

BIO-DATA

1. Name and full correspondence address:

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3. Institution:

Department of Botany, University of Rajasthan, J.L.N. Marg, Jaipur-302004

4. Date of Birth: 15-10-1983

5. Gender: Male

6. Category: OBC

7. Whether differently-abled: No

8. Academic Qualification

S. No	Degree	Year	Subject	University/Institution	% of marks
1.	B.Sc.	2004	Botany, Zoology, Chemistry	Jai Narain Vyas University, Jodhpur, Rajasthan	67%
2.	M.Sc.	2006	Botany	Jai Narain Vyas University, Jodhpur, Rajasthan	78%
3.	Ph.D.	2007-2013	Plant Stress Physiology and Molecular Biology	Jawaharlal Nehru University, New Delhi	

9. Ph.D. details

(a) Ph.D. thesis title:

Dissecting out the two-component mediated signal transduction pathway operative under salinity stress in *Oryza sativa* L.

(b) **Guide's Name:** Professor Ashwani Pareek

(c) **Institute/Organization/University:** School of Life Sciences, Jawaharlal Nehru University, New Delhi

(d) **Year of Award:** 2013

10. Work experience

S. No.	Positions Held	Name of the Institute	From	To
1.	Assistant Professor	Department of Botany, University of Rajasthan, Jaipur	6-12-2013	Till date

11. Professional Recognition/ Award/ Prize/ Certificate, Fellowship received

S. No.	Name of Award	Awarding Agency	Year
1.	Graduate Aptitude Test in Engineering (GATE, Life Sciences)	Indian Institute of Technology (IIT), India	2006 (All India Rank 59 th) 2007 (All India Rank 149 th)
2.	Junior Research Fellowship	Council of Scientific and Industrial Research, India	2007-2009
3.	Senior Research Fellowship	Council of Scientific and Industrial Research, India	2009-2012

12. Publications

https://scholar.google.co.in/citations?hl=en&user=0teFNU0AAAAJ&view_op=list_works&sortby=pubdate

S. No.	Author(s)	Title	Name of Journal	Volume	Page	Year
1.	Soni P , Gupta I, Hasthi R	<i>An evolutionary diverse STAT-like protein plays a role in stress response in rice as indicated by bioinformatics analysis</i>	Biologia	Communicated (Under review)	-	2023
2.	Soni P	<i>Abscisic acid-inducible pseudo-histidine phosphotransfer protein OsPHP3 probably regulates response to osmotic stress in rice as indicated by an in-silico analysis</i>	Plant Gene	Communicated (Under review)	-	2023
3.	Soni P	<i>Versatile role of rice multiprotein bridging factor 1 gene family in various stresses as indicated by bioinformatics data mining</i>	Rice Science	Communicated (Under review)	-	2023
4.	Sharma Y [#] , Soni P [#] , Raturi G, Mandlik R, Rachappanavar V K, Kumar M, Salvi P, Tripathi D, R Deshmukh Hasthi R [#] Equal contribution	<i>Regulation of metalloid uptake in plants by transporters and their solute specificity</i>	Environmental and Experimental Botany	14	105180	2022
5.	Roy S, Soni P	<i>Unraveling the epigenetic landscape for salt tolerance in plants</i>	International Journal of Plant Biology	13 (4)	443	2022

6.	Bishnoi A, Jangir P, Shekhawat PK, Ram H, Soni P	<i>Silicon supplementation as a promising approach to induce thermotolerance in plants: current understanding and future perspectives</i>	Journal of Soil Science and Plant Nutrition	DOI number https://doi.org/10.1007/s42729-022-00914-9	-	2022
7.	Shekhawat PK, Jangir P, Bishnoi A, Roy S, Ram H, Soni P	<i>Piriformospora indica: Harnessing its versatile potential for food and nutritional security</i>	Physiological and Molecular Plant Pathology	116	101708	2021
8.	Jangir P, Shekhawat PK, Bishnoi A, Ram H, Soni P	<i>Role of Piriformospora indica in enhancing drought tolerance in crops</i>	Physiological and Molecular Plant Pathology	116	101691	2021
9.	Soni P , Shivhare R, Kaur A, Gandass N, Bansal S, Sonah H, Deshmukh R, Lata C, Hasthi R	<i>Reference gene identification for gene expression analysis in rice under different metal stress</i>	Journal of Biotechnology	332	83-93	2021
10.	Ram H [#] , Soni P [#] , Kaur A, Sharma A, Gandass N, Sharma TR [#] Equal contribution	<i>Insertional mutagenesis approaches and their use in rice for functional genomics</i>	Plants	8	310	2019
11.	Sharan A [#] , Soni P [#] , Nongpiur RC, Sneha Singla- Pareek SL, Pareek A [#] Equal contribution	<i>Mapping the 'Two-component system' network in rice</i>	Scientific Reports	7(1)	9287	2017

