RT-PCR and western blotting, which are widely used in determining the mechanism of action of drugs
- Extend the net-working opportunities to the participants by introducing leaders in the areas of phytomedicine research

WHO CAN ATTEND

The workshop is open to Faculty/ research scholars/ postgraduate students working in the field of Biochemistry, molecular biology and biotechnology from all institutes, colleges, and universities.

REGISTRATION PROCEDURE

Participants can register for this workshop by filling up the given google form.

They should upload the resume, recent passport size photo along with a write-up (minimum 100 words) describing their interest in participation. The number of participants to this event is limited to 30 and the selection will be based on competence of the participants to the theme of the workshop. Postgraduate students and research scholars who wish to apply for the workshop should submit a letter of recommendation from their respective higher authority.

There will be no registration fees. Food and accommodation will be provided by the organizers as permissible under the DST STUTI grant rules.



Scan / Click for
Registration

DST STUTI PMU Coordinator

Dr. Prashant Vishwanath, MBBS., MD., PhD

Director (Research) & IQAC Coordinator
JSS AHER, Mysore.

Resource persons:

- **Dr. Dinesh A. Nagegowda**, AcSIR and Senior Principal Scientist, CSIR-CIMAP Research Center, Bengaluru
- **Dr. Vadlapudi Kumar**, Professor, Depart. of Biochemistry, Davangere University
- **Dr. Gajanana C. Joshi**, Associate Professor, Dept. of Biochemistry, Mangalore University
- **Dr. Sharangouda**, Assistant Controller of Patents & Designs, The Patent office, Government of India, Chennai
- **Dr. Mahantesha B. N. Naika**, Assistant Professor, Dept. of Biotechnology & Crop Improvement, University of Horticultural Sciences, Bagalkot

Dept. of Biochemistry, Kuvempu University, Shivmogga

- **Dr. Niranjana Pathappa**, Associate Prof. and Chairman
- **Dr. S.E. Neelagund**, Professor
- **Dr. G.J. Sathisha**, Professor
- **Guest Faculty and Research Scholars**

Dept. of Biotechnology, Sahyadri Science College, Shivmogga

- **Dr. B.T. Prabhakar**, Associate Professor
- **Dr. C.K. Ramesh**, Professor
- **Dr. Pradeepa K.**, Assistant Professor
- **Guest Faculty and Research Scholars**

JSS Academy of Higher Education & Research, Mysore

- **Dr. M.V.S.T. SubbaRao**, Professor
CEMR, Depart. of Biochemistry, JSS Medical College

Conveners:

- **Dr. Kiran Kumar MN**, Assistant Professor
Dept. of Biotechnology & Bioinformatics, JSS AHER, Mysore
- **Dr. Dhanya B E**, Project Coordinator
DST-STUTI Program, JSS AHER, Mysore



सत्यमेव जयते

Department of
Science & Technology

DST-STUTI

Department of PG Studies & Research in Biochemistry
Jnana Sahyadri,
Department of Biotechnology, Sahyadri Science College,
Kuvempu University, Shivamogga.
and
JSS Academy of Higher Education & Research, Mysore

Cordially invite you to the Inauguration of

Training Program
On

**PHYTOMEDICINES :
EXTRACTION, PURIFICATION,
IN VITRO & IN VIVO STUDIES**

Date: 24-07-2022 to 30-07-2022

Time: 9.00am to 6.00pm

Venue: S. P. HIREMATH HALL, Jnana Sahyadri, Kuvempu University

Presided by

Prof. B.P. Veerabadrappa

Vice Chancellor Kuvempu University

Chief Guest

Mrs. Anuradha G K.A.S.

Registrar, Kuvempu University

Prof. Rajeshwari N

Principal, Sahyadri Science College

Dr. Prashanth Vishwanath

Director(Research), JSS AHER, Mysore.

Guest of Honour

Dr. Dinesh Nagegowda

Senior Principal Scientist, CSIR-CIAMP, Bangalore

THE PROGRAMS

9.00 AM	Invocation
9.05 AM	Welcome Address
9.10AM	Inauguration and Opening Remarks
9.20 AM	Brief about the workshop by Dr. Prashanth Vishwanath
9.30 AM	Release of Workshop Manual and Address by Prof. B.P. Veerabadrappa
9.40 AM	Address by Mrs. Anuradha G KAS.
9.50 AM	Address by Prof. Rajeshwari N
9.55 AM	Vote of Thanks
10.00 AM	Beginning of the Scientific Sessions



Organizing Secretaries

Dr. B T Prabhakar
Associate Professor
Department of Biotechnology,
Sahyadri Science College,
Shivamogga.

Dr. P Niranjana
Assoc. Professor & Chairman
Department of Biochemistry,
Kuvempu University

Dr. Subba Rao V. Madhunapantula
Professor of Cellular and
Molecular Biology,
JSS AHER, Mysore

All are cordially welcome

 WORLD UNIVERSITY RANKINGS 261- 270	 WORLD UNIVERSITY RANKINGS BY SUBJECT 2023 201- 250 Top 5 in INDIA	 QS I-GAUGE Diamond rated ★★★★★ 5 stars for Excellence	 EFMD EQUIS ACCREDITED QS I-GAUGE 5-Learning Excellence for Academic Department (EQUIS certification 2023)	 THE WORLD UNIVERSITY RANKINGS 2022 351- 400 in INDIA Subject Ranking 93 Clinical & Health 1 st in INDIA	 THE TIMES HIGHER EDUCATION 70 in the WORLD Young University 1 st in INDIA	 Impact Ranking 101-200 SDG 3 - Good Health & Well-being 2 nd in INDIA	 ACPE ACCREDITED COUNCIL FOR PHARMACY & EDUCATION 1 st in the Asia Pacific ACPE certified Pharm.D Program
---	--	---	--	--	--	---	---