



1. **Name** : Dr (Mrs) RATNA PREETI KAUR

2. **Designation** : Scientist

3. **Contact Details:**

Address (O) : **ICAR-Central Potato Research Station,**
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4. Academic Background:

Degree	Year	Name of University/Board
Genetics and Plant Breeding	2008	G.B. Pant University of Agriculture and Technology
Genetics and Plant Breeding	2004	G.B. Pant University of Agriculture and Technology
Botany, Zoology, Chemistry	2002	HNB Garhwal University, Srinagar

5. **Area of Research:** Potato Breeding, Tissue culture, Pollen Cryopreservation

6. Current Institute Projects:

- i. Co-PI in Management and enhancement of potato germplasm (HORTCPRICIL201500100129)
- ii. Co-PI in Breeding to evolve trait specific varieties for productivity, quality and resistance to biotic and abiotic stresses (HORTCPRICIL201500200130)
- iii. Co-PI in Post-harvest Management and Nutritional enhancement of potatoes (HORTCPRICIL201500800136)
- iv. Co-PI in Resource optimization in potato based cropping system (HORTCPRICIL201500900137)
- v. Co-PI in Genetic enhancement of potato through molecular and genomic tools (HORTCPRICIL201500300131)

7. Externally funded Projects:

- i. Co-PI in Central sector scheme for protection of plant varieties and farmer's rights

8. Award's/Honours

- a. Qualified CSIR/ UGC-NET Lecturership examination thrice during Dec 2003, Jun 2004 and Dec 2004.
- b. Qualified GATE 2004 in Life Sciences with 99.14 percentile.
- c. Qualified ASRB-NET examination held during Dec 2005, April,2009.
- d. Recipient of University Merit Research Fellowship from July 2004 till completion of the Ph.D. degree.

9. Publications:

Research papers:

- i. **Ratna Preeti Kaur**, D.P. Saini and J.P. Jaiswal (2007) Genetic variability studies in wheat under timely sown irrigated conditions. *Pantnagar J. of Resh.* 6 (1): Jan-Jun 101-105.
- ii. **Kaur R.P.**, Chawla, H.S. (2014) Effect of Genotype and Explant on *Agrobacterium* mediated Genetic Transformation of Chickpea (*Cicer arietinum* L.). *Journal of Food Legumes.* 27 (1): 53-56
- iii. **Kaur R.P.**, Jaiswal, J.P. (2015) Assessment of contributions of yield contributing characters on yield in advanced breeding lines of wheat (*Triticum aestivum* L.). *The Allahabad Farmer LXX(2):* 163-166
- iv. **Kaur R.P.** (2015). Photoautotrophic micropropagation an emerging new vista in micropropagation-A review. *Agricultural Reviews* 36(3):198-207

Abstracts:

- i. **Ratna Preeti Kaur**, Vinod Kumar, Jagesh Tewari, Vinay Bahradwaj. Pollen germination: a more reliable and realistic test for pollen viability testing than pollen staining technique in potato. In National Seminar on emerging trends in potato. 1-2 Nov, 2014 at Central Potato Research Institute, Shimla: pp 161
- ii. **Kaur R. P., Arora, R. K., Venkatasalam, E. P. and Kali Ram. 2011.** Supplementary method to achieve higher micropropagation rates with vigorous potato plantlets. National Consultation on "Production of Disease Free Quality Planting Material Propagated through Tubers and Rhizomes" from March 4-5, 2011 CPRIC, Modipuram. Abstracts p 192.
- iii. **Kaur R.P.**, Chawla, H.S. and Shalini (2008) Studies on *Agrobacterium* Mediated Genetic Transformation of Chickpea (*Cicer arietinum* L.) using *cry1Ac* Gene *In: Souvenir and abstracts of The 3rd Uttrakhand State Science and Technology Congress 2008.* pp 48
- iv. **Kaur R.P.** and Chawla, H.S. (2006) Response of Carbon Source on Regeneration in Chickpea (*Cicer arietinum* L.) *In: Souvenir and abstracts of National Symposium on Plant Biotechnology, held at Forest Research Institute, Dehradun from 12-14 Oct, 2006.*
- v. **Kaur R.P.**, Saini, D.P. and Payal Saxena (2008) Effect of Yield Contributing Characters and Quality Parameters on Yield in Advanced Breeding Lines of

