

ISVS Golden Jubilee National Seminar

Technological Innovations in Vegetable Production under Changing Climate Regime 24-26 February 2024, ANDUA&T, Ayodhya, Uttar Pradesh



Organized by

Indian Society of Vegetable Science (ISVS) ICAR-Indian Institute of Vegetable Research, Varanasi Acharya Narendra Deva Univ. of Agri. & Tech., Ayodhya

In collaboration with

Indian Council of Agricultural Research, New Delhi











CONTEXT AND RATIONALE

The Indian Society of Vegetable Science (ISVS) was founded on 7th April, 1973 under the Societies Registration Act XXI 1860 with the following objectives: (i) To promote knowledge and research in vegetable crops and to advance the cause of Vegetable Science in India; (ii) To encourage closer relationship among workers on vegetable crops; (iii) To encourage the development of vegetable cultivation and seed production based on scientific and technical knowledge; and (iv) To hold conferences, symposia and meetings from time to time for exchange of ideas and discussion of advances in knowledge of vegetable crops. The ISVS has completed its glorious 50 Years on 06th April, 2023. To commemorate its Golden Jubilee, ISVS is organising a National Seminar on 'Technological Innovations in Vegetable Production under Changing Climate Regime' during 24-26 February 2024 at Acharya Narendra Deva University of Agriculture and Technology, Kumarganj, Ayodhya, Uttar Pradesh in collaboration with ICAR-Indian Institute of Vegetable Research, Varanasi.

The public awareness about the positive role of vegetables as healthy food is expected to increase the demand of nutritious and safe vegetables. Vegetables are an essential component of the Indian diet as they are rich sources of dietary fibres, minerals, carbohydrates, proteins, vitamins, antioxidants, etc. It is anticipated that by 2030, India will have about 1.5 billion populations with diverse food habits. The adverse effects of the climate change regime coupled with demographic alternations have been putting unprecedented pressure on vegetable production. Therefore, increasing the yield per unit area becomes much more relevant than ever. Additionally, the vegetable sector also provides the opportunity to mitigate poverty, create employment, enhance income and ensure 3-4 times higher return to the investment compared to staple crops.

The effect of climate on vegetable production is generally related to the variability in local climate rather than global climatic patterns. The Earth's average surface temperature has increased by 1.5 °F (0.83 °C) since 1880. Consequently, any assessment of vegetable productivity must be individually considered based on the local area where it is grown. Despite technological advances, such as improved varieties, genetically modified organisms, integrated Pest and disease management, integrated plant nutrient management irrigation systems etc.; the weather is still a key factor in vegetable productivity, as well as soil properties and natural communities. The studies related to climate change and crop physiology indicate that climate change represents a potential threat to sustaining global vegetable productivity growth rates necessary to keep up with the demand. Changing climate trends over the past few decades have been fairly rapid around the world, and increases in atmospheric carbon dioxide and ozone levels have also been quite visible. The certainty that climatic rise in carbon dioxide will continue in the future too, raises many questions related to vegetable security, one of which is whether the aggregate global vegetable productivity will be affected. It is desired to find the mechanisms by which these changes are going to affect vegetable yields. Further, it is predicted that, over the next few decades, the rise in atmospheric CO2 concentration will likely to increase the global yields roughly by 1.8% per decade. At the same time, warming trends are likely to reduce global yields roughly by 1.5% per decade.

Scientific vegetable production technologies will generate new avenues for employment, ascertain livelihood and improve nutritional security. The major challenges lie ahead are to develop technologies that enhance the quality and productivity of vegetables under increasing biotic and abiotic stresses and declining natural resources. The adverse effect of climate change on vegetable production can be mitigated by technological innovations and strengthening fostering market linkages through various approaches.

The Indian vegetable sector is facing constraints such as low crop productivity, limited irrigation facilities and underdeveloped infrastructure support like cold storage, markets, transportation facilities, etc. There are huge post-harvest and handling losses. Thus, efforts are needed to capitalize on our strengths and remove limitations to meet the goal of moving towards sustainable vegetable growth. Aggregate vegetable productivity in coming decades will continue to be mainly driven by cutting-edge technologies, agronomic interventions using modern tools and linking farmers to the markets.

