

**On the Cover:** Protoxylem tracheary elements produce spiralling bands of secondary cell walls, rich in cellulose, xylan, and lignin (magenta). During secondary cell wall biosynthesis, live-cell confocal imaging shows the conversion of hundreds of Golgi bodies into xylan-producing factories containing fluorescently-tagged xylan biosynthetic proteins (green). Their ring-shaped distribution reflects the protein's localization to specific structural and functional domains of the Golgi stack, distinct from the site of accumulation of the xylan biosynthetic product. Image by: Miranda Meents.

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