

PLANT PEROXISOMES

Biochemistry, Cell Biology and Biotechnological Applications

Edited by

Alison Baker and Ian A. Graham

In the two decades since the last comprehensive work on plant peroxisomes appeared the scientific approaches employed in the study of plant biology have changed beyond all recognition. The accelerating pace of plant research in the post-genomic era is leading us to appreciate that peroxisomes have many important roles in plant cells including reserve mobilisation, nitrogen assimilation, defence against stress and metabolism of plant hormones, which are vital for productivity and normal plant development. Many plant scientists are finding, and will no doubt continue to find, that their own area of research is connected in some way to peroxisomes. Written by the leading experts in the field, this book surveys peroxisomal metabolic pathways, protein targeting and biogenesis of the organelle and prospects for the manipulation of peroxisomal function for biotechnological purposes. It aims to draw together the current state of the art as a convenient starting point for anyone, student or researcher, who wishes to know about plant peroxisomes.

KLUWER ACADEMIC PUBLISHERS

ISBN 1-4020-0587-3



9 781402 005879