



International Conference on Biotechnology, Medicine and Cancer Therapeutics



THE UNIVERSITY OF
ALABAMA AT BIRMINGHAM.

27-29, December-2024



ICBMCT²⁰²⁴

ORGANIZED BY

PROF. K. V. SARITHA, PH.D.

DEPARTMENT OF BIOTECHNOLOGY

SRI VENKATESWARA UNIVERSITY, TIRUPATI-517 502,
ANDHRA PRADESH, INDIA.

&

DR. MALLA MIDHUN, MD., MS

DR. GANJI PURNACHANDRA NAGARAJU, PH.D., D.SC.

DEPARTMENT OF HEMATOLOGY & ONCOLOGY

UNIVERSITY OF ALABAMA AT BIRMINGHAM,

BIRMINGHAM, AL-352 33, USA.

The International Conference is organized by the Department of Biotechnology, Sri Venkateswara University and University of Alabama at Birmingham, USA.

ABOUT SRI VENKATESWARA UNIVERSITY (ACCREDITED WITH A⁺ GRADE BY NAAC)

Sri Venkateswara University, Tirupati was established in 1954 on sprawling campus of 1000 acres with a panoramic and pleasant hill view. This University stands as testimony to the wisdom and foresight of great visionaries Late Sri Tanguturi Prakasam Pantulu, the then Chief Minister of Andhra Pradesh and Late Sri Neelam Sanjeeva Reddy, to cater the educational needs and aspirations of the people of Rayalaseema area. With a great wisdom, the founders of this University have rightly coined the motto “Wisdom lies in proper perspective” for it. The University has grown excellently from strength to stature over the past Seventy years, as premier institute of higher learning under the able and committed leadership of successive Vice-Chancellors starting from Prof. S. Govindarajulu to the present Vice-Chancellor Prof. Ch. Appa Rao. The initiatives taken by the present Vice-Chancellor Prof. Ch. Appa Rao have already started tremendous yielding and excellent results, in terms of research funding, extension activities and thus keeping the University on the right path of excellence. It has gone through greater strides in the transformation of the University with acquiring necessary and modern sophisticated instrumentation to catch up with the world competition in academic and research programmes.

DEPARTMENT OF BIOTECHNOLOGY

Sri Venkateswara University was started two year M.Sc course in Biotechnology during the academic year 1995-96 with the intake of 30 students with thrust areas such as Animal, Environmental, Microbial and Plant Biotechnology. Research programmes such as M.Phil & Ph.D were also started in the same academic year. The Department has significantly expanded the breadth and scope of its activities over the period of 30 years. Its goal has been to train the manpower in the area of Biotechnology to cater the needs of the society. The Department provides rich educational experience to the students that include vigorous theoretical courses and practical related to understand the concepts of Biotechnology. The extensive training in different areas of Biotechnology make the student an appropriate candidate not only to take up teaching or pursuing doctoral research, but also competent enough to work in industries. The faculty members have received advanced overseas training in their respective areas. The faculty members have received grants from UGC, DBT, DST, ICAR, ICMR and CSIR to the tune of Rs. 321 lakhs. Since its inception nearly 70 students have been awarded with Ph.D degrees and published more than 300 research papers in journals of national and international reputation having high impact factor. The students of this department have good placement record across the world.

ABOUT TIRUPATI

Tirupati is known as the temple town and claims its place among one of the spiritual cities in the world. The city is known for the world famous Sri Venkateswara Swamy Temple and other historical palaces. Tirupati is a unique place with several diversified Central and State Universities and Institutes (IIT, IISER, National Sanskrit University, Vedic University, SVIMS, SV Veterinary University, SV Agricultural University, Sri Padmavathi Medical College, and Sri Padmavathi Womens University). Weather in December would be pleasant and peaceful. Temperature will be around 21-24°C.

ABOUT THE CONFERENCE

This international conference aims to bring together leading academic scientists, researchers, and research scholars to exchange and share their experiences and research results on all aspects of Biotechnology, Medicines, Prevention, and Therapy for Cancer and Other Diseases. It provides a premier interdisciplinary platform for researchers, practitioners, and educators to present and discuss the most recent innovations, trends, and concerns as well as practical challenges encountered and solutions adopted in the fields of Biotechnology and Medicinal research, disease prevention, and therapeutic approaches. The conference will feature keynote speeches, oral presentations, poster sessions, and workshops, providing ample opportunities for networking, collaboration, and exchange of ideas among attendees. Researchers, practitioners, policy-makers, and industry professionals are encouraged to participate and contribute to the advancement of knowledge and application of biotechnology and medicine in disease prevention and therapy.

