

## Contents

### **Oxidation of Proteins in Plants—Mechanisms and Consequences**

*Lee J. Sweetlove and Ian M. Møller*

### **Reactive Oxygen Species: Regulation of Plant Growth and Development**

*Hyun-Soon Kim, Yoan-Sik Kim, Kyu-Woong Hahn, Hyoun Jeong and Jae-Heung Jeon*

### **Ultra-violet-B Induced Changes in Gene Expression and Antioxidants in Plants**

*S. B. Agrawal, Suruchi Singh and Madhoolika Agrawal*

### **Roles of $\gamma$ -Glutamyl Transpeptidase and $\gamma$ -Glutamyl Cyclotransferase in Glutathione and Glutathione-Conjugate Metabolism in Plants**

*Naoko Ohkama-Ohtsu, Keiichi Fukuyama and David J. Oliver*

### **The Redox State, a Referee of the Legume–*Rhizobia* Symbiotic Game**

*Daniel Marino, Chiara Pucciariello, Alain Pappo and Pierre Frendo*

### **Reactive Oxygen Species in *Phanerochaete chrysosporium*: Relationship Between Extracellular Oxidative and Intracellular Antioxidant Systems**

*Mélanie Morel, Andrew A. Ngadiu, Jean-Pierre Jacquot and Eric Gellhaye*

### **Physiological Impact of Thioredoxin- and Glutaredoxin-Mediated Redox Regulation in Cyanobacteria**

*Yoshitaka Nishiyama and Toru Hisabori*

### **Use of Transgenic Plants to Uncover Strategies for Maintenance of Redox Homeostasis During Photosynthesis**

*Guy T. Hanke, Simone Holtgreve, Nicolas König, Inga Sirodtkötter, Ingo Voss and Renate Scheibe*

### **Redundancy and Crosstalk Within the Thioredoxin and Glutathione Pathways: A New Development in Plants**

*J.-P. Reichheld, T. Bashandy, W. Siala, C. Riondet, V. Delorme, A. Meyer and Y. Meyer*

### **Protein Import in Chloroplasts: An Emerging Regulatory Role for Redox**

*Mónica Balsera, Jürgen Soll and Bob B. Buchanan*

### **Glutaredoxins in Development and Stress Responses of Plants**

*Shaoan Li and Sabine Zechgo*

### **Glutathionylation in Photosynthetic Organisms**

*Xing-Huang Gao, Mariette Bedhomme, Laure Michelet, Mirko Zaffagnini and Stéphane D. Lemaire*

### **Glutaredoxin: The Missing Link Between Thiol-Disulfide Oxidoreductases and Iron Sulfur Enzymes**

*Benjamin Selles, Nicolas Roubier, Kamel Chibani, Jeremy Couturier, Filipe Gama and Jean-Pierre Jacquot*

### **Oxidative Stress and Thiol-Based Antioxidants in Cereal Seeds**

*Pablo Pulido, Fernando Domínguez and Francisco Javier Cejudo*

### **Molecular Recognition in NADPH-Dependent Plant Thioredoxin Systems—Catalytic Mechanisms, Structural Snapshots and Target Identifications**

*Per Håggglund, Kristine Groth Kirkensgaard, Kenji Maeda, Christine Finnie, Anette Henriksen and Birte Svensson*

*Cover illustration:* The sites of superoxide ion generation in mitochondria (left) and the dimeric arrangement of poplar glutaredoxin C1 bearing an iron-sulphur centre (right).

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