

# JSS Academy of Higher Education & Research

(Deemed to be University) Accredited 'A++' Grade by NAAC  
Sri Shivarathreshwara Nagara, Mysuru - 570 015

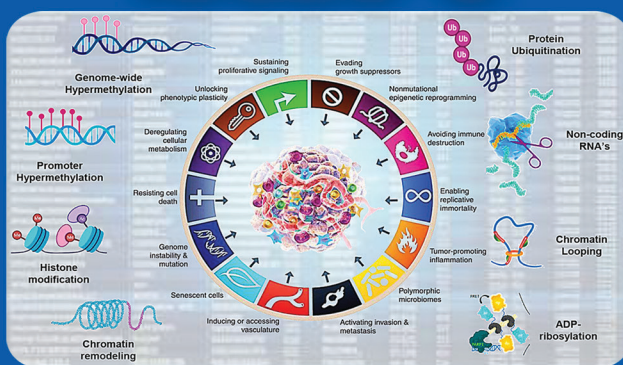
**Anusandhan National Research Foundation (ANRF) Supported**

## 2<sup>nd</sup> International Conference on Genetics and Epigenetics of Cancer

with focused theme on

**Artificial Intelligence-based Diagnostics and Treatment Approaches**

### ICGEC-2



Jointly Organized by

**Division of Biochemistry, School of Life Sciences, Mysuru**

JSS Academy of Higher Education & Research, Mysuru - 570015

&

**Department of Biochemistry and Department of Medical Genetics**

**JSS Medical College, Mysuru**

**30<sup>th</sup> & 31<sup>st</sup> October, 2025, Mysuru, Karnataka, India**  
**Venue : Sri Rajendra Auditorium, JSS Medical College**  
**JSS AHER, Mysuru**



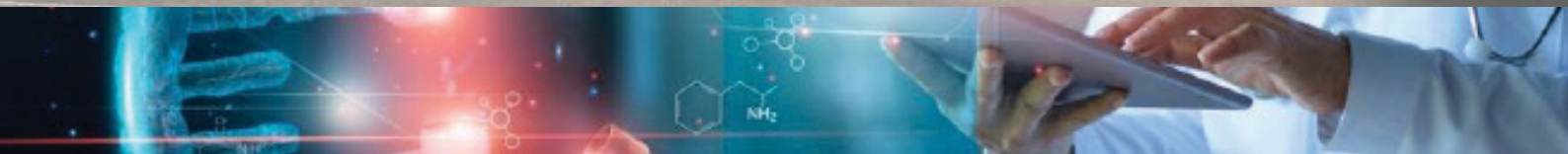


## About the University

### JSS Academy of Higher Education & Research (JSS AHER)

JSS Academy of Higher Education & Research (JSS AHER), formerly known as JSS University, was established in the year 2008 under Section 3 of the UGC Act 1956 and accredited by NAAC with A<sup>++</sup> Grade and ranked 24<sup>th</sup> by NIRF, Ministry of Education, Govt of India. JSS AHER has four constituent colleges - JSS Medical College, JSS Dental College and Hospital, JSS College of Pharmacy, Mysuru and JSS College of Pharmacy, Ooty. In addition, JSS AHER has departments, Schools & Faculty to outreach activities by establishing departments of Water and Health (2011) and Health System Management Studies (2012). With a view to expand the horizons in the field of Basic Health Science, School of Life Sciences Department 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. The Deemed to be University has been focusing on teaching, research, and health services since its inception.

JSS AHER having embraced 'Globalization' 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 hospital, Mysuru. The hospital provides services to a population of about 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.







