DR. DEVENDRA PAL SINGH (FPSI, 1988; FSMP, 1993; FISPP, 1999)
Principal Scientist and Principal Investigator (Crop Protection Programme),
Indian Council of Agriculture Research (ICAR)-
Indian Institute of Wheat and Barley Research (IIWBR),
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Editorial Id: https://publons.com/dashboard/settings/profile/
Research gate: https://www.researchgate.net/profile/Devendra_Singh70
Academia Edu.: https://independent.academia.edu/DPSingh14/Analytics/activity/keywords

Born: 01/07.1957, Dist. Bulandshaher, Uttar Pradesh (UP)
Home: C13, Gamma I, Greater NOIDA

Education:

Level	Year of passing	Institute/ University	Subject(s) with major field	Class/ Division/ Grade
Graduation (B.Sc.)	1978	Dr. Bhimrao Ambedkar University, Agra, India	Botany, Zoology, Chemistry	Ist Div.
Masters (M.Sc.)	1980	Dr. Bhimrao Ambedkar University, Agra, India	Botany, specialization in Plant Pathology	Ist Div. with Univ. merit certificate
Doctorate (Ph.D.)	1985	Govind Ballabh Pant University of Agriculture & Technology, Pantnagar, India	Plant Pathology (Major),**Agronomy (Minor)**	Ist Div.
M.B.A.	2003	Indira Gandhi National Open University, New Delhi, India	Human Resource Management	Ist Div.
PG Diploma in HRM	1991	Indira Gandhi National Open University, New Delhi, India	HRM	Ist Div.

Service Records:

Designation	Pay Scale/ Pay Band with Grade Pay/Research Grade Pay	Major discipline of work experience	Nature of work	Organization	Institute	Place of posting	Period	
							From (DD/MM/ YYYY)	To (DD/MM/ YYYY)
Principal Scientist (Plant Pathology) and Principal Investigator (Crop protection programme)	Rs. 37,400-67,000	Research Management, Coordination, Extension	Coordinating the Crop Protection Programme of AICWBIP, Conducting research on host resistance against diseases, survey and surveillance of major diseases and pests and IPM	ICAR	ICAR-IIWBR Karnal	Karnal	22.07.2016	Contd.
Coordinator	Rs. 37,400-67,000 +FCA	Management, Coordination, Strategic Planning	Strategic Planning, Implementation of Plan, Research, Project Review, Management, Coordination, training	High Commission of India working for MOA, Government of Guyana	Guyana Rice Development Board, Rice Research Station, Burma, Guyana	George-town	09/07/2014	21/07/2016
Institutional Specialist in Agricultural Research	Rs. 37,400-67,000 +FCA	Management, Coordination, Strategic Planning, Crop Improvement	Strategic Planning, Implementation of plan, Research, Project Review, Management, Coordination, training	High Commission of India working for MOA, Government of Guyana	National Agricultural Research and Extension Institute, Mon Repos, Guyana	Mon Repos	09/07/2012	08/07/2014
Principal Scientist	Rs. 37,400-67,000	Research , Coordination, Institutional building	Associated with coordination of AICWBIP, Research on management of wheat and barley diseases, activities related to Institutional Management	ICAR	ICAR-IIWBR, Karnal	Karnal	15/05/2006	03/07/2012
Sr. Scientist	Rs. 12000-18300	Research, Coordination, Farm Management	Coordinated Barley Crop Protection Program at National level, Did Research on wheat and barley pathology, Managed IIWBR research and seed farm .**Visiting scientist at UCL Belgium**	ICAR	ICAR-IIWBR, Karnal, CIMMYT/UCL	Karnal, UCL Belgium	15/05/1998	14/05/2006
Scientist (SS)	Rs. 10,000-15,200	Research & Coordination	Associated with coordination of Plant Pathology Programme of	ICAR	ICAR-IIWBR, Karnal	Karnal	20/07/1991 &	13/02/1994 &

			Wheat and Coordinated barley pathology of AICBIP.				09/03/1998	14/05/1998
United Nations Specialist	Rs. 12000-18300 ($ 1,362)	Research, Coordination, Management, Extension, Training	Plant Breeding (Beans), Seed Production, Coordination, Training and Extension	UNDP/ FAO	Misamfu RRS, Kasama, Zambia	Kasama, Zambia	14/02/1994	08/03/1998
Scientist /Scientist (SS)	Rs. 2200-4000/-	Research, Institutional building	Did research on soybean pathology, established laboratory	ICAR	Directorate of Soybean Res. Indore	Indore	06/09/1989	16/07/1991
Scientist In charge of the Research Station	Rs. 700-1300/-	Research, Management, Extension	Re built the research station after it was burnt during Assam disturbances, managed it, conducted research and extension activities	ICAR	CRIJAF,RRS, Sorbhog, Assam	Sorbhog, Assam	15/05/1985 -	02/09/1989
Graduate Research Assistant/ Research Fellow (DAE/BARC)	Rs. 700	Research & Teaching	Investigated the cause, host pathogen relationship and integrated control of grain mold disease of sorghum. Developed technology for detection and management of seedborne infection of fungal pathogens in soybean, pearl millet and sorghum.	GBPUAT Pantnagar DAE (BARC)	GBPUAT	Pantnagar	Feb.1981-	Feb.1985

