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SYMPLASMIC COMMUNICATION IN WOOD

Summary

The secondary xylem region, aside from dead conducting and strengthening elements, contains living xylem cells connected *via* the plasmodesmata which form a three-dimensional system, among which intensive symplasmic transport is continued. The article describes the significance of symplasmic communication in the secondary xylem and the crucial role of living xylem cells in nutrient storage, intercellular transport and the regulation of developmental processes of particular xylem elements. Also provides characteristic of the anatomy of xylem parenchyma, the peculiarity of rayless wood and the nature of symplasmic transport sustained in the apoplasmic wood areas.