



Society for Advancement of Wheat Research

SAWR

Year Book 2014

Directorate of Wheat Research
Karnal - 132 001, India



Society for Advancement of Wheat Research

(Registered under Societies Registration Act, 1860)

(Registration No. ROF-029)

SAWR Year Book- 2014

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Published by: Dr. RK Sharma, General Secretary,
Society for Advancement of Wheat Research,
Directorate of Wheat Research,
Karnal- 132 001, India
Email: gs.sawr@gmail.com; Phone: 94162-52374

<http://epubs.icar.org.in/ejournal/index.php/JWR>

Compiled & edited by: Dr. Gyanendra Singh, Associate Editor
Dr. BS Tyagi, Member- Editorial Team
Dr. RK Sharma, General Secretary

Number of copies printed: 300

First Edition: August, 2014



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Foreword

It is my proud privilege to put on records that the encouraging response, received from the researchers engaged in wheat and barley crops, esteemed society members, particularly the younger generation, has also prompted us to initiate the publication of first book of the Society for Advancement of Wheat Research



(SAWR) as year book 2014. This publication encompasses brief information on current and past executive councils, objectives, MSM Award fellows-2014, life members & annual members and other details. This year the CEC decided to honour all the life members who joined the society in its establishment year and the following year (2007-09) and sought information from all such members to publish it as much awaited SAWR year book. I am pleased to place this information in the form of book before all of you.

The particulars as furnished by all the members have been compiled in this book highlighting personal details and contributions. Moreover, since the changes in the addresses of SAWR members spread all over the world are so fast and frequent that some addresses in this book may still be short of being the latest. If you have any suggestion to make the book more impressive please feel free to contact the Society. Your valued suggestions/ criticism for the improvement of the next edition will be most welcome and highly appreciated.

I am privileged to state that SAWR is now expanding fast as the exclusive journal on wheat & barley research published by the society has been awarded NAAS rating of 3.11 effective from January 2014. I would like to approach and request you to join this society as member and contribute quality articles for publication in coming issues of this journal to further uplift its standard.

During 2013-14, a new initiative of institutionalizing an award in the name of Late Prof Mahatim Singh, by his son Dr GP Singh has added new feather in the society and we sincerely thank him for this gesture.

I greatly acknowledge the cooperation and support received from the executive council particularly editorial team members. It is hoped that this publication will be useful to all as a resource bank and bring the members of SAWR family closer.

Indu Sharma
President

Society for Advancement of Wheat Research

Executive Council (2007-11)

President	B Mishra, Karnal
Vice Presidents	Jag Shoran, Karnal AK Sharma, Karnal
General Secretary	Ravish Chatrath, Karnal
Treasurer	RK Gupta, Karnal
Joint Treasurer	Randhir Singh, Karnal
Executive Editors	D Mohan, M Prashar, RPS Verma and J Rane
Associate Editors	SC Tripathi, J Kumar, Sewa Ram, AK Singh, R Tiwari, BS Tyagi and KS Babu
Chief Editor	B Mishra, Karnal
Editor	J Kumar, Karnal Ravish Chatrath, Karnal
Editors – Special Issue (Vol. 3, No. 1, 2011)	Indu Sharma, Gyanendra Singh and P Sharma

SAWR – Objectives

- To provide opportunities for the dissemination and exchange of knowledge on latest developments in wheat and barley research through publications, conferences, seminars, symposia, lectures and training programs.
- To practice and promote a high standard of objectivity, scientific expertise and technical proficiency.
- To provide consultancy in wheat and barley.
- To facilitate research and industry collaboration and public private partnership at the national level.
- Holding periodic meetings of members of the SAWR.
- To honour outstanding achievers in wheat and barley research and development.
- Developing links with other organizations with similar objectives.
- Any other activity which is in conformity with the aims of the Society.

Society for Advancement of Wheat Research

Executive Council for 2011-2015

President	Indu Sharma, Karnal
Vice Presidents	RK Gupta, Karnal KV Prabhu, New Delhi
General Secretary	RK Sharma, Karnal
Joint Secretary	GP Singh, New Delhi
Treasurer	Sindhu Sareen, Karnal
Joint Treasurer	Rekha Malik, Karnal
Executive Editor	Rajbir Yadav, New Delhi
Associate Editor	Gyanendra Singh, Karnal
Ex-Officio Member	B Mishra, Past President

CEC Nominated Members

Praveen Chhuneja, Ludhiana; SA Desai, Dharwad;
AK Chowdhury, Coochbehar; SV Sai Prasad, Indore;
AK Joshi, Kathmandu and J Rane, Baramati

Editorial Board Members (Indian)

PC Mishra, Powarkhedra; YS Paul, Palampur; NB Singh, Kanpur;
DA Gadekar, Niphad; Rajender Prasad, New Delhi; IS Panwar, Hisar;
Dinesh Kumar, Karnal; BS Tyagi, Karnal; MS Saharan, Karnal;
RS Chhokar, Karnal; Pradeep Sharma, Karnal;
Sendhil R, Karnal and OP Gupta, Karnal

Consulting Editors (Overseas)

Beat Keller, Switzerland; Peter Shewry, UK; RC Sharma, Ukrain;
RA Richard, Australia; Richard Trethovan, Australia; Karim Ammar, Mexico;
RL Bowden, USA and Kaushik Majumdar, USA

Prof. Mahatim Singh Memorial Award 2014

Prof. Mahatim Singh Memorial Award - 2014


Name	Dr. Rajender Singh Chhokar	
Designation & Affiliation	Senior Scientist (Agronomy), Directorate of Wheat Research, Karnal (Haryana)	
Specialization	Wheat Agronomy, Weed management in wheat based system	
Postal Address	ICAR-Directorate of Wheat Research, Karnal-132001, Haryana	
Email	rs_chhokar@yahoo.co.in	
Mobile/ Phone	0184-2209112 (O), 09416296262 (M)	

CITATION

Dr. RS CHHOKAR graduated with Gold Medal and did M.Sc & Ph.D from Chowdhary Charan Singh Haryana Agricultural University, Hisar in the discipline Agronomy securing first position. Presently, he is working as senior scientist (Agronomy) at Directorate of Wheat Research, Karnal and involved in the research, co-ordination and extension programme of the Directorate. Dr. Chhokar has 16 years of research experience in wheat and barley. During the past sixteen years, he was associated in 13 institutional and 4 national and 3 international externally funded projects. He also handled about 40 contract research projects as Project Leader. He has made significant research contributions in the field of weed management in wheat based cropping system with special emphasis on herbicide resistance management, wheat agronomy, and conservation agriculture. He reported the first case of multiple herbicide resistance in *Phalaris minor* and metsulfuron resistance in *Rumex dentatus* in India, and developed their effective management strategies. He has also developed effective weed management options for wheat, rice and barley. He has published 57 research papers in international and national journals, 6 book chapters, 55 popular articles, and 26 research and extension bulletins. He is recipient of the Distinguished Scientist Award 2008 by Society for Recent Development in Agriculture, DWR Best Field Scientist Award 2013 and fellow of the Indian society of weed science 2013.

SAWR Fellows 2014


SAWR Fellow-2014

Name	Dr. Indu Sharma	
Date of Birth & Place	12.01.1954, Hoshiyarpur, Punjab	
Designation & Affiliation	Project Director, Directorate of Wheat Research, Karnal-132 001, India	
Specialization	Plant Pathology	
Postal Address	ICAR-Directorate of Wheat Research, Karnal-132001, Haryana	
Email	ispddwr@gmail.com	
Mobile/ Phone	9416800857 (M)	

CITATION

Dr. Indu Sharma is a distinguished scientist who has made significant contribution in the field of agricultural sciences in Plant Pathology and Wheat Improvement. She has a unique distinction of heading Directorate of Wheat Research one of the largest AICW&BIP on wheat and barley crops. Her research contributions have been recognized at national and international levels. She had been recipient of a few awards and many other recognitions including Best Women Scientist Award of ICAR. She is a Member of several International Organizing Committees and acted as Chairman in various international and national seminar/symposia. She is involved with 46 commercial varieties of bread wheat, durum wheat, triticale and barley. She has more than thirty three years of research experience in wheat and handled about 15 research projects. She made significant contributions towards Karnal bunt which is a disease of quarantine significance. She was instrumental in standardization of inoculation technique which was widely adopted leading to identification of stable sources of Karnal Bunt resistance. To manage the disease in endemic areas, resistance was incorporated in high-yielding wheat varieties which will be beneficial in facilitating global wheat trade to earn foreign exchange. She made special efforts for managing stripe rust in high disease prone areas since, 2011. She has published 125 research papers in reputed journals and authored/edited four books.

SAWR Fellow-2014

Name	Dr. B Mishra	
Date of Birth & Place	14.04.1947, Varanasi, India	
Designation & Affiliation	Former Vice Chancellor, SKUAS&T - Jammu	
Specialization	Plant Breeding	
Postal Address	Former VC, SKUAS&T-Jammu, Flat No. B-63, IDC CGHS Apartments, Plot 8-C, Sector-11, Dwarka, New Delhi - 110075	
Email	b9mishra@gmail.com	
Mobile/ Phone	9582500093 (M)	

CITATION

Dr B. Mishra, a distinguished scientist having 42 years of experience including 24 years in managerial positions and has unique distinction of heading the two most important national programs contributing significantly towards national food and nutritional security. Worked for 3 years in IRRI, Philippines and University of Sussex, U.K. and has wide exposure to many countries. Dr. Mishra has coordinated international (ICAR-UNDP & IRRI-ADB, Indo-UK, CSSRI-UoS, IRRI, DFID and World Bank/EEU aided CSSRI-UPLDC project, ACIAR-ICAR, Indo-Swiss (ISCB), ICAR-IRRI, ICAR-CIMMYT, ICAR-ICARDA, ICAR-IRRI) and national (ICAR and MRF, NATP Mission Mode, Functional Genomics, ICAR Network Project on Gene Pyramiding; Golden Rice, Bio fortification and Rice-Wheat Cropping System) programs. Contributed to the development of 7 rice, one hybrid rice, improved Sambha Mahsuri, one wheat and one malt barley varieties. Pioneer in release of CSR 30 (first basmati salt tolerant export quality rice variety). He is awardee of Rafi Ahmed Kidwai, Hari Om Ashram Trust, Rao Bahadur Dr. Ram Dhan Singh Memorial, AK Richharia, International Senadhira and recently honoured for outstanding contribution in the development of basmati CSR 30. Has 539 publications including 103 refereed research papers, guided 8 PhD & 3 M.Sc students and organized 7 international and 150 national symposium/meetings.

SAWR Fellow-2014

Name	Dr. RK Gupta	
Date of Birth & Place	01-03-1956, Agra, India	
Designation & Affiliation	PS and PI (Quality and Basic Sciences), Directorate of Wheat Research, Karnal	
Specialization	Quality and Basic Sciences	
Postal Address	ICAR-Directorate of Wheat Research, Karnal-132001, Haryana	
Email	rkgupta_dwr@yahoo.com	
Mobile/ Phone	9996980619 (M)	

CITATION

Dr. Raj Kumar Gupta was born on 1st March, 1956 at Agra, Uttar Pradesh. He has more than 35 years' research experience mainly on wheat crop. Starting career as scientist on 30th August, 1978 he worked at ICAR Research Complex for NEH Region, Shillong, Nagaland and Sikkim. He served at CSSRI, Karnal as Senior Scientist w.e.f. May, 1988 to February, 1995 and then at DWR, Karnal. Since December, 2001, he is working as PI in Quality and Basic Sciences, DWR, Karnal. Dr. Gupta is working on wheat quality coordination programme of AICW&BIP, identification & development of product specific & nutritionally rich varieties, use of molecular marker technology approach in wheat quality improvement, quality of Indian wheat, analysis of FCI wheat grain samples for export purposes etc. He has more than 60 peer reviewed research papers, 3 e-publication, 10 book chapters, 30 popular articles, 10 bulletins, more than 40 technical reports and about 40 abstracts in national and international seminar/symposia. He has worked and completed about 20 institutional, 7 inter-institutional, 2 foreign funded and 4 contract research projects. He was recipient of Manthan Award 2009 for contributions in developing the Wheat Expert System. He has visited USA, Thailand (3), Australia, Nepal and Bangladesh.

SAWR Fellow-2014

Name	Dr. Ravish Chatrath	
Date of Birth & Place	18.04.1957, Shimla (HP)	
Designation & Affiliation	Principal Scientist, (Plant Breeding), Directorate of Wheat Research, Karnal	
Specialization	Plant Breeding	
Postal Address	ICAR-Directorate of Wheat Research, Karnal-132001, Haryana	
Email	r.chatrath@gmail.com	
Mobile/ Phone	9416177625 (M)	

CITATION

Joined ARS on 2nd March, 1985 at CAZRI, Jodhpur and after a short stint as pearl millet breeder in All India Pearl millet Project joined CSSRI, Karnal as wheat breeder in 1988. Besides developing salt tolerant wheat variety KRL 19 and genetic stocks namely, KRL 35, KRL 99 and KRL 3-4 for salt stress conditions, developed screening protocols. Selected as Principal Scientist at Directorate of Wheat Research, Karnal in Nov 2001. Since then developed 08 high yielding, disease resistant wheat varieties DBW 14, DBW 16, DBW 17, CBW 38, DBW 39, DPW 621-50, DBW 71 and DBW 90 for rice wheat cropping system of the northern plains. Also developed 16 genetic stocks for unique traits registered with NBPGR, New Delhi. Worked in several national and international collaborative projects as Principal Investigator and worked on aspects like farmers' participatory approach, molecular marker integration in conventional breeding, data management, bioinformatics, root architecture and wheat biofortification.


SAWR Fellow-2014

Name	Dr. Jagadish Rane	
Date of Birth & Place	22.07.1964, India	
Designation & Affiliation	Head, School of Drought Stress Management, NIASM, Malegaon, Baramati, Pune -413115	
Specialization	Crop Physiology	
Postal Address	ICAR-National Institute of Abiotic Stress Management (NIASM), Malegaon, Baramati, Pune 413115	
Email	jagrane@hotmail.com	
Mobile/ Phone	9404684508 (M)	

CITATION

Dr. Jagadish Rane has actively contributed towards research on phenotyping techniques, which are crucial for understanding and improving crop tolerance to abiotic stress such as drought, waterlogging and high temperature. He conceptualised high temperature index for quantifying temperature stress experienced by plants under field condition and played a crucial role in establishing phenotyping facilities at DWR, Karnal; CIAT, Cali; Colombia and at NIASM, Baramati. His initiatives to design and promote field phenotyping are gaining momentum to support genomics approach for genetic improvement of crops. Information generated under his leadership in multi-institutional research network for physiological investigation on heat and drought tolerance served as basis for registration of genetic stocks and also propelled development of promising high yielding varieties. He was one of the key member of international team of scientists who made IR64, a mega variety of rice, tolerant to drought for the first time by employing root architecture specific molecular and phenomics approach and this was successfully demonstrated in field conditions. This pioneering work has been published in the top most international journal "Nature Genetics" in 2013.


SAWR Fellow-2014

Name	Dr. J Kumar	
Date of Birth & Place	06.08.1959, India	
Designation & Affiliation	Principal Scientist and Head, IARI, Regional Station, Shimla	
Specialization	Plant Pathology	
Postal Address	ICAR-IARI, Regional Station, Shimla – 171004, H.P.	
Email	moola01@yahoo.com	
Mobile/ Phone	9418629683 (M)	

CITATION

Dr J Kumar has research experience of 35 years in plant protection and published more than 278 scientific documents including 77 research papers. Dr Kumar has exposure to the modern advanced trends of research in conventional and molecular plant pathology at CIMMYT, Mexico and Justus Liebig University, Germany. He has been regular Head of IARI, Regional Station Wellington and Amartara Cottage, Shimla. About 30 high yielding popular wheat cultivars have been incorporated with durable disease resistant genes and regularly monitored race flora of wheat rusts in southern and central India. Rich experience of germplasm and seed preservation, landscape development, farm management, CPWD mediated construction works, Zonal Coordinator - Wheat (South Hill Zone), Six wheat varieties released, two genetic stocks registered with NBPGR, wheat cultivation popularised in non traditional areas of Tamil Nadu and Karnataka. Holder of National Scholarship, UNDP & HRDP fellowships, Humboldt fellowship (Germany), Chaudhary Devi Lal Outstanding All India Coordinated Research Project award, Sh. V.P. Gokhale Award, President, IPS-2008 (north zone), Scroll of honour from Indian Phytopathological Society, best research team award of DWR, Karnal, Councillorship - 2 terms (north zone), ISOMPP, Member board of management, IARI, New Delhi and Sugarcane Breeding Institute, Coimbatore.


