

## **Dr. Pushplata Singh**

**Fellow, TERI Deakin Nanobiotechnology Centre**

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<https://scholar.google.co.in/citations?hl=en&user=94OxXRYAAAAJ>

### **Specific and broad area of research interest**

Dr. Pushplata Singh is a Senior Scientist (Fellow) at TERI-Deakin Nanobiotechnology Centre, India. She received her Ph.D. degree in Genetics from Delhi University, India in 2006. She has 11 years extensive research experience in the field of Human Genetics, Molecular Markers and Computational Genomics. Work in her research group is guided by the vision of developing a system level understanding of genomes of clinically and economically important microbes. In order to address the collective effects of genome, transcriptome and proteome on bio-fertilizer or biological control activity of fungi the group has been examining the whole genome sequence of multiple fungal genomes under the order Glomerales and Hypocreales using computational tools. Variation database generated for fungi belonging to Glomeromycota is being curated to develop molecular barcodes for improving taxonomic resolution and identifying functionally important species. The other interests of her research group include bio-encapsulation of bacterial peptide for development of oral anti-cancer therapy, and Risk assessment and Life Cycle assessment of nanomaterials.

### **Current research involvements**

- Computational and functional Genomics
- Genome wide association studies for development of molecular markers
- Bio-encapsulation of anti-cancer bacterial peptide
- Risk assessment and Life Cycle assessment of nanomaterials