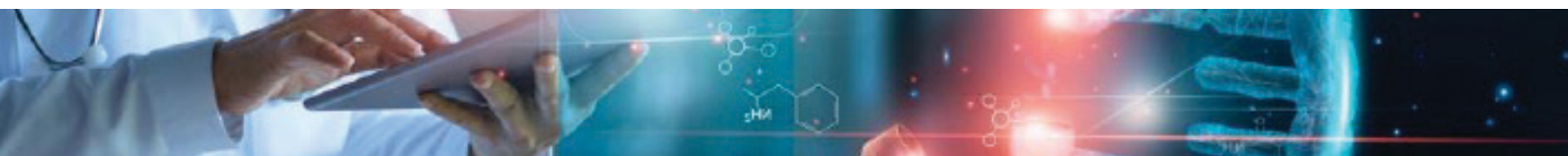
## About the School of Life Sciences, Mysuru

The School of Life Sciences (SLS), was established in the year 2013 with the Divine blessings of His Holiness Jagadguru Sri Shivarathri Deshikendra Mahaswamiji, The Chancellor of JSS Academy of Higher Education & Research, Mysuru. The school stands today as a unique institution in the country known for multidisciplinary and interdisciplinary teaching and research in life sciences. The SLS is enunciated in the JSS Academy of Higher Education & Research Strategic Planning Framework. It has a vision and a mission of achieving national and international distinction while strengthening local relevance. The unique courses offered with National Education Policy 2020 covers a wide spectrum of biological, biomedical, and environmental sciences with several interdisciplinary research areas. In addition, many value-added programs have been initiated in the SLS, Mysuru to further provide additional knowledge, which is in alignment with United Nations Sustainable Developmental Goals (UN-SDGs).

## About the Division of Biochemistry

Division of Biochemistry was established in the year 2014 under the Faculty of Life Sciences. Currently, the division is offering undergraduate (B.Sc.) and postgraduate (M.Sc.) programs in Biochemistry. The curriculum delivers in-depth knowledge in Biochemistry from basics to advanced applications in Life Sciences and Health Sciences. It is designed and upgraded based on suggestions / demands of the stakeholders including students, academic/ research/ industrial experts. We offer a range of specialized/ optional modules that foster their academic/ research/ career interest. Special interest is also taken to nurture Life Sciences Skill Sets for more Employability and Entrepreneurship. In addition, curricular (Science events) and co-curricular (cultural/ sports/ NSS) activities are organized time-to-time to facilitate the holistic growth of the students.

The Division also offers Doctoral and Post-Doctoral Programs focused on thrust areas of research viz., Cancer Biology & Green Nanomedicine, Neuroimmunology, Snake Venom Pharmacology, Mitochondrial Metabolism, Detoxification, Hypertension, Cardiovascular and Pulmonary Medicine, Plant Physiology, Molecular Biology and Biochemistry, Biotic Stress Studies. The staff of Division of Biochemistry has received many research grants from DST-SERB, DBT-BIRAC, DST-WOS-A, ICMR, UGC and NIPER for conducting various research studies and published papers in high impact peer reviewed journals







# Programmes offered @ School of Life Sciences Mysuru

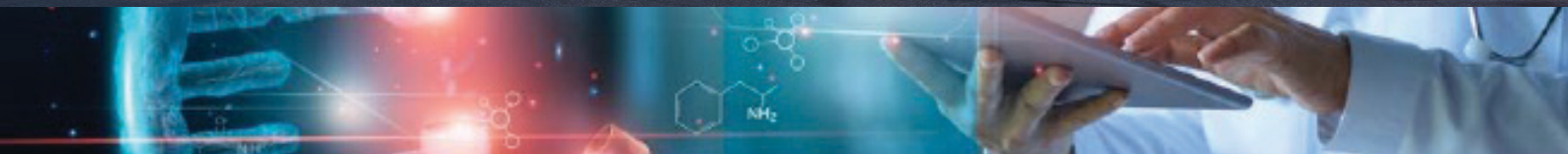
## JSS Academy of Higher Education & Research Mysuru

**B.Sc (General- 3 years/Honours- 4 Years)**

1. Biochemistry
2. Microbiology
3. Environmental Sciences
4. Food, Nutrition & Dietetics
5. Psychology
6. Biotechnology
7. Statistics & Data Analytics
8. Computational Biology & Bioinformatics

