Bio-Data of Mr Kuldip

Name : Kuldip

Designation : Scientist (Agricultural Biotechnology)

Contact : ICAR-Directorate of Onion and Garlic Research
Rajgurunagar-410505, District- Pune (MS)
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Higher Degree : M.Sc. (Botany), Centre of Advanced Study in Botany, Banaras Hindu University (BHU), Varanasi

Birth Date : 15 May 1987

Research Interest : Genomics, Plant Immunity

Project Details : **Institute Projects:**

- Conservation, Characterization and utilization of genetic resources of *Allium species*
- Devising efficient breeding techniques and genetic improvement of onion and garlic through conventional breeding and biotechnological approaches.
- Integrated water and nutrient management and physiological manipulation for improving productivity of onion and garlic.

Research Publications:

1. Papers in Research Journals:

https://www.nature.com/articles/srep30412

(Kuldip Jayaswall, P. Mahajan, G. Singh, R. Parmar, R. Seth, A. Raina, M.K .Swarnkar, A.K. Singh, R. Sankar, R.K. Sharma (2016). Transcriptome Analysis Reveals Candidate Genes involved in Blister Blight defense in Tea (Camellia sinensis(L) Kuntze). ***Nature Scientific Report*** 6, 30412).

2. Promising Technology/ Patent:

- Developed technology for **mass multiplication** of in vitro garlic
- Standardized media for in vitro garlic **conservation**
- Standardized indigenous **protocol for isolation of RNA** from secondary metabolite rich onion bulb and garlic clove

3. Book Chapters:

- **https://link.springer.com/chapter/10.1007/978-3-319-27090-6_5**
  (R. Kumar, **Kuldip**, P. S. Ahuja, R. K. Sharma (2016) Status and Opportunities of Molecular Breeding Approaches for Genetic Improvement of Tea. **Spinger International Publishing Switzerland**, V.R. Rajpal et al. (eds.),Molecular Breeding for Sustainable Crop Improvement, Sustainable Development and Biodiversity 11**)**

- **https://link.springer.com/chapter/10.1007%2F978-81-322-1801-2_50**
  (Verma, P., Sagar R., **Kuldip**, Singh D.K (2014). Spatiotemporal Variations in Microbial Mediated Nitrogen (N) Release under N-Fertilization Experiment from Banaras Hindu University, India. *Microbial Diversity and Biotechnology in Food Security(**springer**)*

4. Honors and Recognition:

- Mrs Prem Kumari Singh Memorial **Gold Medal** for securing the highest marks in Ecology of M.Sc. Botany Examination 2010.
- Qualified UGC- CSIR **JRF** (Life Science), June 2013 (**58th**rank)
- Qualified **ICAR Senior Research Fellowship 3rd rank** (Discipline Agriculture Biotechnology) for Ph.D. ICAR(2014)
- Qualified **IARI Merit Fellowship for Ph.D. IARI 4th rank (2014)**
- Qualified **ICAR-NET** (Agricultural Biotechnology) 2013
- Qualified **GATE** (Life Science),2011 ,94 Percentile