

Annual Plant Reviews, Volume 41

Plant Polysaccharides: Biosynthesis and Bioengineering

Annual
Plant
Reviews

Edited by Peter Ulvskov

Plant Polysaccharides, an exceptional new volume in Wiley-Blackwell's successful Annual Plant Reviews series, covers the polysaccharides and proteins that form the fundamental architecture of the plant cell wall, and the genes that encode the cellular machinery that synthesizes them. The volume focuses on the evolution of the many families of genes whose products are required to make a particular kind of polysaccharide, bringing attention to the specific biochemical properties of the proteins to the level of kinds of sugar linkages they make.

Beautifully illustrated in full colour throughout, this exceptional new volume provides cutting edge up-to-date information on such important topics as cell wall biology, composition and biosynthesis, glycosyltransferases, hydroxyproline-rich glycoproteins, enzymatic modification of plant cell wall polysaccharides, glycan engineering in transgenic plants, and polysaccharide nanobiotechnology.

Drawing together some of the world's leading experts in these areas, the editor, Peter Ulvskov, has provided a landmark volume that is essential reading for plant and crop scientists, biochemists, molecular biologists and geneticists. All libraries in universities and research establishments where plant sciences, agriculture, biological, biochemical and molecular sciences are studied and taught should have copies of this important volume.

About the Editor

Peter Ulvskov is based at the Department of Plant Biology & Biotechnology, Copenhagen University, Denmark.

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Cover Image: Fluorescence imaging of xylan in secondary cell walls of xylem vessel elements and interfascicular fibre cells in a section of an inflorescence stem of *Arabidopsis thaliana*. All cell walls are stained blue with Calcofluor White. Micrograph courtesy of Paul Knox.

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ISBN 978-1-4051-8172-3



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