Trainings attended

Duration of training	Title of the training and name of the institution	Period	
		From (DD/ MM /YYYY)	To (DD /MM/YYYY)
10-20 days duration	"Wheat Pathology" from ICAR-IIWBR, Karnal, India	30/03/1992	10/04/1992
	"Biodiversity of microbes and invertebrates" IARI, New Delhi, India	26/10/1993	03/11/1993
	"Technology Diplomacy" CUTS, Dept of Science and Technology, Jaipur, India	04/10/2010	08/10/2010
21 to 89 days duration	"Computer uses and Dbase management" from Devi Ahilyabai Univ. Indore, M. P. India	08/04/1991	28/04/1991
	"Standardization of stem rust note taking and evaluation of germplasm with emphasis on emerging threats of yellow rust and leaf rust" CIMMYT, KARI Research Station, Njoro, Kenya	26/09/2011	07/10/2011
	"Biochemical and molecular biology advanced techniques" from CAS, Div. of Biochemistry, IARI, New Delhi, India	18/11/2008	08/12/2008
3 months or more	26th foundation course on "Agricultural Research Project Management" from National Academy of Agricultural Research Management, Hyderabad, India, Got **A** Grade.	10/08/1987	01/01/1988

Recognitions

Category of Special Attainment	Details of Special Attainment	Period
Chairman/Member-Secretary of Scientific Committees, Member Task Forces and other Policy Making Bodies etc.	Member, Institute Management Committee, ICAR-CICR, Nagpur	2009-2012
	Member, Institute Management Committee, ICAR-CIARI, Port Blair	2009-2012
	Member, Assam State Ramie Board, Dispur, Guwahati	1985-1989
Experience of working/ training in an International Organization/ Laboratory other than Post-Doctoral Fellow	As Visiting Scientist at UCL, Belgium	29/09/2001-13/11/2001
	As UN Specialist at Misamfu Regional Research Station, Kasama, in FAO/UNDP project in Zambia	14/02/1994-08/03/1998
	ITEC Expert in Agriculture in Guyana at National Agricultural Research and Extension Institute, Mon Repos	09/07/2012-08/07/2014
	ITEC Expert in Agriculture in Guyana at Rice Research Station, Guyana Rice Development Board, Georgetown	09/07/2014-03/07/2016
	As trainee in training course organized by CIMMYT at KARI Research Station, Njoro, Kenya, 26 Sep. 7th Oct. 2011	26/09/2011-07/10/2011.
President/ Secretary of Registered Professional Societies/ Chief editor of	President, Indian Phytopathological Society (NZ)	2000
	President, ARSSF, New Delhi	2011-12
	Vice President ARSSF, New Delhi	2008-2011

NAAS rated journals		
Invited for Lecture/ Chairman of a Technical Session in International Conventions, Conferences, Symposia etc. or participated as member of an International delegation	Invited lecture on toxin of spot blotch, in 4th International Wheat Tan Spot and Spot Blotch Workshop, held at Bemidji, MN, USA	21-24 July, 2002
	Invited lecture on spot blotch research in India in 4th International Wheat Tan Spot and Spot Blotch Workshop, held at Bemidji, MN, USA	21-24 July, 2002
	Invited to act as chairman of session, 5th Annual World Conference of Food and Nutrition, Kaohsiung, Taiwan	Invited to work as Chairman of session, To be held during November 18-20, 2016
	Invited as speaker, 5th Annual World Conference of Food and Nutrition, Kaohsiung, Taiwan	Invited as speaker
	Invited as Speaker, 3rd International Group Meeting (IGM) on "Wheat Productivity Enhancement under Changing Climate" Feb. 9-12, 2011 at UAS Dharwad	Invited as speaker
	Invited member, expert Working Group on management of wheat insect pests and diseases 2016, USA	Invited expert member
	Study Tour of ICAR institutes and SAUs by Zambian delegation, 1997	Team member (co0rdinator)
	Expert and lead speaker, in Brain Storming Workshop on "Status and strategies for the management of stripe (yellow) rust of wheat", 14 Dec. 2016	Invited Expert and lead speaker

Major Research Achievements
• Helped wheat breeders to create leaf rust and spot blotch resistant high yielding wheat varieties for warmer an d humid agro ecological conditions in Eastern India: Evaluated breeding material, entries of station, initial and advanced yield trials and pre coordinated yield trial (Total >2000 entries per year) in case of wheat against leaf blight from 1999-2018 crop seasons and supplied data on status of resistance of these entries to breeders and varietal identification and release purposes.
• Developed methodology and scoring scale for evaluation of wheat genotypes against spot blotch of wheat caused by *Bipolaris sorokiniana* at seedling and adult stages.
• Unveiled mechanism of host resistance against hemibiotophic fungus *Bipolaris sorokiniana* in wheat.
• Demonstrated use of Helminthosporol toxin of spot blotch fungus in pathogenesis and its use in screening of genotyopes for resistance.
• Mapped pathogens of leaf blight of wheat in six agro ecological zones. Collected and analyzed about 2200 leaf samples (1999-2018) and established *Bipolaris sorokiniana* as major pathogen. Identified 13 distinct isolates of *Bipolaris sorokiniana* and used it in screening of wheat genotypes.
• Developed integrated pest management in wheat and barley.
• Reported four new diseases of crop plants including wheat blast like disease
• Developed reliable methodology for survey and surveillance of yellow rust of wheat in north

