

TECHNICAL PROGRAM

Day 1: November 27, 2023 (Monday)

Shri Mukesh Agnihotri

08:30-09:30 Registration

10.10-10.20

10.20-10.40

10.40-10.50

INA	UGU	RAL	. SE	SSI	ON
	(9.30	-11.1	5 a.ı	m.)	

Chief Guest	Hon'ble Deputy Chief Minister, Governmen	t of Himachal Pradesh, Shimla
Chair	Dr R.S. Paroda President, ISPGR & Chairman, TAAS, New D	elhi
Co-Chair	Prof. P.K. Khosla Chancellor, Shoolini University, Solan	
Guests of Honour	Dr P.L. Gautam Former Chairperson NBA & PPV&FRA, Palar	mpur
	Dr Sanjay Kumar Chairman, ASRB, New Delhi	
Convenor	Prof. Atul Khosla Vice Chancellor, Shoolini University, Solan	
09.30-09.40	Arrival of Dignitaries and Lighting of Lamp	
09.40-09.50	Welcome & Setting the Context	Prof. Atul. Khosla, VC, Shoolini
09.50-10.10	Special Remarks	University, Solan Dr Sanjay Kumar, Chairman, ASRB, New Delhi

Address by President, ISPGR

On the Child Control of the Child Control o

Address by Chief Guest

Shri Mukesh Agnihotri, Hon'ble Deputy
Chief Minister, Government of Himachal
Pradesh, Shimla

Vote of Thanks Dr Anuradha Agrawal, General Secretary, ISPGR & Organizing Secretary, PBFSNWH,

Dr P.L. Gautam, Former Chairperson NBA

Dr P.K. Khosla, Chancellor, Shoolini Uni-

& PPV&FRA, Palampur

New Delhi

TECHNICAL SESSION I

Status and Management of Plant Biodiversity of North-West Himalayas (NWH)

(11.20 a.m. –2.45 p.m.) (Concurrent Poster Session)

Co-Chair P.L. Gautam, Former Chairperson NBA & PPV&FRA, Palampur

P.K. Khosla, Chancellor, Shoolini University, Solan

Convenor R.K. Gautam, ICAR-NBPGR, New Delhi

B.D. Sharma, Eternal University Baru Sahib, Rajgarh, Sirmour

Rapporteurs Kuldeep Tripathi, ICAR-NBPGR, New Delhi

Vinay Kumar Rachappanavar, Shoolini University, Solan

11.20-11.25 Welcome Convenor

11.25-11.50 Plenary Lecture

Generating bioeconomy using bioresources of North-West Himalayas
Sanjay Kumar, ASRB, New Delhi

11.50-12.05 Invited Lectures

Plant diversity in Cold Desert Himalayas: O.P. Chaurasia, DIHAR, Leh, Ladakh

Challenges and opportunities

12.05-12.20 Genetic enhancement in local food sys- Lakshmi Kant, ICAR-VPKAS, Almora

