

## Research Center Ranchi

### Personal Details

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### Research Interest

Seed Production, Plant Breeding

### Research Highlights

- Seed Production of Vegetables
- Seed Production of Field Crops
- Vegetable Breeding
- Wheat Breeding

### Memberships / Fellowships

- Member, Indian Society of Seed technology
- Member, National Academy of Biological Sciences

### Technology Developed

Varieties developed:

Wheat: HD 3043, HD 3059, HD 3118, HD CSW 16, HD CSW 18

Cabbage: KGMR 1 (F<sub>1</sub> Hybrid)

Male Sterile line of sweet pepper developed:

YC MS 12

### Publication Details

#### Research papers

Yadav, S. K., Yadava, D. K., Vasudev, S., Yadav, S., **Kumar, P. R.** and Nigam, R. (2013) Assessment of seed quality and oil content in different branches of Indian mustard (*Brassica juncea*) cultivars at different storage intervals. *Indian Journal of Agricultural Sciences* **83** (2): 227–33.

Singh, G. P., Chaudhary, H. B., Singh, R.; V. P., Prabhu, K. V., Singh, A. M., Yadav, R; Jain, N; Ramya, P.; Kumar, J; Prasad, S. V. S.; Mishra A. N.; **Kumar, P. R.**; Kumar, S.; Sharma, R. K.; Kumar D.; Sharma J. B.; Vinod; Singh P. K. and Solanki, I. S (2012). Wheat variety HD 3043 (Pusa Chaitanya) for restricted irrigated conditions. *Ind. J. Genet. Pl. Breed.*,**72**(3): 401-402.

Saran, P. L., **P. R. Kumar**, R. Choudhary, G. Devi and I. S. Solanki (2013). New physiological disorders in Papaya (*Carica papaya* L.) fruit or seed production, market acceptability and economic losses in NEPZ. *Agril. Eco. Res. Rev.*, 26: 207.

Saran, P. L., Choudhary, R.; Solanki, I. S. and **Kumar, P. R.** (2014). New fruit and seed disorders in Papaya (*Carica papaya* L.) in India. *African J Biotech.*,**13** (4):574-580.

Meena, R.P.; **Kumar, P.R.**; Kumar, J.; Singh, R. and Kundu, S. (2013). Effect of long term storage on seed viability and vigour of wheat germplasm under ambient conditions in western Himalayas. *Seed Research*, Vol. 38 (1): 62-69.

**Kumar, P. R.**, S. K. Lal, Shiv K. Yadav, P. L. Saran and I. S. Solanki (2014). An Overview on Exploitation of Male Sterility for Development of Hybrids and Seed Production in Hot Pepper. *HortFlora Research*

*Spectrum*, 3 (4): 301-309.

**Kumar, P.R.**, Shiv K. Yadav, S. K. Lal, R.K. Chowdhury and M. Dadlani (2014). Overview of vegetable seed production research in India. *Seed Res.*, 42(2): 113-140.

**Kumar, P.R.**, S.N. Sinha, S. K. Lal, S.S. Singh and A. Gupta (2014). Effect of modified atmosphere on microbial incidence on cauliflower seeds. *Seed Res.*, 42(1): 53-57.

P.L. Saran, R. Choudhary, I.S. Solanki and **P.R. Kumar** (2015) Stamen feminization in hermaphrodite papaya: A new report. *Progressive Horticulture*. 47 (1): 173-174.

### **Books**

P R Kumar, A K Singh, S K Lal and Shiv K Yadav (2016) Fundamentals of Seed Certification, Ambica Book Agency, Jaipur, pages 284.

### **Technical Bulletins**

**P.R. Kumar**, P. L. Saran, C. B. Singh and D.U.M. Rao (2015). "Quality seed: An important input in green revolution", ICAR- IARI Regional Station, Pusa (Bihar), pp. 50.

**P.R. Kumar**, I. S. Solanki, Anil Kumar and D.U.M. Rao (2012) "Capacity building of Farmers in Quality Seed Production", IARI, Regional Station, Pusa (Bihar) 848125, pp. 34