

Outlineoffungi.org - Note 1135 *Isthmiella*

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Isthmiella Darker

Isthmiella comprises four species including the type *I. abietis*, that cause needle cast on *Abies*. They form elongated, nervisequious ascomata on the underside of needles that bear bifusiform ascospores surrounded by a gelatinous sheath. Ascospores are forcibly discharged in mid-summer and infect the current year's needles; the following spring, pycnidia develop on the surface of these infected needles ([Darker 1967](#)). Ascomata develop two years after infection. As of this writing, *Isthmiella* has not been subject to phylogenetic analysis and its relationship to *Bifusella* and other nervisequious, *Rhytismataceae* should be assessed.

Reference

Darker GD. 1967 – A revision of the genera of the *Hypodermataceae*. Canadian Journal of Botany 45(8), 1399–444. <https://doi.org/10.1139/b67-145>

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