AIM

To bring together the vegetable researchers, academia, industries, farmers and stakeholders on a platform to deliberate on the issues related to Technological Innovations in Vegetable Production under Changing Climate Regime.

THEMES AND SUB-THEMES

There will be the following five themes and associated sub-themes to deal with the potential impact of technological innovations in vegetable production:

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Next-generation breeding	Genomic resources, Molecular breeding, Marker Assisted Selection,
techniques	Search for new genes, Crop wild relatives & Pre-breeding, Phenomics,
•	Germplasm & Seed enhancement
Biotechnological innovations	Genome editing Transgenics Metabolomics Transcriptomics
Diotectinological innovations	Destermine Conversion technologies, Herdeide
	Proteomics, Sequencing technologies, Haploidy
Climate resilient technologies	Protected cultivation, Hydroponics, Aeroponics, Sensor-based farming,
and Digital agriculture	AI & Robotics, Organic & Natural farming, Climate smart agriculture,
	Precision agriculture, Micro irrigation and fertigation, Vertical and
	Terrace gardening, Home gardening, River-bed cultivation, Input use
	efficiency, Grafting & Vegetable based diversified agriculture
Surveillance and mitigation of	Emerging and re-emerging pests, Pest forecasting, Pest detection and
pests	diagnostics, Ecological engineering, Pesticide residue, Nanopesticides,
	Biological control, Semiochemicals, Biosafety & Biosecurity,
	Toxicology & IRM, IPM, IDM
Processing, value addition &	Post-harvest technology, Processing, Value addition, Packaging and
marketing	shelf-life enhancement, Product development, Export promotions,
C	Marketing, Agri-preneurship, Start-ups, Promotion of small-scale
	producers
Processing, value addition & marketing	Toxicology & IRM, IPM, IDM Post-harvest technology, Processing, Value addition, Packaging and shelf-life enhancement, Product development, Export promotions, Marketing, Agri-preneurship, Start-ups, Promotion of small-scale producers

PARTICIPANTS

7 गज़ादीज अमत महोत्सव

The seminar is open to all stakeholders in vegetable R&D and associated sectors, namely representatives from public and private sectors, central and state government ministries, scientists and students from agricultural institutes and universities, farmers, FPOs, FPCs, and Farmer's Agri-input Associations.

PRESENTATION

The seminar will cover memorial lectures; and keynote address, invited lectures, oral and poster presentations in each session.

Key-note Address and Invited Lecture: Keynote address on theme and invited lectures on specific topics highlighting the central theme of each session will be invited by the organizing committee based on suggestions received.

Oral Presentations: Participants shall be considered for oral presentation subject to the relevance to the various sub-themes. The presentations shall be state-of-the-art testimonies.

Poster papers: The researchers/academia/students are invited to submit abstracts relating to broad theme areas of the seminar, which would be peer-reviewed and presented as poster papers in the three-day event. Abstract(s) of only registered authors will be published.

CALL FOR ABSTRACTS FOR ORAL AND POSTER PRESENTATION

There will be five sessions on various themes identified for the seminar for keynote address, invited lectures, oral and poster presentations. Abstracts should be prepared in the prescribed format (mentioning theme, title, authors name, affiliation, email & contact number) containing about 250-300 words (not more than one page, A4 size, 1.5 spacing, font size 12, Times New Roman font). Abstracts should be submitted through **E-mail: isvs50years@gmail.com**. The Committee reserves the right to edit/reject any abstracts, if required. The abstracts selected for the poster should be prepared as per the format (61×91 cm) and will be displayed under each theme by the registered participants.

BEST POSTER AWARD

The expert's committee will judge poster presentations under each thematic area. Three best poster awards in each theme will be given on the last day of the seminar.

ACCOMMODATION

The registration fee does not include accommodation charges. Accommodation is available in the University Guest Houses and Hotels on payment basis. For details, please contact on the Email: issuestict.com. For details, please contact on the Email: issuestict.com.