- Wheat (*Triticum aestivum* L). *In: Souvenir and abstracts of The 3rd Uttarakhnad State Science and Technology Congress 2008.* pp 68.
- vi. Mukul, V. and **Kaur, R.P.** (2009) Studies on development of an efficient Plant Regeneration System for *Centella asiatica* vern *bhrami*. *In: Souvenir and abstract book of the National Symposium on Emerging Trends in Biomedical Sciences 2009.* pp 69.
 - vii. Shalini, H.S. Chawla and **R.P. Kaur.** *Agrobacterium* Mediated Transformation of Cauliflower (*Brassica oleracea* var. *botrytis* L.) using *adc* gene. *In: Souvenir and abstracts of The 3rd Uttarakhnad State Science and Technology Congress 2008.* pp 60
 - viii. Payal Saxena, V.K. Khanna, Usha Bhatt, **Ratna Preeti Kaur** and V.P. Singh (2008) Comparison between the effects of Maize and Sorghum as pollen parents on the haploid formation frequencies in wheat. *In: Souvenir and abstracts of The 3rd Uttarakhnad State Science and Technology Congress 2008.* pp 57
 - ix. Priya Mittal, Shubhanjana, Rashi Gupta, **Ratna P. Kaur** and Krishna Kumar Singh (2003) Reproductive biology of shisham (*Dalbergia sissoo* Roxb.). *In: Souvenir of National Seminar on advances in Genetics and Plant Breeding- Impact of DNA Revolution, held at UAS, Dharwad, Oct 30-31, 2003.*

Popular articles:

- Shalini, **Ratna Preeti Kaur** and D.P. Saini (2005) Gehu ki unnat kheti. Kisan Bharati.
- **R.P. Kaur**, Shalini and Anju Arora (2007) Chickpea: Pod Borer Management and Scope of Transgenic Strategy.
- **Kaur, R.P. (2009)** Genetic Transformation: Strategies to Genetically Engineer Organisms for Human Welfare. Endeavour: VIII. pp 43.
- **Kaur, R.P.** and Minhas, J.S. (2014) Aalu ki kahani: udgam se utpatti (in hindi). *Anubhuti.* pp 1: 28-31.
- **R P Kaur**, Vinod Kumar, Vinay Bhardwaj, Jagesh Tiwari and B P Singh (2015) Pollen Cryopreservation for conservation of potato germplasm. CPRI Newsletter No.61:2-3

Technical articles:

- **Kaur, R.P. (2011)** *Tissue culture rahi aalu beej utpadan. In Paschimi Sind Ganga de Maidani elakeya vich bhojan atey beej aalu di utpadan takneek.* (in Gurmukhi). Technical bulletin for farmers. CPRS, Jalandhar, Punjab.
- **Kaur, R.P.** and Minhas, J.S. (2013) Aalu beej utpadan di kunji, tissue culture taknik de rahi (in gurmukhi). Technical bulletin for farmers. CPRS, Jalandhar, Punjab.

Books

- Kumar, A., Sahal, G. and **Kaur, R.P. (Editors)** 2008. Lecture Notes: Workshop on Biotechnology Education: i-xvi, 1-294.

10. Professional Affiliations:

- a. Worked as part time Graduate Research Assistant during the M.Sc. programme w.e.f. Jan 2003 to May 2004 in the “All India Coordinated Research Programme in Wheat under ICAR”.
- b. University Merit Research Fellowship during July 2004 till completion of PhD.
- c. Received Fellowship under the “Earn while you learn” scheme under the DRDO funded project “Engineering Cold Tolerance in Vegetable Crops for Himalayan Region”.
- d. SRF under the DST funded project “Model Mechanism for the Registration of Farmers’ Strains under PPV and FR Act” from May 2007 onwards At G.B. Pant University of Agriculture and Technology.
- e. Lecturer the Department of Biotechnology at the Dolphin (PG) Institute of Biomedical and Natural Sciences, Dehradun, from 2nd Jan, 2008 to 11th Sep 2008.
- f. Served as Lecturer in the Department of Biotechnology at the Sardar Bhagwan Singh P.G. Institute of Biomedical Sciences and Research, Balawala, Dehradun, since 12th Sep 08 to Dec 2009.
- g. Joined scientific services in Genetics Discipline after qualifying Agriculture Research Service examination and Interview w.e.f. Dec 2009. Presently serving as scientist at Central Potato Research Station, Jalandhar w.e.f. April, 2010.

11. Foreign Exposure: Nil