India and wheat blast in Eastern India thus ensured healthy crop during recent years leading to no losses in yield and record wheat production (99.7 million tons)
• Identified about 600 multiple disease resistant genotypes of wheat and shared it with breeders thus helped in breeding for multiple disease resistance.
• Used biological control agents in management of wheat diseases.

Externally Funded Projects handled

Title of the project	Level of Association (PI/CoPI /Associate)	Period		Value of the project (Rs. in lacs)	Sponsoring agency
		From (DD/MM/YYYY)	To (DD/MM/YYYY)		
Integrated Crop Management/ Food Legumes (ZAM/92/003)	Co-PI	14/02/1994	08/03/1998	US$1,589,430 (equiv. Rs 1,080,81,240)	UNDP/FAO
Biotic stresses in wheat under changing climatic scenario (F2)	Co-PI	01/04/2014	31/03/2017	Rs144,34,000	ICAR Flagship
Evaluation of barley germplasm --abiotic malting quality (**2-12/2003/FF.** AP Cess Fund)	Co-PI	2004	2007	Rs.90,00,000	AP cess, ICAR
Biotic Stresses (Rusts) ICAR net work	Co-PI	2009	2011	Rs.75,65,000	ICAR/ACIAR
Phenotyping of mapping populations --spot blotch resistance in wheat. **BT/ PR/10592/AGR/02/568/2008**	Co-PI	23/09/2011	22/09/2014	Rs.70,988,00	DBT
Association Mapping for spot Blotch Resistance in Wheat	Co-PI	2012	2017	Rs.72,00,000	DBT
Pathogenic variability in *Bipolaris sorokiniana* and *Alternaria triticina* ---India. (**3-7/2001/PP.** AP Cess Fund)	PI	01/06/2002	30/11/2005	Rs. 14,23,616	AP cess, ICAR
Mutation breeding in beans (IAEA)	Co-PI	1996	1998	US$ 20,000 (Equiv. Rs 13,60,000)	IAEA
Bean Seed Multiplication (Constituency development Fund)	PI	1996	1997	ZK. 2 million	Govt. of Zambia
Survey and surveillance for wheat blast caused by *Magnaporthe oryzae* Triticum and strategic research to manage it	PI	2016	2019	102 lakhs	Extramural grant of ICAR
Characterization, race profiling and genetic analysis of wheat powdery mildew	Co-PI	2018	2021	70.63 lakh	DBT

pathogen (*Blumeria graminis* f.sp. *tritici* (DC) Speer (Syn. *Erysiphe graminis* DC f.sp. *tritici*) in India					

Personal Statement

Doctorate degree in Agriculture (Plant Pathology) along with "Master degree in Business Administration" with specialization in Human Resource Management. Possesses strong communication, liaison and organizational skills, rich international field experience in managing agricultural research projects or programs (34 years) as Senior Agriculture Researcher, Research Manager, Strategic Planner and Team leader.

Skills

- Worked in the field and managed large scale development projects with analytical and strategic thinking in sustainable crop management, Seed production, crop improvement, IPM, and issues related to food and nutritional security in Asia, Africa and South America.
- Flexible team player, proven relationship-builder with unsurpassed interpersonal and technology diplomatic skills with enough experience of working in diplomatic missions (UN, High Commission). Excels at building trusting relationships with customers and colleagues.
- Personable professional with cultural sensitivity and an ability to build rapport with a diverse workforce in multicultural settings.
- Proven skills in communication and partnership building for collaborative R &D involving multidisciplinary teams. Regular user of digital and information technology for research, documentation, and fast communication. Managed difficult situations in teams.
- Seasoned professional with proven honesty, dedication, and integrity.
- Liaison with donors, policy planners, NGOs, civil societies, and private sectors.
- Dependable, responsible contributor committed to excellence and success. Worked with gender sensitive approach.
- Special skills in human resource management including recruitment with broader scientific perspective and vision.
- Authored high quality publications.

Summary

- Performed internationally and managed projects and programmes dealing with food security and aiming to end hunger, minimize malnutrition and poverty.
- Team Leader and Coordinated Crop Protection Programmes of cereals for two decades.
- Effective team leader, station head, worked in diverse teams, independently managed research projects and coordinated multi location trials. Was associated with outreach programmes for ten years.
- Organiser of scientific meets. Liaison with different stakeholders in food chain.
- Experienced capacity builder, collaborator and proposer for donor funded projects and consultancies.