SAWR Fellow-2014

Name	Dr. Ratan Tiwari	
Date of Birth & Place	17.08.1964, Village-Delauhan, Allahabad	
Designation & Affiliation	Principal Scientist, Directorate of Wheat Research, Karnal (Haryana)	
Specialization	Molecular biology interventions for heat tolerance and rust resistance in wheat	
Postal Address	ICAR-Directorate of Wheat Research, Karnal-132001, Haryana	
Email	tiwari1964@yahoo.com	
Mobile/ Phone	0184-2209136 (O), 9416650890 (M)	

CITATION

Dr Ratan Tiwari has more than 20 years of research experience in wheat improvement. He is recipient of CSIR-NET (JRF & SRF), ICAR (Junior Fellow) and Merit scholarship of Banaras Hindu University. He has to his credit a wheat variety DBW 88 released by the CVRC in 2014 for irrigated and timely sown conditions of NWPZ. He developed trait specific biparental mapping populations, association mapping and MAGIC populations and genotypes through MABB approach. Two high grain protein (>13%) genetic stocks were also developed. He has published more than 40 peer reviewed research papers, making a total of more than 110 publications. He developed a state-of-the-art temperature controlled phenotyping facility for screening wheat genotypes against heat stress. He has been PI/Co-PI of several International (Indo-Swiss and Indo-Australian) and national (DBT, ICAR) projects. He has mentored several students, including Ph.D., M.Sc. and secondary school students under the DST's INSPIRE programme. He has been member of board of studies of different universities & editorial board member of the journals. He has written, composed and sung the well appreciated Invocation song of DWR presently available at the Institute's website.


SAWR Fellow-2014

Name	Dr. Subhash Chandra Tripathi	
Date of Birth & Place	02.10.1964, India	
Designation & Affiliation	Principal Scientist (Agronomy), Directorate of Wheat Research, Karnal (Haryana)	
Specialization	Wheat Based Cropping System	
Postal Address	ICAR-Directorate of Wheat Research, Karnal-132001, Haryana	
Email	subhtrpathi@gmail.com	
Mobile/ Phone	094166 51464(M)	

CITATION

Completed B. Sc. Ag. & A.H. in 1986 & M. Sc. Ag. (Agronomy) in 1988 from GBPUA&T, Pantnagar and Ph. D. (Agronomy) in 2000 from PAU, Ludhiana in a collaborative arrangement with CIMMYT, Mexico. Joined Agricultural Research Service (ARS) of Indian Council of Agricultural Research as Scientist (Agronomy) in 1991. Worked on Resource Conservation Technologies (RCTs) and diversification/intensification of rice-wheat system. Major achievements were developing agronomy of zero till wheat and establishing tillage and genotype interaction for grain yield, which provided clue to the breeders for tailoring of wheat genotypes suited to RCTs. Characterized morphological and fibre characters of wheat culm for lodging resistance and bed planting technology for irrigation water saving and reducing lodging and weed population. Recent work includes intensification of rice –wheat system with inclusion of green gram or cowpea after wheat and vegetable pea after rice for sustainability of rice-wheat system. Published 30 research papers, 4 short notes, 10 book chapters, 11 research /technical bulletins, 30 abstracts, 28 popular articles and 26 technical reports. Visited Mexico, USA, Singapur, and Vietnam to undertake various scientific assignments.

SAWR Fellow-2014

Name	Dr. Devinder Mohan	
Date of Birth & Place	July 22, 1955, Bharatpur (Rajasthan)	
Designation & Affiliation	Principal Scientist (Quality Section), Directorate of Wheat Research, Karnal (Haryana)	
Specialization	Plant Breeding	
Postal Address	ICAR-Directorate of Wheat Research, Karnal-132001, Haryana	
Email	devmohan@gmail.com	
Mobile/ Phone	08814067087 (M)	

CITATION

Worked as Small Millets Breeder at VPKAS, Almora during the period (Oct 1982-Jan 1992) and released three varieties in finger millet, two in barnyard millet and one in buck wheat. Joined Directorate of Wheat Research, Karnal in Jan 1992 and worked in Genetic Resources Unit for eight years. Headed the first in-house project of the Directorate on germplasm evaluation and maintenance. Worked on abiotic stresses related to early heat and drought. Formulated in-house project on limited irrigations later on and identified several genetic resources useful for moisture stress conditions. Joined Quality group of the Directorate in 2003 and identified several useful genetic resources related with protein, sedimentation value, grain hardness and soft grains. Presently working on enhancing product making quality of *Triticum aestivum* and material developed is in advance stage of testing.

SAWR Fellow-2014

Name	Dr. Arun Kumar Sharma	
Date of Birth & Place	01. 09. 1953, India	
Designation & Affiliation	Director, National Bureau of Agriculturally Important Microorganisms, Mau, U.P.	
Specialization	Plant Pathology	
Postal Address	ICAR-National Bureau of Agriculturally Important Microorganisms, Kushmaur, Mau, U.P.	
Email	arun.dwr@gmail.com, nbaimicar@gmail.com	
Mobile/ Phone	09452573390 (M), 09416600221 (M)	

CITATION

Dr. Arun Kumar Sharma is working as Director, National Bureau of Agriculturally Important Microorganisms, Mau. He has worked as Principal Investigator (Crop Protection Programme) for more than 17 years. During this period, several disease / rust resistant varieties and effective disease management strategies were developed. He has a vast experience of working on rusts and other major diseases of wheat. Through his efforts as the PI and Survey and surveillance programme, he contributed in avoiding the epidemics of Rust diseases of wheat in India, especially of yellow rust in NWPZ. He introduced IPM in wheat in India, started 'Wheat Crop Health Newsletter' and has conducted several training programmes, including a few international trainings on Wheat rusts. He has received a few prestigious Awards like, The Manthan International Award South Asia 2009 (as a team member), Best Research Team Award of DWR (ICAR), 2007 (as a Team Leader), Chaudhary Devi Lal Outstanding AICRP Award 2012 of the ICAR (as a team member), Plant Pathology Leadership Award, 2012 of the Indian Phytopathological Society (MEZ) and Honorary Fellowship Award 2014 (during 16th Agricultural Scientists and Farmers' Congress). He has been the Vice-President of the SAWR during the initial years of the Society.


SAWR Fellow-2014

Name	Dr. (Mrs.) Vijay Rana	
Date of Birth & Place	19.11.1969, Parnoh Distt. Kangra (HP)	
Designation & Affiliation	Senior Scientist (Plant Breeding), CSK Himachal Pradesh Agricultural University, Palampur	
Specialization	Wheat Improvement	
Postal Address	CSKHPAU, Rice & Wheat Research Centre, Malan (HP)- 176047 INDIA	
Email	vijayrana2005@gmail.com, vijayrana_2005@rediffmail.com	
Mobile/ Phone	9418457124 (M)	

CITATION

Contributed in the development of six high yielding and rust resistant varieties of wheat for the Northern Hill Zone. Collected, evaluated and characterized germplasm of wheat, buckwheat (*Fagopyrum esculentum* & *Fagopyrum tataricum*) and rajmash (*Phaseolus vulgaris*) for Dry Temperate Zone of Himachal Pradesh. While working in AICRP project on Agroforestry, collected and evaluated 110 plus trees (seed sources) of Toon (*Toona ciliata*), an important indigenous timber tree and 25 seed sources of Kala siris (*Albizia chinensis*) from different seed zones of Himachal Pradesh. Contributed fifty one elite strains of wheat developed by Malan centre to the NBPGRI for long term conservation and more than ten promising lines were included in different coordinated nurseries for rust resistance and yield components. Guided three M. Sc. theses as major guide and two as co-guide. As Principal Investigator, handled one project each in Research and Extension and 3 research projects as Co-Principal Investigator. Published 19 research papers in various National and International journals and presented 11 papers in various Symposia/workshop/Seminars. Also published 18 Extension Publications, 01 Book and 02 Book chapters.

SAWR Fellow-2014

Name	Dr. Ramesh Kumar Sharma	
Date of Birth & Place	20.03.1958, Bilaspur (HP)	
Designation & Affiliation	Principal Scientist & PI (Resource Management), Directorate of Wheat Research, Karnal (Haryana)	
Specialization	Soil Physics and Soil & Water Conservation	
Postal Address	ICAR-Directorate of Wheat Research, Karnal-132001, Haryana, India	
Email	gs.sawr@gmail.com; rks20037@gmail.com	
Mobile/ Phone	9416252374 (M)	

CITATION

Dr Ramesh Kumar Sharma was born in a farming family at Village Lurhani, District Bilaspur, Himachal Pradesh. He has more than 30 years' research experience mainly working with wheat crop. Since April 2005, Dr Sharma is leading the Resource Management Programme of the Directorate involving varietal evaluation under different growing conditions and fine tuning the package of practice for wheat cultivation. He has made significant contributions in the field of resource conservation technologies and conservation agriculture practices including fine tuning the machinery for zero tillage, raised bed planting, rotary-till drill for seeding crops and 'Rotary Disc Drill' for seeding into surface retained loose residue. Dr Ramesh Kumar Sharma has more than 300 publications, out of which more than 50 are peer reviewed research papers, more than 70 popular articles, 30 bulletins, 3 books, 20 book/compendium chapters, more than 30 technical reports and more than 50 abstracts in national and international seminar/symposia. He was a member of the interim scientific board of the G-20 international wheat initiative. He was recipient of Jawahar Lal Nehru Award-1995 for his doctoral research and Manthan Award 2009 for contributions in developing the Wheat Expert system. He has visited Australia, Bangladesh, Canada, Mexico, Nepal and Syria.


SAWR Fellow-2014

Name	Dr. Ramesh Pal Singh Verma	
Date of Birth & Place	04.10.1960, Dehradun, India	
Designation & Affiliation	Barley Breeder, International Center for Agricultural Research in the Dry Areas, Rabat, Morocco	
Specialization	Plant Breeding	
Postal Address	ICAR-Directorate of Wheat Research, Karnal-132001, Haryana	
Email	rpsvdr@hotmail.com	
Mobile/ Phone	09416468414 (M), 212657994524 (O)	

CITATION

Dr. R.P.S. Verma has significantly contributed in reorganising the coordinated barley research in India. He pioneered in two-row malt barley breeding in India utilising exotic two-row cultivars to introgress superior malting quality in indigenous barley. He successfully incorporated the grain quality and disease resistance, in the semi dwarf malt barley cultivars with comparable yield to six-row barley cultivars. He had developed nine barley cultivars, out of which DWRUB52 is extensively used by malting & brewing industry under contract farming in Punjab, Haryana, Rajasthan and western UP. He had also registered seven genetic stocks with NBPGR for quality and disease resistance. Dr. Verma established the barley germplasm active collection in country at DWR Karnal and organised its evaluation for various biotic / abiotic stresses and malt quality under the mega AP Cess Fund network project. He also established the micro malting facility at DWR, which led to all the progress of malt barley development in India. He was first to establish private-public partnership for malt barley development in India. He authored more than 50 research papers in refereed international journals and several presentations in international seminars/ symposia. Dr. Verma is currently leading global barley program of ICARDA at Rabat, Morocco.

SAWR Fellow-2014

Name	Dr. Bhudeva Singh Tyagi	
Date of Birth & Place	01.05.1963, Behuni, Ghaziabad (UP)	
Designation & Affiliation	Principal Scientist, Directorate of Wheat Research, Karnal (Haryana)	
Specialization	Genetics and pre-breeding in wheat for biotic and abiotic stress	
Postal Address	ICAR-Directorate of Wheat Research, Karnal-132001, Haryana	
Email	bs.bstkn@gmail.com	
Mobile/ Phone	0184-2209115 (O), 09034024140 (M)	

CITATION

Dr. Bhudeva Singh Tyagi, joined ICAR as ARS (Genetics and Cytogenetics) in 1993 and has been involved in the development of 05 varieties of wheat, 14 genetic stocks for novel traits and developed 04 sets of RILs (mapping populations) for thousand kernel weight, yellow pigment in durum wheat. Accomplished 20 internal, 04 outside funded. Published 70 research articles, 02 review papers, 04 invited articles, 20 popular articles, 03 edited books, 05 research bulletins, 10 book chapters, >60 abstracts in international/national symposia, 02 training manuals and 40 technical reports. Professional recognition includes, as member of team, 'Best Institute Award' conferred upon the DWR for its significant research contributions in the development of wheat technology during 1997-98. Recipient of DWR Best Research Team Award 2006 for significant research contributions and achievements made. He has been the recipient of "Meerut Ratna" from Vigyan Club, Meerut. Working as the Associate Editor, The Royal Society of Crop Science, Meerut and worked as editor, Indian Wheat Newsletter published by DWR, Karnal for 10 years. He has been an expert member for RDC and paper setter at CCSU, Meerut & HNB University, Srinagar (UA).

SAWR Fellow-2014

Name	Dr. Jag Shoran	
Date of Birth & Place	15.08.1948, Vill. - Paharpur (Meerut), Uttar Pradesh	
Designation & Affiliation	(Retd.) Principal Scientist & Principal Investigator, Directorate of Wheat Research, Karnal (Haryana)	
Specialization	Plant Breeding (Wheat Improvement & Seed Production)	
Postal Address	H.No. 1271, Shyam Vihar, South Civil Lines, Circular Road, Muzaffarnagar - 251001 (Uttar Pradesh)	
Email	jshoran1948@yahoo.co.in; jshoran1948@gmail.com	
Mobile/ Phone	8954185532 (M)	

CITATION

Studied at IARI, New Delhi and GBPUA&T, Pantnagar and qualified the Agricultural Research Service (ARS) examination in 1976 to join as Scientist S - 1 at VPKAS, Almora. Continuously worked till retirement for the improvement of wheat in various capacities including Project Director (Actg.) for a period of three years. Written over 400 articles of which 87 were research papers published in reputed national and international journals. Also developed 15 varieties of wheat and one variety of barley besides registering 25 genetic stocks carrying novel traits. Mention can be made of a dual purpose wheat variety VL 616 which was released for commercial cultivation in north western hills and occupied the top ten group of wheat varieties for high seed demand. Guided two students for the award of Ph .D.degree.Served as referee/ member of editorial board for number of research journals.Fellow of Indian Society of Genetics & Plant Breeding and member of various professional societies.Associated with committees for organizing scientific conferences/ symposia/ workshops/ meetings at national level.Visited Mexico, England, Syria, Kenya, Pakistan, Nepal and Bangladesh for official work and participation in scientific conferences.Won the Manthan Award South Asia in 2009, Best Research Team Award of DWR in 2006, Dr. Ram Dhan Singh Memorial Award for Best Wheat Scientist in 2005 and member of the team which was awarded the Best Institute Award by ICAR in 1998.


SAWR Fellow-2014

Name	Dr. Sewa Ram	
Date of Birth & Place	01.08.1962; Ranchhar, Bagpat, U.P.	
Designation & Affiliation	Principal Scientist (Plant Biochemistry) Directorate of Wheat Research, Karnal (Haryana)	
Specialization	Molecular basis of processing and nutritional quality in wheat	
Postal Address	ICAR-Directorate of Wheat Research, Karnal-132001, Haryana	
Email	sewaram01@yahoo.com	
Mobile/ Phone	0184-2209111 (O), 9416236739 (M)	

CITATION

Joined DWR, Karnal in Feb 1997 and worked in the area of improving processing and nutritional quality of wheat; published papers in reputed Journals such as J. Cereal Science, Cereal Chemistry, Crop Science, CRC, JPBB etc; also published a book. Identified germplasm lines including synthetic hexaploids with unique quality traits as grain texture, gluten strength, protein content, micronutrient density, high phytase and low phytic acid levels and starch properties etc and used in backcross breeding and improved germplasm registered. Phytase was characterized at biochemical and molecular level. Genome specific markers were developed for Starch Synthase II in wheat. Nap Hal, a unique Indian land race of wheat, was characterized at molecular level for Glu-D1 double null and soft grain characteristics and used in improving biscuit making quality. Molecular basis of grain hardness was studied in greater detail and Novel alleles of puroindolines were identified and catalogued in International gene symbols in wheat. Developed molecular marker for Low molecular weight glutenin genes coding Glu-B3b allele and HMW, LMW and Gliadin profile of Indian wheat varieties developed. Specific combinations of glutenin subunits were identified associated with dough properties. Developed microlevel tests for Farinograph Water Absorption (FWA) and bread and biscuit making quality, phytase levels etc.

SAWR Fellow-2014

Name	Dr. Sushila Kundu	
Date of Birth & Place	01.04.1953, Delhi	
Designation & Affiliation	Principal Scientist (Crop Improvement) Directorate of Wheat Research, Karnal (Haryana)	
Specialization	Economic Botany	
Postal Address	ICAR-Directorate of Wheat Research, Karnal-132001, Haryana	
Email	Skundu_dwr@yahoo.com	
Mobile/ Phone	09416261645 (M)	

CITATION

Worked on medicinal, beverages and fodder crops at NBPGR, Regional Station, Phagli, Shimla during the period (August 1978-March 1981) and published one catalogue on Opium poppy. Worked on Guinea grass, pearl millet(fodder) during the period (March 1981- April 1985), worked on sugarcane and released one variety and a catalogue at SBI, Regional Station, Karnal during the period (April 1985- July 1995). Joined Directorate of Wheat Research, Karnal in July 1995. and working in Genetic Resources Unit till date. Working in the project on germplasm evaluation and maintenance of wheat as PI, in-house project of Directorate of Wheat Research. Published 10 catalogues in wheat germplasm, one book on released varieties and three technical bulletins. Working as Nodal Officer (Wheat) since 2000, in DUS Project on Wheat funded by Department of Agriculture & Cooperation and presently by PPVFR Authority. Facilitated for registration of extant varieties of wheat with PPV&FR. Conduct training programmes to appraise farmers and other stakeholders about PPVFR Act and their rights.