**M.Sc**

1. Biochemistry
2. Environmental Sciences
3. Geoinformatics
4. Nanoscience & Technology
5. Nutrition & Dietetics
6. Molecular Biology
7. Cognitive Neuroscience
8. Microbiology
9. Medical Statistics
10. Bioinformatics
11. Cosmetic Sciences
12. Sports, Nutrition & Management
13. Biotechnology
14. Medical Physics
15. Master of Library & Information Sciences (M.Lib & Info. Sc)







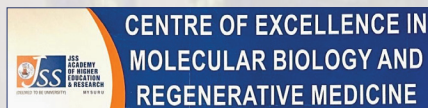
## Center of Excellence in Molecular Biology and Regenerative Medicine (CEMR)

Established in 2012 with partial support from the Vision Group on Science and Technology (VGST), Government of Karnataka, the Center of Excellence in Molecular Biology and Regenerative Medicine (CEMR) at JSS Medical College, under JSS Academy of Higher Education & Research (JSS AHER), has completed an impactful twelve-year journey.

Recognized as a “Center of Excellence” by VGST and supported by the Department of Science and Technology, Government of India, under the FIST program, CEMR has grown into a leading hub for cutting-edge biomedical research. In 2023, the Indian Council of Medical Research (ICMR) designated CEMR as a Collaborating Center of Excellence (ICMR-CCoE). The center has also attracted three recipients of the prestigious Ramalingaswami Fellowship from the Department of Biotechnology, Government of India.

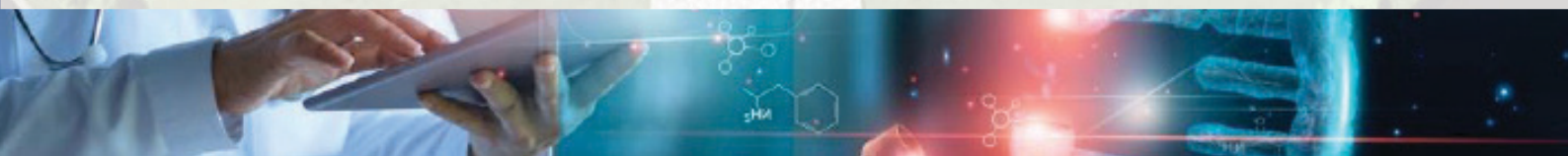
Over the years, CEMR has nurtured research within JSS AHER and its constituent institutions, while also serving scientists and scholars from across India and abroad. Several of its doctoral graduates now hold positions in premier academic institutions and industries worldwide. The center has secured research funding worth crores of rupees from national and international agencies, and its members have published extensively in high-impact, peer-reviewed journals. Current scholars are supported by competitive fellowships from ICMR, DST, DBT, CSIR, and other government organizations.

Equipped with state-of-the-art facilities for gene manipulation, cell and tissue imaging, RNA and protein expression analysis, diverse cell culture, phytochemical analysis, and drug screening assays, CEMR continues to be a preferred destination for researchers aiming to advance in molecular biology and regenerative medicine.



### Equipments/Instruments available

Particulars	Company
High performance liquid chromatography	Shimadzu
Nucleocounter	Chemometec
4D- Nucleofector	Lonza
Thermocycler	TP 350-Takara
Gel documentation system	Platinum Q9-WL+UVBOX 26MQ9
Fluorescent microscope	Axio Imager Z2
Lyophilizer	Labmate
Rotavapor	Buchi
Concentrator unit (speed vac)	Eppendorf
RT-PCR	Qiagen
Nanodrop	DS-11 + Spectrophotometer
Ultra-High Performance Liquid Chromatography	Agilent infinity III
Multimode plate reader	Perkin elmer
Biosafety cabinet	1300 Series A2 Class II, Type II
CO2 incubator	Thermo scientific
-80°C Deep freezer	U725-86 & ThermoScientific -TDE series
Liquid nitrogen tank	IC 35D Storage Dewar & Director D-4000
Refrigerated centrifuge	5430R & Sorva11 ST 8R
Water purification system	Merck - Millipore





