About the Authors

Dr. Satybhan Singh is an Assistant Professor (Agronomy), at School of Agricultural Sciences & Engineering, IFTM University, Moradabad (U.P.). Dr. Singh has more than 10 years experience in teaching and research. He has published 32 research papers and 6 popular articles in different journals of national and international repute, written 03 books and 04 book chapters to his credit. Dr. Singh received the "Young Scientist Award" in 2017 and again in 2018 for their outstanding contribution in the field of Agronomy. He has been also received "Excellence in Teaching Award" in 2019 and "Best Teacher Award" in 2021. Main thematic research area is nutrient management and cropping system research. He has supervised 26 PG students and 02 Ph.D. scholars.

Dr. Himanshu Trivedi is Doctorate in Horticulture (Fxlt.) from GBPUA&T, Pantnagar in 2014. He has more than eight years of teaching and research experience, more than 60 publications in the form of research papers, book chapters, books, popular articles etc. He has qualified ASRB-NET in 2013 and 2021. Visited Thailand, Singapore, Indonesia and Vietnam for professional cause.

Dr. Virendra Singh presently working as Associate Professor & Director, School of Agricultural Sciences and Engineering, IFTM University, Moradabad (U.P.). Dr. Singh has completed his Master of Sciences in Agriculture (Agronomy) in year 2000 from CCS University, Meerut, and qualified ICAR-NET in 2004 and completed Ph.D. in 2016.

Dr. Singh has more than 16 years of experience in various corporate and teaching, research and administration. He has published 32 research papers, 02 book, 06 book chapters, and popular articles in different national and international repute journals. Dr. Singh received the Young Scientist Award in 2018 and Best Teacher Award in 2022 for their outstanding contribution in the field of Agronomy.

Main thematic research area is nutrient management and cropping system research and supervised more than 28 PG students and 03 Ph. D. scholars are registered. Dr. Singh actively involved in extension activities and time to time delivered radio and expert talks for the benefits of the community.

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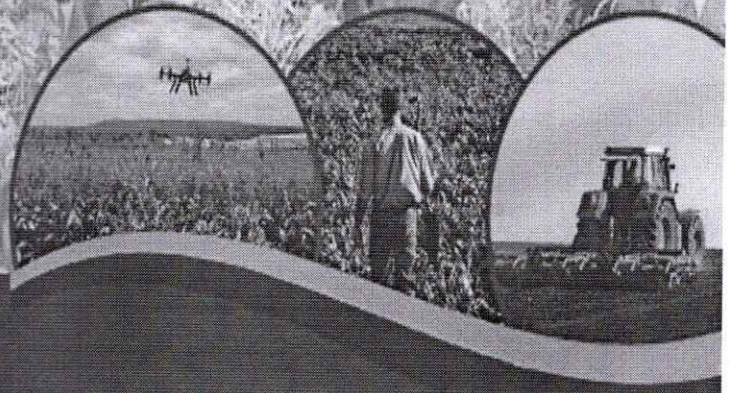
Dr. Satybhan Singh
Dr. Himanshu Trivedi
Dr. Virendra Singh



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Genetic Engineering and GM Crops

Kriti Shrinet and Riden Saxena

Introduction

It's around 10,000 years ago farmers started practicing the selection and breeding of desirable characteristics for improving wild plants and animals. This resulted in the domestication of today's common crop and livestock. In the 20th century, breeding became more elaborate, as the traits selected by the breeders include increased yield and flavors, disease, pest, and drought resistance. These traits later known as Genes are carried from one progeny to another through DNA, the chemical double-helix code from which genes are made. All living things even the fruits, vegetables, and meat that we eat contain genes that lead to the functionality of cells. Over the last 30 years, scientists have learned a lot about gene and their sequences. What do they code for as proteins finally what they are responsible for?