IMPORTANT DATES

Last date for receiving abstract(s)	:	02 nd February 2024
Notification for acceptance of abstract(s)	:	03 rd February 2024
Last date for sending the registration fee	:	05 th February 2024
Delegates from Industries/Private organizations /Corporate	:	Rs. 10000/-
Delegates from Public Organizations	:	Rs. 4000 /
Students/Research Fellows/ YPs	:	Rs. 2000/-
Spot registration (after due date)	:	Rs. 1000/- additional

REGISTRATION FEE

Registration fee should be sent by 05th February 2024 to the **Local Organising Secretary**. For online transfer of the registration fee, the following bank details may be used.

Account holder:Veg Congress 2024Name of bank:State Bank of India, NDUAT, Pithla, Ayodhya, UPCurrent A/C No.:42585810223IFSC:SBIN0006925

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The organizers seek financial support from different stakeholders, especially the government and nongovernmental organizations to make this academic event a grand success. The sponsorships in various categories viz. **Diamond Sponsors and Gold Sponsors** will be welcomed. Organization/Company's logo on event backdrops, publications, colour advertisement and complimentary registration for delegates shall be offered based on the category of sponsorship.

Diamond Sponsors : Rs 1.50 lakh/- (Two complimentary registration, logo on abstract / Souvenir and one full page coloured advertisement) Gold Sponsors : Rs 1.00 lakh/- (One complimentary registration, logo on abstract / Souvenir

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VENUE

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ABOUT THE CITY

Ayodhya is a historic City situated on the banks of the Sarayu River in state of Uttar Pradesh. This city (earlier called Faizabad) is the administrative headquarters of the Ayodhya district the Ayodhya Division of Uttar Pradesh. Also known as Saket, is an ancient city of India, is the birthplace of Bhagwan Shri Ram and the setting of the great epic Ramayana. In recent years, Ayodhya City has been under substantial modernisation with the support of the government.

ABOUT THE HOST

Acharya Narendra Deva University of Agriculture and Technology (ANDUA&T) is headquartered in the vicinity of Ayodhya "Kumarganj". This small university town is well connected by Road: NH330A-Ayodhya-Raebareli and Purwanchal Expressway (Exit 80 km and take NH330A towards Ayodhya); Railway Stations: Ayodhya 42 km; Nihalgarh 25 km; and Air: Ayodhya and Lucknow Airport. The teaching, research, and extension operations of ANDUA&T are spread in 27 districts of Central and Eastern Uttar Pradesh through its wings of 25 KVKs, 7 Zonal Research Stations, and 4 Krishi Gyan Kendras. Further, seven colleges of university impart teaching and research work streams for the developmental needs of the region. The College of Horticulture and Agroforestry has a full flagged Department of Vegetable Science that conducts vegetable research & development programmes.

Correspondence

Email: isvs50years@gmail.com Dr Neeraj Singh (9857484090), Dr Rajesh Kumar (7309074360) & Dr BK Singh (8765302392)

> Local Correspondence: ANDUAT, Kumarganj Email: isvs.goldenjubileeanduat@gmail.com Dr Sanjeet Kumar (9934874800) & Dr DK Singh (9456137020)



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	ISVS Golden Jubilee National Seminar "Technological Innovations in Vegetable Production under Changing Climate Regime"	
	24-26 th February 2024, ANDUA&T, Ayodhya, UP	
r	Name: Mr. Mrs. Miss Dr. (In Block Letter):	
E	Designation: (if student write ID)	
S	pecialized field:	
0	Drganization Name:	
N	Mailing Address with Pin Code	
F	2-mail:	(
C	Contact Number:	
(Gender: Male / Female	
1	Title of Abstract:	No. Contraction
1	Theme of Abstract:	
A	Accompanying Persons (if any):	_
P	Accommodation Required/Not Required:	10
ſ	Date of Arrival (for accommodation purpose) Date of Departure	
	Fee Details	
E	D.D. No/Cash Receipt No/ NEFT No	
E	DateRegistration Fee (Rs.)	
P	Place: Signature of Applicant:	