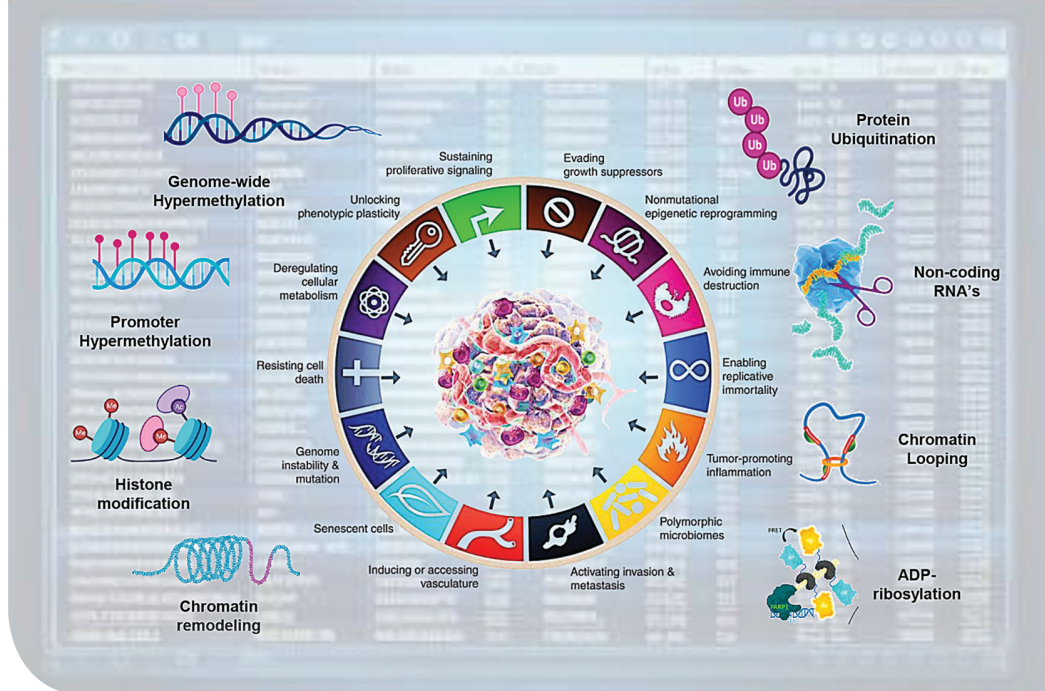


## About the Conference

### Background

The lifetime risk of developing cancer in India is increasing at alarming rates. Currently one in every nine individuals are at risk of developing cancer in their lifetime. The National Cancer Registry Programme projected the number of cancer cases to reach 15.7 lakh by the end

of this year i.e., 2025. Therefore, effective strategies for cancer prevention, control, and treatment through early detection, risk reduction, advancements in drug development and the integration of precision medicine are crucial. Both genetic and epigenetic factors play key roles in the initiation and progression of cancer by disrupting cellular functions and modifying gene expression. Understanding these mechanisms is vital for developing cancer therapies. Additionally, Artificial Intelligence (AI) is transforming oncology by enhancing diagnostic accuracy, predicting treatment responses, supporting drug discovery, and enabling personalized treatment strategies. Collectively, these advances are accelerating progress in cancer research, diagnosis, and helping in developing more selective therapies.

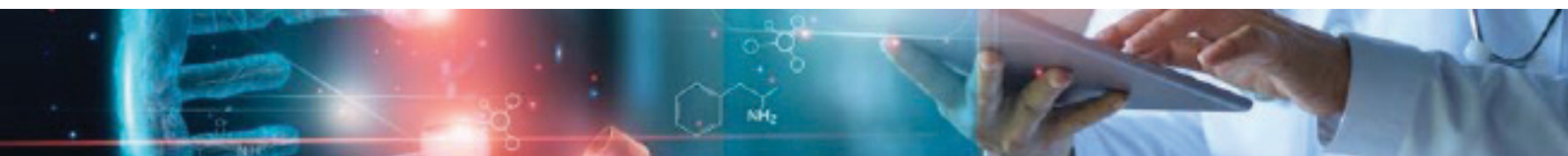


### Concept and purpose

The objective of this conference is to provide most recent concepts in the areas of genetics and epigenetics of various cancers and the application of AI in cancer diagnosis and treatment. With a focus on the most recent advancements, the conference features a diverse choice of presenters and speakers from renowned institutions and organizations in India. The two-day scientific convention fosters the development of enduring scientific communities and building research collaborations. In addition to the keynote addresses, the conference also features oral/poster presentations. Additionally, it provides an opportunity for networking with eminent scientists in the field.

