

# Contents

<b>1</b>	<b>Applications of Quantitative Proteomics in Plant Research . . . . .</b>	<b>1</b>
	Mehdi Mirzaei, Yunqi Wu, David Handler, Tim Maher, Dana Pascovici, Prathiba Ravishankar, Masoud Zabet Moghaddam, Paul A. Haynes, Ghasem Hosseini Salekdeh, Joel M. Chick and Robert D. Willows	
<b>2</b>	<b>Seed Proteomics: An Overview . . . . .</b>	<b>31</b>
	Kanika Narula, Arunima Sinha, Toshiba Haider, Niranjan Chakraborty and Subhra Chakraborty	
<b>3</b>	<b>Fruit Development and Ripening: Proteomic as an Approach to Study <i>Olea europaea</i> and Other Non-model Organisms . . . . .</b>	<b>53</b>
	Linda Bianco and Gaetano Perrotta	
<b>4</b>	<b>Proteomics in Detection of Contaminations and Adulterations in Agricultural Foodstuffs. . . . .</b>	<b>67</b>
	Javad Gharechahi, Mehrshad Zeinolabedini and Ghasem Hosseini Salekdeh	
<b>5</b>	<b>Holistic Sequencing: Moving Forward from Plant Microbial Proteomics to Metaproteomics . . . . .</b>	<b>87</b>
	Behnam Khatabi, Neda Maleki Tabrizi and Ghasem Hosseini Salekdeh	
<b>6</b>	<b>Proteomics in Energy Crops. . . . .</b>	<b>105</b>
	Shiva Bakhtiari, Meisam Tabatabaei and Yusuf Chisti	
<b>7</b>	<b>The Proteome of Orchids . . . . .</b>	<b>127</b>
	Chiew Foan Chin	
<b>8</b>	<b>Proteomic Tools for the Investigation of Nodule Organogenesis . . .</b>	<b>137</b>
	Nagib Ahsan and Arthur R. Salomon	
<b>9</b>	<b>Proteomic Applications for Farm Animal Management . . . . .</b>	<b>157</b>
	Ehsan Oskoueian, William Mullen and Amaya Albalat	

<b>10 Applications of Proteomics in Aquaculture . . . . .</b>	<b>175</b>
Pedro M. Rodrigues, Denise Schrama, Alexandre Campos, Hugo Osório and Marisa Freitas	
<b>11 Wool Proteomics . . . . .</b>	<b>211</b>
Jeffrey E. Plowman and Santanu Deb-Choudhury	
<b>12 Proteomic Research on Honeybee . . . . .</b>	<b>225</b>
Yue Hao and Jianke Li	
<b>Erratum to: Proteomics in Energy Crops. . . . .</b>	<b>E1</b>
Shiva Bakhtiari, Meisam Tabatabaei and Yusuf Chisti	
<b>Index . . . . .</b>	<b>253</b>

Agricultural Proteomics Volume 1

Crops, Horticulture, Farm Animals, Food, Insect and  
Microorganisms

Salekdeh, G.H. (Ed.)

2016, XI, 255 p. 27 illus., 22 illus. in color., Hardcover

ISBN: 978-3-319-43273-1