SAWR Fellow-2014

Name	Dr. Raj Kumar	
Date of Birth & Place	16-02-1964, Gharaunda (Karnal)	
Designation & Affiliation	Principal Scientist, Directorate of Wheat Research, Karnal (Haryana)	
Specialization	Plant Breeding	
Postal Address	ICAR-Directorate of Wheat Research, Karnal-132001, Haryana	
Email	rajkumars.dwr@gmail.com	
Mobile/ Phone	184-2209118 (O), 9255270087 (M)	

CITATION

Dr. Raj Kumar, graduated from Haryana Agricultural University, Hisar completed his doctorate from Indian Agricultural Research Institute, New Delhi. He joined Indian Agricultural Research Services in 1992 and posted at Directorate of Wheat Research, Karnal. He has been associated with the coordination of national seed production programme of wheat and barley varieties since last 20 years and contributed in production planning of 3.5 lakh quintals of breeder seed of wheat varieties and 13.5 thousand quintals of barley varieties breeder seed for the country. He has organised several Seed Days & training programmes for seed producers & innovative farmers and promoted seed replacement rate of wheat and barley varieties for increasing the production and productivity of these crops. He has completed the International Course on "Organization and Management of Formal and Informal Seed Programme" organised by German Foundation of International Development (DSE) and Swedish International Cooperation Agency (SIDA) sponsored "Plant Breeding and seed production programme" held at Sweden, Sri Lanka and Cambodia. Dr. Raj Kumar also initiated work on wheat tissue culture and standardised regeneration protocol, doubled haploid production and transformation work in wheat. He completed CIMMYT, Mexico & IPS, Switzerland organised Diploma programme on "Genetic Engineering of Maize and Wheat" and Global Food & Agri Business Management Programme on Strategic Leadership for Emerging Markets from Cornell University, New York, USA. Published more than 50 research papers and attended national and international seminars/conferences/workshops.

SAWR Fellow-2014

Name	Dr. Rekha Malik	
Date of Birth & Place	26-11-1971, Dadri (Haryana)	
Designation & Affiliation	Senior Scientist, Directorate of Wheat Research, Karnal (Haryana)	
Specialization	Plant Biotechnology	
Postal Address	ICAR-Directorate of Wheat Research, Karnal-132001, Haryana	
Email	rekhasmalik1@gmail.com	
Mobile/ Phone	0184-2209139 (O), 9416482692 (M)	

CITATION

Dr. Rekha Malik is a Senior Scientist in Biotechnology (Plant Sciences) at Directorate of Wheat Research (DWR), Karnal. She joined the Directorate as an ARS in 1998. She is a Ph.D. in plant Biotechnology from Haryana Agricultural University, Hisar. She was bestowed with a Gold medal for the best thesis from the University in 2004. She specializes in biotic stress resistance management and germplasm characterization in both wheat and barley. Her work involves the characterization and identification of genomic regions/genes involved in stem rust resistance in wheat. She is working on marker assisted improvement of Indian barley for diseases like leaf blight & corn leaf aphid and malt quality attributes. She has completed and currently involved in numerous externally and institutionally funded projects of DBT, DIT, HCST and ICAR. Dr. Rekha Malik has been the recipient of prestigious AUSAID Leadership Award of 2012 and has worked at Plant Breeding Institute, University of Sydney as a visiting fellow scientist. She has conducted number of training programs as coordinator and Co-coordinator at the Directorate. She has published over 19 international/national research papers and more than 40 articles and bulletins. She has participated in International/National Conferences and workshops in India and Abroad including U.S.A., Australia, Syria (ICARDA) and China. She has guided Ph.D. fellow, M.Sc. (Biotech) and B.Tech (Biotech) researcher for their dissertation. She is the Life Member of many Indian Learned Bodies in Biology and Agriculture. She is joint treasurer of Society of Wheat Advancement Research, India.


SAWR Fellow-2014

Name	Dr. Vinod Tiwari	
Date of Birth & Place	01.03.1956, Jaunpur (UP)	
Designation & Affiliation	Principal Investigator, Crop Improvement, Directorate of Wheat Research, Karnal (Haryana)	
Specialization	Genetics & Plant Breeding	
Postal Address	ICAR-Directorate of Wheat Research, Karnal-132001, Haryana	
Email	pici.dwr@gmail.com; vtiwari2005@rediffmail.com	
Mobile/ Phone	0184-2265421 (O), 9416468165 (M)	

CITATION

PhD in Genetics & Plant Breeding from the Banaras Hindu University in 1981. Worked in two Agricultural Universities (BAU, Ranchi and RAU, Sabour) and became Professor (Plant Breeding) in July 1998. Joined ICAR service in 2000 as Principal Scientist (Plant Breeding) Developed many wheat varieties including HD2967, HD2932, DBW71, DBW88, DBW90. Over 36 years of experience in wheat research.


SAWR Fellow-2014

Name	Dr. Randhir Singh	
Date of Birth & Place	16.01.1962 Kailash (Karnal), Haryana	
Designation & Affiliation	PS & PI (Social Sciences), Directorate of Wheat Research, Karnal (Haryana)	
Specialization	Agricultural Extension	
Postal Address	ICAR-Directorate of Wheat Research, Karnal-132001, Haryana	
Email	rsposwal1962@gmail.com	
Mobile/ Phone	9416015619 (M)	

CITATION

Dr. Randhir Singh has published 44 Research papers, one book, training manual, proceeding, 16 book chapters, 8 papers in national and 8 international proceedings, 35 extension bulletins/pamphlets and 45 popular articles. Established Museum, digital lab and farmers' training centre. Coordinated 10144 wheat and 685 barley front line demonstrations across the country during 2001 to 2012-13. Frontline Demonstrations of two row malt barley varieties have led to introduction of contract farming in Punjab, Haryana, Rajasthan and UP. "Expert System on Wheat Crop Management" has been developed. SMS service was started in collaboration with IFFCO and CDAC. Organized three international training programmes and 50 training programmes for farmers and subject matter specialists. Organized 104 farmers' days, six seed days, seven traveling seminars and organized/ participated in 90 exhibitions, seven awareness programmes and one short course. Coordinated 140 visits delivered 16 TV/radio talks. Taught Ph.D/ M.F.Sc/ D.F.Sc students and designed course, Associate Chief Editor of Journal, Member of Institute Management Committee; Visited Australia, Syria, Nepal, Bangladesh, Singapore, Malaysia. He has received several awards including Manthan Award 2009, Distinguished Scientist Award 2007, Bioved Fellowship Award 2009, Best Paper Award 2005, Best Paper Award 2013, Eight Best Stall Awards and felicitation by Project Director for the Chaudhary Devi Lal Outstanding AICRP Award, 2011.


SAWR Fellow-2014

Name	Dr. Anuj Kumar	
Date of Birth & Place	17.08.1973, Bettiah (Bihar)	
Designation & Affiliation	Sr. Scientist (Agril, Exten.), Directorate of Wheat Research, Karnal (Haryana)	
Specialization	Agricultural Extension	
Postal Address	ICAR-Directorate of Wheat Research, Karnal-132001, Haryana	
Email	anujp2001@gmail.com	
Mobile/ Phone	0184-2209172 (O), 9416467954 (M)	

CITATION

Born on 17th August, 1973 in West Champaran, Bihar, Dr. Anuj Kumar did his B.Sc. (Agri.) from Institute of Agricultural Sciences, BHU, Varanasi and M.Sc and Ph.D. from National Dairy Research Institute, Karnal. He was awarded gold medal during M.Sc. programme. He has excellent research in the field of wheat extension with special emphasis on impact assessment of resource conservation technologies, women empowerment, entrepreneurship development and constraints analysis. He has worked with farmers through Front Line Demonstration across the country to popularise recent wheat production technologies. He has got tremendous experience in participatory approaches of technology validation, refinement and assessment in real farm situation. He has coordinated several training programmes for farmers, agriculture professionals, entrepreneurs and students. He has published 40 research papers in international and national journals, 1 book, 12 book chapters, 42 popular articles, 4 research bulletins and 31 extension bulletins.

SAWR Fellow-2014

Name	Dr. BS Jamwal	
Date of Birth & Place	15.10.1957, Kathua (J&K)	
Designation & Affiliation	Chief Scientist cum Professor (PBG), I/C Pulses Research, Sub Station SKAUST-J, Samba (J&K)	
Specialization	Plant Breeding	
Postal Address	Pulses Research, Sub Station SKAUST-J, Samba (184 121), Jammu (J&K)	
Email	bsjamwal@rediffmail.com	
Mobile/ Phone	9906041499 (M)	

CITATION

Worked as Research Asstt with J&K State and Joined SKUAST, J&K as Asstt Professor-cum-Scientist (PBG) in September 1989. Developed and released one Desi Chickpea var SCS-3 (Shivani) and Kabuli var SCS-1. Developed two local Popcorn entries better than national entries in popping quality and yield and one white composite maize var PM-1. Started collaboration with DMR, New Delhi under the AICMI Project, as Voluntary Centre. Introduced maize FLD Programme for the first time, on vigorous scale, in all the distts of Jammu region. Worked as Assoc Professor (PBG) in Div of PBG, main campus, Chatha, wef Apr 2006 to May 2009 with additional charge of Senior Scientist I/C Main campus, Chatha, Research Farm, as well as mandate crop of wheat and as Nodal Scientist Breeder Seed Production, under AIC Wheat and Barley Project. Guided two M.Sc and one Ph.D student as major guide and as co-guide for many PG students. Was co breeder for Wheat var RSP-561 and other upcoming elite wheat entries from Chatha Centre. Presently working as Chief Scientist cum Professor (PBG) and I/C PRSS, Samba, as well as PI, AICRP on Chickpea and AICRP on MULLaRP, Sub-Centre, Samba as well as engaged in research, extension and administrative activities, wef Sep 2011.


SAWR Fellow-2014

Name	Dr. Kumble Vinod Prabhu	
Date of Birth & Place	20.05.1958, Mysore	
Designation & Affiliation	Joint Director (Research) Indian Agricultural Research Institute, New Delhi-110012, India	
Specialization	Molecular breeding for abiotic and biotic stress in wheat, rice and mustard	
Postal Address	ICAR-Indian Agricultural Research Institute, New Delhi-110012, India	
Email	kvinodprabhu@rediffmail.com, jd_research@iari.res.in	
Mobile/ Phone	9899023566 (M)	

CITATION

Dr. KV Prabhu developed 18 crop varieties (8 varieties of wheat, 2 of barley, 5 of mustard and 3 of rice) and aggressive promoter to popularize these among farmers to increase productivity of these crops. Described the rust resistance genetics of wheat and mustard and am credited with maximum number of leaf rust resistance genes tagged with molecular markers. Led the team that developed the first products of marker assisted selection in wheat and developed the strategy for "minor genes based resistance" in 1992. Led the programme that has released four prominent varieties of wheat HD 2967, HD 2987, HD 3043 and HD 2985. Initiated, drafted, executed and chartered through inter-ministerial involvement, the revision of definition of Basmati rice on genetic grounds to facilitate legitimized improvement of basmati in India; fast-tracking of marker assisted products for release and notification under Seed Act 1966. Conceptualized, designed, executed and managed India's first Controlled Environment Research Facility, "National Phytotron Facility" in 1998 and "Phenomics Facility" in 2012; and World's first "Field Phenomics Facility" in 2012.

SAWR Fellow-2014

Name	Dr. Ram Kumar Sharma	
Date of Birth & Place	01.09.1958, Haridwar	
Designation & Affiliation	Principal Scientist, Division of Genetics, IARI, New Delhi 110012	
Specialization	Wheat Breeding	
Postal Address	ICAR-Division of Genetics, IARI, New Delhi 110012	
Email	Sharma.rk.rk@gmail.com	
Mobile/ Phone	09868571961 (M), 011-25847286 (O)	

CITATION

Dr. RK Sharma is presently working as Principal Scientist and Co-PI, Wheat Improvement Programme, IARI, New Delhi. He has more than 29 years of experience of active crop breeding research in different crops including 18 years in hills and 10 years of experience in teaching. He has developed or associated with the development of 25 crop varieties including rice (14), lentil (2), soybean (2) for hilly region of the country and wheat (7), forage sorghum (1) for plains. Of which 14 were released by CVRC and 11 by SVRC. The released wheat varieties includes popular bread wheat varieties like HD 2967, HD 2932, HD 3086, HD 3059, HD 3043 etc. Presently, working for development of rust resistant, climate resilient (terminal heat tolerance) bread wheat varieties for irrigated environment. He is involved in teaching of three courses of PG level and guiding M.Sc. and Ph. D. students and published more than 70 research articles, book chapters, popular articles etc.

SAWR Fellow-2014

Name	Dr. Gyanendra Pratap Singh	
Date of Birth & Place	17.03.1964, Varanasi, UP	
Designation & Affiliation	Principal Scientist, Division of Genetics Indian Agricultural Research Institute, New Delhi-110012, India	
Specialization	Molecular Breeding for drought and heat tolerance in wheat	
Postal Address	ICAR-Indian Agricultural Research Institute, New Delhi-110012, India	
Email	gyanendrapsingh@hotmail.com, gpsingh@iari.res.in	
Mobile/ Phone	9868841775 (M), 011-25843588 (O)	

CITATION

Dr. Gyanendra Pratap Singh has made pioneering contributions in basic and applied research on wheat genetics, breeding and molecular breeding. Significant research contributions have been made by him in both the development and popularization of one potato variety namely Kufri Giriraj (Potato), and nineteen varieties of wheat. Besides these, in the area of basic research, Dr. Singh has made noteworthy contribution through the standardization of physiological trait based phenotyping for drought and heat related stress, development of several mapping populations, molecular mapping of genes for grain quality characters in wheat. He has also made significant contribution in studying diversity in grain, flour, dough and gluten properties amongst Indian wheat cultivars varying in high molecular weight subunits. Dr. Singh has played a very vital role in studying the characterization of differentially expressed stress-associated proteins in starch granule development under heat stress in wheat. Dr. GP Singh was also actively involved in the demonstration of technology in low productivity regions of eastern UP and Bihar through TIFAC. Dr. Singh, a teacher par excellence, has taught several courses in the discipline of Genetics Four of the M. Sc. Students have taken degree under his guidance and six Ph. D. students are presently doing doctoral research.

SAWR Fellow-2014

Name	Dr. Jai Bhagwan Sharma	
Date of Birth & Place	01.10.1956, VPO Mandona, Distt. Bulandshahr (UP)	
Designation & Affiliation	Principal Scientist, Indian Agricultural Research Institute, New Delhi-110012	
Specialization	Wheat Rust Genetics and Breeding	
Postal Address	Res. D-32, IARI, New Delhi-110012	
Email	jbsiari@gmail.com	
Mobile/ Phone	011-25842521 (R), 9968256008 (M)	

CITATION

Made significant contributions in genetics of wheat rust resistance and development of rust resistant wheat varieties and stocks. Salient research findings include development of (i) wheat varieties Kundan, Vaishali, Vidisha, Kanchan, Urja, Pusa Pachheti, Pusa Amulya, Pusa Chaitanya, Pusa Gautami, Pusa Navagiri, and Pusa Nilgiri, and Pusa Kiran among which Vaishali being the first wheat variety released in the country with alien introgression of *Thinopyrum ponticum* derived rust resistance genes *Lr24/Sr24* (ii) rust resistance genetic stocks like Kharchia Local Mutant (KLM-1B), Kalyansona and Sonalika back cross derivatives with specific rust resistance genes, HW3601 and HW3602 (iii) new plant type (NPT) genotype DL1266-5 combining two negatively correlated yield contributing traits grain weight and grain number with increased physiological efficiency of partitioning of dry matter to economic yield. Discovered a recessive leaf rust resistance gene on chromosome 3BL in a wheat-T. timopheevii derivative Selection G12 and linked leaf and stem rust resistance genes on chromosome 2B in a wheat-rye recombinant Selection 212. Worked out the genetics of rust resistance in stocks/varieties viz. Trinakria, WR95, T3336, Kundan, HD2189, UP262 and few synthetic wheats. Identified a unique combination of leaf rust resistance genes *Lr13* and *Lr23* in Indian wheat varieties which otherwise are linked in repulsion.

SAWR Fellow-2014

Name	Sh. JJ Deveshwar	
Date of Birth & Place	30.06.1960, Delhi	
Designation & Affiliation	Assistant Chief Technical Officer, Indian Institute of Horticultural Research, Hessaraghatta Lake PO, Bangalore-560 089, India	
Specialization	Plant Physiology	
Postal Address	ICAR-Indian Institute of Horticultural Research, Hessaraghatta Lake PO, Bangalore-560 089, India	
Email	janmayjai_deveshwar@yahoo.com, deveshwar@ihr.ernet.in	
Mobile/ Phone	080-28466420 (O), 9535642767 (M)	

CITATION

Worked in Indian Institute of Agricultural Research, New Delhi for almost five (December, 1985 to June 2010) years in various laboratories. Got experience in the operating sophisticated instruments like, Atomic Absorption Photometer, N15 Emission Analyser, SDS-PAGE Electrophoresis, Dual Channel Analyser, GM Counter, Flame Photometer etc. Assisted the PI to successfully carry out various field and laboratories activities at IARI Farm as well as at off-season nurseries at Lahaul Spiti and Wellington. Demonstrated the practicals to PG students of IARI related to course gen 231:2L+2P. Also was actively involved in organizing various meetings, seminars, symposia, workshops etc. At present working in Indian Institute of Horticultural Research, Bangalore since June, 2010. Involved in documentation of RPPs of institute Projects as well as externally funded projects of all the scientists of main station as well as sub-stations. Involved actively in organising meetings of IRC, RAC, QRT etc. Also participated in various institution building activities.


