



1. **Name** : Sukhwinder Singh

2. **Designation** : Scientist-SG

3. **Contact details**

Address : Central Potato Research Station,
P. Bag No. 1, Model Town P.O.,
Jalandhar- Punjab

Phone no : 0181-2791474

Mobil no : 91-98144-77896

Fax no : 01821-2790863

Email ID : ss.cpri@gmail.com

4. **Academic background**

Degree	Year	Name of University
B. Tech (Agri. Engg.)	1988	Punjab Agricultural University

5. **Area of research** : Potato mechanization, potato seed production through aeroponics, hydroponics and soilless cultivation

6. **Current institute projects**

I. Resource optimization in potato based cropping system.

7. **Externally funded project**

I. Development of solar operated semi active hydroponic system for production of potato minitubers - Extramural funding by ICAR

- II. Development of aeroponic system for orchids - Collaborative project with NRC Orchids

8. Awards/honors

S. No.	Award/honors
1.	Best paper award by India Potato Association for paper entitled "Development and testing of a wide row ridger, inter row cultivator and digger for nucleus seed potato production" published in Potato J. (2011) 38(2).
2.	Best poster award by ISAE Conventions (2015) for paper entitled "Development and evaluation of a small endless screen type potato grader for experimental plots and small farmers".

9. Publications

- I. **Singh Sukhwinder**, Parveen Kumar, Manjit Singh, Dhruv Kumar, BP Singh and SK Pandey. 2011. Development and testing of a wide row ridger, inter row cultivator and digger for nucleus seed potato production. *Potato J.* 38 (2): 155-161.
- II. **Singh, Sukhwinder**, Sanjay Rawal and Manjit Singh. 2007. Design and development of offset type digger for sugarcane + potato intercropping. *Potato Journal (formerly Journal of Indian Potato Association)*, **34** (3-4):227-230.
- III. **Singh, Sukhwinder**. 2006. Design, development and field testing of a multipurpose potato digger. *Potato Journal (formerly Journal of Indian Potato Association)*,. 33(3-4): 134-138.
- IV. **Singh, Sukhwinder**, Devender Kumar and BP Singh. 2004. Quantification of Tuber Shape in Indian Potato Cultivars. *Potato Journal (formerly Journal of Indian Potato Association)*, 31 (3-4): 205-207.
- V. Parveen Kumar, BP Singh, Rajeev Kumar, Dinesh Kumar, SV Singh, SK Pandey, **Sukhwinder Singh**. Standardization of intra-row spacing of cultivar Kufri Frysona for higher French fry grade tuber yield with good fry quality. *Potato J (formerly Journal of Indian Potato Association)* (2012) 30 (1): 88-91.

- VI. Parveen Kumar, SK Pandey, SV Singh, BP Singh, Kapur Singh, Dinesh Kumar, S Rawal and **Sukhwinder Singh**. Effect of growth duration, N application and row spacing on productivity, profitability and processing quality of potato. Potato J (formerly Journal of Indian Potato Association) (2011) 38 (2): 137-142.
- VII. Kaur Gagandeep, Dilip Kumar and **Sukhwinder Singh** (2014) Development of an embedded circuit and a prototype bucket aeroponic system for bitter gourd production. IJCST 5: 53-57.
- VIII. Kumar P, **Sukhwinder Singh**, Rajeev Kumar, Sanjay Rawal and BP Singh (2015) Effect of tuber planting depth on yield, quality and profitability of potato (*Solanum tuberosum*) processing varieties. Indian Journal of Agronomy **60** (1): 107-112
- IX. Kumar Parveen, SK Pandey, SV Singh, Dinesh Kumar, BP Singh, **Sukhwinder Singh**, S Rawal and RL Meena (2012) Influence of N and K rates on yield and quality of chipping variety Kufri Chipsona-3. Potato J 39 (2): 191-196

ii) Chapters in books

- I. **Singh, Sukhwinder**. 2008. Chapter in book, "Twenty steps towards hidden treasure- Technologies that triggered potato revolution in India" (SK Pandey and SK Charkarabarti, Eds.), pp 227-241. CPRI, Shimla.
- II. **Singh Sukhwinder** and Sunil Gulati (2014). Mechanization Solutions for Indian Potato Cultivation. In: Souvenir, National seminar on Emerging Problems of Potato, Nov 1-2, 2014, CPRI and IPA Shimla:70-76

iii) Research papers (full) published in proceedings of conferences

- I. Gulati, Sunil, & Sukhwinder Singh. 2016. Development and evaluation of a small endless screen type potato grader for experimental plots and small farmers, in proceedings of ISAE convention held at Bhubneshvar,
- II. Singh, Manjit, Sunil Gulati and Sukhwinder Singh 2008 Strategies on research in India. In the proceedings of National Conference on Farm Mechanization (NCFM-2008) Edited by S K Mandal, S Sen Sharma and G P Sinha, held at

Central Mechanical Engineering Research Institute Durgapur 26-27 February, 2008 pp 179-187

- III. **Sukhwinder Singh** and Manjit Singh. 2002. Potato ridge loosener. *In Potato, Global Research and Development-Volume II* (SM Paul Khurana, GS Shekhawat, SK Pandey and Birpal Singh, Eds.). Indian Potato Association, Shimla. 978-981.
- IV. Rawal, Sanjay, **Sukhwinder Singh**, RC Sharma, SS Lal and Parveen Kumar. 2002 Sugarcane +Potato intercropping in North Central plain zone. *In Potato, Global Research and Development-Volume II* (SM Paul Khurana, GS Shekhawat, SK Pandey and Birpal Singh, Eds.). Indian Potato Association, Shimla. 970-973.

iv) Technical/extension bulletins

- I. Singh, Manjit, Sunil Gulati and **Sukhwinder Singh**. 2008. Farm equipment and machines for potato production. Technical Bulletin no. 93. CPRI, Shimla

10. Professional affiliations

- I. Life member of Indian Potato Association.
- II. Member of Indian Society of Agricultural Engineers.

11. Foreign Exposure

- I. Attended two day interaction programme with CIP scientist in 2010 at Chinese Academy of Agriculture, Chengdu, China.