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Nanobiotechnology for Agricultural Sciences

Nano-Agri-Input Products for Crop Production and Environmental Protection

J. C. Tarafdar | Deepak Kumar
Sanjay K. Singh | Krishna Pal Singh
Editors

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NANOBIOTECHNOLOGY FOR AGRICULTURAL SCIENCES

*Nano-Agri-Input Products for Crop Production
and Environmental Protection*

J. C. Tarafdar, PhD
Deepak Kumar, PhD
Sanjay K. Singh, PhD
Krishna Pal Singh, PhD
Editors



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CHAPTER 11

Nanomaterials in Controlling Plant Pests, Pathogens, and Associated Risks

DEEPTI SRIVASTAVA¹, MD. SHAMIM², DEEPAK KUMAR^{3,4},
PRAMILA PANDEY⁵, MD ABU NAYYER¹, SABA SIDDIQUI¹, and
MOHAMMED HARIS SIDDIQUI¹

¹*Department of Agriculture, Integral Institute of Agricultural Science and Technology (IIAST), Integral University, Dasauli, Uttar Pradesh, India*

²*Department of Molecular Biology and Genetic Engineering, Dr. Kalam Agricultural College, Kishanganj, Bihar Agricultural University, Sabour, Bhagalpur, Bihar, India*

³*Nextnode Bioscience Pvt Ltd., Kadi, Gujarat, India*

⁴*Shri Ram Solvent Extraction Pvt Ltd., Jaspur, Uttarakhand, India*

⁵*Department of Botany, BSNVPG College, Charbagh, Lucknow, India*

ABSTRACT

Worldwide crop yield loss is significantly influenced by insect pests and plant diseases. Their management is tedious and challenging because of the limitations in early diagnosis, broad host range, and soil stability. Therefore, it is necessary to establish an innovative and efficient method of control to prevent the losses caused by insect pests and diseases that affect plants. The basis of present plant disease management strategies, which have the potential to upset the balance of nature, is the use of chemicals. An effective solution to the difficulties in recognizing and managing soil-borne plant disease has been offered by nanotechnology. Presently, use of nanotechnology for the control of diseases and insect pests involves utilizing a range of methods,

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