SAWR Fellow-2014

Name	Dr. Arvind Kumar Ahlawat	
Date of Birth & Place	06.06.1969, Delhi	
Designation & Affiliation	Senior Technical Officer, Division of Genetics Indian Agricultural Research Institute, New Delhi-110012, India	
Specialization	Wheat Breeding	
Postal Address	ICAR-Indian Agricultural Research Institute, New Delhi-110012, India	
Email	ahlawatarvind@yahoo.com , akahlawat_gen@iari.res.in	
Mobile/ Phone	9968070769 (M), 011-27875625 (R)	

CITATION

Dr. Arvind Kumar Ahlawat has made pioneering contributions in breeding for enhancement of end-use and nutritional quality in bread wheat. Significant research contributions have been made by him in germplasm consolidation, its purification and identifying superior genotypes for different quality traits. He has provided invaluable assistance in evaluating the quality of all the advanced lines emanating from IARI wheat breeding programme. Besides these, in the area of basic research, Dr. Ahlawat has made noteworthy contribution through the standardization of various quality protocols including those for micro-sedimentation for assessing gluten strength. Dr. Ahlawat has along with his team studied the formation of secondary structure of protein in wheat varieties with high and low gluten strength. These studies have indicated the role of β -sheets and parallel β -sheets in imparting gluten strength. He has also been involved in the development of several mapping populations which are being characterized by him for molecular mapping of genes for end-use and nutritional quality characters in wheat. He has also made significant contribution in studying diversity in grain, flour, dough and gluten properties amongst Indian wheat cultivars.

SAWR Fellow-2014

Name	Dr. Samir Kumar Mondal	
Date of Birth & Place	26.09.1956, Midnapur, (WB)	
Designation & Affiliation	Professor (Plant Breeding and Genetics) Division of Plant Breeding and Genetics, SKUAST-J, FOA, Main Campus Chatha, Jammu 180009	
Specialization	Plant Breeding	
Postal Address	SKUAST-J, FOA, Main Campus, Chatha, Jammu 180009	
Email	dskm 2006@ yahoo.co.in	
Mobile/ Phone	09419114789 (M)	

CITATION

Joined SKUAST, RARS, Rajouri in August 1993 as Jr. Scientist cum Asstt. Professor (PBG) and conducted coordinated trials, collected, evaluated and maintained more than 500 germplasm lines of maize received from different national and international institutes. Then joined RARS, RS Pura, SKUAST in Nov. 1996 and was associated with university teaching (UG & PG), and research (wheat programme) in the Department of Genetics & Plant Breeding. Later on in the year 2003 our university campus was shifted from RS Pura to Chatha. Successfully guided two M.Sc. and One Ph.D. students and presently guiding two Ph.D. scholars. Major field of research work is abiotic stress under early rainfed wheat varieties. Formulated research project on limited irrigation conditions and indentified several genetic resources useful for moisture stress and heat tolerant conditions. Developed and released one new wheat variety RSP 561 (TS IR-TAS) for J&K state. Recently two new wheat lines viz., JAUW 584 (TS-IR-TAS) & JAUW 598 (ES-IR-TAS) are in process of release at state level. Presently working on terminal heat tolerant line of Bread wheat / materials developed is in advance stage of testing. Published 25 research articles in different national and international reputed journals.


SAWR Fellow-2014

Name	Dr. Ashok Kumar Gupta	
Date of Birth & Place	20.12.1970, India	
Designation & Affiliation	Senior Scientist (Agronomy), Farming System Research Centre, SKUAST-Jammu	
Specialization	Agronomy (Crop management and farming system)	
Postal Address	Farming System Research Centre, SKUAST-Jammu, Main Campus, Chatha-180009	
Email	ashokgupta1970@rediffmail.com	
Mobile/ Phone	09419100401 (M)	

CITATION

Dr Ashok Kumar Gupta, Assoc Professor cum Sr. Scientist (Agronomy) born on 20th December, 1970 at Charuawan, Distt. Sheikhpura, Bihar. He graduated in Agriculture from C. S. Azad University of Agricultural Sciences & Technology, Kanpur and subsequently did his M. Sc. and Ph. D. in Agronomy from GBPUAT, Pantnagar and BHU, Varanasi in 1995 and 2001, respectively. Dr. Gupta has initiated his career as Assistant Prof cum Jr. Scientist in 1999 at Division of Agronomy, SKUAST-Kashmir(J&K) and later has shifted to bifurcated SKUAST-Jammu in the year 2002. Since his inception agronomic improvement in wheat research was actively involved in AICRP on wheat and later elevated in AICRP on IFS, hence taken as challenging task as Assoc Professor cum Sr. Scientist(2008) on-farm research programme and enhancing the productivity, profitability and sustainability through IFS approach of small and marginal farmers of Jammu province.

SAWR Fellow-2014

Name	Dr. Subhash Chander Gill	
Date of Birth & Place	08.03.1969; Ladwa (Hisar), Haryana	
Designation & Affiliation	Principal Scientist (Agronomy), Directorate of Wheat Research, Karnal-132001, Haryana	
Specialization	Wheat Agronomy	
Postal Address	ICAR-Directorate of Wheat Research, Karnal-132001, Haryana	
Email	sbhgill@yahoo.com	
Mobile/ Phone	0184-2209144 (O), 09416361555 (M)	

CITATION

Born on 8th March 1969 in Haryana, Dr. Subhash Chander Gill did his B. Sc. (Honours) Ag. and M. Sc. Ag. in Agronomy from CCS Haryana Agricultural University, Hisar with a distinction. He was awarded ICAR Junior fellowship during his post graduation programme. He did his Ph. D. degree from Indian Agricultural Research Institute with senior research fellowship in 1995. Dr. Gill has 18 years of research experience in arid grasses, wheat and barley. Presently he is working as Principal scientist (Agronomy) at Directorate of Wheat Research, Karnal. He has made very good research contributions in the field of nutrient management in wheat based cropping system with special emphasis on organic nutrient management, wheat agronomy, and conservation agriculture. He has developed effective nutrient management strategies for wheat, rice and barley. He has published 46 research papers in International and national journals, 11 book chapters, 36 popular articles, and 9 research and extension bulletins.

SAWR Fellow-2014

Name	Dr. Mahender Singh Saharan	
Date of Birth & Place	10.06.1967, Kaithal	
Designation & Affiliation	Principal Scientist (Plant Pathology) and Principal Investigator-Crop Protection, Directorate of Wheat Research, Karnal (Haryana)	
Specialization	Plant Pathology	
Postal Address	ICAR-Directorate of Wheat Research, Karnal-132001, Haryana	
Email	mssaharan7@yahoo.co.in	
Mobile/ Phone	09416988856 (M)	

CITATION

PhD- Plant Pathology from CCS HAU-Hisar during 1999, received two Gold Medals (Dr. V. D. Kashyap Gold Medal and Miss Manju Utreja Memorial Gold Medal). Worked as Research associate in linseed scheme on powdery mildew at CCS HAU, Hisar (April 1991-March 1993). Served Govt. of Rajasthan as Agriculture Research Officer, Plant Pathology during May, 1993 to February 1995. Worked at IGFRI, Jhansi on forage diseases during Feb. 1995 to June, 2000. Joined DWR, Karnal in June, 2000. At DWR, involved in the monitoring of wheat crop health, evaluation of wheat material which led to development of rust resistant varieties. Worked on molecular aspects of wheat fungal pathogens. Identified resistance sources to rusts, Karnal bunt and FHB. Published 60 research papers in national/international journals. Presented two papers in International conferences in foreign in oral session. Principal Investigator Crop Protection of AICW&BIP since Sept., 2012. Received best Young Scientist Award in Plant Protection of National academy of Agricultural Sciences (NAAS), India for the Biennium 2001-2002 and NAAS Associateship in Plant Protection in 2008. Received Prof. H. C. Dube Outstanding Young Scientist Award of Indian Society of Mycology and Plant Pathology, Udaipur in 2009.


SAWR Fellow-2014

Name	Dr. Rajender Singh Chhokar	
Date of Birth & Place	17.11.1969; Dhodpur (Panipat), Haryana	
Designation & Affiliation	Senior Scientist (Agronomy), Directorate of Wheat Research, Karnal (Haryana)	
Specialization	Wheat Agronomy	
Postal Address	ICAR-Directorate of Wheat Research, Karnal-132001, Haryana	
Email	rs_chhokar@yahoo.co.in	
Mobile/ Phone	0184-2209112 (O), 09416296262 (M)	

CITATION

Born on 17th November 1969 in Haryana, Dr. R.S. Chhokar did his B.Sc. (Agri) and M.Sc & Ph.D in Agronomy from CCS Haryana Agricultural University, Hisar with a first position. He was awarded Gold Medal during graduation programme. Dr. Chhokar has 16 years of research experience in wheat and barley. Presently he is working as senior scientist (Agronomy) at Directorate of Wheat Research, Karnal. He has made excellent research contributions in the field of weed management in wheat based cropping system with special emphasis on herbicide resistance management, wheat agronomy, and conservation agriculture. From India, he reported the first case of multiple herbicide resistance in *P. minor* and metsulfuron resistance in *Rumex dentatus*. He has developed effective weed management strategies for wheat, rice and barley. He has published 57 research papers in International and national journals, 6 book chapters, 55 popular articles, and 26 research and extension bulletins. He is recipient of the Distinguished Scientist Award 2008 by Society for Recent Development in Agriculture, Best Field Scientist Award 2013 by DWR, Karnal and Indian society of weed science fellow award -2013.


SAWR Fellow-2014

Name	Dr. Yash Pal Sharma	
Date of Birth & Place	01.10.1950, India	
Designation & Affiliation	Emeritus Scientist, Regional Station, IARI, Shimla	
Specialization	Plant Pathology	
Postal Address	ICAR-Regional Station, IARI, Shimla, 171 004 H.P.	
Email	yashiarishimla@gmail.com	
Mobile/ Phone	9418006302 (M)	

CITATION

Joined ICAR in 1977 and served ICAR for 35 years in various capacities including Head, Plant Pathology, Joint Director (Headquarter), ICAR Complex for North Eastern Hill region, Barapani, Shillong, Meghalaya, Head, RS, DWR, Shimla and Head RS, IARI, Shimla. I have researched important pathological aspects of potato, rice, fruits, hill agriculture, wheat and barley rusts. I have been associated in the development 7 varieties of rice, strawberry and turmeric. Identified six resistant donor stocks in apple against powdery mildew, root rot, wooly aphid, identification of 5 new pathotypes of wheat rusts and rust resistance research for four years at RS, DWR, Shimla. Developed prototypes for propagation of fruit plants, perfected the technologies of micro-irrigation and water harvesting. I have been associated in 10 externally funded research projects by ICAR and other agencies, Guided four students for Ph. D. and M. Sc. Degree. Have been conferred many award including Pesticide India Award. Published more than 230 research papers, bulletins, popular articles, proceeding and books.


SAWR Fellow-2014

Name	Dr. M Prashar	
Date of Birth & Place	07.09.1956, India	
Designation & Affiliation	Lead- Pathology, MAHYCO R & D	
Specialization	Plant Pathology	
Postal Address	MAHYCO R & D, P. Box 76, At Dawalwadi Village (Near Salegaon), Distt. Jalna - 431203, Maharashtra	
Email	mohinder.prashar@mahyco.com	
Mobile/ Phone	9765800627 (M), 2482-262002 (O)	

CITATION

I was appointed as Nodal Scientist for Ug99 and I presented India's view at different fora like FAO and BGRI. As a head of the regional station, mapping of Indian leaf and stripe rusts races was done. I was associated in the development of genetic stocks some of which were found resistant to Ug99. I published research articles, book chapter in National and International journals. I was member of the team that received Best Team Award.


SAWR Fellow-2014

Name	Dr. Subhash Chander Bhardwaj	
Date of Birth & Place	12.05.1960, India	
Designation & Affiliation	Regional Station, DWR, Shimla	
Specialization	Wheat Pathology	
Postal Address	ICAR-Regional Station, DWR, Shimla - 171 002, H.P.	
Email	scbfdl@hotmail.com	
Mobile/ Phone	01772621978 (O), 09418129900 (M)	

CITATION

Have got 28 years of association with wheat pathology programme in India. Is credited with identification of more than 50 pathotypes of Puccinia species on wheat and barley and sources of resistance and look after of national repository of 126 pathotypes. Registered more than 25 rust resistant stocks. Evaluated more than twenty thousand lines of wheat and barley for rust resistance and characterized rust resistance genes in about 5000 lines. Also responsible for monitoring wheat and barley rusts in India, conducting Wheat disease monitoring nurseries in India and SAARC countries as well mass multiplication, supply and storage of nucleus inoculums of rust pathogens. Studied genetics of rust resistance of many lines and fitness of pathogens. PI of three ICAR (concluded) and three DBT projects Have published more than 125 research publications in Journals of repute 20 book / proceeding chapters, six research bulletins, Mehtaensis etc.

SAWR Fellow-2014

Name	Dr. Sanjay Kumar Jain	
Date of Birth & Place	04.06.1968, Chhatarpur (Madhya Pradesh)	
Designation & Affiliation	Principal Scientist (Plant Pathology) Vivekananda Parvatiya Krishi Anusandhan Sansthan (ICAR), Almora	
Specialization	Plant Pathology	
Postal Address	ICAR-Crop Protection Section, VPKAS, Almora - 263 601	
Email	sanjaykjain100@yahoo.com	
Mobile/ Phone	05962-230060 (0), 9456764764 (M)	

CITATION

During the last 20 years, associated with the research work on different diseases of wheat and barley. Virulence typing of wheat and barley rust pathogens in India was done, detected more than 15 new pathotypes. Postulation of rust resistance genes in wheat germplasm and varieties through host-pathogen interaction based on gene matching technique and cytological studies. Pathotype-specific adult plant resistance of both hypersensitive and non-hypersensitive types was confirmed in wheat lines/varieties, studied temperature-sensitive rust resistance. Identified wheat germplasm showing immune reactions to both loose smut and hill bunt. Molecular and cytological studies on host-pathogen interactions (HPIs) of Barley - Powdery mildew, Wheat - and Oat - Spot blotch pathogens. Cell wall appositions and hypersensitive reactions were the predominant defence reactions, gene expression of defence- and stress-related genes. Investigated functional analysis of barley RAB-specific GDI gene by transient transformation assay where sequence-specific, dsRNA-mediated gene-silencing of GDI revealed a probable role in the resistance of barley against powdery mildew. Associated in the development, evaluation and release of varieties in barley, wheat, soybean, pigeon pea and lentil. Received DAAD-STIBET fellowship for doctoral studies in Germany, authored more than 50 research publications including research papers, review and book chapters.


SAWR Fellow-2014

Name	Dr. Gyanendra Singh	
Date of Birth & Place	05.05.1962, Amar Singh Pur, Meerut (UP)	
Designation & Affiliation	Principal Scientist, Directorate of Wheat Research, Karnal (Haryana)	
Specialization	Wheat Breeding	
Postal Address	ICAR-Directorate of Wheat Research, Karnal - 132 001, India	
Email	gysingh@gmail.com, gs_knl@yahoo.com	
Mobile/ Phone	0184-2209132 (O), 09416109950 (M)	

CITATION

Dr. Gyanendra Singh, joined ICAR as ARS (Plant Breeding) in 1986, has contributed to the development of 09 varieties of wheat, 11 genetic stocks for novel traits and also developed 15 sets of RILs (mapping populations) for molecular analysis of spot blotch resistance and abiotic stress tolerance in wheat. Accomplished 19 internal, 05 outside funded and two foreign collaborative research projects including a mega project executed at 18 centres under NATP (Mission Mode) programme. Worked as organizing committee member of three International Group Meetings (IGM) on wheat during 1997, 2002 & 2011 and published their proceedings as edited books. Published 77 research articles, 02 review papers, 05 invited articles, 20 popular articles, 05 edited books, 05 research bulletins, 16 book chapters, >50 abstracts in international/national symposia, 03 training manuals and 36 technical reports. Professional recognition includes, Member, Scientific Advisory Committee, PPV&FRA, New Delhi; Life Member, National Academy of Sciences, India, Allahabad; Fellow, Indian Society of Genetics and Plant Breeding, New Delhi; Associate Editor, Journal of Wheat Research (JWR); and expert member for RDC at CCSU, Meerut & HNB University, Srinagar (UA). Recipient of USAID fellowship for 18 months study at MSU, USA; DWR - Best Research Team Award; and has recently been bestowed with Distinguished Scientist Award of SSDAT for outstanding contributions in the field of Plant Breeding.