Work experience

"Principal Scientist and Principal Investigator (Crop Protection Programme)", *Indian Council of Agriculture Research (ICAR)- Indian Institute of Wheat and Barley Research, KARNAL 132001 (Haryana), INDIA*

- Coordinating multi locations and multidisciplinary research trials and nurseries of Crop Protection Programme of All India Coordinated Research Project on Wheat and Barley (AICRPWB) at national level.
- Formulating technical programmes, implementing it, monitoring the multi locations trials at 30 centres situated in six agro ecological zones, analysing results, preparing time bound reports, presenting reports in annual wheat and barley workshops and meetings.
- Identifying new technologies for different agro ecological zones and chalked out programme of work for next crop seasons.
- Leading research projects on foliar blight, wheat blast and stem rust race Ug 99 in India.
- Identifying newer wheat varieties resistant to diseases and involved in their promotion and seed production of elite lines.
- Collaborating with CIMMYT on wheat crop protection research under rice-wheat cropping system.
- Heading survey and surveillance teams in India for knowing the incidence of rusts, wheat blast and other diseases and insect pests and planning strategies for their early management using farmers, field schools and IT tools. Acting as nodal person on wheat blast in Council.
- Conducting training programmes for extension scientists and guiding PG student.

"Coordinator (Research & Extension)/ Rice Expert", *July, 2014-June, 2016, Guyana Rice Development Board (GRDB), Georgetown, Guyana, South America.*

- Coordinated activities of GRDB Rice Research Station in Guyana (research, extension and seed) in a strategic and coherent manner.
- Represented GRDB before the highest levels of government of Guyana. Liaised with relevant Ministry of Agriculture (MOA), and University of Guyana and other research institutes like NAREI.
- Developed a strategic research and development agenda (SRDA) for GRDB Rice Research Station for Research, Seed, and Extension Programs in Guyana in collaboration with MOA, coordinated in the preparation of technical work plans. Identified program support opportunities government of Guyana, bilateral programs of Guyana with other rice growing countries, and other public entities.
- Advised for implementation of strategic plan through specific work plans and projects, ensuring focus on high priorities and excellent collaboration with national partners. Repositioned the programs for enhanced coherence and synergy, and adherence to common policies and procedures.
- Reviewed "Seed system" in Guyana by conducting diagnostic surveys and interviewing rice farmers. Drafted 'National Rice Seed Policy'. Suggested mechanism for engaging and sharing of responsibilities for revamping seed system to improve seed security. Outlined guidelines to be followed in seed testing, certification, production, processing, and packing.
- Ensured coherence and synergy at the national level of all research projects, extension, and seed activities at GRDB.
- Served as an Expert on rice for GRDB in Guyana. Identified new rice production technologies. Planned and helped in implementation communication strategies for

GRDB using IT tools to effectively communicate GRDB's positions on key issues such as new varieties, new crop production technologies, rice information, policies, and other issues. Associated with extension workers dealing with training of small holder rice farmers through farmers' field school.

- In collaboration with the Extension department and Rice Producers' Association, fostered relationships underpinning the development of new partnerships with the private sector, including collaborative research programs, and commercialization of GRDB's products.
- Built and maintained excellent working relationships with civil society organizations and international and bilateral donors and organizations operating in CARICOM region.
- Managed relationships with other CGIAR and international centers and CGIAR Research Programs operating in CARICOM and LAC regions concerning in country activities and issues.
- Advised management and scientists of GRDB on new opportunities, potential partners and donors for capacity building and germplasm acquisition.
- Liaised with different stakeholders (rice farmers, processors, and marketing agencies) to diagnose constraints in rice value chain and possible solutions through influencing national policies and donor funding.
- Mentored the younger researchers, extension scientists and technicians of GRDB **(2 years).**

"Institutional Specialist in Agriculture Research", *July, 2012-July, 2014, National Agricultural Research & Extension Institute (NAREI), Mon Repos, EC Demerara (Georgetown), Guyana, (South America).*

- Prepared Strategic Research and Development Agenda (SRDA) for short medium term basis reviewed the current projects and activities and repositioned these to best cater the needs of stakeholders and proper use of resources.
- Developed "Vision 2030" of NAREI in Guyana. Worked with National Plant Protection Organization dealing with Plant Quarantine Services in Guyana for preventing the entry of the exotic pests and diseases.
- Liaised with CGIAR institutes (CIAT, CIMMYT, ICARDA, ICRISAT, AVRDC for germplasm of crops (maize, wheat, food legumes, cassava, seed spices) suitable for agro climatic conditions of Guyana.
- Identified high yielding varieties (six numbers in maize, one in hot pepper), tolerant to abiotic and biotic factors. Initiated "first coordinated crop improvement project" in Guyana on maize.
- Developed improved crop production technology for corn in Guyana. Proved indigenous corm cheaper than imported one.
- Promoted intensified corn (maize) production in Guyana to erase import for poultry feed. The contributions helped institute to use its resources up to the best possible manner, serve effectively to its clients in a time bound manner and diversify mono cropping of rice and sugarcane in Guyana.
- Mentored PG students **(2 years).**

