

# INTERNATIONAL CONFERENCE ON

## RECENT INNOVATIONS IN CELLULAR AND MOLECULAR BIOLOGY: EMERGING INSIGHTS AND APPLICATIONS

December 4-6, 2025

**Organized By:**

Department of Botany (UGC-Centre of Advanced Study)

Jai Narain Vyas University

Jodhpur - 342005, Rajasthan (India)

**SCIENTIFIC PROGRAMME (Tentative)**

**(DAY 1 (4th DECEMBER, 2025 THURSDAY))**

**(Venue: Marwar International Centre, Jodhpur)**



7:30 – 08: 30 am	<b>Breakfast</b>
7:30 – 08: 30 am	<b>Registration</b>
<b>INAUGURAL SESSION</b>	
<b>09:00 am onwards</b>	Arrival of Dignitaries on the dais
<b>09:30 - 9:40 AM</b>	Lighting of the Lamp, Saraswati Vandana, University Kulgeet
<b>09:40 - 09:45 AM</b>	
<b>09:45 - 10:00 AM</b>	Honoring the Chief Guest, Vice-Chancellor, Dean, Faculty of Science, Head, Department of Botany & Organizing Secretary
<b>10:00 -10:05 AM</b> Welcome Address, About the Conference	<b>Prof. B.R. Gadi</b> Organizing Secretary, Department of Botany, JNV University
<b>10:05 -10:10 AM</b> About Department	<b>Prof. G.S. Shekhawat</b> Head of Botany, JNV University
<b>10:10- 10:15 AM</b> About the University	<b>Prof. Pawan Kumar Sharma</b> Vice-Chancellor JNV, Jodhpur
<b>10:15 - 10:20 AM</b>	<b>Prof. Paolo Giudici</b>

Keynote Speech	University of Modena and Reggio Emilia, Italy
<b>10:20 - 10:40 AM</b> Address and words of blessings	<b>Shri Haribhau Bagade</b> <b>Honourable Governor</b>
<b>10:40 -10:45 AM</b>	<b>Release of Abstracts Book</b>
<b>10:45 - 10:50 AM</b> Vote of Thanks	<b>Dean, Faculty of Science, JNV University</b>
<b>10:50 - 10:52 AM</b>	National Anthem
<b>10:52–11:00 AM</b>	Group Photo (Please stand up: group photo by AI Technology to cover all delegates)
<b>11:00 - 11:30 AM</b>	<b>HIGH TEA</b>
<b>(Venue: Main Auditorium, Marwar International Centre)</b>	
<b>TECHNICAL SESSION I</b>	
<b>Chairperson</b>	<b>Prof. S. R. Rao</b>
<b>Co-Chairperson</b>	<b>Prof. G. S. Shekhawat</b>
<b>Rapporteur</b>	<b>Dr. Vinod Kataria</b>
<b>11:30 - 12:10 PM</b> <b>Keynote Speaker</b>	<b>Keynote Speaker 1: –Prof. Paolo Giudici</b> <b>University of Modena and Reggio Emilia, Italy</b> Low-cost and Effective Strategies for Food Improvements: Case Studies in Wine and Vinegar
<b>12:10 – 12:50 PM</b> <b>Keynote Speaker</b>	<b>Keynote Speaker 2: - Dr. Ramesh Raliya</b> <b>CEO, Rhizophyll Corporation, USA</b> Bag to Bottle®: Navigating the Journey of Lab-Scale Experimentation to Industrial Realities
<b>12:50 -01:30 PM</b>	<b>Keynote Speaker 3: - Prof. R. N. Kharwar</b> <b>Department of Botany, Banaras Hindu University</b> Potential attributes of plant-associated endophytic fungal flora in promoting the crop's health
<b>01:30 – 2:30 PM</b>	<b>LUNCH BREAK</b>
<b>Technical Session II</b>	
<b>Chairperson</b>	<b>Prof. Ravi Gupta</b>
<b>Co-Chairperson</b>	<b>Prof. H. R. Dagla</b>