12.	Singh A, Kushwaha HR, Soni P , Gupta H, Singla-Pareek SL, Pareek A	<i>Tissue specific and abiotic stress regulated transcription of histidine kinases in plants is also influenced by diurnal rhythm</i>	Frontiers in Plant Science	6(711)	1	2015
13.	Soda N, Kushwaha HR, Soni P , Singla-Pareek SL, Pareek A	<i>A suite of new genes defining salinity stress tolerance in seedlings of contrasting rice genotypes</i>	Functional & Integrative Genomics	13	351	2013
14.	Soni P , Kumar G, Soda N, Singla-Pareek SL, Pareek A	<i>Salt Overly Sensitive pathway members are influenced by diurnal rhythm in rice</i>	Plant Signaling & Behavior	8(7)	e247 38-1	2013
15.	Nongpiur R, Soni P , Karan R, Singla-Pareek SL, Pareek A	<i>Histidine kinases in plants: cross-talk between hormone and stress responses</i>	Plant Signaling & Behavior	7(10)	1230	2012

13. Books/Reports/Chapters/General articles etc.

S. No.	Chapter Title/ Book/ Editors	Author's Name	Publisher	Year of Publication
1.	Genome editing for nutritional improvement of crops Book: Applications of genome engineering in plants Editor: SK Upadhyay	Shekhawat PK, Soni P	Wiley	2023 (Under preparation)
2.	Genome editing for raising crops for arid lands: a perspective of increasing stress tolerance Book: Applications of genome engineering in plants Editor: SK Upadhyay	Bishnoi A, Jangir P, Soni P	Wiley	2023 (Under preparation)
3.	Gene editing for improvement of rice: current progress and future perspectives Book: Gene editing in plants: CRISPR-Cas and its applications Editors: Ashwani Kumar, Sudipti Arora, Shinjiro Ogita, Yuan-Yeu Yau, Krishnendu Mukherjee	Soni P	Springer Science and Business Media, New York	2023 (Under preparation)
4.	Adaptation of millets to arid land: a special perspective of transcription factors Book: Plants transcription factors: Contribution in development, metabolism and environmental stress Editors: Santosh Upadhyay, Vikas Srivastava, Sonal Mishra, Shakti Mehrotra ISBN: 9780323906135	Bishnoi A, Jangir P, Soni P	Elsevier	2022
5.	The regulatory circuit of iron homeostasis in rice: a tale of transcription factors Book: Plants transcription factors: Contribution in development, metabolism and environmental stress Editors: Santosh Upadhyay, Vikas Srivastava, Sonal Mishra, Shakti Mehrotra ISBN: 9780323906135	Shekhawat PK, Soni P	Elsevier	2022
6.	Sustainable crop production: Beneficial role of silicon and <i>Serendipita indica</i> under abiotic stresses Book: New Horizons in Life Science Editors: Neerja Shrivastava and Rishikesh Meena	Jangir P, Soni P	Vital biotech publication	2022

