



**Manoj K. Sharma**  
**Assistant Professor**  
**School of Biotechnology**  
**Jawaharlal Nehru University, New Delhi**  
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**Qualifications :**

Ph.D 2007, Department of Plant Molecular Biology, UDSC, New Delhi, India.

M.Sc. (Botany) 2000, Guru Nanak Dev University, Amritsar, Punjab India.

**Areas of Interest/Specialisation :**

Plant Genomics and Genetic Engineering

Feedstock Improvement for biofuels and Stress Tolerance

Plant Molecular Farming

**Experience :**

May 2014 – onwards, UGC Assistant Professor and Ramalingaswami Fellow,  
School of Biotechnology, Jawaharlal Nehru University, New Delhi India

March – May 2014, Ramalingaswami Fellow, School of Biotechnology, Jawaharlal  
Nehru University, New Delhi India

2009-14, Postdoctoral Employee, University of California and Joint BioEnergy  
Institute Emeryville, California USA

2007-09, Research Associate, DPMB, University of Delhi, India

**Awards & Honours :**

- ✓ Ramalingaswami fellowship, Department of Biotechnology, Gov. of India, India (2012-13).
- ✓ Postdoctoral fellow, UC Davis/Joint BioEnergy Research Institute, Department of Energy USA (2009-14).
- ✓ Review editor, *Frontiers in Plant Genetics and Genomics*; *Frontiers in Plant Biotechnology*
- ✓ Mentor, CREATE-REU (Collaborative Research and Education in Agricultural Technologies and Engineering) and YSP (Young Scholar Program) of UC Davis (2010, 2011).
- ✓ Reviewing research articles for *Journal PLoS ONE*, *Bioenergy*, *Crop Science* and *American Journal of Plant Sciences*.
- ✓ Senior Research Fellow, DPMB, from March 2007 till Oct 2007.
- ✓ Senior Research Fellowship by UGC, Govt. of India, from March 11, 2004 till March 10, 2007.
- ✓ Junior Research Fellowship by UGC, Govt. of India, from March 11, 2002 to March 10, 2004.
- ✓ National Eligibility Test (UGC CSIR-NET) qualified in 2001 among top 20% candidates.

**Best Peer Reviewed Publications (upto 5) :**

1. Sharma MK, Sharma R, Cao P, Jenkins J, Bartley L, Grimwood J, Schmutz J, Rokhsar D and Ronald PC (2012) A genome-wide survey of switchgrass genome structure and organization. *PLoS One*, 7 (4) e33892. doi:10.1371/journal.pone.0033892.
2. Zhang JY, Lee YC, Jerez IT, Wang M, Yin Y, Chou WC, He J, Shen H, Pennacchio C, Lindquist E, Grimwood J, Schmutz J, Xu Y, Sharma MK, Sharma R, Ronald P, Saha M, Dixon R, Tang Y and Udvardi M (2013) Development of an integrated transcript sequence database and a gene expression atlas for gene discovery and analysis in switchgrass (*Panicum virgatum* L.). *The Plant Journal*,74(1), 160-73. doi: 10.1111/tpj.12104.
3. Bennetzen JL, Schmutz J, Wang H, Percifield R, Hawkins J, Pontaroli AC, Estep M, Feng L, Vaughn JN, Grimwood J, Jenkins J, Barry K, Lindquist E, Hellsten U, Seshpande S, Wang X, Wu X, Mitros T, Triplett J, Yang X, Ye C, Mauro-Herrera M, Wang L, Li P, Sharma MK, Sharma R, Ronald PC, Panaud O, Kellogg EA, Brutnell T, Doust A, Tuskan GA, Rokhsar D, Devos KM. (2012) Reference genome sequence

- of the model plant *Setaria*. *Nature Biotechnology*, 30, 555-561. doi:10.1038/nbt.2196.
4. The International Brachypodium Initiative (2010) Genome sequence analysis of the model grass *Brachypodium distachyon*: insights into grass genome evolution. *Nature* 463, 763-768. doi:10.1038/nature08747.
  5. Sharma MK, Singh N, Jani D, Sisodia R, Thungapathra M, Gautam JK, Meena LS, Singh Y, Ghosh A, Tyagi AK and Sharma AK (2008) Expression of toxin co-regulated pilus subunit A (TCPA) of *Vibrio cholerae* and its immunogenic epitopes fused to cholera toxin B subunit in transgenic tomato (*Solanum lycopersicum*). *Plant Cell Reports* 27, 307-318. 10.1007/s00299-007-0464-y.