tems

12.20-12.35	Current status and potential of temperate horticulture	M.K. Verma, ICAR-CITH, Srinagar
12.35-12.50	Status and role of Agroforestry in the Himalayan Agriculture Production system	Jagdish Singh, ICFRE-HRFI, Shimla
12.50-13.35	Rapid Oral Presentations (4; 6 min. each)	
	TSI-OP1: Expedition of PGR diversity in North Western Himalaya of India	R.K. Pamarthi, ICAR-NBPGR, New Delhi Co-authors - D.P. Semwal, Soyimchetan & P.K. Singh
	TSI-OP2: Ampelographic characteriza- tion of grape genotypes from Him- achalPradesh	Sharmistha Naik, ICAR-National Research Centre for Grapes, Pune Co-authors - D.P. Sharma, Jagesh Tiwari, Rasna Zinta, Gopal Singh & Arun Kumar
	TSI-OP3: Interventions for conservation, productivity enhancement and nutrient assessment of medicinal and edible forest species	Vipan Guleria, Forestry Regional Horticultural RS Jachh (Kangra), Dr Y.S. Parmar University of Horticulture and Forestry Co-authors - Amol Vashisth, Renu Kapoor, Rajesh Kaler & Dharmender Kumar
	TS1-OP4:Reaching the unreached farm- ing community through recent exten- sion methods	D.D. Sharma, Shoolini University, Solan Co-author - Shareya
13.35-13.45	Discussion and Co-Chairs' Remarks	
13.45-14.45	Lunch Break	
Tra	its Discovery and Genomics in P (2.45 p.m.–5.40 p.m.) (Concurrent Poster Session	
Co-Chair	B.S. Dhillon, Former VC, PAU, Ludhiana	
	Atul Khosla, VC, Shoolini University, Solan	
Co-Chair Convenor	Atul Khosla, VC, Shoolini University, Solan M.C. Yadav, ICAR-NBPGR, New Delhi	
Convenor	Atul Khosla, VC, Shoolini University, Solan M.C. Yadav, ICAR-NBPGR, New Delhi D.P. Walia, ICAR-IARI, Regional Station, Shir	mla
	Atul Khosla, VC, Shoolini University, Solan M.C. Yadav, ICAR-NBPGR, New Delhi D.P. Walia, ICAR-IARI, Regional Station, Shir Monika Singh, ICAR-NBPGR, New Delhi	mla
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Convenor Rapporteurs 14.45-14.50 14.50-15.10	Atul Khosla, VC, Shoolini University, Solan M.C. Yadav, ICAR-NBPGR, New Delhi D.P. Walia, ICAR-IARI, Regional Station, Shir Monika Singh, ICAR-NBPGR, New Delhi Salej Sood, ICAR-CPRI, Shimla Welcome Keynote Lecture Genomics for germplasm improvement and utilization Invited Lectures Genomics for conserving Himalayan	Convenor S.K. Yadav, CSIR-IHBT, Palampur
Convenor Rapporteurs 14.45-14.50 14.50-15.10	Atul Khosla, VC, Shoolini University, Solan M.C. Yadav, ICAR-NBPGR, New Delhi D.P. Walia, ICAR-IARI, Regional Station, Shir Monika Singh, ICAR-NBPGR, New Delhi Salej Sood, ICAR-CPRI, Shimla Welcome Keynote Lecture Genomics for germplasm improvement and utilization Invited Lectures Genomics for conserving Himalayan food crops Genomics of medicinal plants: status	Convenor S.K. Yadav, CSIR-IHBT, Palampur R.K. Chahota, CSKHPKV, Palampur
Convenor Rapporteurs 14.45-14.50 14.50-15.10 15.10-15.25 15.25-15.40	Atul Khosla, VC, Shoolini University, Solan M.C. Yadav, ICAR-NBPGR, New Delhi D.P. Walia, ICAR-IARI, Regional Station, Shir Monika Singh, ICAR-NBPGR, New Delhi Salej Sood, ICAR-CPRI, Shimla Welcome Keynote Lecture Genomics for germplasm improvement and utilization Invited Lectures Genomics for conserving Himalayan food crops Genomics of medicinal plants: status and prospects Harnessing synergies in PGR utilization	Convenor S.K. Yadav, CSIR-IHBT, Palampur R.K. Chahota, CSKHPKV, Palampur R.K. Sharma, CSIR-IHBT, Palampur Aashish Barwale, Seven Star Fruits Pvt
Convenor Rapporteurs 14.45-14.50 14.50-15.10 15.10-15.25 15.25-15.40 15.40-15.55	Atul Khosla, VC, Shoolini University, Solan M.C. Yadav, ICAR-NBPGR, New Delhi D.P. Walia, ICAR-IARI, Regional Station, Shir Monika Singh, ICAR-NBPGR, New Delhi Salej Sood, ICAR-CPRI, Shimla Welcome Keynote Lecture Genomics for germplasm improvement and utilization Invited Lectures Genomics for conserving Himalayan food crops Genomics of medicinal plants: status and prospects Harnessing synergies in PGR utilization through public-private partnership	Convenor S.K. Yadav, CSIR-IHBT, Palampur R.K. Chahota, CSKHPKV, Palampur R.K. Sharma, CSIR-IHBT, Palampur Aashish Barwale, Seven Star Fruits Pvt
Convenor Rapporteurs 14.45-14.50 14.50-15.10 15.10-15.25 15.25-15.40 15.40-15.55 15.55-16.15	Atul Khosla, VC, Shoolini University, Solan M.C. Yadav, ICAR-NBPGR, New Delhi D.P. Walia, ICAR-IARI, Regional Station, Shir Monika Singh, ICAR-NBPGR, New Delhi Salej Sood, ICAR-CPRI, Shimla Welcome Keynote Lecture Genomics for germplasm improvement and utilization Invited Lectures Genomics for conserving Himalayan food crops Genomics of medicinal plants: status and prospects Harnessing synergies in PGR utilization through public-private partnership Tea/Coffee Break Rapid Oral Presentations (7-6 min.	Convenor S.K. Yadav, CSIR-IHBT, Palampur R.K. Chahota, CSKHPKV, Palampur R.K. Sharma, CSIR-IHBT, Palampur Aashish Barwale, Seven Star Fruits Pvt

