

DR. NEERAJ KUMAR

Scientist /Associate Professor

Department:

Pulses Section,
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EDUCATION:

1993 Ph.D. Botany, Kumaun University, Nainital, India

1987 M.Sc. Botany (1st Division) Punjab University, Chandigarh, India

1985 B.Sc. Botany, Zoology and Chemistry (1st Division) Punjab University, Chandigarh, India

PROFESSIONAL EDUCATION:

1990 UGC-CSIR (National Entrance Test) for eligibility for Lectureship

1991 UGC-CSIR (National Entrance Test) for eligibility for Lectureship and Fellowship

1991 GATE Graduate Aptitude Test in Engineering

COURSES AND TRAININGS:

2004 Advance Course on Statistical Methods for Agricultural Scientists

2003 Recent Advances in Abiotic Stress Resistance in Crop Plants

1999 Computer Education for Agricultural Scientists

1998 Induction Training Course in Research, Teaching and Extension

1995 Short Training Course in UK.

PRESENT POST:

2005-till date Scientist / Associate Professor: Pulses Section, CCS Haryana Agricultural University
Hisar, Haryana, India.

Current Research:

- Management of the research programme of pulse physiology. Main research activities:
- Development of efficient and rapid screening techniques for resistance/tolerance to stresses.
- Identification of new/diverse sources of resistance/tolerance to major abiotic stresses.
- Development of appropriate crop production technology for increasing productivity both under rain fed and irrigated conditions.

SIGNIFICANT ACHIEVEMENTS

- To overcome the genetical and physiological limits of productivity of traditional chickpea genotypes with spreading growth habit and having relatively low harvest index (HI), the morpho-physiological traits and components of yield productivity were identified in the improved, erect and compact released variety HC-5, (Entry No.APP 0201,INGR 02003, Identity No. IC-296887, NBPGR, New Delhi), which was developed on ideotype concept for extensive agriculture of higher density planting under assured irrigation and or optimal rainfall conditions. This genotype is also suitable for mechanical harvesting. **Morpho-physiological traits e.g. high photosynthetic and N₂ fixing efficiency and fruiting zone length suitable for mechanical harvesting were included in the released proposal of this variety at State and National level.**

CONTACT DR. NEERAJ FOR:

- Drought, salinity and thermo tolerance in chickpea. Nodulation, nitrogen fixation and mineral nutrition.

EMPLOYMENT HISTORY:

- 2001-2005** **Assistant Scientist (S S):** Pulses Section, CCS Haryana Agricultural university, Hisar, Haryana, India.
- 1996-2001** **Assistant Scientist:** Department of Biochemistry, CCS Haryana Agricultural, University, Hisar, Haryana, India.
- 1992-1995** **Research Associate/Senior Extension Officer:** Overseas Development Administration and Henry Doubleday Research Association, United Kingdom, Project.
- 1991-1992** **Research Assistant:** Overseas Development Administration and Henry Doubleday Research Association, United Kingdom, Project.
- 1988-1991** **Junior Research Fellow:** Department of Forestry, CCS Haryana Agricultural University, Hisar-125 004

TEACHING EXPERIENCE:

Undergraduate and Postgraduate Courses Plant in Plant Ecology and Plant Physiology

AFFILIATIONS

- Member of Indian Society for Plant Physiology, IARI, New Delhi
- Member, Journal Annals of Arid Zone, CAZRI, Jodhpur (Rajasthan)
- Member, Journal of Legume Research
- Member, Indian Society of Pulses Research and Development, IIPR, Kanpur

PUBLICATIONS

Research papers published :	Original Research Papers	In Proceedings of Conferences	Books
	28	9	1
Students guided:	Ph.D. Nil	M.Sc. 1	