	ISBN: 978-93-92953-00-2			
7.	Application of silicon and <i>Serendipita indica</i> in Improvement of nutritional quality and yield of crops Editors: Neerja Shrivastava and Rishikesh Meena ISBN: 978-93-92953-00-2	Shekhawat, Meena R, Soni P	Vital biotech publication	2022
8.	Genome engineering for improving abiotic stress tolerance in rice Book: Genome Engineering for Crop Improvement Editor: Santosh Kumar Upadhyay Print ISBN:9781119672364	Roy S, Kushwaha NK, Ram H, Soni P	John Wiley & Sons, Inc., Hoboken, New Jersey	2021
9.	Genome editing for biofortification in rice: current implications and future applications Book: Genome Engineering for Crop Improvement Editor: Santosh Kumar Upadhyay Print ISBN:9781119672364	Roy S, Soni P	John Wiley & Sons, Inc., Hoboken, New Jersey	2021
10.	Lichen as nature's basket full of bioactive compounds Book: New and Future Developments in Microbial Biotechnology and Bioengineering Editors: Joginder Singh, Praveen Gehlot Print ISBN: 9780444635075	Roy S, Soni P	Elsevier	2020
11.	Understanding the mechanism of drought tolerance in pearl millet Book: Plant Stress Biology: Progress and Prospects of Genetic Engineering Editor: Arindam Kuila ISBN: 9781771889254	Soni P	CRC Press	2020
12.	Stomatal Adaptive Response in Plants under Drought Stress Book: Plant Stress Biology: Progress and Prospects of Genetic Engineering Editor: Arindam Kuila ISBN: 9781771889254	Ram H, Kaur A, Gandass N, Katoch M, Roy S, Kushwaha NK, Soni P	CRC Press	2020
13.	Molecular approaches for engineering virus-resistant plants Book: Plant Stress Biology: Progress and Prospects of Genetic Engineering Editor: Arindam Kuila ISBN: 9781771889254	Kushwaha NK, Roy S, Mansi, Ram H, Soni P	CRC Press	2020

14.	Understanding the epigenetic regulation of stress tolerance in plants and potential application in agriculture Book: Plant Stress Biology: Progress and Prospects of Genetic Engineering Editor: Arindam Kuila ISBN: 9781771889254	Roy S, Kushwaha NK, Ram H, Soni P	CRC Press	2020
15.	Towards understanding abiotic stress signaling in plants: convergence of genomics, transcriptomics, proteomics and metabolomics approaches B Book: Functional Genomics Perspectives, Volume 1 Editor: Girdhar K. Pandey ISBN: 978-1-4939-2211-6	Soni P , Nutan KK, Soda N, Nongpiur RC, Roy S, Singla-Pareek SL, Pareek A	Springer Science and Business Media, New York	2015
16.	Understanding stress-responsive mechanisms in plants: an overview of transcriptomics and proteomics approaches Book: Improving Crop Resistance to Abiotic Stress Editor(s): Narendra Tuteja, Sarvajeet Singh Gill, Antonio F. Tiburcio, Renu Tuteja Print ISBN:9783527328406	Naser AA, Gill SS, Ahmad I, Tuteja N, Soni P , Pareek A, Umar S, Iqbal M, Pacheco M, Duarte AC, Pereira E	Wiley-Blackwell, Verlag, Germany	2012

14.Detail of patents: N/A

15.Any other Information:

Details of Research Projects Completed:

S. No.	Title of project	Funding Agency	Year of sanction	Year of completion	Funds received (in Lacs)
1.	“Root-specific expression profiling of ‘Saltol’ QTL localized cell-wall biosynthesis genes in seedlings of contrasting rice genotypes in response to salinity stress”	UGC (UGC FRPS Start-Up grant)	2015	2017	6

Contribution to the development of self-learning material on the subject of Botany for M.Sc. Students of the distance education system of Vardhaman Mahaveer Open University, Kota:

S. No.	Chapter Title	Author's Name	Name and ISBN No of Book	Year of Publication
1.	Introduction to Plant Development and Seed Germination & Growth	Soni P	Biosystematics of Angiosperms, Plant Development and Reproduction ISBN: 978-81-8496-610-7	2016
2.	Structure and Development of Female Gametophyte	Soni P	Biosystematics of Angiosperms, Plant Development and Reproduction ISBN: 978-81-8496-610-7	2016
3.	Seed Development and Fruit Growth	Soni P	Biosystematics of Angiosperms, Plant Development and Reproduction ISBN: 978-81-8496-610-7	2016
4.	Ovules, Embryo sac, Endosperm and Embryo	Soni P	Practical Botany-II ISBN: 978-81-8496-614-5	2016