Co-authors - Avantika Maurya, Rajat Gupta, Dimpi Das, Gautam Vats, Ajay Kumar Mahato, S. Rajkumar, A.K. Singh, Rakesh Bhardwaj, S.K. Kaushik, Sandeep Kumar, Veena Gupta, Kuldeep Singh & Rakesh Singh
Jyoti Kumari, ICAR-NBPGR, New Delhi Co-authorsShivani Sharma, Sherry Rachel Jacob, Arun Gupta, Ashwani Ba- sandrai, Sivasamy M., Vikas V.K., Lakshmi

TS-II-OP2: Search of novel donor germplasm for powdery mildew resistance in wheat minicore

Rachel Jacob, Arun Gupta, Ashwani Basandrai, Sivasamy M., Vikas V.K., Lakshmi Kant, K K Mishra, Preeti Jakhar, Gaurav Kumar, Vasudha Jadon, Sundeep Kumar, Ashok Kumar, R.K. Gautam & G.P. Singh

TSII-OP3: Identification and development of yellow rust resistant sources in wheat using conventional, molecular and doubled haploidy breeding Madhu Patial, ICAR-IARI, RS Shimla

TSII-OP4: Morphological characterization of magic population reveals extensive genetic variation for morpho-physiological and yield-related traits in bread wheat (Triticum aestivum L.)

Sharmila M, ICAR-NBPGR, New Delhi **Co-authors-** Shailesh Tiwari & Mahesh C. Yadav

TSII-OP5: Genome-wide association mapping of grain quality traits in rice using single-locusand multi-locus models

Avantika Maurya, ICAR-NBPGR, New Delhi

Co-authors - Rakesh Singh, Supriya Sachdeva, Vikas K. Singh, Uma M. Singh, Arvind Kumar & G.P. Singh

TS-II-OP6: Mapping and mining of major genomic regions conferring resistance to Bruchid (Callosobruchus maculatus) in blackgram (Vigna mungo (L.) Hepper)

Ragul S. TNAU, Coimbatore Co-author - Manivannan N

TS-II-OP7: Molecular and tepal morphology in delineating vegetable Amaranthus species complex conserved in Indian National Gene Bank

Pooja Pathania, ICAR-NBPGR, New Delhi **Co-authors -** Venugopal Gowda R. & S. Rajkumar

17.15-17.30	Discussion & Co-Chairs Remarks	
17.30-17.40	Comfort Break	
	Evening Lecture and Cultural Program	
Co-Chair	R.C. Agrawal, DDG (Agric. Education), ICAR,	New Delhi
	R.K. Tyagi, Vice President, ISPGR, New Delhi	
Convenor	Sanjeev Kumar Chauhan, YSPUHF, Solan	
	J.K. Sharma, Baddi University, Baddi, Solan	
Rapporteurs	Lokender Kumar, Shoolini University, Solan	
	Anil Kumar, ICAR-DMR, Solan	
17.40-17.45	Introduction of Speaker	Convenor
17.45-18.30	Global Concerns for PGR Management	R.S. Paroda, TAAS, New Delhi
18.30-18.35	Chairperson Remarks	
18.35-18.40	Vote of Thanks	Yashwant Singh Negi, Shoolini University, Solan
18.40-18.50	Break	
18.50-19.45	Cultural Program	
19.45 onwards	Welcome Dinner (Hosted by Chancellor, S	Shoolini University, Shoolini)

Day 2: November	28, 2023	(Tuesday)
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TECHNICAL SESSION III

In situ/on-farm, ex situ Conservation and Access & Benefit Sharing

(9.30 a.m. – 11.55 a.m.) (Concurrent Doctor Section)

