Secondary Xylem Biology

Description: Secondary Xylem Biology: Origins, Functions, and Applications provides readers with many lenses from which to understand the whole scope and breadth of secondary xylem. The book builds on a basic comprehension of xylem structure and development before delving into other important issues such as fungal and bacterial degradation and biofuel conversion.

Chapters are written by recognized experts who have in-depth knowledge of their specific areas of expertise. It is a single information source containing high quality content, information, and knowledge related to the understanding of biology in woody plants and their applications.

- Offers an in-depth understanding of biology in woody plants
- Includes topics such as abiotic stresses on secondary xylem formation, fungal degradation of cell walls, and secondary xylem for bioconversion
- Progresses from basic details of wood structure, to dynamics of wood formation, to degradation

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I. Development of Secondary Xylem
Chapter 1. The vascular cambium of trees and its involvement in defining xylem anatomy
Chapter 2. Xylogenesis in trees: from cambial cell division to cell death
Chapter 3. Xylogenesis and moisture stress
Chapter 4. Abiotic stresses on secondary xylem formation
Chapter 5. Flexure wood: Mechanical stress induced secondary xylem formation
Chapter 6. Reaction wood

II. Function and Pathogen Resistance of Secondary Xylem
Chapter 7. Bordered pit structure and cavitation resistance in woody plants
Chapter 8. Fungal degradation of wood
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III. Economic Application of Secondary Xylem
Chapter 10. Genetic engineering for secondary xylem modification
Chapter 11. Secondary xylem for bioconversion
Chapter 12. Wood as cultural heritage material and its deterioration by biotic and abiotic agents
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IV. Advanced Techniques for Studying Secondary Xylem
Chapter 15. Microscopic techniques for understanding of wood cell structure and biodegradation
Chapter 16. Rapid freezing and immunocytochemistry provide new information on cell wall formation in woody plants
Chapter 17. Distribution of plant components by TOF-SIMS

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