The conference focuses on the transformative role of AI in cancer diagnosis and treatment. With the rise in biomedical data, AI enables early and accurate cancer detection through advanced imaging, supports informed therapeutic decisions, and accelerates drug discovery via data integration and predictive modelling. Machine learning helps identify disease patterns and predict treatment responses, paving the way for personalized therapy. Recent breakthroughs in AI-driven diagnostic tools, drug discovery and decision support will be featured in this conference.

Addressing the challenges in advancing next-generation cancer genomics research and effectively integrating the vast and complex cancer genomics datasets is another key focus of this conference. The event is expected to be of significant interest to cancer researchers, molecular biologists, and bioinformaticians who aim to incorporate the latest genetic and epigenetic discoveries into their cancer studies.





## List of key-note Speakers / Resource Persons



### **Dr. L S Shashidhara**

Director of NCBS  
National Centre for Biological Sciences (NCBS-TIFR)  
Bangalore, Karnataka, India



### **Dr. Jamboor K. Vishwanatha**

Regents Professor and Vice President  
Institute for Health Disparities  
University of North Texas Health Science Center  
3500 Camp Bowie Blvd Fort Worth, TX 76107, USA



### **Dr. Riyaz Basha**

Director of Research  
University of North Texas, USA



### **Dr. Rana P Singh**

Vice-Chancellor  
Gautam Buddha Univ (GBU), Gr. Noida, U.P



### **Dr. Mahalingam S**

Professor, Department of Biotechnology  
Indian Institute of Technology Madras (IIT), Chennai 600 036



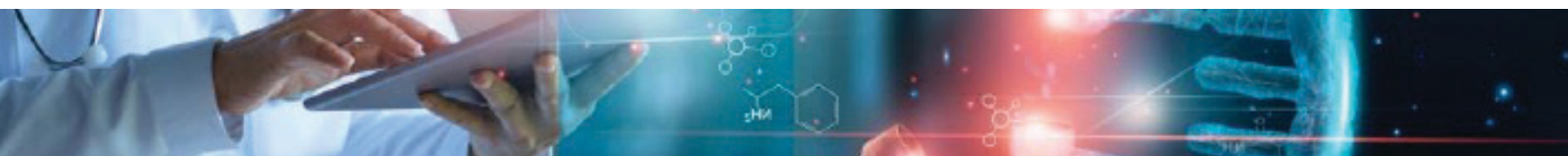
### **Dr. Amith Dutt**

Professor & Tata Innovation Fellow  
Integrated Cancer Genomics Laboratory  
Department of Genetics (Biotech Centre)  
University of Delhi, Benito Juarez Marg, New Delhi-110021



### **Dr. Giriraj R Chandak**

Sir JC Bose Fellow, CSIR-CCMB, Hyderabad





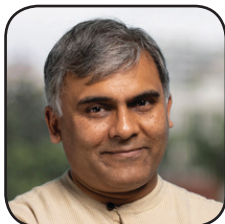


## List of key-note Speakers / Resource Persons



### **Dr. Jayasri Das Sarma**

Professor, Department of Biological Science  
Indian Institute of Science Education and Research (IISER) - Kolkata



### **Dr. Kundan Sen Gupta**

Professor, Department of Biology  
Indian Institute of Science Education and Research (IISER), Pune



### **Dr. Ritu Kulshreshtha**

Professor & Head  
Department of Biochemical Engineering and Biotechnology  
IIT Delhi



### **Dr. Paturu Kondaiah**

Professor, Dept. of Developmental Biology and Genetics  
Indian Institute of Science, Bangalore - 560012, India