CONFERENCE OVERVIEW

Sri Venkateswara University, India, and the University of Alabama, USA, are delighted to announce the inaugural International Conference on Biotechnology, Medicine, and Cancer Therapeutics. This collaborative event aims to bridge continents and disciplines, bringing together leading researchers, clinicians, and innovators to explore cutting-edge advancements and foster global partnerships in the fields of biotechnology, medicine, and cancer treatment.

CONFERENCE THEMES

Biotechnology Innovations

- Novel Biotechnological Tools and Techniques
- Genomics and Proteomics
- Bioinformatics and Computational Biology
- Applications in Animal, Plant, Agricultural, Microbial, Environmental, and Industrial Biotechnology

Advancements in Medicine

- Personalized Medicine and Genomic Medicine
- Drug Development and Therapeutics
- Medical Devices, Diagnostics and Meta Analysis
- Digital Health and Telemedicine

Cancer Therapeutics

- Targeted Therapies and Immunotherapy
- Chemotherapy and Radiotherapy Advances
- Cancer Prevention and Early Detection
- Challenges in Translational Research

CALL FOR PAPERS

We invite researchers, scientists, and practitioners to submit abstracts for oral and poster presentations. **Selected papers will be published in a special issue of an internationally recognized journal**, providing an opportunity to share your work with a global audience.

ABSTRACT AND POSTER PRESENTATION

Participants are invited to submit their abstracts should reflect one of the major themes of the conference for oral and poster presentations. The authors are requested to include their choice for oral and poster presentations. Abstracts for oral and poster must be no longer than 300 words including title, authors and affiliations. The scientific committee will decide on the suitability of the paper for presentation. The poster should contain the title, author (s) name, affiliation (s) and address (s). The size of the poster should be with a dimension of 3 feet height X 3 feet width. Poster should be in one piece either in flexi or laminated sheet. Each oral presentation by the participants is restricted to 10 min only including discussion. Best in oral and poster presentations in each theme made during the international conference will be awarded during valedictory function. Acceptance of the submissions for presentation will be communicated to the corresponding author. An official letter of invitation will be sent to foreign delegates for obtaining visa to attend the conference.

REGISTRATION FEE

Research Scholars and Students Faculty and Scientists	: Rs. 2,000/-
	: Rs. 2,500/-
Delegates from Industry and Public Sector	: Rs. 3,000/-
Accompanying persons	: Rs. 1,000/-
High School Students (Indian)	: Rs. 500/-
International Students	: \$50.00

BANK ACCOUNT DETAILS "CONVENER, ICBMCT-2024"

Account Number	: 103212010001229
Bank	: Union Bank of India
Branch	: Sri Venkateswara University Campus
IFSC Code	: UBIN0810321
MICR Code	: 517026058
Swift Code	: UBININBBTPT

FOR REGISTRARION

<https://forms.gle/udfczU9KXxXXmETM9>



FOR FEE PAYEMNT

Scan & Pay



ACCOMMODATION TARIFF/DAY

University Guest House (For Invited Delegates Only)	: Rs. 1000/-
Single Bed Room (Home Stay With A/C)	: Rs. 2,500/-
Double Bed Room (Home Stay With A/C)	: Rs. 4,000/-

IMPORTANT DATES

Abstract Submission Last Date	: 15th, November, 2024
Acceptance of Abstracts	: 16th, November, 2024
Registration Last Date	: 16th, November, 2024
Accommodation Request	: 16th, November, 2024

TRAVEL ARRANGEMENTS

Regarding internal travel, the participants are requested to contact the local organizers of the International Conference.

EXPO ON BIOTECHNOLOGY

International conference is also a platform for Biotechnology Expo held on the same dates in the premises of the conference so as to serve as platform for buyers and sellers participating in the conference.



ORGANIZING COMMITTEE

CHIEF PATRON

Prof. Ch. Appa Rao
Hon'ble Vice-Chancellor
Sri Venkateswara University
Tirupati-517502, A.P., India.

PATRONS

Prof. K. T. Ramakrishna Reddy
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Sri Venkateswara University.

Prof. M. Bhupathi Naidu
Registrar
Sri Venkateswara University.

Prof. O.V.S. Reddy
Principal
SVU College of Pharmacy
Sri Venkateswara University.

CONVENERS

Dr. K. V. Saritha, Ph.D.
Professor & Head
Department of Biotechnology
Sri Venkateswara University
Tirupati-517502, A.P. India.

Dr. Malla Midhun, MD., MS
Associate Professor,
Section Chief, GI Medical Oncology

Dr. Ganji Purnachandra Nagaraju, Ph.D., D.Sc.
Assistant Professor
University of Alabama at Birmingham
Birmingham, AL-352 33, USA.

