

# Contents

<b>1</b>	<b>Developments in the Taxonomy of Aerobic, Endospore-forming Bacteria</b>	<b>1</b>
	Niall A. Logan and Gillian Halket	
<b>2</b>	<b>Diversity of Endospore-forming Bacteria in Soil: Characterization and Driving Mechanisms</b>	<b>31</b>
	Ines Mandic-Mulec and James I. Prosser	
<b>3</b>	<b>Studying the Bacterial Diversity of the Soil by Culture-Independent Approaches</b>	<b>61</b>
	Paul De Vos	
<b>4</b>	<b>Exploring Diversity of Cultivable Aerobic Endospore-forming Bacteria: From Pasteurization to Procedures Without Heat-Shock Selection</b>	<b>73</b>
	O. Berge, P. Mavingui, and T. Heulin	
<b>5</b>	<b>Life Cycle and Gene Exchange</b>	<b>89</b>
	Xiaomin Hu and Jacques Mahillon	
<b>6</b>	<b>Studying the Life Cycle of Aerobic Endospore-forming Bacteria in Soil</b>	<b>115</b>
	Volker S. Brözel, Yun Luo, and Sebastien Vilain	
<b>7</b>	<b>Dispersal of Aerobic Endospore-forming Bacteria from Soil and Agricultural Activities to Food and Feed</b>	<b>135</b>
	Marc Heyndrickx	
<b>8</b>	<b>Biological Control of Phytopathogenic Fungi by Aerobic Endospore-Formers</b>	<b>157</b>
	Alejandro Pérez-García, Diego Romero, Houda Zeriuoh, and Antonio de Vicente	

<b>9</b>	<b><i>Pasteuria penetrans</i> and Its Parasitic Interaction with Plant Parasitic Nematodes</b>	<b>181</b>
	Alistair H. Bishop	
<b>10</b>	<b>Aerobic Endospore-forming Bacteria and Soil Invertebrates</b>	<b>203</b>
	Helmut König	
<b>11</b>	<b><i>Bacillus thuringiensis</i> Diversity in Soil and Phylloplane</b>	<b>215</b>
	Michio Ohba	
<b>12</b>	<b><i>Brevibacillus</i>, Arbuscular Mycorrhizae and Remediation of Metal Toxicity in Agricultural Soils</b>	<b>235</b>
	Juan Manuel Ruiz-Lozano and Rosario Azcón	
<b>13</b>	<b><i>Geobacillus</i> Activities in Soil and Oil Contamination Remediation</b>	<b>259</b>
	Ibrahim M. Banat and Roger Marchant	
<b>14</b>	<b>Studying Denitrification by Aerobic Endospore-forming Bacteria in Soil</b>	<b>271</b>
	Ines Verbaendert and Paul De Vos	
<b>15</b>	<b><i>Paenibacillus</i>, Nitrogen Fixation and Soil Fertility</b>	<b>287</b>
	Lucy Seldin	
<b>16</b>	<b>Halophilic and Haloalkaliphilic, Aerobic Endospore-forming Bacteria in Soil</b>	<b>309</b>
	M. Carmen Márquez, Cristina Sánchez-Porro, and Antonio Ventosa	
	<b>Index</b>	<b>341</b>

Endospore-forming Soil Bacteria

Logan, N.A.; De Vos, P. (Eds.)

2011, XVI, 348 p., Hardcover

ISBN: 978-3-642-19576-1