SAWR Fellow-2014

Name	Dr. Sanjay Kumar Singh	
Date of Birth & Place	19.04.1972, Sultanpur, UP	
Designation & Affiliation	Senior Scientist (Plant Breeding) Directorate of Wheat Research, Karnal (Haryana)	
Specialization	Bread Wheat Breeding	
Postal Address	ICAR-Directorate of Wheat Research, Karnal-132001, Haryana	
Email	sksingh.dwr@gmail.com	
Mobile/ Phone	0184-2209141(0), 094164-83960 (M)	

CITATION

Dr. SK Singh joined ARS (ICAR) in Plant Breeding in 1999 as Wheat Breeder with association in wheat research and coordination at the Directorate of Wheat Research, Karnal. He has released 09 wheat varieties from CVRC including DBW17 and DBW71 & registered 11 wheat genetic stocks for various traits with the NBPGR, New Delhi. He accomplished 10 internal, 06 outside funded and 03 foreign collaborative research projects and leading network hybrid wheat programme of the ICAR since 2009. Dr. Singh published 201 research articles, review papers, popular articles, edited books, research bulletins, book chapters, abstracts training manuals and technical reports, etc. Recipient of several awards as professional recognitions including LBS Young Scientist Award of the ICAR (2007), Young Scientist Award of the CST, UP (2008), Nuffic Fellowship of Govt. of the Netherlands (2010) and Certificate of recognition by DDG(Crop Science), ICAR (2011) for scientific contributions. Also selected as Fellow of the Indian Society of Genetics & Plant Breeding in 2014 and nominated as Member, Organizing Committee for the 3rd International Conference on Agricultural & Horticultural Sciences to be held in Hyderabad during October, 2014. He has visited University of Minnesota, St. Paul, USA, Cornell University, Ithaca, USA and CIMMYT, Mexico.


SAWR Fellow-2014

Name	Dr. Sakuru Venkata Sai Prasad	
Date of Birth & Place	21.06.1967, India	
Designation & Affiliation	Principal Scientist, IARI-Regional Station, Indore	
Specialization	Plant Breeding	
Postal Address	ICAR-IARI Regional Station, Near Agricultural College, Indore – 452 001 (MP)	
Email	sprasad98@yahoo.com	
Mobile/ Phone	0731-2702921 (O), 09425957920 (M)	

CITATION

As durum wheat breeder, actively associated with release of three high quality varieties viz., HI 8627, HI 8663 and HI 8713 for commercial cultivation in India. The recently developed variety HI 8663 (Poshan) was very much appreciated by the Pasta companies personnel and also was notified in the nutrient farm project by Govt. of India to combat the malnourishment. I actively associated in development of 8 bread wheat varieties viz., HI 1479, HI 1500, HI 1531, HI 1544, HD 2987, HD 2985, HI 1563 and HD 3083. One durum wheat genetic stock HI 8591 developed was registered by the Germplasm Registration Committee at NBPGR New Delhi for resistance to all the three rusts and high grain yield. I involved in pyramiding of resistant genes Sr36 and Sr2 in durum wheat background (HI 8498) through Marker Assistant Selection (MAS) for resistance against 117-group stem rust races. I was awarded with INSA Visiting Scientist Fellowship, NAIP training fellowship from ICAR, and "ICAR award for outstanding interdisciplinary team research in agricultural and allied sciences" as team member. 24 research articles were published in National and International journals.


SAWR Fellow-2014

Name	Dr. KS Babu	
Date of Birth & Place	30.05.1968, Guntur Dist, Andha Pradesh	
Designation & Affiliation	Scientist, DSR, Hyderabad	
Specialization	Entomology	
Postal Address	Flat#A2, Annapurna Heights, Radha Krishna Nagar, Hyderguda, Attapur, Hyderabad – 500 048, Telangana, India	
Email	kurrrasbabu@yahoo.com	
Mobile/ Phone	9491868815 (M)	

CITATION

Associated with the synthesis, development, evaluation and spread of IPM in wheat crop, where the yield gains were around 10% besides being an environment friendly technology. I was associated from its initial stages in 1999 to end of 2010. Associated in the evaluation at national level and development of three wheat varieties of this Directorate viz., DBW 17 which is an alternative to the ruling variety PBW 343 in NWPZ and CBW 38 & DBW 39 in NEPZ. Identified effective sources of resistance to field insects brown wheat mite and root aphid & storage pests like *Rhizopertha* of wheat through screening of the materials with particular focus on grain hardness, thousand grain weight and synthetic background. Involved in the recommendations of insecticides viz., fipronil, thiamethoxam and imidacloprid for the control of termites as seed treatment and thiamethoxam, imidacloprid and clothianidin for the management of foliar aphids in wheat through foliar sprays on All India basis after testing the products at multi-location. First time established the role of tillage practices of wheat on the dynamics of insect pests like termite, grasshoppers, pink stem borer and root aphids. The dry soil preparations during rice crop favour more termite in wheat and similarly raised beds in wheat also promote termite damage in wheat. Also first time reported the root aphid on barley crop infesting the roots of barley in North western plains zone and developed IPM programme in barley for NWPZ. Role of conservation agricultural practices like residue management on the dynamics of insect pests in wheat viz., grasshoppers, root aphids and termites. The surface retention of residues prolonged the period of activity of root aphids and also favoured the grasshopper population build up.

SAWR Fellow-2014

Name	Dr. Satyavir Singh	
Date of Birth & Place	20.09.1963, Darar, Karnal, Haryana	
Designation & Affiliation	Principal Scientist (Agri. Extension), Directorate of Wheat Research, Karnal (Haryana)	
Specialization	Agricultural Extension	
Postal Address	ICAR-Directorate of Wheat Research, Karnal- 132 001, India	
Email	satyavirsdwr@yahoo.com	
Mobile/ Phone	0184-2209110 (O), 9416195679 (M)	

CITATION

Born on 20th September, 1963 in Karnal, Haryana. Completed his B.Sc. (Honours) Agriculture from Haryana Agricultural University, Hisar and M.Sc. & Ph.D. from National Dairy Research Institute, Karnal. He is working with the farmers through wheat and barley Front Line Demonstrations (FLDs) across the country to popularise latest varieties and production technologies. He has got vast experience in participatory approaches of technology validation and impact assessment in real farm situations. He has coordinated the conduct of 11110 wheat FLDs on 11887 ha area at 22854 farmers' fields; 837 barley FLDs on 858 ha area at 1319 farmers' fields and Special Wheat FLDs on Pantnagar Zero-Till-Seed-cum-Fertilizer-Drill on 297.44 ha area at 247 farmers' fields. He has performed the duties as Head/Officer-In-Charge of the DWR, Wheat Summer Nursery, Dalang Maidan, Lahaul & Spiti (HP) for two years (1996-1997). He has received a Young Scientist Award. He has coordinated two International training programmes for scientists and several national training programmes for farmers, agriculture professionals and entrepreneurs. Organised several Seed Days, Wheat Days & Farmers Days actively. He has published 2 research papers in the proceedings of International Conferences and 10 research papers in national research journals, 16 popular articles, 2 book chapters, 20 newsletters and 11 extension bulletins.

SAWR Fellow-2014

Name	Dr. Rajbir Yadav	
Date of Birth & Place	08.02.1966, Jiwra, Rewari, Haryana	
Designation & Affiliation	Principal Scientist, IARI, New Delhi	
Specialization	Plant Breeding	
Postal Address	ICAR-Indian Agricultural Research Institute, New Delhi-110012, India	
Email	rajbiryadav@yahoo.com	
Mobile/ Phone	9868217446 (M)	

CITATION

Published more than 75 papers, popular articles, bulletin etc in international and national journals. Developed around 10 varieties of wheat and mustard for different ecological and production environments. Many of them like HD2932, HD 2967 of wheat and NRCDR 02 of Indian mustard become highly popular among the farmers. Carried out projects on genetic enhancement in wheat and Indian mustard for introgression of alien genes in improved genetic background. Maintained and evaluated around 5000 collections of barley for malting traits, agronomic and biotic stress resistance, generated passport data for long term storage in NBPGR. Maintained around 500 collection of barley for storage under natural condition of Lahual Spiti. Registered number of improved germplasm with NBPGR, New Delhi. Identified donors for yellow rust, aphid and malting traits in barley and shared the same with different cooperating centres for barley improvement. Guided around 5 students of Genetics and Biotechnology for their requirement as M.Sc.(Genetics) and M.Tech(Biotechnology). Initiated a breeding programme for conservation agriculture in wheat, maize and bajra and developed varieties of wheat like HD CSW16 and HD CSW 18. These varieties are being protected under plant variety protection act of PPVFRA. Two populations of maize viz., CSM 1 and CSM2 are under multi location testing for their productivity potential.

SAWR Fellow-2014

Name	Dr. Rasal Pramod Namdeo	
Date of Birth & Place	02.12.1960, India	
Designation & Affiliation	Associate Dean, College of Agriculture, Dhule, Maharashtra	
Specialization	Plant Breeding	
Postal Address	College of Agriculture, Dhule, Maharashtra	
Email	pn_rasal@yahoo.com	
Mobile/ Phone	02562-230127 (0), 07588036388 (M)	

CITATION

Dr. Pramod Rasal started his carrier in wheat in 1984 and continued up to 2013 i.e. for 29 years. During the long period of his services he contributed significantly in the development of nine wheat varieties, a genetic stock NIAW 1342 and 12 research recommendations. Dr.Rasal was a awarded fellowship by FAO, Rome, Italy and completed visiting scientist programme twice at CIMMYT, Mexico. He participated in 6 international conferences. His two poster papers were adjudged as best poster papers. He published 32 Scientific, 30 Technical and 107 Extension Publications. Dr. Pramod Rasal delivered 38 radio talks and participated in 11 TV programmes. Dr.Rasal was felicitated with three prestigious awards viz., Krishiratna Dr. Panjabrao Deshmukh Smruti Krishi Award, Chaudhary Devi Lal Outstanding All India Coordinated Research Project Award 2012 and Excellent Innovative Research Award-2012.


SAWR Fellow-2014

Name	Dr. Bhoite Kailash Dayaram	
Date of Birth & Place	19.07.1971, Maharashtra	
Designation & Affiliation	Jr. Breeder (Sunflower) ARS, Savalvihi Farm, MPKV, Rahuri	
Specialization	Plant Breeding	
Postal Address	Agricultural Research Station, Savalvihi Farm-423 109, Tal. Rahata, Distt. Ahmednagar (Maharashtra)	
Email	bhoitekd@gmail.com	
Mobile/ Phone	09823224937 (M)	

CITATION

Worked as Junior Research Assistant during the period (July-1996 to August 2004) and contributed in one variety of Safflower (Phule Kusuma). Written a book on Cultivation of medicinal and aromatic plants on commercial basis. Developed Agro-techniques for four endangered medicinal plants. Joined as Senior Research Assistant at ARS, Niphad and contributed in release of two wheat varieties viz NAIW-917 and NIAW-1415. Contributed significantly in the development and registration of wheat genotype NIAW 1342 with NBPGRI, New Delhi during (Sept 2004 to August 2008). Joined as a Jr. Breeder (Groundnut) released two varieties KDG-123 and KDG-128 at national level. Joined as a Sunflower Breeder on June, 2010. After that pre-release one variety SS-0808 for Maharashtra State. Contributed in two recommendations of agronomy experiments of sunflower.

SAWR Fellow-2014

Name	Dr. Chandrakant Baburao Salunke	
Date of Birth & Place	14.01.1961, India	
Designation & Affiliation	Seed Production Officer (BSP) MPKV, Rahuri -413 722 (M.S.)	
Specialization	Plant Breeding	
Postal Address	BSP, Seed Cell, MPKV, Rahuri -413 722 (Maharashtra)	
Email	cbsalunke@yahoo.co.in	
Mobile/ Phone	9404112240 (M)	

CITATION

Dr. C. B. Salunke, Seed Production Officer, (BSP) total length of service 30 years worked on Sorghum, Sunflower and Wheat actively involved in development and releasing of two improved varieties of Sorghum, one hybrid of sunflower and two varieties of Wheat. Published twelve research papers, Guided 5 M. Sc. Agri. students . ICAR , Hari Om Ashram Trust Award 1999-2000 (Cash price – Rs. 10,000/-) for outstanding contribution in the field of crop science, New Delhi, 16/7/2001. Received Memento at the hands of Hon. Dr. P. C. Alexander, Governor of Maharashtra for outstanding team research work on 25/8/2001

SAWR Fellow-2014

Name	Dr. Saikat Das	
Date of Birth & Place	09.05.1977; West Bengal	
Designation & Affiliation	Assistant Professor & In-Charge, Coochbehar Centre, AICW&BIP, Uttar Banga Krishi Viswavidyalaya	
Specialization	Plant Breeding	
Postal Address	Uttar Banga Krishi Viswavidyalaya, Coochbehar-736165, WB	
Email	saikat_breeder@yahoo.co.in; saikat.ubkv@gmail.com	
Mobile/ Phone	9434939334 (M)	

CITATION

Myself Dr. Saikat Das graduated from Bidhan Chandra Krishi Viswavidyalaya in 2000 and got passed Masters degree in Plant Breeding in 2002. Myself awarded with Ph.D degree in 2008 and my research area was in vegetable breeding where I have identified some promising lines of brinjal (*Solanum melongena* L.) resistant to brinjal fruit and shoot borer. I joined as Junior Breeder in AICW&BIP project of Uttar Banga Krishi Viswavidyalaya in 2006 and since then I have actively involved in wheat breeding. We have popularised new technology of sowing of wheat like zero tillage and reduced technology has been among farmers of this area and also developed micronutrient deficiencies like Boron, Zinc have been identified and proper management practices. Doing screening of wheat genotypes for foliar blight of both national and international wheat genotypes (hot spot for this disease) and also promising three genotypes of wheat is under testing condition which will be released soon.


SAWR Fellow-2014

Name	Dr. Apurba Kumar Chowdhury	
Date of Birth & Place	02-08.1962, Malda, WB	
Designation & Affiliation	Professor, (Plant Pathology), Uttar Banga Krishi Viswavidyalaya, Coochbehar-736165, WB	
Specialization	Disease Resistance, Conservation Agriculture	
Postal Address	Uttar Banga Krishi Viswavidyalaya, Coochbehar-736165, WB	
Email	akc_ubkv@rediffmail.com	
Mobile/ Phone	9434317558 (M)	

CITATION

Prof. Apurba Kr. Chowdhury having Ph.D in Plant Pathology and recipient of Jawahar Lal Nehru Award by ICAR in 1993, started career as Senior Scientific Officer, Department of Biotechnology, Govt. of India and joined as Lecturer in Plant Pathology at N.B. Campus of BCKV and later became Professor in 2007 and Dean, Faculty of Agriculture in 2010 at Uttar Banga Krishi Viswavidyalaya. He has Post-Doctoral experience on PR protein as SERC Fellow, DST, Govt. of India. He became East Zone Councillor of Indian Society of Mycology and Plant Pathology (2012). He handled 18 research projects funded by CIMMYT, CRP CGIAR, ACIAR, ICARDA, ICAR, DBT, RKVY, Govt. of West Bengal etc. and guided six Ph.D students. He published 45 research papers in National and International journals. He is the life member of many scientific societies and also member of research bodies of different universities. He attended many national and international seminars in India and abroad. He is also CEO nominated member of Executive Council of Society for Advancement of Wheat Research.

SAWR Fellow-2014

Name	Dr. Sindhu Sareen	
Date of Birth & Place	10.12.1964, Jammu	
Designation & Affiliation	Principal Scientist, Directorate of Wheat Research, Karnal (Haryana)	
Specialization	Genetics and Cytogenetics	
Postal Address	ICAR-Directorate of Wheat Research, Karnal-132001, Haryana	
Email	sareen9@hotmail.com	
Mobile/ Phone	9416911261 (M)	

CITATION

Dr. Sindhu Sareen, a Geneticist and Cytogeneticist, has 20 years of professional experience in the field of crop improvement, pre-breeding and genetic resources. She is working on wheat for last 8 years and developed two heat tolerant genetic stocks. She identified more than two dozen sources of heat and drought stress tolerance using synthetic wheats, land races and wild species and used them for introgression into elite cultivars. She is using mapping populations to study mechanism of terminal heat tolerance in wheat. She developed national and international collaborations in the field of heat tolerance and pre-breeding in wheat. Besides, she is discharging additional responsibility of Wheat Physiology Programme. Her contributions in the field of abiotic stress tolerance in wheat are well documented in her publications, which include referred research papers, reviews, book chapters and technical bulletins and presentations at national and international fora. She is recipient of YS Murty Young Scientist Award (2004) and Best Women Scientist Award of IBS (2008).

