

Brief Bio-data



Name	:	Dr. Som Dutt
Designation	:	Principal Scientist
Division	:	Crop Physiology, Biochemistry and Post-Harvest Technology Division
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Education: (Ph.D / M.Sc./Graduation)

S.No.	Institution/ University	Degree Awarded	Year	Discipline/ Subject
1	Indian Agricultural Research Institute, New Delhi, India- 110012	Ph. D. (Plant Biochemistry)	2003	Plant Biochemistry , Molecular Biology & Biotechnology, Genetics
2	Indian Agricultural Research Institute, New Delhi, India- 110012	M. Sc. (Plant Biochemistry)	1998	Plant Biochemistry , Molecular Biology & Biotechnology.
3	Dr. Y.S. Parmar University of Horticulture and Forestry, Nauri, Solan (H.P.)	B.Sc (Horticulture)	1996	Horticulture

Position and Employment (Starting with the most recent employment)

S. No.	Institution Place	Position/ Designation	Department/ Division	From (date)	To (date)
1	ICAR-Central Potato Research Institute (ICAR-CPRI), Shimla 171001	Principal Scientist	Crop Physiology, Biochemistry and Post-Harvest Technology Division	31.5.2017	Till date
2	ICAR-Central Potato Research Institute (ICAR-CPRI), Shimla 171001	Senior Scientist	Crop Physiology, Biochemistry and Post-Harvest Technology Division	31.5.2014	30.5.2017
3	CSIR-Institute of Himalayan Bioresource Technology, Palampur-176 061 (HP)	Senior Scientist	Biotechnology Division (Plant Molecular Biology)	28.06.2010	30.5.2014
4	CSIR-Institute of Himalayan Bioresource Technology, Palampur-176 061 (HP)	Scientist- IV (2)	Biotechnology Division (Plant Molecular Biology)	28.06.2006	28.06.2010
5	CSIR-Institute of Himalayan Bioresource Technology, Palampur-176 061 (HP)	Scientist- IV (1)	Biotechnology Division (Plant Molecular Biology)	28.06.2002	28.06.2006

Major Area of Research:

➤	Plant Developmental Biology and Biofortification
➤	Genome Editing, Plant Molecular Biology and Biotechnology
➤	Nutritional Biology and Post-harvest Management of Potato

List of 3-5 Best Research Papers

- Som Dutt, Kalpana Devi, Mamta Chauhan, Pinky Raigond, Dharmendra Kumar, Milan Kumar Lal, Arvind Kumar Jaiswal, Bandana, Devendra Kumar, Satish Kumar Luthra, Dinesh Kumar, Brajesh Singh (2023) Analysis of carotenoids metabolism genes landscape in potato and cloning of zeaxanthin epoxidase gene". *Potato Journal*, 50 (2): 132-148.
- Pinky Raigond, Pooja Bhardwaj, Baswaraj Raigond, Vandana Parmar, Som Dutt, Brajesh Singh, Unveiling the presence of insulin-like antidiabetic proteins in potato: A wholesome food, *Biocatalysis and Agricultural Biotechnology*, Volume 58, 2024, 103177.
- Chauhan M, Dutt S, Manjul AS, Singh B, Vijay Kumar Garlapati VK (2022). A sustainable approach of turning potato waste towards bioethanol production using indigenous microbes of Himachal Pradesh, India. *Chemosphere* 299: 134429. doi.org/10.1016/j.Chemosphere. 2022.134429.
- Pinky Raigond, Bhawana Kaundal, Ankita Sood, Shikha Devi, Som Dutt, Brajesh Singh, Quantification of biguanide and related compounds (anti-diabetic) in vegetables and fruits. *Journal of Food Composition and Analysis*, Volume 74, 2018, Pages 82-88, ISSN 0889-1575, <https://doi.org/10.1016/j.jfca.2018.09.001>.
- Ludidi NN, Pellny TK, Kiddle G, Dutilleul C, Groten K, VAN Heerden PD, Dutt S, Powers SJ, Römer P, Foyer CH. Genetic variation in pea (*Pisum sativum* L.) demonstrates the importance of root but not shoot C/N ratios in the control of plant morphology and reveals a unique relationship between shoot length and nodulation intensity. *Plant Cell Environ.* 2007 Oct;30(10):1256-68.
- Kasana RC, Salwan R, Dhar H, Dutt S, Gulati A. A rapid and easy method for the detection of microbial cellulases on agar plates using gram's iodine. *Curr Microbiol.* 2008 Nov;57(5):503-7. doi: 10.1007/s00284-008-9276-8.
- Gangola MP, Parkash J, Ahuja PS, Dutt S. Components of antioxidant system of *Picrorhiza kurrooa* exhibit different spatio-temporal behavior. *Mol Biol Rep.* 2013 Dec;40(12):6593-603. doi: 10.1007/s11033-013-2772-3.
- Parkash J, Kashyap S, Kalita PJ, Devi M, Ahuja PS, Dutt S. Differential proteomics of *Picrorhiza kurrooa* Royle ex Benth. in response to dark stress. *Mol Biol Rep.* 2014 Sep;41(9):6051-62. doi: 10.1007/s11033-014-3482-1.