### **Dr. Annapoorni Rangarajan**

Dept. of Developmental Biology and Genetics  
Wellcome Trust/DBT India Alliance Senior Research Fellow  
Indian Institute of Science, Bangalore, 560012



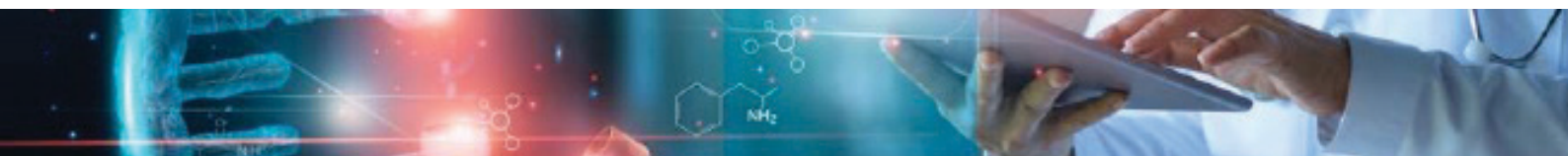
### **Dr. Tulika P Srivastava**

Professor, School of Biosciences and Bioengineering  
Indian Institute of Technology, Mandi  
Kamand, Mandi - 175005, Himachal Pradesh, India



### **Dr. Akila Prashant**

Professor & Head, Center for Medical Genomics and Counselling &  
Center of Excellence in Molecular Biology and Regenerative Medicine  
Department of Biochemistry, JSS Medical College  
JSS Academy of Higher Education and Research, Mysore - 570015







## Organizing Committee

### Chief Patron

**His Holiness Jagadguru Sri Shivarathri Deshikendra Mahaswamiji**

Jagadguru Sri Veerasimhasana Mahasamsthana Math, Suttur Srikshethra

Chancellor, JSS Academy of Higher Education & Research

### Patron

**Dr. C.G. Betsurmah**

Executive Secretary

JSS Mahavidyapeetha

### Co-Patrons

**Dr. B. Suresh**

Pro Chancellor

JSS Academy of Higher

Education & Research

**Dr. H. Basavanagowdappa**

Vice Chancellor

JSS Academy of Higher

Education & Research

**Dr. B. Manjunatha**

Registrar, JSS Academy of Higher

Education & Research

### Scientific Advisors

**Dr. Prashant M. Vishwanath**

Dean (Research)

JSS Academy of Higher

Education & Research

**Dr. Vishal Kumar Gupta**

Dean (Academics)

JSS Academy of Higher

Education & Research

### Conveners

**Dr. Raveesha K.A**

Dean, School of Life Sciences,

Mysuru, JSS AHER

**Dr. Akila Prashant**

Head, Dept. of

Biochemistry, JSS MC

JSS AHER

**Dr. SubbaRao**

**Madhunapantula**

Professor, CEMR

Laboratory, JSS MC

JSS AHER

### Organising Secretaries

**Dr. J.R. Kumar**

Course Coordinator &

Organizing Secretary

Division of Biochemistry, SLSM

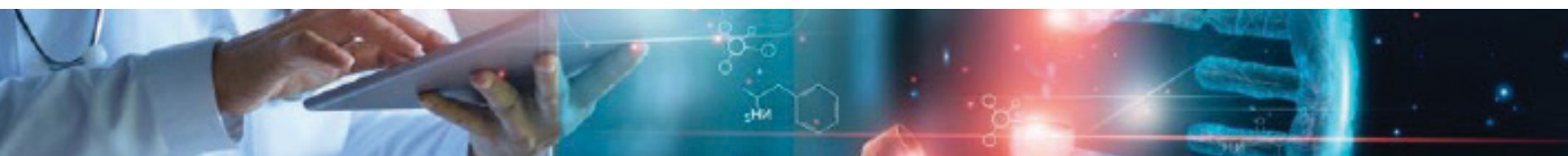
JSS AHER

**Dr. D. Guru Kumar**

Convener & Organizing Secretary

Division of Biochemistry, SLSM

JSS AHER







### Scientific Committee

Dr. Suma M N  
Dr. Rajesh Kumar T  
Dr. Praveen Kumar K S  
Dr. Siddesha J M  
Dr. Prasanna Kumar S  
Dr. Gopenath T S  
Dr. Kanthesh B M

