



National Conference on “Recent Trends in Plant Biology”

5th – 7th September, 2022

**CSIR – INDIAN INSTITUTE OF INTEGRATIVE MEDICINE, JAMMU
BRANCH LABORATORY, SANAT NAGAR, SRINAGAR**

Thematic Areas

- Plant Secondary Metabolic Networks
- Drug Discovery from Small Molecules
- Gene Expression and Regulation
- Plant Abiotic Stress
- Plant - Microbe Interaction



VENUE: Sher-i-Kashmir International Convention Centre (SKICC), Srinagar

About CSIR-IIIM (Branch, Srinagar)

Indian Institute of Integrative Medicine (IIIM), Jammu (formerly RRL, Jammu) is a state of the art laboratory under the aegis of Council of Scientific and Industrial Research (CSIR), Union Ministry of Science and Technology, Government of India. CSIR-IIIM, Jammu has its branch located in the Sanat Nagar suburbs of the picturesque Srinagar city. From the very inception, this institute has contributed immensely towards social betterment/upliftment by fostering human resource development as well as setting up small scale industries. Currently the main focus of the institute is to harness the unique bio-diversity of Kashmir valley with special emphasis on medicinal plants and microbial resources for drug development. The process involves multidisciplinary scientific teams which include plant and microbial biologists, natural and synthetic chemists, biotechnologists, molecular biologists and pharmacologists from specialized backgrounds. In addition, the Institute contributes immensely in extending technical know-how to local farmers in advanced farming and propagation of various medicinal and aromatic crops.



About National Conference at IIIM Branch, Srinagar

We are organizing a National Conference on the theme “Recent Trends in Plant Biology” from September 5th to 7th, 2022 at Sher-i-Kashmir International Convention Centre (SKICC), Srinagar. The main objective of the conference is to bring together plant biologists across the country to deliver inspiring talks and share their latest research experiences. Given the vast abundance of talent in our valley, we believe the conference will be a means of participation of young students and scientists of the country with the aspiring researchers of Jammu and Kashmir. This conference will provide an ideal platform to inspire the youth of the country towards science and will be a means to foster research collaborations.

Programme Details

DAY 1 (5th Sep, 2022)

8:00 AM – 9:00 AM: REGISTRATION
9:00 AM – 10:30 AM : INAUGURAL SESSION

9:00 AM – 9:15 AM	Welcome Address	Director, IIIM
9:15 AM – 9:30 AM	Introduction of Keynote Speaker	Nasheeman Ashraf
9:30 AM – 10:15 AM	Keynote Lecture	Prof. S.K. Sopori Abiotic stress tolerance in plants: role of glyoxalase pathway
10:15 AM – 10:30 AM	Vote of Thanks	Abdul Rahim

10:30 AM – 11:00 AM: TEA BREAK

TECHNICAL SESSION

11:00 AM – 01:00 PM :- Plant Secondary Metabolic Networks

1. Chair Person: Ramesh V. Sonti 2. Co-chair Person: Dhiraj Vyas

Lead Lecture	Prabodh K. Trivedi Small molecule network with bigger role in plant growth and development
Session Lectures	Sumit Ghosh An integrative approach to understand plant specialized metabolism and metabolic engineering
	Wajid Waheed A multi omics approach for discovery of novel terpenoid pathways
	Prashant Misra TrichOmics: Deciphering metabolic and gene regulatory networks in glandular trichomes

01:00 PM – 02:00 PM: LUNCH

TECHNICAL SESSION

02:00 PM – 04:00 PM :- Plant Abiotic Stress

1. Chair Person: Ashwani Pareek 2. Co-chair Person: Sumit Gandhi

Lead Lecture	Debasis Chattopadhyay Lignin deposition in roots as a determinant of abiotic stress tolerance
Session Lectures	Anil K. Singh Differential chilling mediated transcriptional and epigenetic reprogramming during bud dormancy in apple
	Ananda Mustafiz Phytosulfokine receptor kinase plays role in abiotic stress response via ABA dependent pathway
	Dhiraj Vyas Regulation of glucosinolates and their ecological interactions

4:00 PM – 4:30 PM: TEA BREAK

4:30 PM – 5:30 PM :- Workshop on Medicinal and Aromatic Crops

Moderator : Suphla Gupta

Speakers: Qazi Parvaiz / Sumeet Gairola

5:30 PM – 6:30 PM :- Poster Session

DAY 2 (6th Sep, 2022)

09:00 AM – 11:00 AM :- Drug Discovery from natural products

1. Chair Person: Sujata Mohanty 2. Co-chair Person: Khursheed A. Bhat

Lead Lecture	D. Srinivasa Reddy Role of natural products in drug discovery
Session Lectures	Fayaz A. Malik Discovery and identification of drug like molecules targeting therapeutically resistant cancer stem cells
	Zahoor A. Parry Novel promising antituberculosis agents: new hope against DS/DR/MDR strains
	Bilal A. Bhat Natural products as key templates for drug discovery program

11:00 AM – 11:30 AM : **TEA BREAK**

TECHNICAL SESSION

11:30 AM – 01:30 PM :- Plant-Microbe Interaction

1. Chair Person: Prabodh K. Trivedi 2. Co-chair Person: Nazia Abbas

Lead Lecture	Ramesh Sonti How do plants ward off infections
Session Lectures	Uma Shankar Plant microbiome - the extended genotype
	Jyoti Vakhlu Journey of Bacillus BarDS, native to saffron from field to laboratory and back to saffron fields
	Syed Riyaz ul Hassan Endophytic microbiome of Crocus sativus L.: leads for plant-growth promotion and corn-rot inhibition