"Principal Scientist", *March 1998-June, 2012 &* ***"Senior Scientist",*** *July, 1991-February, 1994, ICAR-Indian Institute of Wheat & Barley Research (IIWBR), Karnal, India.*

- Coordinated multi locations and multidisciplinary research trials and nurseries of All India Coordinated Research Programme on Wheat and Barley.
- Compiled and analyzed multi location, prepared time bound reports, presentations in annual wheat and barley workshops and meetings and presented results.
- Identified new technologies for different agro ecological zones and chalked out programme of work for next crop seasons.
- Team leader of team for monitoring of wheat and barley programs situated in different state universities and research institutes. Led the 'Monitoring and Evaluation' unit of IIWBR research projects.
- Associated with development, release, and registration of plant varieties (6 Nos.) and resistant stocks (10 Nos.) In wheat and barley. Member, Variety Identification Committee of Barley and Wheat in India. Developed technology for successful wheat production in warm and humid climate of Eastern and far Eastern India.
- Worked in interdisciplinary projects in breeding, crop protection, seed production and resource management projects including conservation agriculture (CA) under rice-wheat (R-W) cropping system. Evaluated change in soil and rhizosphere microbial population under CA than normal tillage and their effect on crop health.
- Trained extension and seed production workers and farmers on IPM and guided PG students.
- Worked as visiting scientist at UCL, Belgium, INSA visiting fellow at NARC Kathmandu, Nepal, lead speaker during International Tan and spot blotch workshop at Bemidji, Minnesota, USA and attended training course on stem rust scoring ay CIMMYT Kenya. Involved in planning of CSISA Project with CIMMYT.
- Managed Research and seed production farm, estate, security, and landscape units of institute. Member, Institute Management Committee (two institutes).
- Organised National conferences, workshops, International Group meetings and training programs (**16 years, 11 months**).

"United Nations (V) Specialist/Plant Breeder (Beans)", *February, 1994-February, 1998, Integrated Crop Management/ Food Legumes Project, UNDP/FAO/MAFF at Misamfu RRC Kasama, Zambia.*

- Developed new high yielding bean varieties tolerant to high acid soils (pH 3.5) and with self nodulating character aiming to discourage slash and burn (shifting cultivation) by small scale farmers in northern Zambia. Collaborated with IAEA for using mutation breeding in beans.
- Developed technology for advancing generations of breeding material and seed multiplication at farmers' fields during off season under irrigation fast development of varieties.
- Used farmers' participatory approach for technology dissemination, variety selection and seed production in beans.
- Associated in the international co-operation with CIAT, SADC, IAEA and conducted the regional trials of CIAT on breeding and disease screening. Proposed new projects to donors
- Monitored multi location trials of food legumes. Analyzed multi location data, prepared reports, reported results in scientific meets and journals.
- Imparted training to the extension personals of the MAFF, Govt. of Zambia for carrying out the research work on long term basis and seed production of food legumes.

- ❖ Associated in conduct of the breeding trials of soybean and groundnut. Introduced and assisted farmers in cultivation of 'Paprika' on volunteer basis.
- ❖ Performed successfully in a team of scientists of FAO, UNDP, SNV, and GRZ (**4 years).**

"Scientist (Sr. Scale)", *September, 1989 - July, 1991, ICAR-Directorate for Soybean Research, Indore, Madhya Pradesh, India.*

- ❖ Developed technologies for integrated disease management and healthy seed production in soybean. Investigated the etiology of newly emerging disease problems (Bud blight) in soybean.
- ❖ Identified most compatible strain of *Bradyrhizobium japonicum* for a range of varieties in heavy black soils.
- ❖ Led establishment of new laboratory facilities of newly created research centre.
- ❖ Capacity builder on the soybean production technology (**1 year 9 months).**

"Scientist -in-Charge", *May, 1985 – September, 1989, ICAR-Ramie Research Station, Central Research Institute for Jute and Allied Fibres, Sorbhog, Assam, India*

- ❖ Managed research station resources (financial, human, farm, lab), created infrastructure and developed strategic plan for research and development.
- ❖ Supervised seed (rhizome) production and distribution of high yielding ramie varieties. Trained farmers on crop and rhizome production technologies. Collaborated with State Ramie Board, Rural Development department and CASA (A Baptist church service wing) for ramie production.
- ❖ Promoted linkages between producers (farmers, NGOs) and users of ramie fibres (textile mills).
- ❖ Developed improved technology for ramie production.
- ❖ Conducted coordinated trials of jute and mesta (**4 years 4 months).**

"Research Fellow" *(Department of Atomic Energy)***,** *March, 1984 – February, 1985,* "***Graduate Research Assistant",*** *March, 1981 – February, 1984, Seedborne Diseases project, GBPUA & T Pantnagar, India*

- ❖ Investigated the cause, host pathogen relationship and integrated control of grain mold disease of sorghum. Developed technology for detection and management of seedborne infection of fungal pathogens in soybean, pearl millet and sorghum.
- ❖ Associated in teaching of undergraduate students in Plant Pathology (**4 years).**

Publications: Research papers-115, Thesis-1, Reviews-5, Book chapters-28, Books-4, Research abstracts-102, Popular articles-70, Research bulletin-2, Compendium-1, Technical reports-52, Trainings-39.

