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シモバシラによる霜柱形成と木部にできる二次的な水の通路

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環境科学*

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SAIKAWA, M.: Secondary water path formation in frost column formation in the xylem of *Keiskea japonica*. Bull. Tokyo Gakugei Univ. Natur. Sci., **59**: 55-59 (2007) ISSN 1880-4330

Abstract

The frost columns of *Keiskea japonica* had been known to develop radially on the surface of xylem after removal of the cortex of the stem. By the usage of the dye named, “fantasy” it was confirmed that the colored water did not flow through the radial-ray cells of parenchyma intercalating in xylem but flew only through the secondary-made, upwardly-directed water path (~ 0.5 mm) in the xylem. The paths were made immediately before death of the stem in winter.

Key words: Fantasy, frost column, *Keiskea*, water path, xylem

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