SVU ORGANIZING COMMITTEE

Prof. S.D.S Murthy
Head, Department of Biochemistry

Prof. G. Madhavi
Department of Chemistry

Prof. G. Narasimha
Department of Virology

Prof. M. Rajasekhar
Head, Department of Zoology

Prof. M. Nagalakshmi Devamma
Head, Department of Botany

Prof. K. Manjula
Head, Department of Home Science

Prof. Ch. Paramageetham
Department of Microbiology

Prof. T. Damodaram
Head, Department of Environmental Sciences

Prof. K. Surendranadha Reddy
Head, Department of Anthropology

Prof. P. Nagajyothi
Head, Department of Fishery Science &
Aquaculture

Prof. M. Charitha Devi
Department of Virology

Prof. M. Hema
Department of Virology

Prof. T. Vijaya
Department of Botany

Prof. M. Balaji
Department of Biochemistry

Prof. S. Kishore
Department of Zoology

Prof. K. Kodanda Reddy
Department of Anthropology

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Department of Home Science

Dr. Y. Sunitha
Department of Zoology

Dr. J. Kamakshamma
Department of Botany

Dr. K. Venkata Subbaiah
Research Scientist, DST-PURSE Centre

Dr. Y. Subba Rao
Research Scientist, DST-PURSE Centre

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CONTACT DETAILS

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EMINENT RESOURCE PERSONS



Prof. Bassel F. El-Rayes, M.D.,
Deputy Director of the UAB O'Neal Comprehensive Cancer Center,
Director of the Division of Hematology & Oncology
Department of Medicine
University of Alabama at Birmingham
Birmingham, AL, USA.



Prof. Benjamin E. Bonavida, Ph.D
Professor Emeritus and Distinguished Research Professor
University of California,
Los Angeles (UCLA), USA.

Topic: Pancreatic Cancer: Old and New Therapeutic Advances

Topic: Novel Therapeutic Targeting the Overexpressed YY1 Oncogene in Most Human Resistant Cancers



Prof. Sarfraz Ahmad, Ph.D., FAACC., FABAP
Director of Clinical Research at
Advent Health Cancer Institute
Orlando, FL, USA.



Prof. Bin Ren, M.D., Ph.D., FAHA
William D. Jordan, Jr. M.D., Endowed Professor in Vascular Sciences
Department of Surgery
University of Alabama at Birmingham
Birmingham, AL, USA.

Topic: Impact of Lifestyle Interventions on Gynecologic Cancers : Beyond Diet and Exercise

Topic: Arteriolar Angiogenesis in Cancer and Cardiovascular Disease



Prof. Riyaz Basha, Ph.D., FADLM
Vice Chair for Research
Department of Pediatrics and Women's Health
Texas College of Osteopathic Medicine
UNT Health Science Center,
Fort Worth, TX, USA.



Dr. Midhun Malla, MD., MS
Associate Professor
Section Chief, GI Medical Oncology
School of Medicine, Hematology & Oncology The University of
Alabama at Birmingham, Birmingham, AL-352 33, USA.

Topic: Efficacy of Curcumin and Clotam Combination of Inhibiting Pancreatic Cancer Cell Growth

Topic: Keynote Speaker



Dr. Irina Nakashidze, Ph.D
Associate Professor
Faculty of Natural Science and Health Care
Batumi Shota Rustaveli State
University, Batumi, Georgia.



Dr. Ashiq Masood, MD.
Associate Professor of Medicine
Department of Medicine
Division of Hematology/Oncology
IU School of Medicine
Indianapolis, IN 46202, USA.

Topic: VDR Gene SNP and Thyroid Disease / Lipid and Hormonal Profile Alteration within Woman Tumor

Topic: Decoding Gastrointestinal Cancers: Insights from Single-Cell and Spatial Transcriptomics



Dr. Hind Lal, Ph.D
Associate Professor
Division of Cardiovascular Disease
Department of Medicine
University of Alabama at Birmingham
Birmingham, AL, USA.



Dr. Batoul Farran, Ph.D
Senior Scientist
Department of Hematology/Oncology
Henry Ford Health,
Detroit, MI, USA.

Topic: Mechanism of Cardio Toxicity Induced by CML-Targeted Tyrosine Kinase Inhibitors

Topic: Triple Negative Breast Cancer Resistance in Women with African Ancestry



Dr. Hari Kishore Pennaka, Ph.D
Vice President
Tjaden Biosciences LLC
1207, Lucas Avenue
Burlington, IA, USA.



Dr. Aruna Badiga, Ph.D
Director of Quality-Regulatory Compliance,
Johnson & Johnson Medtech,
Boston, Massachusetts, USA.

Topic: Radioactive [¹⁴C] Organic Synthesis in Advanced Research/Drug Discovery

Topic: In Vitro-Diagnostics and Cancer Detection



Dr. Tousif Sultan, Ph.D
Instructor
Division of Cardiovascular Disease
Department of Medicine
University of Alabama at Birmingham
Birmingham, AL, USA.