Awards, Honours, Recognitions: Best Institute and Best All India Coordinated Research Programme (ICAR-India) as part of team, Outstanding Scientist, and Best Researcher awards (Self), Best Research Team Award (part of team), Best paper awards (Senior author), K.C. Mehta and Manoranjan Mitra memorial Award of Indian Phytopathological Society, Best Researcher award (Education expo TV , 2018), Fellowship awards of Indian Phytopathological society, Society of Mycology and Plant Pathology and Society of Plant Pathologists (self), Scroll of Honor (Indian Phytopathological Society), Dr. R. Prasada Memorial award lecture, Nov. 2018, Member, IMC, CICR Nagpur (2010-13), & CIARI, Port Blair, (2009-12)**,** Outstanding Scientist

award, IJTA, 3rd Intl Conference on Agriculture, Horticulture and Plant Sciences, June, 2016, Member, Varietal Identification Committee, 55th All India Wheat and Barley Workers' meet (2016), Invited to Chair sessions in 6th Annual World Congress on Food and Nutrition (WCFN 2017) at Shenyang, China and 6th Annual World Congress on Microbes, Nanjing, China, 2016, Certificate of Recognition, IIWBR Karnal 2011, Award for debate in Hindi at IIWBR Karnal, 2016, Award of Honour, IPS, Gold Medal for best paper presented in the symposium of Association for advancement in Plant Protection, 2009, Kalyani, INSA award for bilateral exchange of scientists programme in Nepal, from 6-19 July, 2011, Coordinator, Winter School on "Integrated Pest Management in Wheat Based Cropping Systems" at IIWBR Karnal, 2008, Vice President (2009-11) and President (2011-12) of CEC, ARSSF, New Delhi, Reviewer Excellence Award, 2016 from ARCC Karnal, Leading scientist of the world, International Biographical entre, Cambridge, England, 2013, Team Awards for release of wheat varieties (Seven Nos.), Deputed by ICAR/DARE to MEA, High Commission of India, Georgetown, Guyana (South America) as ITEC Expert (07/2012-07/2016), Food and Nutrition Community award, National workshop on 'Knowledge management for North East' organized by FAO/NERAMAC/ NEC at Shillong, 15-17 March, 2010, Invited as Speaker, 3rd International Group Meeting (IGM) on "Wheat Productivity Enhancement under Changing Climate" Feb. 9-12, 2011 at UAS Dharwad, Member Expert Working Group, "Wheat Initiative on control of wheat insect pests and pathogens" meet on 4th Nov. 2016 at Minneapolis, USA, Certificates for Identifying and registration of leaf blight resistance genetic stocks in wheat: DBW 46 (INGR 11010), DBW 51 (INGR 110011), Powdery mildew: VL 824 **(**INGR No. 07002), Barley genetic stocks, Leaf blight: DWR 44 (INGR 04090), Yellow rust: DWR 47 (INGR04091), Course Director, 2015 Training course on "Mentoring of Young Professionals", Rice Research Station, Burma, Guyana.

Editorial Experience: Remained in editorial board of 10 national and international journals. Reviewer of American Phytopathological Society Journals, IPS, ISMPP, INSOPP, Indian J. Agric. Sci. ARCC journals, Phytoparasitica, Archives of Agronomy and Soil Science, Indian J Microbiol., Journal of Wheat and Barley Research, International Journal of Pest Management, The Plant Pathology Journal etc.

Teaching etc: Experienced trainer and guide PG students. Worked as expert in selection and assessment at ARSB, SAUs and traditional universities.

Expert: Wheat Initiatives, DBT, IAEA

Languages: English, Hindi (Fluent), French, Spanish, Urdu, Assamese, Bangla, Nepali (some)

Professional visits: Zambia, Guyana, Malawi, Kenya, Belgium, Germany, Nepal, Suriname, Morocco and USA.

References

- Dr. J.S. Sandhu, Vice Chancellor, NDUAT Kumarganj, Faizabad, U. P. India, E mail: js_sandhuin@yahoo.com, +919582898978
- Dr. S. K. Malhotra, Agriculture Commissioner, DAC &FW, Krishi Bhavan, New Delhi 110001, India, agricommissiner@gmail.com, +919968978191, +911123383549

- H.E. Mr. V. Mahaligam, High Commissioner of India, 307, Church & Peter Rose Streets, Queenstown, Georgetown, Guyana, vmahalingamifs@yahoo.com , +592-2277573

