

# Contents

<b>Plant Epigenetics: A Historical Perspective . . . . .</b>	1
Gideon Grafi and Nir Ohad	
<b>Environment-Induced Chromatin Reorganisation and Plant Acclimation . . . . .</b>	21
Martijn van Zanten, Federico Tessadori, Anton J.M. Peeters, and Paul Fransz	
<b>Epigenetic Regulation of Genome Stability in Plants in Response to Stress . . . . .</b>	41
Alex Boyko and Igor Kovalchuk	
<b>Epigenetic Control of Plant Immunity . . . . .</b>	57
Yusuke Saijo and Eva-Maria Reimer-Michalski	
<b>Epigenetic Control of Flowering Time . . . . .</b>	77
Theo Zografou and Franziska Turck	
<b>Hormonal Signaling in Plants and Animals: An Epigenetics Viewpoint . . . . .</b>	107
Andrzej Jerzmanowski and Rafal Archacki	
<b>Epigenetic Signalling During the Life of Seeds . . . . .</b>	127
Martijn van Zanten, Yongxiu Liu, and Wim J.J. Soppe	
<b>Epigenetic Control of Cell Division . . . . .</b>	155
Andreas Houben, Dmitri Demidov, and Raheleh Karimi-Ashtiyani	
<b>Small RNA-Mediated Control of Development in Plants . . . . .</b>	177
Angel Emilio Martínez de Alba, Jean-Sébastien Parent, and Hervé Vaucheret	
<b>DNA Demethylation and Gene Imprinting in Flowering Plants . . . . .</b>	201
Jin Hoe Huh and Hyun Jung Rim	
<b>Transgenerational Epigenetic Inheritance in Plants . . . . .</b>	233
Hiroshi Sano and Hyun-Jung Kim	
<b>Index . . . . .</b>	255