<b>Rapporteur</b>	<b>Dr. Rachna Dinesh</b>		
<b>2:30- 3:10 PM</b>	<b>Keynote Speaker 4: –Prof. S. R. Rao</b> <b>Sharada University, Greater Noida</b> Cytogenetical treatise and genetic minutiae of some threatened medicinal plants of Indian Thar Desert		
	<b>Technical Session III</b>		
<b>SESSION-III (Theme) Parallel Session</b>	<b>Cell Biology and Molecular Biology</b>	<b>Biotechnology</b>	<b>Computational Biology</b>
<b>Lead/Oral presentation (OP):Venue</b>	<b>Auditorium A</b>	<b>Auditorium B</b>	<b>Auditorium C</b>
<b>Chairperson</b>	<b>Prof. S. D. Purohit</b>	<b>Prof. Paolo Giudici</b>	<b>Prof. B. R. Bamniya</b>
<b>Co-Chairperson</b>	<b>Prof. Praveen Gehlot</b>	<b>Prof. H. R. Dagla</b>	<b>Prof. S. K. Mehar</b>
<b>Rapporteur</b>	<b>Dr. Kheta Ram</b>	<b>Dr. Rachna Dinesh</b>	<b>Dr. Seema Sen</b>
<b>03:10- 03:40 pm</b> <b>Lead Lecture</b>	<b>Lead Lecture 1</b> <b>Dr. Arun Kumar</b> Enhancing oilseed Brassica crop gene pool using Wide Hybridization	<b>Lead Lecture 1</b> <b>Dr. M. S. Shekhawat</b> Advances in Plant Tissue Culture: Exploring Structural Plasticity and Micro-Morphogenesis in Regenerating Cells and Tissues	<b>Lead Lecture 1:</b> <b>Dr. Amit Sharama</b> Cancer immunotherapy: Bench to Bedside and Back Again
<b>03:40 – 04:10 pm</b> <b>Lead Lecture</b>	<b>Lead Lecture 2</b> <b>Dr. Rahul Mahadev</b> Targeted random mutagenesis using CRISPR-based base editing tools in microbes and plants	<b>Lead Lecture 2</b> <b>Dr. Amit K. Singh</b> Leveraging high-throughput genomics to enhance the conservation and use of genebank diversity for developing climate-resilient wheat	<b>Lead Lecture 2</b> <b>Prof. P. K. Maurya</b> Deciphering Endometriosis Through Biosignatures: The Next Frontier in Reproductive Biology
<b>04:10 - 04:40 PM</b> <b>Lead Lecture</b>	<b>Lead Lecture 3</b> <b>Prof. Sudha Summarwar</b> Population Structure and Genetic Variation in Mahseer ( <i>Tor tor</i> ) of Southern Rajasthan Revealed Through ATPase 6 Mitochondrial Gene Sequences	<b>Lead Lecture 3</b> <b>Dr. Narendra Sharma</b> Linking Oxidative Stress to Memory Deficits in Hypobaric Hypoxia	<b>Lead Lecture 3</b> <b>Dr. Tikam Chand Dakal</b> Coding and Non-coding Biomarker Discovery: Emerging Cancers, Emerging Solutions
<b>04:40 - 04:50 PM</b>	OP 1 Ramgopal Verma	OP 1 Kusum Khatri	OP 1 Ajay Kumar
<b>04:50 - 05:00 PM</b>	OP2 Subham Agarwal	OP2 Abhimanyu Jogawat	OP2 RaviKant
<b>05:00 - 05:10 PM</b>	OP3 Kaustuvmani Patowary	OP3 Jawahar Singh	OP3Amit Verma
<b>05:10 - 05:20 PM</b>	OP4 Shweta Jha	OP4 Neelam Shekhawat	OP4 Sarswati Choudhary
<b>05:20 - 05:30 PM</b>	OP5 Nisha Tak	OP5 Ashok Kumar	OP5 Niharika

<b>05:30 - 05:40 PM</b>	OP6 Rohit Meena	OP6 Kavya Pv	OP6 Meena Bharuapl
<b>05:40 - 05:50 PM</b>	OP7 Sharmila Kumari	OP7 Nikhil	OP7 Sonali
<b>05:50 - 06:00 PM</b>	OP8 Smita Jain	OP8 Desha Meena	OP8 Gowrang
<b>04:30- 06:00 PM</b>	<b>POSTER SESSION I: 1-20 (AWARD FOR BEST POSTER)</b>		
<b>06:30-7:30 PM</b>	<b>Cultural Program</b>		
<b>07:30-9:00 PM</b>	<b>DINNER</b>		