	(Concurrent Poster Session	1)
Co-Chair	K.R. Dhiman, Former VC,YSPUHF, Solan	
	J.C. Rana, Vice President, ISPGR, New Delhi	
Convenor	Anju Mahendru Singh, ICAR-NBPGR, New [Delhi
	S.K. Gupta, Shoolini University, Solan	
Rapporteurs	Jyoti Kumari, ICAR-NBPGR, New Delhi	
	Narender Negi, ICAR-NBPGR, RS Shimla	
9.30-9.35	Welcome	Convenor
9.35-10.00	Plenary Lecture Protection of plant varieties and farmer's rights in context of N-W Himalayas	Dipal Roy Chaudhury, PPV&FRA, New Delhi
10.00-10.15	Invited Lectures Use of genetic resources in crop improvement	Mohar Singh, ICAR-NBPGR, RS, Shimla
10.15-10.30	Conservation of native arborial flora of N-W Himalayas: status, challenges and prospects	Vaneet Jishtu, ICFRE-HFRI Shimla
10.30-10.45	Biological Diversity Act and its relevance in conservation of unique Himalayan flora	Murari Lal Thakur, HIMCOSTE, Shimla
10.45-11.15	Tea/Coffee Break	
11.15-11.35	Rapid Oral Presentations (4-6min. each)	
	TSIII-OP1: Ex situ conservation of wild Allium genetic resources at NBPGR Bhowali field genebank	K.M. Rai, ICAR-NBPGR, RS Bhowali Co-authors - Pavan Malav, Pankaj Kumar Kannaujia, Narendra Negi & Mamta Arya
	TSIII-OP2: Conservation of wheat and	Sherry Rachel Jacob, ICAR-NBPGR, New
	barley genetic resources of North-West- ern Himalayas inthe National Genebank	Co-authors - Shashank H.G., Sampa Saha, Aradhana Mishra, Aravind J., Padmavati
	TSIII-OP3: Conservation and Characterisation of Protected Farmer's Varieties of Apricot of Cold Arid Region for future breeding programmes in Kargil (UT-Ladakh)	Gore & Anju Mahendru Singh
	TSIII-OP4: Advanced methods of conservation of plant biodiversity TSIII-OP4: Advanced methods of conservation of conservations of conservatio	Faizan Ahmad, Mountain Agriculture Research and Extension Station, Kargil SKUAST-Jammu and Kashmir Neha Rani, Dr Y.S. Parmar, College of Horsish Land Control of Cont
	vation of plant biodiversity	ticulture and Forestry Co-authors - B.S. Dilta & Bhavna Rajku- mari
11.35-11.55	Discussion & Co-Chairs Remarks	

TECHNICAL SESSION IV

Plant Biodiversity in Local Food System

(11.55 a.m.-3.00p.m.) (Concurrent Poster Session)

R.S. Chandel, YSPUHF, Solan Co-Chair

Brajesh Singh, Director, ICAR-CPRI, Shimla

Convenors Manjusha Verma, ICAR-NBPGR, New Delhi

Somesh Sharma, Shoolini University, Solan

Rapporteurs	Rakesh Sharma, YSPUHF, Solan	
	Ravi K. Pamarthi, ICAR-NBPGR, New Delhi	
	Keynote Lecture	
12.00-12.20	Mainstreaming agrobiodiversity for en- hancing climate resilience, nutrition, livelihoods and ecosystems service	J.C. Rana, Alliance for BI and CIAT, New Delhi
	Invited Lecture	
12.20-12.35	Status and nutritional value of mush- room	V.P. Sharma, ICAR-DMR, Solan
12.35-12.50	Underutilized temperate fruit species in the Western Himalayas - scope for en- hancing rural livelihoods and improving food security	K.K. Jindal, Former ADG (Horticulture), ICAR, New Delhi
12.50-13.05	Medicinal value of local plant diversity of N-W Himalayas	Bhupinder Dutt, Professor YSPUHF, Solan
13.05-13.20	Traditional food of Himachal Pradesh	Nand Lal Sharma, Himachal Pradesh Tour- ism Development Corporation
13.20-14.20	Lunch break	
14.20-14.45	Rapid Oral Presentations (4-6 min. each)	
	TSIV-OP1: Evaluation of potato ger- mplasm in early crop season	Babita Chaudhary, ICAR-CPRI, Modipuram, Meerut Co-authors – S.K. Luthra, Anuj Bhatnagar, V.K. Gupta, Dalamu & Vinod Kumar
	TSIV-02: Reviving grasspea (Lathyrus sati- vus L.) - a potential green leafy vegetable source for the Himalayan regions	Ramya KR, ICAR-NBPGR, New Delhi Co-authors - Kuldeep Tripathi, Ravi K. Pamarthi, Padmavati G. Gore, Rinky Reshma Panda, Rakesh Bharadwaj & K.C. Bhatt
	TSIV-OP3: Understanding genetic varia- bility for morphological and nutritional traits in the linseed germplasm collection at National Genebank of India	Vikender Kaur, ICAR-NBPGR, New Delhi Co-authors - Sunil S. Gomashe, Shashank K. Yadav, Devender Singh, Vinay Kumar, Sheela, Shubhendra Singh Chauhan, Balram Jat, Munisha Kheralia, Sapna Lang- yan, Nutan Kaushik, Mamta Singh, D.P. Wankhede, J Aravind, Ashok Kumar & G.P. Singh
	TSIV-OP4: Agricultural biodiversity: par- ticipatory knowledge and autonomous learning for rural food systems	Bhavna Rajkumari, Dr Y.S. Parmar, College of Horticulture and Forestry Co-authors - B.S. Dilta, Chinglembi Laishram & Neha Rana
14.45-15.00	Discussion & Co-Chairs Remarks	
Entrepren	TECHNICAL SESSION V eurship and value chains – Role ((3.00p.m. –5.15p.m.) (Concurrent Poster Session	
Co-Chair	Parvinder Kaushal, VC, UUHF, Pauri Garhw	al
	Anuradha Agrawal, National Coordinator, N	NAHEP, ICAR, New Delhi
Convenors	Pankaj Sood, KVK, Mandi	
	Ramesh Bhardwaj, YSPUHF, Solan	
Rapporteurs	Vikender Kaur, ICAR-NBPGR, New Delhi	
	Anil Kumar, ICAR-DMR, Solan	

