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Localization of bioactive metabolites in durable tropical tree *Sextonia rubra* (Lauraceae) with 2D and 3D TOF-SIMS imaging

Many tropical tree species generate natural decay resistance by producing bioactive metabolites. Among them, *Sextonia rubra* (Lauraceae) is a widely exploited species for construction in French Guiana. Rubrynlolide and rubrenolide, which are secondary metabolites isolated from the stem wood of *S. rubra*, exhibit potent antifungal and termiticidal activities that result in the exceptional durability of the heartwood.

To study their cellular localization or biosynthesis process in living trees, 2D and 3D time-of-flight secondary ion mass spectrometry (TOF-SIMS) has been employed to map the wood surface from sapwood to heartwood at subcellular level.

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