List of Publications of Dr. D. P. Singh ICAR-IIWBR Karnal

A. RESEARCH PAPERS

1. Singh, D.P. and Agarwal, V.K. 1984. Effect of different levels of purple stain infection on viability and germination of soybean seed. *Seed Research*, 12: 44-46.
2. Singh, D.P. and Agarwal, V.K. 1986. A note on the control of *Fusarium moniliforme* associated with pearl millet seeds. *Indian Phytopathology*, 39: 278-279.
3. Singh, D.P. and Agarwal, V. K. 1986. Effect of culture filtrates of grain mold pathogens on germination of sorghum seed. *Bangladesh Journal of Botany*, 15: 101-104.
4. Singh, D.P. and Agarwal, V.K. 1986. Interaction between grain mold pathogens of sorghum. *Indian Journal of Plant Pathology*, 4: 101-104.
5. Singh, D.P. and Agarwal, V.K. 1986. Purple stain of soybean and seed viability. *Seed Research*, 14: 16.
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B. THESIS

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C. BOOKS

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J. TRAININGS IMPARTED TO SUBJECT MATTER SPECIALISTS/EXTENSION WORKERS

1. Singh, D.P. 1990. *Seedborne diseases of soybean*. Subject Matter Workshop cum Seminar on Production Technologies of Soybean. held at NRC Soybean, Indore, Sep. 11-18, 1990.
2. Singh, D.P. 1991. *Soybean Ke Rog Vay Unake Niyantrana (Hindi*). Kharif Podh Sanrakchhan Takniki Prashikchhan, held at JNKVV, Indore, July, 16-19, 1991.
3. Singh, D.P. 1993. *Diseases of Wheat and their Management*. Training of Haryana State Extension Workers, Dept. of Agriculture, Karnal. June 93.
4. Singh, D.P. 1995. *Breeding techniques and methods for evaluation of varieties in field in beans*. Training given to Agricultural Supervisors at MisamfuRRC , Kasama. Aug. 1995.
5. Singh, D. P. 1999. "*Plant protection appliances and their proper use*". Paper presented in training on "IPM in wheat with special emphasis on field diagnosis" held w.e.f. 28-30 Jan. 99.
6. Singh, D. P. 1999. *Our understanding of wheat blights.* Lecture given during the Second Advanced Course on "*Wheat Pathology, Genetics and Breeding for resistance*" at DWR RS, Flowerdale, Shimla, 4-7 Oct., 1999.
7. Singh, D. P. 2000. *Diseases identification, causes and their management*. Special training programme on '*Wheat Production Technology in NW India'* at DWR, Karnal 7 March, 2000.
8. Singh, D. P. 2000. Seed health in wheat and barley. Lecture given to the Trainees of "*Seed Production Technology Training"* held at DWR in April, 2000.
9. Singh, D. P. 2002. Creation of disease epiphytotics and recording of leaf blight, powdery mildew, smuts, head scab and foot rot in wheat. Lecture given in Orientation course on "*Field Techniques, resistance, evaluation and data recording in wheat"* held at DWR, Karnal from 7-8th March, 2002.
10. Singh, D. P. 2003. Leaf blight of wheat: importance, distribution and resistance evaluation under field and controlled conditions. Lecture given during the "Orientation course on Procedures and Techniques in Crop Protection in Wheat " from Feb. 2-5, 2003 at DWR, Karnal.
11. Singh, D. P. 2003. Approaches for evaluation of breeding material against major diseases in warm and humid regions. Lecture given in training programme on "Wheat Breeding Approaches for Eastern and Warmer Regions of India" 6-7th March, 2003 at DWR, Karnal.
12. Singh, D. P. 2004. Resistance to foliar blights in wheat and barley. Paper for training programme on "Disease resistance in field and horticultural crops- Key to sustainable agriculture" to be held at Pantnagar from 10-30th Dec. 2004.
13. Singh, D. P. 2006. Seedborne diseases of wheat and management of Karnal bunt though chemical means with special emphasis on seed crop. Lecture given in Model Training on "Production of Karnal bunt free wheat for export" held at DWR, Karnal from 17-24 Jan. 2006.
14. Singh, D. P. 2007. Leaf blight of wheat:importance, distribution and resistance evaluation under field and controlled conditions. Lecture given in training course on "Techniques in Crop Protection and Data Generation in Wheat and Barley", 28Feb. - 2nd March,, 2007 at DWR, Karnal.
15. Singh, D. P. 2007. Diseases of barley and evaluation for resistance. Lecture given in training course on "Techniques in Crop Protection and Data Generation in Wheat and Barley", 28 Feb. -2nd March, 2007 at DWR, Karnal.
16. Singh, D. P. 2007. Gehoon Ki Phasal Avam Beejon Mai Rogon Ka Nidan Avam Niyantran. Leacture delivered in Farmers' Training on "Beej Phasalon Mai Akikrit Rog Prabhandhan" (In Hindi), 7-9 Feb. 2007, IARI, Regional Station, Karnal.
17. Singh, D. P. 2007. Plant nutrition in relation to management of diseases in wheat. Lecture given in training on "Role of Mineral Nutrients and Innovative Eco-Friendly Measures in Crop Disease Management", 22 March -11April, 2007 at Centre of Advanced Studies in Plant Pathology, GBPUAT, Pantnagar.
18. Singh, D. P. 2007. Management of diseases in wheat through deployment of high yielding, nutrient responsive and resistant varieties in India-a success story. Lecture given in training on "Role of Mineral Nutrients and Innovative Eco-Friendly Measures in Crop Disease Management", 22 March -11 April, 2007 at Centre of Advanced Studies in Plant Pathology, GBPUAT, Pantnagar.

