

Contents

Contributors	vii
Preface	ix
1 Diversity of RNA Silencing Pathways in Plants <i>Emilie Elvira-Matlot, Ángel Emilio Martínez de Alba and Hervé Vaucheret</i>	1
2 Induction and Suppression of Silencing by Plant Viruses <i>Ares Mingot, Adrian Valli, Juan José López-Moya and Juan Antonio García</i>	32
3 Artificial Induction and Maintenance of Epigenetic Variations in Plants <i>Soumita Das, Rahul Raj Singh and P.V. Shivaprasad</i>	59
4 Gene Silencing in Archaeplastida Algae <i>Xinrong Ma, Eun-Jeong Kim and Heriberto Cerutti</i>	75
5 Gene Silencing in Fungi: A Diversity of Pathways and Functions <i>Santiago Torres-Martínez and Rosa M. Ruiz-Vázquez</i>	94
6 Artificial Small RNA-based Strategies for Effective and Specific Gene Silencing in Plants <i>Alberto Carbonell</i>	110
7 Application of RNA Silencing in Improving Plant Traits for Industrial Use <i>Sumit Ghosh, Mohammad Irfan and Asis Datta</i>	128
8 Increasing Nutritional Value by RNA Silencing <i>Elsa Pons and Leandro Peña</i>	147
9 RNA-based Control of Plant Diseases: A Case Study with <i>Fusarium graminearum</i> <i>Aline Koch and Karl-Heinz Kogel</i>	166

10	Targeting Nematode Genes by RNA Silencing	176
	<i>John Fosu-Nyarko, Sadia Iqbal and Michael G.K. Jones</i>	
11	Gene Silencing Provides Efficient Protection against Plant Viruses	193
	<i>Mario Tavazza, Alessandra Lucioli and Vincenza Ilardi</i>	
	Index	209