01:30 PM – 02:30 PM: **LUNCH**

TECHNICAL SESSION

02:30 PM – 04:30 PM:- Reimagining Potential of Plants for Sustainable Future

1. Chair Person: Uma Shankar 2. Co-chair Person: Qazi Parvaiz Hassan

Lead Lecture	Ashwani Pareek Learning lessons from Mother Nature and plants around
Session Lectures	Irshad Nawchoo Impact of over-exploitation, habitat destruction and urbanization on medicinal and aromatic plant (MAP) diversity of Kashmir Himalaya
	Niroj Sethi Role of nano fertilizers in improving plant productivity, trends and perspectives
	Ajaz Ahmad Lone Updates on breeding for crop improvement

4:30 PM – 5:00 PM: **TEA BREAK**

05:00 PM – 06:00 PM:- Women in Science: Challenges and Opportunities

1. Chair Person: Jyoti Vakhlu 2. Co-chair Person: Padma Lay

Speakers: Sujata Mohanty & Vidya Ramadas

06:00 PM – 6:30 PM :- Workshop on Floriculture

Moderator : Phalisteem Sultan, Firdoos A. Mir

Speaker: Shahid Rasool

DAY 3 (7th Sep, 2022)

09:00 AM – 11:00 AM:- Gene Expression and Regulation

1. Chair Person: Debasis Chattopadhyay 2. Co-chair Person: Muzamil Ahmad

Lead Lecture	Alok Sinha Dynamic phosphorylation of miRNA biogenesis factor HYL1 by MAP Kinase
Session Lectures	Manoj Majee PROTEIN L ISOASPARTYL METHYLTRANSFERASE (PIMT): A Key Protein Repairing Enzyme for plant survival under stressful environments
	Imtiyaz Yaseen Understanding epigenetic mechanism of anti-fungal drug resistance
	Syed Sajad Hussain Targeting epigenetic modulators for drug discovery

11:00 AM – 11:30 AM : **TEA BREAK**

TECHNICAL SESSION

11:30 AM – 01:00 PM :- Young Scientist Session

1. Chair Person: Syed Khalid 2. Co-chair Person: Syed Beenish

Four presentations Selected from abstracts received

01:00 PM – 01:30 PM: Workshop on High End Molecular Biology Techniques

Moderator: **Nasir ul Rasheed**

Speaker: **Subject Expert**

VALEDICTORY

01:30 PM-02:30 PM

2:30 PM: Lunch followed by City Tour

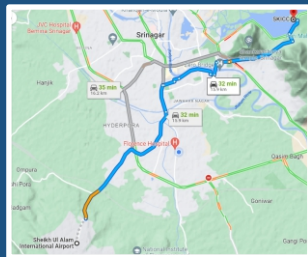
About Kashmir

Located in the foothills of the great Himalayas, the Valley of Kashmir is also referred to as Paradise on Earth. Renowned for its pristine waters, lofty forests and lush green meadows, the vale is hailed as a visitor's delight. The city of Srinagar, which is also referred to as the Venice of East offers many rich experiences. Its chinar lined streets and the world famous Mughal Gardens offer a peak into the rich heritage of the valley. A shikara ride on the tranquil waters of the Dal Lake is also a must experience for every visitor. Besides these, the city is also a shopper's hub and one can buy all sorts of traditional clothes, handicrafts and souvenirs. One must also indulge in the unique local cuisine especially Wazwan which remains unparalleled throughout the culinary world. Dachigam National Park, which is just 20 mins away from the city centre, is the home to the majestic Kashmiri Hangul. For people looking to get away from the hustle and bustle of the city, the green meadows of Gulmarg and the gurgling waters of Pahalgam are the perfect retreat. These resorts also offer trekking, paragliding and skiing opportunities for alpine enthusiasts. The Gondola ride in Gulmarg, which is the world's highest and second largest cable car ride, is one of the many unique experiences that these places have to offer. The conference also delightfully coincides with the arrival of autumn in Kashmir. Thus, the delegates can witness the changing hues of the valley while basking in the glorious autumn sun.



About Venue

Conference will be organised at SKICC (Sher-i-Kashmir International Conference Centre), Boulevard Road, Srinagar.



Patrons

Chief Patron: D. Srinivasa Reddy

Patron: Abdul Rahim

Patron: Zabeer Ahmed

Convener: Nasheeman Ashraf

Co-Convener: Nazia Abbas

Important Dates

Abstract Submission Opens: 20th May, 2022

Abstract Submission Closes: 30th July, 2022

Notification regarding Oral/Poster Presentation: 10th August, 2022

Organising Committee

Muzamil Ahmad

Fayaz A . Malik

Zahoor Ahmad Parry

Qazi Parvaiz Hassan

Dhiraj Vyas

Khursheed Ahmad Bhat

Syed Riyaz ul Hassan

Syed Sajad Hussain

Bilal Ahmad Bhat

Submit abstracts at: abstracts_pbc@iiim.ac.in

 <http://iiim.res.in/>

● Registration link: <http://forms.gle/1VcNJZfgAChc3EC26>



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