SAWR Fellow-2014

Name	Dr. M Sivasamy	
Date of Birth & Place	05.05.1964, Combatore, India	
Designation & Affiliation	Principal Scientist and Head, IARI, RS, Wellington-643 231	
Specialization	Plant Breeding	
Postal Address	7/181-1, Ragavendralaya, Tharaemi, Jagathala Road, Aruvankadu- 643 232, The Nilgiris (TN)	
Email	head_well@iari.res.in, iariwheatsiva@gmail.com	
Mobile/ Phone	09442350239 (M)	

CITATION

Dr. Murugasamy Sivasamy was born in a farming family at Village Onnipalayam, Bililichi, Coimbatore District in Tamil Nadu. He graduated as Ph.D scholar from TNAU, Coimbatore in the year 1992 and joined ICAR service as ARS scientist. He has more than 23 years' research experience in the wheat improvement. Acted as PI and Co-PI in various in-house and externally funded wheat programmes of ICAR, DBT, Indo-Australian, BRNS, oats projects. Instrumental in developing and releasing more than 18 wheat varieties covering all the wheat cultivating zones in India and got registered more than 20 wheat germplasm with NBPGR, New Delhi for specific traits for which he was awarded with citation and memento by DWR, Karnal. Published more than 100 research paper in the journals of national and international repute including Crop science, Euphytica, Plant breeding, Molecular breeding and CRC etc.,. Played key role in releasing and popularizing wheat varieties in non-traditional areas of South India particularly dicoccum. He is closely involved with the Borlaug Global Rust Initiative(BGRI) programme from India. Visited the countries like Mexico, USA, Kenya, Ethiopia, Nepal under DRRW-BGRI programme. Currently he is heading the IARI, Regional Station, Wellington


SAWR Fellow-2014

Name	Dr. Ajit Singh Kharub	
Date of Birth & Place	08.04.1962, Dharamkheri (Hisar, Haryana)	
Designation & Affiliation	Principal Scientist, Directorate of Wheat Research, Karnal (Haryana)	
Specialization	Soil Science, Input Management, Barley Improvement	
Postal Address	ICAR-Directorate of Wheat Research, Karnal-132001, Haryana	
Email	askharub@gmail.com	
Mobile/ Phone	09416158272 (M), 0184-2209154 (O)	

CITATION

Vast research experience of 22 years in resource management, barley improvement, and published 100 scientific documents. Evaluate and identify three barley and one wheat variety for better yield and quality performance. New profitable and sustainable agronomic package and practices recommended for malt, feed and dual purpose barley. Zero tillage was found beneficial for cotton and wheat sowing under cotton-wheat system which reduced the cost of production and enhanced productivity and profitability of the system. Reduced tillage was better in economics for feed and malt barley cultivation. Nitrogen recommendations were given for barley genotypes for irrigated rainfed and salinity conditions. For effective control of narrow and broad leaved weeds in barley, isoproturon in combination with either metsulfuron or 2,4 D (isoproturon 750g a. i. /ha+ metsulfuron 4 g a. i. /ha or 2,4 D 500g a. i. /ha) were recommended. Seed rate and nitrogen increase by 25% in dual purpose barley for better productivity of forage and grain. There is increase in yield of malt barley by reducing the spacing to 18 cm with 100kg seed/ha. On sustainable basis, 50% nitrogen through FYM and 50% through inorganic means gave fruitful results in barley. Two irrigations in feed barley and three irrigations in malt barley enough for optimum productivity except dry areas of Rajasthan where 4-5 irrigations were required. Currently, leading barley programme in India.


SAWR Fellow-2014

Name	Dr. AK Joshi	
Date of Birth & Place	02.08.1958; Gorakhpur, India	
Designation & Affiliation	Professor, (Genetics and Plant Breeding), Institute of Agricultural Sciences, BHU, Varanasi - 221005	
Specialization	Wheat Genetics and Breeding	
Postal Address	CIMMYT, Nepal, Post Box 5186, Singha Durbar Plaza Marg, Kathmandu, Nepal	
Email	a.k.joshi@cgiar.org	
Mobile/ Phone	00-977-1-4269564; 4269567 (0)	

CITATION

A native of Uttarakhand, Dr. Joshi obtained his BS, MS and PhD from Banaras Hindu University. Presently he is Principal Scientist in Global Wheat Program of CIMMYT and coordinating wheat breeding activities in south Asia. He is also Professor, Genetics and Plant Breeding, at Banaras Hindu University. Dr. Joshi is a Fellow of Indian National Science Academy (INSA) and also of DAAD Germany. He has made numerous contributions to wheat improvement by facilitating development of around two dozen wheat varieties and solving major issues with respect to spot blotch, which is No. 1 pathogen in the huge warmer humid region of South Asia. In last five years, he facilitated dissemination of a dozen Ug99 resistant wheat varieties in south Asia and Africa. He has identified genes/QTLs for wheat rusts, spot blotch, stay green trait, heat and drought tolerance and micronutrient concentration in wheat. In addition, he has educated hundreds of wheat researchers and farmers. Recently, he was awarded "Jeanie Borlaug Laube WIT Mentor Award 2014" from Borlaug Global Rust Initiative, Cornell, USA. His research findings are published in 115 refereed journal articles; 6 books, book chapters, and reviews; 56 symposia proceedings and 78 symposia abstracts, and has one patent.

SAWR Fellow-2014

Name	Dr. NVPR Ganga Rao	
Date of Birth & Place	01.11.1968, Tuni, East Godavari dist, Andhra Pradesh	
Designation & Affiliation	Legumes Breeder (Pigeonpea and Chickpea), ICRISAT-Nairobi, Kenya	
Specialization	Wheat, Oilseeds and Legumes Breeding	
Postal Address	P. O. Box : 39063-00623, ICRISAT, United Nations Avenue, Nairobi, Kenya	
Email	n.gangarao@cgiar.org	
Mobile/ Phone	254 712 505 552 (M)	

CITATION

Developed and released wheat cultivar 'DBW 17', an alternative to 'PBW 343' in India and associated with development of DBW 16 and DBW 71. Registered 10 wheat genetic stocks namely Giant, Mock, Hit, FKW 1, FKW 2, FKW 3, PHR 1011, PHSL-5, PHSL-10, PHSL-11. Associated in release of 15 chickpea varieties in Kenya(6), Tanzania (4), in Ethiopia(5). Associated in release of 8 pigeonpea varieties in Kenya (2), Malawi (3), in Mozambique (4). Recipient of Srinivasa Ramanujam Memorial Award for outstanding research in Plant Genetics and Fellow of Indian Society of Genetics and Plant breeding. Life Member of Scientific societies namely Indian Society of Genetics and Plant Breeding, Indian Phytopathological Society, Indian Science Congress Association, Indian Society of Oilseeds Research, Crop Improvement Society of India and National society of Plant Science. Dr Rao has published 38 research papers and has developed partnerships, as a legume breeder working closely with NARES partners in Kenya, Tanzania, Malawi, Mozambique, Uganda, Ethiopia. Guiding students and Capacity Building: Students from Kenya are working under my technical supervision, organised several training programs for various stake holders in legumes R & D. Conferences, meetings, projects handled: Several national international conferences, project planning and review meetings attended, presently in charge of four externally funded projects.

SAWR Fellow-2014

Name	Dr. Lakshmi Kant	
Date of Birth & Place	03.06.1969, Nainital	
Designation & Affiliation	Principal Scientist (Plant Breeding), VPKAS (ICAR), Almora 263601 Uttarakhand	
Specialization	Wheat and Barley Breeding	
Postal Address	Crop Improvement Division, VPKAS (ICAR), ALMORA 263601, Uttarakhand	
Email	lkant_vpkas@yahoo.com	
Mobile/ Phone	05962-231679 (0), 9412044391 (M)	

CITATION

Northern Hill Zone being foci of infection for rust diseases is important for wheat and barley economy of country. Their productivity is less than half of that in plains mainly due to cultivation of traditional varieties. The nine varieties developed; six of wheat and three of barley are capable of increasing the productivity on an average by 30-40% as evidenced by the demonstrations in the farmers' field. Utilization of winter and facultative wheat gene pool has lead to the release of two wheat varieties and gave an opportunity to other centers to utilize this important gene pool. Although general combining ability effects of most winter wheats are average or poor, their combination with spring wheat parents possessing high GCA could yield desirable genotypes. The dual purpose wheat variety VL Gehun 829 provides green fodder during lean months and almost the same grain yield as in uncut crop in hills. This has become popular in Plains areas too. These wheat and barley varieties performed well even with good rainfall, irrigated as well as organic conditions. Varieties like VL Gehun 829, VL 804, VL Gehun 802, VL Gehun 907 and VL Gehun 892 have spread among the farmers of hills and become popular.

SAWR Membership upto July 2014

Life Members : 156

Annual Members : 25

Students Members : 15

SAWR – Membership

Life Members (Total 156 up to July 2014)

A AHLAWAT (LM-0030), Technical Officer, Division of Genetics, IARI, New Delhi -110012; *Email: ahlawatavind@yahoo.com; Mobile: 9968070769*

ACHALASHARMA (LM-0119), Assistant Plant Breeder, Department of Plant Breeding & Genetics, Punjab Agricultural University, Ludhiana-141 004, Punjab; *Email: achla12@gmail.com; Mobile: 9872624980*

AG PANSURIYA (LM-0098), Asstt. Research Scientist (Breeding), College of Agriculture, Junagadh Agricultural University, Junagarh-362 001, Gujarat; *Email: agpansuriya@jau.in; Mobile: 9428241838*

AK CHOWDHURY (LM-0050), Plant Pathologist, UBKV, Pundibari, PO Coochbehar-736 165, West Bengal; *Email: akc_ubkv@rediffmail.com, Mobile: 9434317558*

AK JOSHI (LM-0054), Wheat Breeder, CIMMYT-SARO, Singha Durbar Marg, Kathmandu- Nepal; *Email: a.k.joshi@cgiar.org; Mobile: 9415221526*

AK SHARMA (LM-0009), Director, NBAIM, Kusmaur, Mau Nath Bhanjan-275 101, Uttar Pradesh; *Email: arun.dwr@gmail.com; Mobile: 9416217806*

AK SINGH (LM-0019), Principal Scientist, Division of Nematology, IARI, New Delhi-110 012; *Email: aksshrinet@gmail.com; Mobile: 9716904272*

AK SINHA (LM-0124), Senior Scientist, Directorate of Seed Research, Kusmaur, Mau Nath Bhanjan -275101, Uttar Pradesh; *Email: aksinha.dsr@gmail.com*

AN MISHRA (LM-0060), Head, IARI, Regional Station, Indore-452 001 (M.P.); *Email: iariindore@yahoo.co.in; Mobile: 9406614716*

ANIL KHIPPAL (LM-0149), Sr. Scientist, Directorate of Wheat Research, Karnal - 132 001, Haryana; *Email: anilkhippal@gmail.com; Mobile: 9416950098*

ANIL KUMAR (LM-0130), Wheat Breeder, Deptt. of Genetics & Plant Breeding, GBPUA&T, Pantnagar-263 145, Uttarakhand; *Email: anilsirohi_1@yahoo.in; Mobile: 9457663269*

ANUJ KUMAR (LM-0022), Senior Scientist (Extension), Directorate of Wheat Research, Karnal- 132 001, Haryana; *Email: anujp2001@gmail.com; Mobile: 9416467954*

ANUPAM SINGH (LM-0107), SRF, National Phytotron Facility, IARI, Pusa Campus, New Delhi 110012; *Email: anupamsingh132@umn.edu*

AP AGRAWAL (LM-0143), Principal Scientist, Genetic and Plant Breeding, TCB College of Agriculture and Research Station, IGKV, Sarkanda, Bilaspur-495 001, Chhattisgarh; Email: ap_agrawal@rediffmail.com; Mobile: 9424282372

ARUN GUPTA (LM-0092), Directorate of Wheat Research, Karnal- 132001, Haryana; Email: arung66@yahoo.com; Mobile: 9466864877

ARUN KUMAR (LM-0111), SRF, National Phytotron Facility, IARI, Pusa Campus, New Delhi 110012; Email: arunphdsst@gmail.com; Mobile: 8130823675

AS KHARUB (LM-0053), Principal Scientist & PI (Barley Network), Directorate of Wheat Research, Karnal-132 001, Haryana; Email: askharub@gmail.com; Mobile: 9416158272

ASHOK GUPTA (LM-0032), Senior Scientist, Division of Plant Breeding & Genetics, SKUAST, Main Campus, Chatha, Jammu-180 009 (J&K); Email: ashokgupta1970@rediffmail.com; Mobile: 9419100401

B ARUN (LM-0117), Assistant Professor, Department of Plant Breeding & Genetics, Institute of Agril. Sciences, BHU, Varanasi-221 005 (UP); Email: arunbhu@gmail.com; Mobile: 9935492799

B MISHRA (LM-0001), Former Vice-Chancellor, SKAUST, Jammu, Flat No. B-63, IDCCGHSApartments, Plot 8-C, Sector-11, Dwarka, New Delhi-110075; Email: b9mishra@gmail.com; Mobile: 9582500093

BC PATEL (LM-0091), Asstt. Research Scientist, (Wheat) Regional Research Station, Anand Agricultural University, Anand – 388 110 (Gujarat); Email: bchingwala@yahoo.com; Mobile: 9426543780

BHANU BHAKTA POKHUREL (LM-0154), Senior Scientist, Agronomy and Plant Breeding, Nepal Agricultural Research Council, Kathmandu, Nepal

BIMAL SINGH JAMWAL (LM-0023), Division of Plant Breeding & Genetics, SKUAST-J., Main Campus, Chatha, Jammu-180 009 (J&K); Email: bsjamwal@rediffmail.com; Mobile: 9906041499

BK MEENA (LM-0145), Technical Officer, Directorate of Wheat Research-132 001, Haryana, Email: pbkmeena@yahoo.com; Mobile: 9466561460

BN SINGH (LM-0072), Wheat Breeder & I/C Wheat, ND University of Agriculture & Technology, PO Kumarganj, Distt. Faizabad-224 229 (UP); Email: bsnsingh51@gmail.com; Mobile: 9415718087

BS TYAGI (LM-0013), Principal Scientist, Directorate of Wheat Research, Karnal-132001, Haryana; Email: bs.bstkn@gmail.com; Mobile: 9034024140

CB SALUNKE (LM-0048), Seed Production Officer, Mahatma Phule Krishi Vidhyapeeth, Niphad- 422 303, Distt Nasik, Maharashtra; Email: cbsalunke@yahoo.co.in; Mobile: 9404112240

CHARANSINGH (LM-0094), Scientist (Plant Breeding), Directorate of Wheat Research, Karnal-132 001, Haryana; Email: n_charansingh@hotmail.com; Mobile: 9215813830

CN MISHRA (LM-0084), Scientist (Plant Breeding), Directorate of Wheat Research, Karnal-132 001, Haryana; Email: cnmishra@rediffmail.com; Mobile: 9468251294

D MOHAN (LM-0008), Principal Scientist (Plant Breeding), Directorate of Wheat Research, Karnal- 132 001, Haryana; Email: devmohan@gmail.com; Mobile: 8814067087

DA GADEKAR (LM-0059), Wheat Breeder, MPKV, ARS, Niphad - 422303, Distt. Nasik (Maharashtra); Email: mauli111@rediffmail.com; Mobile: 9422759716

DAMANJIT KAUR (LM-0062), Senior Nematologist, Deptt of Plant Breeding & Genetics, Punjab Agricultural University, Ludhiana-141 004, Punjab; Email: daman_wheat2007@yahoo.com; Mobile: 9417087367

DHARAM PAL (LM-0067) Senior Scientist (Plant Breeding), IARI, Regional Station, Tutikandi, Shimla - 171 004 (H.P.); Email: dpwalia@rediffmail.com; Mobile: 9817163305

DHIMAN MUKHERJEE (LM-0141), Assistant Professor (Agronomy), RRS (HZ), UBKV, Kalimpong, Darjeeling, West Bengal -734301; Email: dhiman_mukherjee@yahoo.co.in; Mobile: 9474083413

DIBAKAR MAHANTA (LM-0121), Scientist, VPKAS, Almora- 263 643, Uttarakhand; Email: ibakar_mahanta@yahoo.com; Mobile: 9456108508

DINESH KUMAR (LM-0086), Principal Scientist, Directorate of Wheat Research, Principal Scientist (Biochemistry), Karnal- 132 001, Haryana; Email: dkbiochem69@gmail.com; Mobile: 9467964836

DINESH PANDEY (LM-0144), Scientist Agronomy, TCB College of Agri. and Research Station, IGKV, Sarkanda, Bilaspur- 495001, Chhattisgarh; Email: pdp1974@rediffmail.com; Mobile: 9412438860

DN SINGH (LM-0070), Division of Genetics, IARI, New Delhi-110012

DV GOHIL (LM-0058), Wheat Breeder, Lok Bharati, Sanosara-364 230, Bhavnagar, Gujarat; Email: dvghil.wrc@gmail.com; Mobile: 9426919575

GP SINGH (LM-0027), Principal Scientist, Division of Genetics, IARI, New Delhi-110 012; *Email: gpsingh@iari.res.in; Mobile: 9868841775*

GURUDEVSINGH (LM-0132), Assistant Agronomist, Village Lower Majhetly, PO Pathiar, Tehsil & District Kangra (HP); *Email: gdevsaandil@rediffmail.com; Mobile: 9418479856*

GYANENDRA SINGH (LM-0040), Principal Scientist (Plant Breeding), Directorate of Wheat Research, Karnal-132 001, Haryana; *Email: gysingh@gmail.com; Mobile: 9416109950*

HARI RAM SAHARAN (LM-0109), Wheat Agronomist, Deptt of Plant Breeding and Genetics, Punjab Agricultural University, Ludhiana -141004, Punjab; *Email: hr_saharan@yahoo.com; Mobile: 9814902967*

