

Brief CV



Dr. Sachin Kumar

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Sachin Kumar (DOB: April 03, 1982) joined Department of Genetics and Plant Breeding, Chaudhary Charan Singh University, Meerut (UP) India as a Junior Research Fellow (JRF) in 2007 and started his carrier in research. While working as JRF, he visited Department of Plant Sciences, North Dakota State University (NDSU), Fargo, North Dakota, USA for a period of five months (June to October, 2007). He worked with Dr. Shahryar F. Kianian in National Science Foundation (NSF), USA funded research project “DEtecting Adduct Lesions IN Genomes (DEALING) in wheat”. During his stay at NDSU, he worked on (i) development of diploid wheat (*Triticum monococcum*) deletion lines for reverse genetics, and (ii) high-resolution radiation hybrid mapping of chromosome 3B in wheat. He obtained his PhD degree in Genetics and Plant Breeding from Chaudhary Charan Singh University, Meerut in 2012. He completed his PhD on the topic entitled “Physical mapping of DNA-based molecular markers and genome analysis in bread wheat” under the joint supervision of Professor H.S. Balyan and Professor P.K. Gupta.

Subsequently, Dr. Kumar was awarded with highly prestigious “Natural Sciences and Engineering Research Council of Canada (NSERC) Visiting Fellowships” under Canadian Government Laboratories Program at Swift Current Research and Development Centre (formerly, Semiarid Prairie Agricultural Research Centre), Agriculture and Agri-food Canada (AAFC), Swift Current, Saskatchewan, Canada for three years (2012-15). At AAFC, he worked with Dr. Ron Knox on a research project entitled “Canadian Triticum Advancement through Genomics” funded by Genome Canada. While working as Post-doctoral Fellow, he was selected as Assistant Professor at Ch. Charan Singh University, Meerut and presently working at Department of Genetics and Plant Breeding, since March 2015.

Dr. Kumar has published more than 30 research papers in highly reputed peer reviewed Journals e.g., BMC Genomics, BMC Research Notes, Theoretical and Applied Genetics, Euphytica, PLoS One, Field Crop Res, Canadian Journal of Plant Pathology, Molecular Breeding, Triticeae Genomics and Genetics, Frontiers in Plant Science, Molecular Genetics and Genomics, etc. His research area covers Plant Genomics and Molecular Breeding in cereal crops particularly wheat, which include development of molecular markers, high-throughput SNP genotyping, construction of high-density genetic/physical maps, physical and radiation hybrid maps, comparative mapping, QTL analyses, gene prediction and functional validation, genome-wide association analysis studies, genomic selection, and marker-assisted selection for agronomically important traits.

In 2017, Science and Engineering Research Board (SERB) of Department of Science and Technology (DST), New Delhi, India awarded him an Early Career Research Award (ECRA) and granted Rupees 50.00 Lakhs for three years. He is Principal Investigator in a International collaborative research project “Improved Wheat for Heat Tolerance and Climate Resilience” funded by USAID (USA) and DBT-BIRAC (India). In addition, he collaborates with scientists from USA and Canada, Spain, and international wheat breeding centers CIMMYT, Mexico for enhancing opportunities of research. Dr. Kumar is a lifetime member of the Indian Science Congress Association (ISCA), Kolkata.