19. Singh, D. P. 2008. Diseases problems in wheat and management strategies. Lecture given in winter school on "IPM in wheat based cropping system" 5-25th Feb. 2008 at DWR, Karnal
20. Singh, D. P. 2008. Mineral nutrition in relation to management of plant diseases. Lecture given in winter school on "IPM in wheat based cropping system" 5-25th Feb. 2008 at DWR, Karnal.
21. Singh, D. P. 2008. Management of leaf blight in rice wheat cropping system. Lecture given in winter school on "Advances in genetic enhancement and resource conservation technologies for enhanced productivity, sustainability and profitability in rice-wheat cropping system" 10-30th Jan. 2008 at DWR, Karnal.
22. Singh, D. P. 2010. Evaluation for foliar blight, loose smut, flag smut and powdery mildew in wheat. Lecture delivered in the Hands on training on "Techniques and procedures in wheat crop protection for field evaluation of host resistance" 18-19th March, 2010 at DWR Karnal.
23. Singh, D. P. 2011. Guidelines for production of disease free seed in wheat. Lecture given in Training programme on seed entrepreneurship development in wheat, 25-26 Feb. 2011 at DWR Karnal,
24. Singh, D. P. 2012. Training on yellow rust management in wheat. Directorate of Extension, SKUAT, Jammu. 10th Jan. 2012.
25. Singh, D. P. 2011. Lecture delivered in "Hand on training in Biotechnology" held at Institute of Agri biotechnology, SVBPUA&T Meerut on 6th June, 2012.
26. Singh, D. P. 2012. Wheat diseases with special focus on stripe rust management, DWR Karnal, 11th Jan. 2012.
27. Singh, D. P. 2012. Improved Crop production and Protection Technology in wheat. Lecture delivered during National level Seminar at NHRDF, Saralu (Karnal), 24th Jan. 2012.
28. Singh, D. P. and Saharan, M. S. 2012. Healthy seed production in wheat. Lecture delivered in Training on wheat seed production of IFFDC staff, DWR Karnal, 28th Feb. 2012.
29. Singh, D. P. 2014. Coordinated research project concept- a way forward for faster progress in crop production targets in Guyana. Presented in 'National seminar' held at NAREI on 11th April, 2014.
30. Singh, 2015. Strategies and technological interventions for increasing rice production in Guyana for next five years. Presented in the GRDB management retreat on 19 March 2015 at Grand Coastal Hotel, Georgetown, Guyana.
31. Singh, D. P. 2015. Research Project Formulation, Monitoring and Evaluation of Agricultural Scientists. Presented in training programme for young professional at RRS Burma, Guyana, Dec.-April, 2015.
32. Singh, D. P. 2015. Coordinated research programme concept and its relevance for faster crop improvement. Presented in training programme for young professional at RRS Burma, Guyana, Dec.-April, 2015.
33. Singh, D. P. 2015.How to present experimental results. Presented in training programme for young professional at RRS Burma, Guyana, Dec..-April, 2015.
35. Singh, D. P. 2015. Harnessing new opportunities in rice improvement. Presented in at Suriname Rice Research Institute, ADRON, Nickerie, Suriname on 27 Oct. 2015.
36. Singh, 2016. Status and strategies for the management of stripe rust of wheat. Lead lecture given in the Brain Storming Workshop at SAMETI, SKUAST Chatha, Jammu on 14.12.2016.
37. Singh, D. P. 2017. Disease surveillance and health seed production in wheat. Lecture delivered in the training programme on Disease Surveillance and Healthy Seed Production of Wheat on 3.2.2017 at BCKVV Kalyani, West Bengal.
38. Singh, D. P. 2017. "Disease scenario in wheat and barley in India". Lecture given in skill upgradation course on "Survey and surveillance, creation of epiphytotics and uniform recording of diseases in wheat & barley", December 18-20, 2017, Crop Protection Programme, ICAR-IIWBR Karnal (Haryana)
38. Singh, D. P. 2018. Disease surveillance and healthy crop production. Lecture delivered in the train cum awareness of farmers' on "Disease Surveillance and Healthy Seed Production of Wheat" on 9.1.2018 at Bhola Paswan Shastri College of Agriculture, Purnea, Bihar.
39. Singh, D. P. 2018. Diseases of wheat in NEPZ. Presented in Farmers' awareness cum training programme on "Disease Surveillance and Adoption of New Wheat and Barley Varieties for Better Productivity & Resistance" 31 Oct. 2018 at BCKV Kalani, West Bengal.

K. BOOK REVIEWS

1. Singh, D.P. 1988. "Fungi of North - Eastern India" *Indian Journal of Mycology and Plant Pathology*, 16 (3). 201.
2. Singh, D.P. 1990. "Compendium of soybean diseases 3rd edition". *Indian Journal of Mycology and Plant Pathology,* 20 (2): 205.