HARINDERJEET KAUR (LM-0106), Asstt. Cereal Analyst, Department of Plant Breeding & Genetics, Punjab Agricultural University, Ludhiana-141 004 (Punjab); *Email: harinderjeet_pau@yahoo.co.in; Mobile: 9814966286*

HB CHAUDHARY (LM-0025), Division of Genetics, IARI, New Delhi-110012; *Email: hbchaudhary@gmail.com*

IK KALAPPA NAVAR (LM-0063), Prof. Plant Pathology, Dr. Sanjay Rajaram Wheat Lab, College of Agriculture, Dharwad-580 005, Karnataka, *Email: ikkyashu@gmail.com, Mobile: 9449642935*

INDOO BHAGAT (LM-0105), Wheat Breeder, Punjab Agril. University, Regional Res. Station, Gurdaspur- 143 521 (Punjab), *Email: bhagatindoo@gmail.com, Mobile: 9478003122*

INDU SHARMA (LM-0061), Project Director, Directorate of Wheat Research, Karnal- 132 001, Haryana; *Email: ispddwr@gmail.com; Mobile: 9416800857*

IS PANWAR (LM-0093), Sr. Wheat Breeder, Deptt. of Plant Breeding, CCS Haryana Agril. University, Hisar-125 004, Haryana; *Email: isp.panwar@gmail.com; Mobile: 9416240922*

J KUMAR (LM-0005), Principal Scientist & Head, IARI, Regional Station, Tutikandi, Shimla-171004 (H.P.); *Email: jkumar56@gmail.com; Mobile: 9418629683*

JAG SHORAN (LM-0014), Chief, R & D – Wheat Krishidhan Seeds Pvt. Ltd., D3-D6, Addl. M.I.D.C. Area, Aurangabad Road, Jalna -431 213 (MH) India; *Email: jshoran1948@gmail.com; Mobile: 8954185532*

JAGADISH CHOUDHARY (LM-0112), Assistant Agronomist, Department of Agronomy, Rajasthan College of Agriculture, MPUAT, Udaipur-313001 (Raj); *Email: jaggiudr@gmail.com; Mobile: 9460632522*

JAGDISH RANE (LM-0004), Head, School of Drought Stress, Management, NIASM, Malegaon (Baramati), Pune- 413 115, Maharashtra; Email: jrane@niam.res.in; Mobile: 9632596108

JANG BAHADUR SINGH (LM-0125), Senior Scientist (Plant Breeding), IARI, RS, Indore (MP); Email: jangbsingh@gmail.com; Mobile: 9752159512

JAVED BAHAR KHAN (LM-0064), Wheat Pathologist, Section of Rabi Cereals, CS Azad Univ. of Agri. & Technology Kanpur-208002,(UP); Email: javedbaharkhan@rediffmail.com; Mobile: 9415078468

JAYESH SINGH (LM-0128), Agronomist, Department of Plant Breeding & Genetics, Punjab Agricultural University Ludhiana-141004, Punjab; Email: jayesh_singh@pau.edu; Mobile: 9876737802

JB SHARMA (LM-0028), Senior Scientist, Division of Genetics, IARI, New Delhi-110012; Email: jbsiari@gmail.com; Mobile: 9968256008

JITENDRA KUMAR SINGH (LM-0076), Wheat Entomologist (Wheat), Section of Rabi Cereals, CS Azad Univ. of Agriculture & Technology, Kanpur-208 002 (UP); Email: nbsingh2006@yahoo.com, Mobile: 9621633301

JJ DEVESHWAR (LM-0029), Cummings Lab, Division of Genetics, IARI, New Delhi -110012; Email: janmayjai_deveshwar@yahoo.com; Mobile: 9535642767

JOGENDRA SINGH (LM-0150), Sr. Scientist, Directorate of Wheat Research, Karnal- 132 001, Haryana; Email: jogendrasail@yahoo.co.in; Mobile: 8607470083

JOHAR SINGH (LM-0078), Assoc. Plant Breeder, Deptt. Plant Breeding & Genetics, Punjab Agricultural University, Ludhiana Punjab; Email: singhjohar@yahoo.co.in; Mobile: 9464759684

JP JAISWAL (LM-0068), Professor & Sr. Wheat Breeder, Deptt of Plant Breeding, GBPUA&T, Pantnagar-263 145, Distt. Udham Singh Nagar (Uttarakhand); Email: jpj.gbpu@gmail.com; Mobile: 9411159751

KARNAM VENKATESH (LM-0151), Scientist, Directorate of Wheat Research, Karnal-132 001, Haryana; Email: kv4515gpb@gmail.com; Mobile: 9996270154

KAUSHIK MAJUMDAR (LM-0134), Director, INT Plant Nutrition Institute, H NO 354, Sector 21, Gurgaon 122016, Haryana; Email: kmajumdar@ipni.net; Mobile: 9871944242

KB GAIKWAD (LM-0147), Scientist (Plant Breeding), 19, Cummins Lab, Division of Genetics, IARI, Pusa Campus, New Delhi- 110 012; India, Email: kbgaikwad@iari.res.in; Mobile: 9953258234

KD BHOITE (LM-0047), Fl. No. 7, "Parth Co-op. Hsg. Society", Model Colony, Shivshakti Nagar, Jail Road, Nasik Road-422 101, Maharashtra; Email: bhoitekd@gmail.com; Mobile: 9823224937

KS BABU (LM-0043), Directorate of Oilseeds Research Rajendra Nagar, Hyderabad – 500 030 (AP); Email: bkurra@hotmail.com; Mobile: 9491868815

KV PRABHU (LM-0024), Joint Director (Research), IARI, New Delhi- 110 012; Email: kvinodprabhu@rediffmail.com; Mobile: 9899023566

LAKSHMI KANT (LM-0056), Pr. Scientist, (Breeding), VPKAS, Almora-263 601, (Uttarakhand); Email: lkant_vpkas@yahoo.com; Mobile: 9412044391

LAL CHAND PRASAD (LM-0079), Barley Breeder, Deptt. of Plant Breeding & Genetics, Institute of Agril. Sciences, BHU, Varanasi-221005, UP; Email: lcbhu@rediffmail.com; Mobile: 8081775456

LG VANPARIA (LM-0099), Assoc. Research Scientist, College of Agriculture, Junagarh Agril. University, Junagarh-362 001 (Gujarat); Email: rswheat@jau.in; Mobile: 9925500124

LK GANGWAR (LM-0104), Deptt. Genetics & Plant Breeding, MSKJ University of Agriculture & Technology, Banda – 210001 (UP); Email: gangwarlk@gmail.com; Mobile: 9411957307

M PRASHAR (LM-0037), Lead (Pathology), Maharashtra Hybrid Seeds Company Limited Dawalwadi, PO Box 76, Jalna (MS) 431203, India; Email: mohinder.prashar@gmail.com; Mobile: 9765800627

MSIVASAMY (LM-0052), Senior Scientist, IARI, Regional Station, Wellington-634 23, TN; Email: iariwheatsiva@rediffmail.com; Mobile: 9442350239

MAMRUTHA HM (LM-0113), Scientist (Pathology), Directorate of Wheat Research, Karnal- 132 001, India; Email: mamruthamadhu@gmail.com; Mobile: 8053243212

MEERA SRIVASTAVA (LM-0103), Assistant Professor, C-3, Rawatpur Officer Colony, Kanpur-208002 (UP); Email: meera_wheatquality@rediffmail.com; Mobile: 9415483989

ML JAT (LM-0097), Cropping Systems Agronomist, CIMMYT- India office, CG Block, NASC Complex, DPS Marg, New Delhi – 110012, India; Email: m.jat@cgiar.org; Mobile: 9999108787

MOHD PARWAIZ ALAM (LM-0133), Wheat Agronomist, BAU, Kanke – 834006, Ranchi, Jharkhand; Email: prwzalam66@gmail.com; Mobile: 7250820745

MOHD ANWAR KHAN (LM-0131), Asstt Professor, Plant Breeding & Genetics, Faculty of Agriculture, SKUAST, Wadura, Sopore, 193201, J&K

MS SAHARAN (LM-0034), Principal Scientist, Directorate of Wheat Research, Karnal- 132001, Haryana; *Email: mssaharan7@yahoo.co.in; Mobile: 09416988856*

MY SAMDUR (LM-0057), Centre on Rabi Sorghum (DSR), NH 9, Bypass Road, Shelgi, Solapur-413006 (MH)

NITISH DE (LM-0083), Senior Scientist (Breeding), Deptt. Of Plant Breeding & Genetics, Bihar Agriculture University, Sabour-813 210, Bhagalpur (Bihar); *Email: nitishde@gmail.com; Mobile: 9939442949*

NPVR GANGARAO (LM-0055), Legumes Breeder (Pigeon, pea & Chickpea), ICRISAT-Nairobi, Kenya; *Email: n.gangarao@cgiar.org; Mobile: 25471250552*

NR POTDUKHE (LM-0129), Sr. Research Scientist (Wheat), Wheat Research Unit, Dr. Punjabrao Deshmukh Krishi Vidhyapeeth Akola- 444 104, Maharashtra; *Email: nrpwwheat2009@rediffmail.com; Mobile: 8275013903*

NS BAINS (LM-0120), Sr. Wheat Breeder, Deptt of Plant Breeding & Genetics, Punjab Agricultural University, Ludhiana- 141 004, Punjab; *Email: nsbains@rediffmail.com; Mobile: 9872207667*

OP GUPTA (LM-0139), Scientist, Directorate of Wheat Research, Karnal -132 001, Haryana; *Email: opguptaiari@gmail.com; Mobile: 8295367440*

PK DEB CHOWDHURY (LM-0100), Sr. Scientist, RARS, AAU, Post Box No. 7, Shillongani-782 001, Distt. Nagaon, Assam; *Email: pkdcwheat@gmail.com; Mobile: 9435471835*

PM BHATTACHARYA (LM-0136), Wheat Breeder, UBKV, Pundibari, PO Coochbehar-736 165 (WB); *Email: pmb_ubkv@yahoo.co.in; Mobile: 9434317558*

PN RASAL (LM-0046), Associate Dean, College of Agriculture, Dhule, Maharashtra; *Email: pn_rasal@yahoo.com; Mobile: 07588036388*

PN VERMA (LM-0142), Research Scholar, Chandra Shekhar Azad University of Agriculture & Technology, Kanpur -208 002 (UP); *Email: prem.verma124@gmail.com; Mobile: 8853478235*

PRADEEP SHARMA (LM-0089), Sr. Scientist, Directorate of Wheat Research, Karnal- 132 001, Haryana; *Email: neprads@gmail.com; Mobile: 9416613099*

PUJA SRIVASTAVA (LM-0118), Assistant Plant Breeder, Deptt of Pl. Breeding & Genetics, Punjab Agricultural University, Ludhiana- 141004 (Punjab); Email: pujasri1@gmail.com; Mobile: 9041311227

R SELVAKUMAR (LM-0152), Sr. Scientist, Directorate of Wheat Research, Karnal- 132 001, Haryana; Email: selvakumar2000@gmail.com; Mobile: 9466541838

R SENDHIL (LM-0108), Scientist (Agriculture Economist), Directorate of Wheat Research, Karnal- 132 001, Haryana; Email: r.sendhil@gmail.com; Mobile: 8929063645

RAGHU BR (LM-0122), VPKAS, Almora-263 601, Uttarakhand; Email: ragubr@gmail.com; Mobile: 9756761499

RAJ KUMAR (LM-0017), Senior Scientist, Directorate of Wheat Research, Karnal- 132001, Haryana; Email: rajkumars.dwr@gmail.com; Mobile: 9255270088

RAJBIR YADAV (LM-0045), Pr. Scientist, Division of Genetics, IARI, New Delhi – 110012; Email: rajbiryadav@yahoo.com; Mobile: 9868217446

RAJEEV KUMAR (LM-0140), Assistant Professor, RAU Pusa, Samastipur - 848 125, Bihar; Email: rajiv.gen@gmail.com; Mobile: 9430801699

RAJEEV KUMAR SHARMA (LM-0096), 216, Maitry Appartment, P-28, Patparganj, Delhi

RAJENDER SINGH (LM-0082), Sr. Scientist, Directorate of Wheat Research, Karnal-132 001, Haryana; Email: rajenderkhokhar@yahoo.com; Mobile: 9466527643

RAJESH KUMAR (LM-0075), Jr. Agronomist, NDUAT, PO Kumarganj, Faizabad-224 229 (UP); Email: rjesh_nduat@yahoo.com; Mobile: 9415527874

RAJINDER SINGH BAL (LM-0135), Asstt Plant Pathologist, PAU, RRS, Gurdaspur – 143 521, Punjab, Email: rsbalgsp@gmail.com

RAJPAL MEENA (LM-0090), Scientist (Agronomy), Directorate of Wheat Research, Karnal-132 001, Haryana; Email: adityarajjaipur@gmail.com; Mobile: 9466942144

RAMESH CHAND (LM-0156), Sr. Technical Officer, DWR, Karnal-132 001, Haryana; Email: rcsagwal@rediffmail.com; Mobile: 9416032620

RANDHIR SINGH (LM-0021), Principal Scientist & PI (Social Science), Directorate of Wheat Research, Karnal-132 001, Haryana; Email: rspowal1962@gmail.com; Mobile: 9416015619

RATAN TIWARI (LM-0006), Principal Scientist, Directorate of Wheat Research, Karnal- 132 001, Haryana; *Email: tiwari1964@yahoo.com; Mobile: 9416650890*

RAVISH CHATRATH (LM-0003), Principal Scientist, Directorate of Wheat Research, Karnal- 132 001, Haryana; *Email: r.chatrath@gmail.com; Mobile: 9416177625*

REKHA MALIK (LM-0018), Scientist (SS), Directorate of Wheat Research, Karnal- 132 001, Haryana; *Email: rekhasmalik1@gmail.com; Mobile: 9416482962*

RENU MUNJAL (LM-0110), Wheat Pathologist, Deptt. of Plant Breeding, CCS Haryana Agricultural University, Hisar-125 004, Haryana; *Email: munjalrenu@hau.ernet.in; Mobile: 9466018199*

RESHMA SULATANA (LM-0153), Principal Scientific Officer, Barley Breeding Plant Breeding, Division Bangladesh Agricultural Research Institute, Gazipur 17 01, Bangladesh

RK GUPTA (LM-0002), Principal Scientist & PI (Quality Improvement), Directorate of Wheat Research, Karnal- 132 001, Haryana; *Email: rk Gupta_dwr@yahoo.com; Mobile: 9996980619*

RK SHARMA (LM-0011), Principal Scientist & PI (Resource Management), Directorate of Wheat Research, Karnal- 132 001, Haryana, *Email: rks20037@gmail.com, Mobile: 9416252374*

RK SHARMA (LM-0026), Principal Scientist, Division of Genetics, IARI, New Delhi- 110 012; *Email: sharma.rk.rk@gmail.com; Mobile: 9868511961*

RK SINGH (LM-0071), Professor-cum-Barley Agronomist, Deptt. of Agronomy, Institute of Agril. Sciences, Banaras Hindu University Varanasi-221 005 (UP); *Email: rks1660bhu@gmail.com; Mobile: 9450533438*

RN YADAV (LM-0127), Principal Scientist, IARI Regional Station, Karnal-132 001, Haryana; *Email: ramnyadav@gmail.com; Mobile: 9416362134*

RP SINGH (LM-0065), Adjunct Faculty, Deptt. of Plant Breed. & Genetics, PAU, Ludhiana-141 004 (Punjab); *Email: rpspau@hotmail.com; Mobile: 9888613427*

RPSVERMA (LM-0012), Barley Breeder, International Center for Agricultural Research in the Dry Areas, Rabat, Morocco; *Email: rpsvdwr@hotmail.com; Mobile: 9416468414*

RS CHHOKAR (LM-0035), Senior Scientist, Directorate of Wheat Research, Karnal- 132 001, Haryana; *Email: rs_chhokar@yahoo.co.in; Mobile: 9416296262*

RS SAINI (LM-0066), Associate Professor, ARS, Rajasthan Agricultural University, Durgapura- 302004, Jaipur, Rajasthan; Email: ransingh@gmail.com; Mobile: 9413845448

SA DESAI (LM-0077), Senior Scientist (Plant Breeding), Dr. Sanjay Rajaram Wheat Laboratory, College of Agriculture, Dharwad-580 005, Karnataka; Email: sadesai01@rediffmail.com; Mobile: 9448730146

SAIKATDAS (LM-0049), Wheat Breeder, UBKV, Pundibari, PO Coochbehar-736 165 (WB); Email: Saikat_breeder@yahoo.co.in; Mobile: 9434939334

SANJAY KUMAR (LM-0081), Principal Scientist, Division of Genetics, IARI, New Delhi-110 012; Email: sanjay_iari@rediffmail.com; Mobile: 9013563919

SANTOSH KUMAR (LM-0126), Scientist (Plant Breeding), ICAR Research Complex for Eastern Region, PO BV College, Patna 800 014, Bihar; Email: santosh9239@gmail.com; Mobile: 9973113026

SATISH KUMAR (LM-0085), Scientist (Plant Breeding), Directorate of Wheat Research, Karnal-132 001, Haryana; Email: kumarsatish227@gmail.com; Mobile: 9467994844