15.00-15.05	Welcome	Convenor
	Keynote Lecture	
15.05-15.25	Role of potato in entrepreneurship devel- opment	Brajesh Singh, ICAR-CPRI, Shimla
	Invited Lectures	
15.25-15.40	High density apple plantation (HDAP)	D.P. Sharma, YSPUHF, Solan
15.40-15.55	Unlocking native mountain crops for livelihood and enterprise development	Lal Singh, HRG, Shimla
15.55-16.20	Tea/Coffee Break	
16.20-16.30	Developing recipes/products of tradition- al crops of N-W Himalayas	Rahul Saxena, Back to Basics Naturally LLP, Palampur
16.30-16.40	Developing recipes/products of Himala- yan plant diversity	Joginder Walia, Society for Technology and Development, Mandi
16.40-16.50	Value addition of millets	Sneha, Women Self Help Group, Gohar, Mandi
16.50-17.00	Promotion of local plant diversity of N-W Himalayas for developing products and value chain in Uttarakhand	Nav Bharat, Mount Valley Development Association, Doni, Tehri Garhwal
17.00-17.15	Discussion & Co-Chairs Remarks	
	Concluding Session (5.15 p.m. –6.45 p.m.)	
Co-Chair	R.S. Paroda, President, ISPGR, New Delhi	
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	P.K. Khosla, Chancellor, Shoolini University,	Solan
Convenors	P.K. Khosla, Chancellor, Shoolini University,R.K. Tyagi, ISPGR, New Delhi	Solan
Convenors		
Convenors Rapporteurs	R.K. Tyagi, ISPGR, New Delhi	
	R.K. Tyagi, ISPGR, New Delhi Yashwant Singh Negi, Shoolini University, S	
	R.K. Tyagi, ISPGR, New Delhi Yashwant Singh Negi, Shoolini University, S Sherry R. Jacob, ICAR-NBPGR, New Delhi	
Rapporteurs	R.K. Tyagi, ISPGR, New Delhi Yashwant Singh Negi, Shoolini University, S Sherry R. Jacob, ICAR-NBPGR, New Delhi Pankaj Chauhan, Shoolini University, Solan	olan
Rapporteurs 17.15-17.30	R.K. Tyagi, ISPGR, New Delhi Yashwant Singh Negi, Shoolini University, S Sherry R. Jacob, ICAR-NBPGR, New Delhi Pankaj Chauhan, Shoolini University, Solan Summary of Major Recommendations	olan
Rapporteurs 17.15-17.30 17.30-18.05	R.K. Tyagi, ISPGR, New Delhi Yashwant Singh Negi, Shoolini University, S Sherry R. Jacob, ICAR-NBPGR, New Delhi Pankaj Chauhan, Shoolini University, Solan Summary of Major Recommendations Felicitations and Award Distribution	olan

