## **PHENIICS Fest 2017**



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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. Rubrynolide 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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