Dr. Shobha C R  
Dr. Asha Srinivasan  
Dr. Shivaraju H P  
Dr. Suvilesh K N  
Dr. Preethi G A  
Dr. L H Zonunsiami  
Ms. Sahana S

### Registration, Anchoring, Stage and Audio-Visual Committee

Dr. Kusuma K S  
Dr. Divya Prasanna Kumar  
Dr. Shailasree Sekhar  
Dr. Shiva S  
Dr. Ashwini P  
Dr. Nagalambika Prasad  
Dr. Prince Jacob  
Dr. Rashmi D

Dr. Yashswini Devi  
Dr. Phanindra Bhaskar Sharma  
Ms. Harshitha  
Ms. Sneha S  
Ms. Sushmitha A  
Dr. Arpitha M R  
Dr. Karthik Kanakoor  
Ms. Nisha

### Travel and Accommodation

Dr. Wilson Joel Rodrigues  
Dr. Sathisha A D  
Dr. Satish Kumar J  
Mr. Pramod N  
Dr. Jagadeesha T V  
Mr. Manju H C

Dr. Sahana K R  
Dr. Supriya Bevinakoppamath  
Mr. Prabhu Swamy S  
Mr. Mohan Krishna G K  
Mr. Nithin M

### Catering Committee

Sri S.R. Sathishchandra – AO JSS MC  
Mr. Veerabhadraswamy AAO SLSC  
Dr. Shanmukhappa B Kagineelli  
Dr. Bheemaraju E  
Dr. Anil Kumar K M  
Dr. Jagadeesh T V  
Dr. Anshu Kumar Yadav

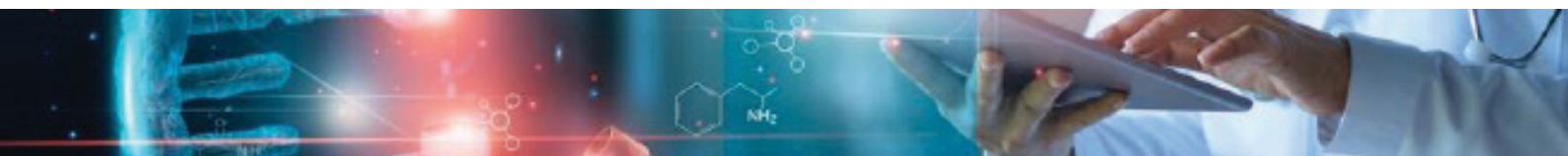
### Finance Committee

Ms. Shilpa. P - AAO JSS MC  
Mr. Veerabhadraswamy AAO SLSC  
Dr. Sujatha P  
Dr. Anjali Devi B S  
Dr. Swetha N K  
Mr. Madesh N (JSS AHER Guest house)  
Ms. Madalambike

### Registration

#### Early Bird Registration (Till 30<sup>th</sup> September 2025)

Sl.No.	Participant	Amount with 18% GST
1.	Students & Research Scholars	2360/-
2.	Research Associates/ Post Doctoral Fellows	3540/-
3.	Faculty	4720/-
4.	Industry (Start- ups/ Private)	9440/-
5.	Foreign Delegates	100 USD





* Late Registration (1st October – 15th October 2025)		
Sl. No.	Participant	Amount with 18% GST
1.	Students & Research Scholars	2950/-
2.	Research Associates/ Post Doctoral Fellows	4720/-
3.	Faculty	5900/-
4.	Industry (Start- ups/ Private)	11800/-
5.	Foreign Delegates	150 USD
Spot Registration (30th and 31st October 2025)		
Sl. No.	Participant	Amount with 18% GST
1.	Students & Research Scholars	3540/-
2.	Research Associates/Post-Doctoral Fellows	5900/-
3.	Faculty	7080/-
4.	Industry (Start- ups/ Private)	14160/-
5.	Foreign Deligates	200 USD