**(DAY 2 (5th DECEMBER, 2025 FRIDAY))**  
**(Venue: Marwar International Centre, Jodhpur)**

<b>08:15 – 09: 30 am</b>	<b>Breakfast</b>		
	<b>Technical Session IV</b>		
<b>Chairperson</b>	<b>Prof. T. D. Thomas</b>		
<b>Co-Chairperson</b>	<b>Prof. R. P. SINGH</b>		
<b>Reporter</b>	<b>Dr. Ashok Kumar Patel</b>		
<b>09:40- 10:20 AM</b>	<b>Keynote Speaker 5: - Prof. Keerti S. Rathore</b> Texas A&M University, College Station, Texas, USA RNAi-mediated Gene Silencing vs CRISPR-mediated Gene Knockout in Cotton to Eliminate Toxic Gossypol: A Dimmer Switch vs an On/Off Switch		
<b>10:20 - 11:00 AM</b>	<b>Keynote Speaker 6: Prof. P. Prakash</b> National University of Singapore Regulation of apoplastic barrier formation and modification of ion channels are mechanisms controlling salinity tolerance in plants		
<b>11:00– 11:30 AM</b>	<b>TEA BREAK</b>		
	<b>Technical Session V</b>		
<b>Parallel Session-V</b>	<b>Cell Biology and Molecular Biology</b>	<b>Biotechnology</b>	<b>Computational Biology</b>
<b>Lead/Oral presentation (OP):-Venue</b>	<b>Auditorium A</b>	<b>Auditorium B</b>	<b>Auditorium C</b>
<b>Chairperson</b>	<b>Dr. D. Kumar</b>	<b>Prof. Ravi Gupta</b>	<b>Prof. Sumit Ghosh</b>
<b>Co-Chairperson</b>	<b>Dr. Harish</b>	<b>Prof. Sunita Arora</b>	<b>Prof. Pawan K. Mourya</b>
<b>Rapporteur</b>	<b>Dr. Kamna Sharma</b>	<b>Dr. Sharad Bissa</b>	<b>Dr. Vandana Meena</b>
<b>11:30 - 12:00 PM</b> <b>Lead Lecture</b>	<b>Lead Lecture 4</b> <b>Dr. Sumit Ghosh</b> Elucidation of the ..... of phytochemicals	<b>Lead Lecture 4</b> <b>Dr. M. S. Rathore</b> Marine Genetic Resources ..... Crops for Better Sustainability	<b>Lead Lecture 4</b> <b>Dr. Mahendra Seervi</b> The XPO1–Nucleoporin Regulatory Axis: .....Aggressive Cancer Phenotypes
<b>12:00 - 12:30 PM</b> <b>Lead Lecture</b>	<b>Lead Lecture 5</b> <b>Prof. E. Francio</b> Molecular mechanisms ..... tolerance-vernalization model in barley	<b>Lead Lecture 5</b> <b>Dr. Amar Pal Singh</b> Plants Under Ammonium Stress: ..... and JA Signalling	<b>Lead Lecture 5</b> <b>Dr. Abhishek Kumar</b> Heredity cancer genomics, ..... of Hodgkin lymphoma
<b>12:30-12:40 PM</b>	OP9 Ramesh Kumar	OP9 Ilam Bano	OP9 Abhijit Beura
<b>12:40-12:50 PM</b>	OP10 Alkesh Tak	OP10 Sharad Bissa	OP10 S. K. Barwa
<b>12:50-01:00 PM</b>	OP11 Lata Sharma	OP11 Sangita Tripathi	OP11 Dikshita Tailor
<b>01:00-01:10 PM</b>	OP12 Nushrat Khan	OP12 Manju Verma	OP12 Kheta Ram