SATYAVIR SINGH (LM-0044), Senior Scientist, Directorate of Wheat Research, Karnal- 132 001, Haryana; Email: satyavirsdwr@yahoo.com; Mobile: 9416195679

SC BHARDWAJ (LM-0038), Head, DWR, Regional Station, Flowerdale, Shimla-171 002 (HP); Email: scbfdl@hotmail.com; Mobile: 9418129900

SC TRIPATHI (LM-0007), Principal Scientist, Directorate of Wheat Research, Karnal- 132 001, Haryana; Email: subhtripathi@gmail.com; Mobile: 9416651464

SEWA RAM (LM-0015), Principal Scientist, Directorate of Wheat Research, Karnal- 132 001, Haryana; Email: sewaram01@yahoo.com; Mobile: 9416236739

SHASHI MADAN (LM-0101), Senior Wheat Biochemist, Deptt. of Plant Breeding, CCS Haryana Agril. University, Hisar-125 004, Haryana; Email: smadan@hau.ernet.in; Mobile: 9416471202

SINDHU SAREEN (LM-0051), Principal Scientist, Directorate of Wheat Research, Karnal- 132 001, Haryana; Email: sareen9@hotmail.com; Mobile: 9416911261

SK JAIN (LM-0039), Principal Scientist (Pathology), VPKAS, Almora-263601, Uttarakhand; Email: sksanjaykjain100@yahoo.com; Mobile: 9456764764

SK MONDAL (LM-0031), Associate Professor, Division of Pl. Breeding & Genetics, SKUAST-J. Main Campus, Chatha, Jammu-180 009 (J&K); Email: dskm2006@yahoo.co.in; Mobile: 9419114789

SK MUKHOPADHYAY (LM-0095), OIC & Professor of Agronomy, AICW&BIP, BCKV, Kalyani-741235, Nadia, West Bengal; Email: skmbckv@gmail.com; Mobile: 9477231319

SK SETHI (LM-0148), Sr. Wheat Breeder, Department of Genetics and Plant Breeding, CCS Haryana Agricultural University, Hisar-125 004, Haryana; Email: sethiskccshau@gmail.com; Mobile: 9416239506

SK SINGH (LM-0041), Senior Scientist, Directorate of Wheat Research, Karnal-132 001, Haryana; Email: sksingh.dwr@gmail.com; Mobile: 9416483960

SNEH NARWAL (LM-0087), Senior Scientist, Directorate of Wheat Research, Karnal-132001, Haryana; Email: sehdagar@yahoo.co.in; Mobile: 9416656556

SONIA SHEORAN (LM-0138), Scientist, Directorate of Wheat Research, Karnal-132 001, Haryana; Email: sheoran_sonia@yahoo.co.in; Mobile: 9813148666

SR VISHWAKARMA (LM-0073), Barley Breeder, Deptt. of Plant Breeding, ND University of Agriculture & Technology, P.O. Kumarganj, Distt. Faizabad-224 229 (UP); Email: srvnduat@rediffmail.com; Mobile: 9450763833

SS VAISH (LM-0080), Wheat Pathologist, Deptt. of Plant Pathology, Institute of Agril. Sciences, Banaras Hindu University, Varanasi-221 005 (UP); Email: shyam_saran@rediffmail.com; Mobile: 9451361998

STUTI THAKUR (LM-0146), Ph.D. Scholar, CU-159, Uttari Pitampura, New Delhi-110 034, India; Email: stutisthakur@gmail.com

SUBHASH CHANDER (LM-0033), Senior Scientist, Directorate of Wheat Research, Karnal 132001, Haryana; Email: sbhgill@yahoo.com; Mobile: 9416361555

SUNITA MAHAPATRA (LM-0114), Asstt. Plant Pathologist, B-9/252, Kalyani, Nadia PO Kalyani, West Bengal; Email: sunitamahapatra@yahoo.co.in; Mobile: 9432162326

SUSHILA KUNDU (LM-0016), Principal Scientist, Directorate of Wheat Research, Karnal-132 001, Haryana; Email: skundu_dwr@yahoo.com; Mobile: 9416261645

SV SAI PRASAD (LM-0042), Principal Scientist, IARI, Regional Station, Indore-452 001 (M.P.); *Email: sprasad98@yahoo.com; Mobile: 9425957920*

TAPMAY DHAR (LM-0137), Krishi Vigyan Kendra, Uttar Banga Krishi Vishwavidyalaya Block Seed Farm, P.O. Ratua, Distt. Malda- 732205, West Bengal; *Email: tapamay_ubkv@yahoo.co.in; Mobile: 9434155170*

TP SAIKIA (LM-0123), Principal Scientist, RARS, AAU, Post Box No. 7, Shillongani-782 001, Distt. Nagaon, Assam; *Email: tpsaikia@gmail.com; Mobile: 9435162356*

VANDANA TYAGI (LM-0115), Principal Scientist, NBPGR, Pusa Campus, New Delhi – 110 012; *Email: vtyagi3@gmail.com; Mobile: 9868228318*

VIJAY RANA (LM-0010), Wheat Breeder, Rice & Wheat Research Station, CSK – HPKV, Malan, Distt. Kangra (H.P.); *Email: vijayrana2005@gmail.com; Mobile: 9418457124*

VIKAS GUPTA (LM-0088), Scientist, Directorate of Wheat Research, Karnal- 132 001, Haryana; *Email: vikasdwr@gmail.com; Mobile: 9416292572*

VINOD TIWARI (LM-0020), Principal Scientist & PI (Crop Improvement) Directorate of Wheat Research, Karnal- 132 001, Haryana; *Email: pici.dwr@gmail.com; Mobile: 9416468165*

VK MISHRA (LM-0116), Professor, Deptt. of Pl. Breeding & Genetics, Institute of Agricultural Sciences, BHU, Varanasi-221 005 (UP); *Email: vkmbhu@gmail.com; Mobile: 9415254476*

VS KANDALKAR (LM-0102), Wheat Breeder, College of Agriculture, Gwalior-474011, MP; *Email: vsntkandalkar@gmail.com, Mobile: 9425087311*

VS SOHU (LM-0069), Sr. Wheat Breeder, Department of Plant Breeding & Genetics, Punjab Agricultural University, Ludhiana-141004 (Punjab); *Email: vssohuvs@yahoo.com; Mobile: 9876134373*

YADUNATH BAJGAI (LM-0155), Deputy Chief Research Officer, RNR-Research and Development Centre, BajoWangdue Phodrang Bhutan

YP SHARMA (LM-0036), Former Head, IARI, Regional Station, Tutikandi, Shimla-171 004, HP; *Email: yashiarishimla@gmail.com; Mobile: 9418006302*

Annual Members (2013-14)

AS REDHU (AM2013-0046), Sr. Wheat Breeder, Department of Genetics and Plant Breeding, CCS, Haryana Agril. University, Hisar-125 004, Haryana, Email: wheat@hau.ernet.in; Mobile: 9466861557

DEVESH PANDEY (AM2013-0058), Professor (Water management), TCB College of Agriculture and Research Station, IGKV, Sarkanda, Bilaspur- 495 001, Chhattisgarh; Email: pdp1974@rediffmail.com; Mobile: 9412438860

DIVYA AMBATI (AM2013-0064), Scientist, IARI, RS, Indore-452 001 (MP); Email: divyaambati46@gmail.com, Mobile: 0731-2702921

JETHA BHAI PATEL (AM2013-0050), Research Scientist, Regional Research Station, Anand Agricultural University, Anand 388110, Gujarat

LAXMI KANT (AM2013-0070), Asstt. Professor, SVPUA&T KVK Choulas, Distt Gautam Budh Nagar, UP

MUNEENDRA KUMAR SINGH (AM2013-0068), Centre of excellence in Genomics, #300, ICRISAT, Patancheru, Hyderabad-502324 (AP); Email: drmkingsinghgene@gmail.com; Mobile: 9573397508

NB SINGH (AM2013-0055), Plant Physiologist (Wheat), Section of Rabi Cereals, C.S. Azad University of Agriculture & Technology, Kanpur-208 002 (UP); Email: nbsingh2006@yahoo.co.in, Mobile: 9415483752

NEERAJ DILBAGHI (AM2013-0067), Professor, Guru Jambheshwar University of Science & Technology, Hisar-125 004, Haryana

RAJESH KUMAR ARYA (AM2013-0049), Department of Genetics and Plant Breeding, CCS Haryana Agricultural University, Hisar-125 004, Haryana; Email: rakarayogi@gmail.com

RAS LAMBA (AM2013-0065), Scientist, Deptt. of Plant Breeding, CCS Haryana Agricultural University, Hisar-125 004; Email: rlambda02@gmail.com; Mobile: 9416130855

SACHIN M SHINDE (AM2013-0053), Asst Professor, Wheat Research Unit, Dr. Punjabrao Deshmukh Krishi Vidhyapeeth, Akola- 444104, Maharashtra

SHARDHA R DESHMUKH (AM2013-0054), Asst Professor, Wheat Research Unit, Dr. Punjabrao Deshmukh Krishi Vidhyapeeth, Akola- 444 104, Maharashtra

SR KANTWA (AM2013-0059), Sr Scientist, NRC on Agroforestry, Pahuj Dam, Jhansi

SR VERMA (AM2013-0047), Department of Genetics and Plant Breeding, CCS Haryana Agril. University, Hisar-125 004, Haryana, Email: verma.sadaram@gmail.com, Mobile: 9416271385

SS KARWASRA (AM2013-0048), Department of Genetics and Plant Breeding, CCS, Haryana Agril. University, Hisar-125 004, Haryana; Email: karwasra_2006@yahoo.co.in; Mobile: 9416673375

SUSHIL KUMAR SINGH (AM2013-0063), SRF, IARI, RS, Indore-452001, (MP)

SWATI G BHARAD (AM2013-0052), Asst Professor, Wheat Research Unit, Dr. Punjabrao Deshmukh Krishi Vidhyapeeth, Akola- 444 104, Maharashtra; Email: sgb.bharad@gmail.com; Mobile: 9970058399

TIM L SETTER (AM2013-0057), Director, Grains Industry Directorate, Department of Agriculture and Food Western Australia (DAFWA), 3 Baron HayCourt, SouthPerth, WesternAustralia, Email: tim.setter@agric.wa.gov.au, Mobile: 91404819632

TL PARKASHA (AM2013-0060), Scientist, IARI, RS, Indore -452 001(MP), Email: prakash7385@gmail.com; Mobile: 0731-2702921

VG DUBHEY (AM2013-0061), Technical Officer, IARI, RS, Indore-452 001, (MP)

VINOD (AM2013-0062), Principal Scientist, Division of Genetics, IARI, New Delhi -110 012; Email: vinod.genetics@gmail.com; Mobile: 9868388559

VISHNU GOYAL (AM2013-0069), Scientist, Directorate of Wheat Research, Karnal, Haryana; Email: vishnupbg@gmail.com; Mobile: 9255568506

VS RAO (AM2013-0056), Former Director, ARI PUNE; Email: srao48@gmail.com, Mobile: 9822033062

YOGENDRA KUMAR (AM2013-0066), Asstt Botanist (Barley), Deptt. of Plant Breeding, CCS Haryana Agricultural University, Hisar, Haryana; Email: ykgulia@hau.ernet.in, Mobile: 9416320888

YOGESH M ROJASARA (AM2013-0051), Asst Res Scientist, Regional Research Station, Anand Agricultural University Anand 388110, Gujarat; Email: yogeshrojasara@gmail.com

Student Members (2013-14)

APOORVA ARORA (SM2013-0027), Ph.D. Scholar, Directorate of Wheat Research, Karnal-132 001, Haryana; Email: aapoorva29@gmail.com; Mobile: 9315319000

CHETAN KUMAR CHOUDHARY (SM2013-0025), Ph.D. Scholar, Department of Plant Breeding CCS Haryana Agril. University, Hisar-125 004, Haryana

DANISHA ABHISHEK (SM2013-0024), Ph.D. Scholar, Department of Plant Breeding, CCS Haryana Agril. University, Hisar-125 004, Haryana

GOPLA SITARAM CHAVAN (SM2013-0023), M.Sc Student, Wheat Research Unit, Dr. Punjabrao Deshmukh Krishi Vidhyapeeth Akola- 444 104, Maharashtra

HARI NARAYAN BIND (SM2013-0016), Ph.D. Student, Deptt Genetics and Plant Breeding, SVBPUA&T Modipuram Meerut (UP)

MAHESH VERMAN (SM2013-0030), M.Sc Student, C/o Kashi Ram Goyal, Dev Nagar, Naka Chandhrabadhni- 474 009, Jhansi Road, Gwalior- (MP)

MANOJ KUMAR (SM2013-0017), Ph.D. Student, Deptt. of Plant Breeding, N.D. University of Agriculture & Technology, P.O. Kumarganj, Distt. Faizabad-224 229 (UP)

RAVINDER KUMAR (SM2013-0019), Ph.D Student, Deptt. of Plant Breeding, Institute of Agril. Sciences, Banaras Hindu University, Varanasi-221 005 (UP)

RISHI PAL (SM2013-0018), Ph.D Student, Deptt. of Plant Breeding, N.D. University of Agriculture & Technology, P.O. Kumarganj, Distt. Faizabad-224 229 (UP)

SUNIL KUMAR JATAV (SM2013-0020) Ph.D. Scholar, C/o Kashi Ram Goyal, Dev Nagar, Naka Chandhrabadhni- 474009, Jhansi Road, Gwalior (MP)

SURYA KANT (SM2013-0028), M.Sc Student, Deptt. of Plant Breeding, CCS Haryana Agricultural University, Hisar-125 004, Haryana

VAMSHIKRISHNA NUKASANI (SM2013-0022), M.sc Student, Wheat Research Unit, Dr. Punjabrao Deshmukh Krishi Vidhyapeeth, Akola- 444 104, Maharashtra

VEENTI RANA (SM2013-0026), Ph.D. Scholar, Directorate of Wheat Research Karnal-132 001, Haryana; *Email: vintirana16@gmail.com; Mobile: 7206112942*

VIPIN PANWAR (SM2013-0029), Ph.D. Scholar, Directorate of Wheat Research, Karnal-132 001, Haryana; *Email: Panwar_vipin2008@rediffmail.com; Mobile: 8053194144*

VIREN RAKABARI (SM2013-0021), Ph.D Student, Deptt of Plant Breeding and Genetics, Anand Agricultural University Anand 38 8110, Gujarat

Account Statement of Society for Advancement of Wheat Research, Karnal

Receipt and Payment for the Year ended 31.03.2013

Receipt	Amount	Payment	Amount
To opening balance			
Cash & bank balance	12,814.00		
To annual membership fee	12,300.00		
To Life membership fee	78,800.00	By closing balance	
To student membership fee	3,200.00	Cash in hand	3,700.00
To interest received	2,315.00	PNB Bank A/c	105,729.00
	109,429.00		109,429.00
For		Compiled as per book produce before us for verification	
Society for Advancement of Wheat Research, DWR, Karnal		-Sd-	
Place: Karnal		For: SP Lather & Co.	
Date: 16.07.2013		SP Lather FCA(Partner)	

Receipt and Payment for the Year ended 31.03.2014

Receipt	Amount	Payment	Amount
To opening balance			
Cash in hand 3,700.00		By refreshment	600.00
Bank balance 105,729.00	109,429.00	By printing & stationery	78,114.00
		By bank charges	125.00
To annual membership fee	34,496.00		
To Life membership fee	106,700.00	By closing balance	
To student membership fee	8,400.00	Cash in hand	8,748.00
To interest received	7,178.00	PNB Bank A/c	297,316.00
To advertisement income	115,000.00		306,064.00
To associate editor	3,700.00		
	<u>384,903.00</u>		<u>384,903.00</u>
For		Compiled as per book produce before us for verification	
Society for Advancement of Wheat Research , DWR, Karnal		-Sd-	
Place: Karnal		For: SP Lather & Co.	
Date: 16.07.2013		SP Lather FCA(Partner)	

Note: The above account statements are based on Audit Report of SAWR for last two years (2013 and 2014) and complete details are available with the society treasurer.

Society for Advancement of Wheat Research
Karnal - 132 001, India

Format for Membership

Name	:
Designation	:
Affiliation	:
Date of Birth	:
Sex	:
Area of Specialization	:
Postal Address	:
Country	:
E mail	:
Phone (M)	:
Fax	:
Payment Details	:
Membership	: Life / Annual / Student
Amount Remitted	: (INR / US\$)
Mode of Payment	: NEFT / Demand Draft / Multicity cheque
Date & No. of Transaction	:

I hereby agree to follow rules and regulations of the society.

(Signature)

Membership Fee and Payment Options

	Indian	SAARC Countries	Other Countries
Annual	INR 500	US\$ 20	US\$ 50
Life	INR 3000	US\$ 100	US\$ 200
Student	INR 300	--	----
Admission Fee	INR 100	--	----

Membership fee may preferably be deposited into Society account (THROUGH NEFT ONLY) as online transfer or be sent through Demand Draft/ multicity cheque in favour of the Treasurer, Society for Advancement of Wheat Research, India payable at Karnal. The bank account details for making payment are furnished below.

Name of the account holder: **Society for Advancement of Wheat Research**
Account number: **0286000101604022**; IFSC Code: **PUNB0028600**
Bank: **Punjab National Bank, Model Town, Karnal, India**

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