

Contents

Review

From Liver to Leaves: Memories of a Plant Biochemist	5
H.-W. Heldt	

Genetics

What's New in the Plant Cell Cycle?	33
D. Francis	

Physiology

Solute Uptake in Plants: A Flow/Force Interpretation	53
M. Thellier, C. Ripoll, V. Norris, M. Nikolic, and V. Römheld	

Oscillations, Synchrony and Deterministic Chaos	69
D. Lloyd	

Structure and Regulation of Plant Vacuolar H⁺-ATPase	93
T. Seidel	

The Role and Regulation of Sugar Transporters in Plants with Crassulacean Acid Metabolism	127
E. Antony and A.M. Borland	

Ecology

Epiphytic Plants in a Changing World Global: Change Effects on Vascular and Non-Vascular Epiphytes	147
G. Zotz and M.Y. Bader	

Resolving the Dryland Decomposition Conundrum: Some New Perspectives on Potential Drivers	171
Heather L. Throop and Steven R. Archer	
Agricultural Crop Models: Concepts of Resource Acquisition and Assimilate Partitioning	195
Eckart Priesack and Sebastian Gayler	
Clustered Distribution of Tree Roots and Soil Water Exploitation.....	223
M. Kazda and I. Schmid	
Quaternary Palaeoecology: Major Palaeoecological Problems of Europe	241
B. Frenzel	
Water Relations in the Mycorrhizosphere.....	257
M.F. Allen	
Index.....	277