01:10-01:20 PM	OP13 Manisha Makawana	OP13 Priyanka Choudhary	OP13 Shadab
01:20-01:30 PM	OP6 Nitesh Singh	OP6 Anushri	OP6 Mangesh
11:30-01:30 PM	<b>POSTER SESSION II: - 21-40 (AWARD FOR BEST POSTER)</b>		
01:30-02:30 PM	<b>LUNCH BREAK</b>		
	<b>Technical Session VI</b>		
Chairperson	<b>Prof. S. R. Rao</b>		
Co-Chairperson	<b>Prof. Praveen Gehlot</b>		
Rapporteur	<b>Dr. Kheta Ram</b>		
02:30-3:10 PM	<b>Keynote Speaker 7: Prof. S. D. Purohit, MLSU Udaipur</b>		
03:10-3:50 PM	<b>Keynote Speaker 8: Dr. Ravi Gupta</b> Plant Stress Physiology and Proteomics Laboratory, <b>Kookmin University, Seoul</b> <b>Mapping the Plant Proteome: Integrative Approaches from 2D Gels to 4D Proteomics</b>		
	<b>Technical Session VII</b>		
<b>SESSION-VII</b> Parallel Session-	<b>Cell Biology and Molecular Biology</b>	<b>Biotechnology</b>	<b>Biotechnology/Computational Biology</b>
Lead/Oral presentation (OP): - Venue	<b>Auditorium A</b>	<b>Auditorium B</b>	<b>Auditorium C</b>
Chairperson	<b>Dr. M. S. Rathore</b>	<b>Dr. Arun Kumar</b>	<b>Dr. Kapil Arya</b>
Co-Chairperson	<b>Dr. Khem Chand Meena</b>	<b>Prof. Sudha Summarwar</b>	<b>Dr. G.S. Deora/Prof. Arvind Pareek</b>
Rapporteur	<b>Dr. Alkesh Tak</b>	<b>Dr. Meena Barupal</b>	<b>Dr. Suman Parihar</b>
03:50 - 04:20 PM Lead Lecture	<b>Lead Lecture 6 Dr. Kapil Arya</b> Patenting Life Forms: Legal and Ethical Issues in Environmental Biotechnology	<b>Lead Lecture 6 Dr. Anil K. Singh (NIPB)</b> Genetic Engineering of Plants, Microbes, and Algae for a Greener Future	<b>Lead Lecture 6 Dr. Tarun Bhatt</b> Computational Targeting of PEX3-PEX19 Interaction to Disrupt Glycosomal Membrane Biogenesis in Leishmania
04:20 - 04:50 PM Lead Lecture	<b>Lead Lecture 7 Dr. Harish</b> Decoding the Molecular Blueprint of Heterocyst Differentiation in Cyanobacteria	<b>Lead Lecture 7 Dr. Hasthi</b> Large scale mutagenesis in rice through CRISPR- Cas9 library approach	<b>Lead Lecture 7 Dr. Sachin Gupta</b> From Ideation to Execution: Building Successful Start-ups in a Competitive World
04:50-05:00 PM	OP14 Abhishek Vashitha	OP14 G K Meghwansia	OP20 Ritesh Arya
05:00-05:10 PM	OP15 Shiwani Bhatnagar	OP15 Chagan Lal	OP21 Dheeraj Choudhary
05:10-05:20 PM	OP16 Ritesh Yadav	OP16 Kamna Sharma	OP22 Seema Sen
05:20-05:30 PM	OP17 Namarta	OP17 Kishan Lal Dangi	OP23 Ashok Kumar Patel
05:30-05:40 PM	OP18 Monika Kumari	OP18 Suman Parihar	OP24 Nishant Chouhan

<b>05:40-05:50 PM</b>	OP19 AK Purohit	OP19 Narpat Naniwal	OP25 Khagendra Kumar
<b>03:30-05:00 PM</b>	<b>POSTER SESSION -III (41-60) (AWARD FOR BEST POSTER)</b>		
<b>05:50-06:50 PM</b>	<b>Department Visit and Interact with Faculty</b>		
<b>06:00-07:00 PM</b>	<b>Industry-farmers-Academia Interaction</b>		
<b>07:30-9:00 PM</b>	<b>Dinner</b>		

