

Contents

1 An Overview of Programmed Cell Death Research: From Canonical to Emerging Model Species	1
Adrian N. Dauphinee and Arunika N. Gunawardena	
2 Mitochondrion and Chloroplast Regulation of Plant Programmed Cell Death	33
Theresa J. Reape, Niall P. Brogan, and Paul F. McCabe	
3 Life Beyond Death: The Formation of Xylem Sap Conduits.....	55
Delphine Ménard, Sacha Escamez, Hannele Tuominen, and Edouard Pesquet	
4 Programmed Cell Death in Plant Immunity: Cellular Reorganization, Signaling, and Cell Cycle Dependence in Cultured Cells as a Model System	77
Takamitsu Kurusu, Takumi Higaki, and Kazuyuki Kuchitsu	
5 Vascular Aerenchyma and PCD.....	97
Daniel K. Gladish	
6 Out for a Walk Along the Secretory Pathway During Programmed Cell Death.....	123
Jean-Luc Cacas	
7 Nuclear Dismantling Events: Crucial Steps During the Execution of Plant Programmed Cell Death.....	163
Fernando Domínguez and Francisco Javier Cejudo	
8 Programmed Cell Death Regulation by Plant Proteases with Caspase-Like Activity.....	191
Yao-min Cai and Patrick Gallois	
9 Senescence-Associated Programmed Cell Death	203
Hilary J. Rogers	

10 The Hypersensitive Response in PAMP- and Effector-Triggered Immune Responses.....	235
Angela Feechan, Dionne Turnbull, Laura J. Stevens, Stefan Engelhardt, Paul R.J. Birch, Ingo Hein, and Eleanor M. Gilroy	
11 To Live or Die: Autophagy in Plants	269
Brice E. Floyd, Yunting Pu, Junmarie Soto-Burgos, and Diane C. Bassham	
Index.....	301

Plant Programmed Cell Death

Gunawardena, A.N.; McCabe, P. (Eds.)

2015, XI, 306 p. 60 illus., 47 illus. in color., Hardcover

ISBN: 978-3-319-21032-2