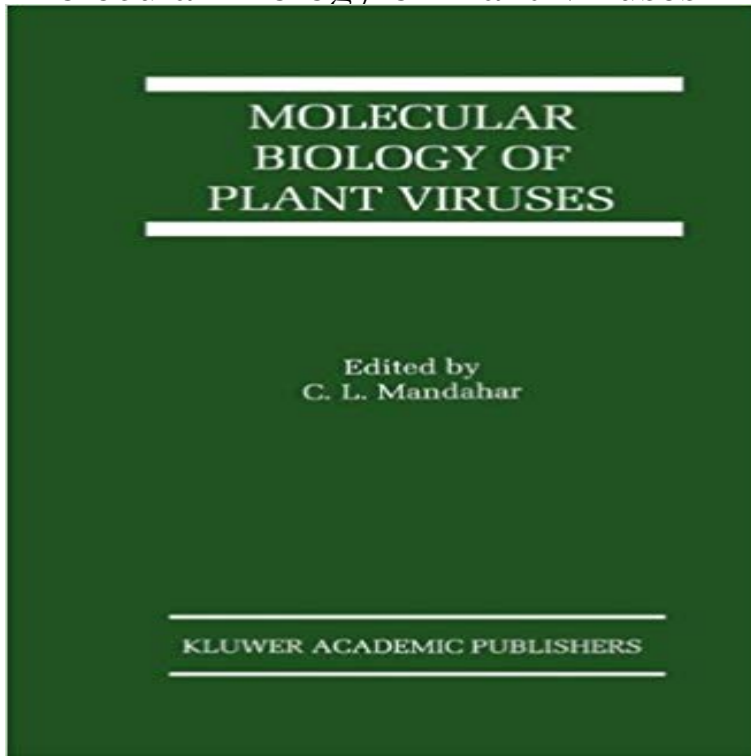


Molecular Biology of Plant Viruses



Two decades ago, recombinant DNA technology or genetic engineering ushered in a new era in the study of plant viruses. The major breakthrough came in the eighties, primarily due to the development of new methods for RNA reverse transcription and cDNA cloning, along with restriction enzyme mapping and rapid nucleotide sequencing. An information explosion in various molecular aspects of plant viruses was caused by these studies. Current research efforts investigate the study of viral genomes, genetic maps, genes and gene expression, gene products, and genetic basis of virus functions and biological properties. Molecular Biology of Plant Viruses analyzes, collates and reviews such published information. Additionally, it demonstrates the mechanisms of genetic variability; brings out the molecular basis of virus transport in plants and of virus transmission by vectors and of disease symptomatology; and discusses molecular biology of viroids and transgenic plants. It also treats the recently discovered genetic phenomenon of gene silencing and the gene-for-gene interactions between the hosts and plant viruses. Molecular Biology of Plant Viruses is an excellent reference, providing insight into the exciting research developments made in the field.

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