

**Name and Designation:** Dr. Renu Munjal  
Scientist (Plant Physiology)

**Residential address:** 413, Sector 15-A, Hisar-125001, India

**Academic qualification:** Ph.D. in **Plant Physiology**, minor Biochemistry from CCS  
Haryana Agricultural University, Hisar, India.

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**Field of Specialization:** Stress Physiology (High Temperature Stress)

**Membership of Professional Societies:** Indian Society of Plant Physiology

National Society for Crop Improvement Research

**Awards and Prize(s) won:**

- (a) Senior Research Fellowships granted by Council of Scientific and Industrial Research, New Delhi, India during Ph.D.
- (b) Merit award for 1<sup>st</sup> position in M. Sc (Previous), 2<sup>nd</sup> position in M.Sc. (Final) and 2<sup>nd</sup> position in Ph.D.
- (c) Qualified National Eligibility Test (NET) in Plant Physiology conducted by Agriculture Scientists Recruitment Board (ASRB), New Delhi, India.
- (d) Award of National DBT Associateship, 2000-2001 by Department of Biotechnology, Ministry of Science and Technology, Govt. of India, New Delhi

**Teaching and Research highlights:**

**Research:**

**DBT Associateship Research:** Cloning of gene(s) and development of salt tolerant transgenic cotton.

**Objectives:**

- (i) Identification and cloning of novel gene(s) and promoter(s).
- (ii) Purification of transgenic plants using multigenic transfer approach.

**Salient Finding:** Cloning of SOS2 gene from cotton salt tolerant variety.

**All India Co-ordinated Wheat Improvement Project:** Screening of wheat genotypes for terminal heat stress tolerance using physiological approaches.

**Salient Finding:** Registered wheat genotype **WH730 with NBPGR, New Delhi** as heat tolerant genotype.

**Current Project:** Screening of wheat genotypes for terminal heat stress tolerance using physiological approaches.

Development of wheat varieties for saline/alkaline conditions.

Improvement in wheat yield and quality through different seed rates and by applying nitrogen at different stages of growth on PBW 373 .

Development of improved bread wheat varieties for late sown last week of November to 3rd week of December under high fertility and irrigated conditions.

Evaluation of advanced generation material of bread wheat under early and late heat stress conditions.

Development of wheat varieties for low and medium input conditions

Screening and evaluation of synthetic Wheat for early, late, heat and saline tolerance, bold grain, more grains/m, better test weight and grain quality.

**Teaching:**

Taught at both the graduate and the post graduate levels from a class of 45 students to as few as 6. Topics of lectures included: General plant physiology; plant growth regulators ; Photosynthesis; and respiration, Plant cell biology and organic metabolism, Plant productivity and crop modeling, Senescence and abscission, Stress physiology and plant water and relations, Mineral nutrition, Cell Physiology and Organic Metabolism

**Extension activities:** Performed duties at Kisan Mela and interacted with farmers and helped in dissemination of wheat cultivation technology.

Contributed in Wheat Pamphlet distributed among farmers.

**Number of Student Guided:** One M.Sc student