**(DAY 3 (6<sup>th</sup> DECEMBER, 2025 SATURDAY)  
(Venue: Marwar International Centre, Jodhpur)**

08:15 – 09: 30 AM	<b>Breakfast</b>		
	<b>Technical Session VIII</b>		
	(Venue: Main Auditorium, Marwar International Centre)		
<b>Chairperson</b>	<b>Dr. Kapil Arya</b>		
<b>Co-Chairperson</b>	<b>Prof. P: K: Maurya</b>		
<b>Rapporteur</b>	<b>Dr. Shewta Jha</b>		
<b>09:40 - 10:20 AM Keynote Speaker</b>	<b>Keynote Speaker 9: -Prof. Chuna Choudhary</b> University of Copenhagen, Denmark <small>Elucidating the principles of cell-type-specific gene regulation</small>		
<b>10:20 - 11:00 AM Keynote Speaker</b>	<b>Keynote Speaker 10: -Dr. Mahaveer Golecha</b> Indian Institute of Public Health, Gandhinagar, Gujarat, India <small>Science for Society: Building a Thriving Research Ecosystem through Multidisciplinary and Multi-Departmental Collaboration</small>		
11:00 – 11:30 AM	<b>HIGH TEA</b>		
	<b>Technical Session IX</b>		
<b>SESSION-IX Parallel Session-</b>	<b>Cell Biology and Molecular Biology</b>	<b>Biotechnology</b>	<b>Biotechnology/Computational Biology</b>
<b>Lead/Oral presentation (OP):-Venue</b>	<b>Auditorium A</b>	<b>Auditorium B</b>	<b>Auditorium C</b>
<b>Chairperson</b>	<b>Dr. Anil K. Singh</b>	<b>Prof. T. S. Rathore</b>	<b>Dr. S. K. Bairwa</b>
<b>Co-Chairperson</b>	<b>Dr. Sachin Gupta</b>	<b>Dr. Neelam Shekhawat</b>	<b>Dr. Tikam Chand Dakal</b>
<b>Rapporteur</b>	<b>Dr. Ramesh Kumar</b>	<b>Dr. Shiwani Bhatnagar</b>	<b>Dr. Nisha Tak</b>
<b>011:30- 12:00 PM Lead Lecture</b>	<b>Lead Lecture 8 Dr. Leimarembi Devi</b> <small>IL5pred: Machine Learning for Discovering IL-5–Inducing Peptides</small>	<b>Lead Lecture 8 Prof. T. D. Thomas</b> <small>Endosperm: An ideal source for triploid plant production</small>	<b>Lead Lecture 8 Dr. Dharmendra Choudhary</b> <small>Defective Intracellular Trafficking: Mechanistic Insights and Disease Connections</small>
<b>12:00- 12:30 PM Lead Lecture</b>	<b>Lead Lecture 9 Dr. D. Kumar</b> <small>Need based analysis of guar sector in India</small>	<b>Lead Lecture 9 Dr. Rupesh K. Singh</b> <small>Biochar and nano-biochar, ..... mitigation of copper and glyphosate</small>	<b>Lead Lecture 9 Dr. Khem Raj Meena</b> <small>Surfactin: A lipopeptide antibiotic of <i>Bacillus subtilis</i> and its applications</small>
<b>12:30-12:40 PM</b>	OP20 Priyanka Verma	OP26 Bhumika Soni	OP32 Chanderban

12:40-12:50 PM	OP21 Mamata Nehra	OP27 Komal Jain	OP33 Lalita Lakharan
12:50-01:00 PM	OP22 Dan Singh Jakhar	OP28 Bhawna Sharma	OP34 P.D. Charan
01:00-01:10 PM	OP23 Rachna Dinesh	OP29 Namarta	OP35 Prgaya Sharma
01:10-01:20 PM	OP24 Nitesh Singh	OP30 Manokari	OP36 Hrishikesh Hukkeri
01:20-01:30 PM	OP25 Sunny Pathak	OP31 Amit Kumar	OP37 Richa Tondon
01:40 - 02:30 pm	<b>LUNCH BREAK</b>		
	<b>VALEDICTORY</b>		
02:30 PM	Arrival of Dignitaries on the dais		
02:30 - 02:40 PM	Lighting of the Lamp		
02:40 - 02:50 PM	Honouring the Chief Guest, Special Guest, Vice-Chancellor, Convener and Organizing Secretary		
02:50 - 03:00 PM Welcome of Guest	<b>Prof. G. S. Shekhawat</b> Head, Department of Botany, JNV University		
03:00 - 03:15 PM	Summing up the Conference by <b>Prof. B. R. Gadi, Organizing Secretary</b>		
03:15 - 03:25 PM	Valedictory Address by Special Guest		
03:25 - 03:45 PM	Award Announcement		
03:45 - 04:00 PM <b>Felicitation</b>	Felicitation of Bhamashah, NGO, Organization, Bank, Suppliers and Others		
04:00 - 04:15 PM	Valedictory Address and blessing by Vice Chancellor		
04:15 - 04:25 PM Vote of thanks	Organizing Joint-Secretary, Department of Botany, JNV University		
04:25 - 05:00 PM	<b>TEA BREAK</b>		
05:00 PM onwards	<b>Departure of Guests</b>		