Dr. Madhu Sudhana Saddala, Ph.D
Scientist
Bioinformatics, Genomics and
Proteomics
University of California
Irvine, CA, USA.

Topic: Unresolved Inflammation: A Catalyst for Adverse Cardiac Remodeling and Dysfunction

Topic: ClearSeqExtend: Integrating Ambient RNA Correction with Advanced Single Cell Analysis Tools



Dr. Bharath Prithivi Raj
Senior R&D Scientist, Microbiome Health Science Platforms,
Reckitt Health, Montvale, New Jersey, USA



Dr. Richa Bajpai Ph.D
Scientist
St. Jude Children's Research Hospital, Memphis, Tennessee, USA.

Topic: Emerging Antimicrobial Resistance risks and the case for data driven biosurveillance in a One Health community paradigm

Topic: The CRISPR Tool kit: Gene Editing and Beyond

EMINENT RESOURCE PERSONS



Professor (Dr) A K Das Mohapatra
Former Professor of Business Administration, Sambalpur University, Odisha 768019, India; and former Vice-Chancellor, Odisha State Open University, Sambalpur, Odisha, India.



Prof. A. Bindu Madhava Reddy, Ph.D.
Department of Animal Biology
School of Life Sciences
University of Hyderabad
Gachibowli, Hyderabad-500046
Telangana, India.

Topic: Protection of 'Intellectual Property' through Patents- The way forward

Topic: RUNX in Metabolism and Disease



Prof. RamaRao Malla, Ph.D.
Cancer Biology Laboratory
Dept Life Sciences
GITAM School of Science,
GITAM (Deemed to be University)
Visakhapatnam-530045, A.P., India..



Prof. Sujatha Peela, Ph.D.
Registrar
Department of Biotechnology,
Dr. B.R. Ambedkar University,
Srikakulam 532410, A.P., India.

Topic: Repurposing pyrimidine nucleoside analogues for Triple Negative Breast cancer

Topic: Clinical, Histological, Biochemical and Molecular Factors in Post-Surgical Focal Epilepsies



Prof. PSP Dhanunjay Ph.D.
Chair Professor
Dept. of Biotechnology
Advanced Science Bhavan
Andhra University
Visakhapatnam-533003, A.P., India.



Prof. K. Mallikarjuna, Ph.D
Head, Dept. of Botany and Microbiology
Acharya Nagarjuna University.
Guntur, AP., India.

Topic: Role of Artificial Intelligence in Biotechnology

Topic: Investigation of Gamma Radiation-Induced Mutagenesis in Chlamydomonas



Dr. P.V.G.K. Sarma, Ph.D
Head, Department of Biotechnology
SVIMS University
Tirupati-517507, A.P., India.



Dr. Sivakumar Vallabhapurapu, Ph.D.
Associate Professor
Biology
Indian Institute of Science Education and Research
Tirupati-517619, A.P., India.

Topic: Therapeutic potential of stem cells in the regenerative medicine

Topic: Identification of a novel downstream effector for JAK-STAT pathway in the survival of Multiple Myeloma cells



Dr (Mrs) Smaranika Pattnaik, Ph.D.
Associate Professor
School of Life Sciences
Sambalpur University
Jyoti Vihar, Burla 768019
Odisha, India.



Dr. T. Chandrasekhar, Ph.D.
Associate Professor
Department of Environmental Sciences
Yogi Vemana University
YSR Kadapa-516005, A.P., India.

Topic: Genomics of *Salmonella enterica* (MRWB2) flagella epitopes using WGS approaches

Topic: Algae: The hub of biohydrogen, bioethanol and biodiesel



Dr. V. Ramakrishna, Ph.D.
Associate Professor
Dept. of Biotechnology & Bioinformatics
Yogi Vemana University
YSR Kadapa - 516005, A.P., India.



Dr. S. Prasanth Jeevan Kumar, Ph.D.
Sr. Scientist (Agricultural Biotechnology)
ICAR-Directorate of Floricultural Research,
Zed Corner, Mundhwa Manjri Road,
Mundhwa Pune 411036, Maharashtra,
India.

Topic: Targeting Cancer Stem Cells by Dietary Bioactives in the Prevention of Colon Cancer

Topic: Nutraceuticals from flower crops: Potential Implications in Health Sector



Dr. Seshadri Reddy Varikasuvu, Ph.D.
Associate Professor
Department of Biochemistry
AIIMS Deoghar Devipur,
Jharkhand-814152, India.



Dr. Manoj Kumar Gupta, Ph.D
Post doc
Department of Hematology, Hemostaseology,
Oncology and Stem Cell Transplantation
Hannover Medical School
Carl-Neuberg-Str. 1
30625 Hannover, Germany.

Topic: Meta-analysis of cancer studies in Evidence Based Medicine

Topic: Impact of Phytochemical Components on Type -2 Diabetes Mellitus - A Computational Exploration