### Abstracts can be submitted in the following thematic areas

- Precision Medicine
- Genetics and Genomics
- Epigenetics and Mechanisms
- Nutrition and Epigenetics
- AI and ML in Cancer Diagnosis and Treatment
- Pharmaceutical agents Development and Delivery
- Cancer Biology and Cancer Stem Cells
- Molecular mechanisms of drugs
- Synthesis and Characterization of Anti-Cancer Agents
- Bioactivity-guided isolation and characterization of anti-cancer agents
- Alternate Models of Cancer
- Molecular Epidemiology of Cancer
- Molecular Docking
- Indian Ayurveda system in Cancer Therapy
- Prenatal Diagnosis of Cancer
- Cancer Nanotheranostics

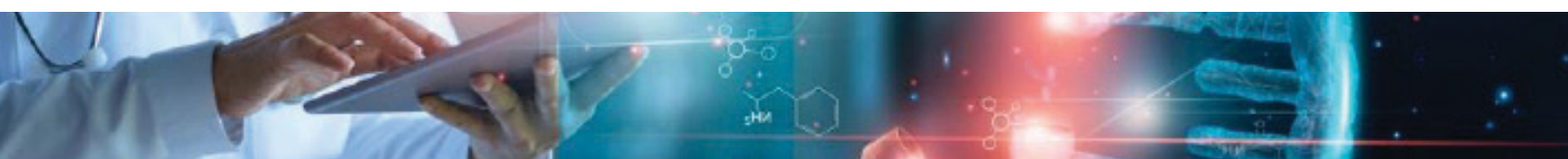
### Abstract Format

Abstract (250 words excluding title, authors and author affiliations, Font to be used in the abstract: Arial)

- Title (Font size: 14 bold)
- Authors and affiliations (Font size: 12; Underline and bold the presenting author)
- Keywords- Minimum four keywords
- Corresponding author (Font size-12; Provide affiliation and contact details)
- Background
- Materials and Methods
- Results and Discussion
- Conclusions
- Last Date for Submission of Abstract: 15<sup>th</sup> October 2025**

*\*Prior registration is mandatory to submit the abstract.*

***\*Abstract submissions after 30<sup>th</sup> September 2025 till 15<sup>th</sup> October 2025 are considered late submissions and will be subjected to additional registration fees as detailed in Late Registration (1<sup>st</sup> October – 15<sup>th</sup> October 2025). No Abstract will be accepted after 15<sup>th</sup> October 2025.***







Poster dimension

Feet 3

Feet 4

For Registration  
Scan this QR Code



Note: At the time of abstract submission,  
the presenting author has to provide the registration details to the

***E-mail: [icgec2025@jssuni.edu.in](mailto:icgec2025@jssuni.edu.in)***

**For any additional information contact:**

**Dr. D. Guru Kumar**

[gurukumard@jssuni.edu.in](mailto:gurukumard@jssuni.edu.in) | 9844841983

**Dr. SubbaRao V. Madhunapantula**

[madhunapantulas@yahoo.com](mailto:madhunapantulas@yahoo.com) | 8105278621

### About Mysuru city

Mysuru is a cultural capital of Karnataka and is well known for its heritage structures and palaces. Mysuru is located at the foothills of Chamundi Hills, Mysuru State. Mysuru is well known for Mysuru Dasara, State festival of Karnataka. The cultural city is also famous for Mysore silk sarees, Mysurupak, Mysore Peta, Mysore Sandal Soap, etc.

### Local Sightseeing and Tourist Places to Visit in and around Mysuru

Distance (km.) from City Bus Stand (CBS)

#### Chamundi Hills

Distance from  
CBS: 12 km



#### St. Philomena's church

Distance from  
CBS: 3.4 km.



#### Mysore Zoo

Distance from  
CBS: 2.7 km



#### Karanji Lake

Distance from  
CBS: 3.5 km



#### Mysuru Palace

Distance from CBS: 750m



#### Folklore museum

Distance from  
CBS: 4.2 km



#### Brindavan Garden

Distance from  
CBS: 20 km

