



Nagendra Kumar Singh

Brief Profile

Dr. Nagendra Kumar Singh, National Professor and BP Pal Chair since 2010 at ICAR-National Research Centre on Plant Biotechnology, Indian Agricultural Research Institute, New Delhi, specializes in Plant Biotechnology, Genomics and Molecular Plant Breeding. He graduated from BHU, Varanasi in 1978, completed his M.Sc. (Ag.) also from BHU in 1980 and obtained his Ph.D. from University of Adelaide, Australia in 1985.

Prof. N.K. Singh is recipient of several nation honors and awards, including, DBT National Bioscience Award 2001-02; ICAR Rafi Ahmad Kidwai Award 2007-08; ICAR Norman Borlaug Award 2014, Fellow three Science Academies, National Academy of Agricultural Sciences, Indian National Science Academy and National Academy of Science India; Secretary NAAS 2012-15.

Prof. N. K Singh has led large multi-institutional research projects on Gene Discovery, Molecular Breeding and Transgenic Development. He is credited with the discovery and detail characterization of wheat seed storage protein '**tritricin**' and showing its importance in nutritional and bread-making quality of wheat; developed novel efficient methods for the analysis of low molecular weight subunits of wheat gluten proteins, including genetic mapping and elucidation of their role in bread and chapati-making quality.

He has played leadership role in the decoding of rice, tomato and wheat genomes as part of international consortia; carried out comparative analysis of rice and wheat genomes; completed the sequencing of pigeonpea (Arhar or Tur) genome, first plant genome to be sequenced entirely in India; completed the sequencing of chickpea Rhizobium (*M. cicer* Ca181), jute and mango genomes entirely in India; mapped several genes for agronomically useful traits, namely aroma, cooking quality, salt tolerance and grain number in rice, quality and drought tolerance in wheat and plant height and maturity time in pigeonpea.

Prof Singh has guided more than 40 students for completion of their M.Sc. and Ph.D. degree and is presently Director of the National Research Centre on Plant Biotechnology, New Delhi.

<http://www.nrcpb.res.in/scientific/dr-n-k-singh>