

Gerhard Bedlan

Septoria juliae sp. nov. – a new *Septoria* species on *Nerium oleander*

Septoria juliae sp. nov. – eine neue *Septoria*-Art an *Nerium oleander*

Abstract

Septoria juliae sp. nov., a new species collected on *Nerium oleander* L., differs from other species of *Septoria* on this host in length, width and number of septa of the conidia.

Key words: *Septoria juliae* sp. nov., *Nerium oleander*, symptoms, systematics, new species

Zusammenfassung

Septoria juliae sp. nov., eine neue Art an *Nerium oleander* L., unterscheidet sich von anderen Arten der Gattung *Septoria* auf diesem Wirt in Länge, Breite und Anzahl der Septen der Konidien.

Stichwörter: *Septoria juliae* sp. nov., *Nerium oleander*, Symptome, Systematik, neue Art

Introduction

On Oleander (*Nerium oleander*) we know four different species of *Septoria*, namely *S. oleandrina* Sacc., *S. roll-hansenii* Morelet, *S. neriicola* Pass., and *S. oleandriicola* (E. Hüseyin and F. Selcuk). Except *S. neriicola* all others cause white-brownish leafspots with pycnidia on them. Typically the leafspots are surrounded by a thin dark brown margin. *S. neriicola* only develops pycnidia on the reverse side of the leaves.

On leaves of *Nerium oleander* originating from a nursery in Eferding (Upper Austria) a *Septoria* species was iden-

tified which differs in the number, length and width of septa to the well known species on *Nerium oleander*.

Results

For identification and comparison the following material, borrowed from herbarium collections of the Natural History Museum in Vienna, was examined: the holotype of *Septoria oleandrina* Sacc. (Rabenhorst, Fungi europaei, No. 2158), *S. oleandrina* Sacc. (F. Petrak, Pilzherbarium, Herb. Mus. Hist. Natur. Vindob. No. 13643), *S. oleandrina* Sacc. (Briosi et Cavara – I Funghi parassiti delle piante coltivate od Utili, Nr. 371).

The pycnidia and conidia were measured by the electronic image analysis system “Zeiss Axiovision Rel. 4.8”.

The main difference between *Septoria neriicola* (SACCARDO, 1884) opposed to the other species and the new one is the lack of septa in the conidia. *Septoria juliae* sp. nov. differs from *S. roll-hansenii* (see below) and *S. oleandriicola* (SACCARDO, 1876) in the number of septa in the conidia and particularly in the length and width of the conidia. In my opinion it looks as if *S. roll-hansenii* and *S. oleandriicola* are identical, because of the length, width and number of septa of the conidia. The original description of *S. roll-hansenii* is apparently not detectable because of dubious bibliographic specifications (see both MORELET, 1973a, b), but that of *Septogloeum nerii* is available. This species is a nomen nudum and MORELET (1973a, b) renamed it *Septoria roll-hansenii*. *Septogloeum nerii* (BERNAUX, 1949) has conidia with 0–4 septa which measure 25–39 × 3–4 µm and therefore *S. roll-hansenii* seems to be identical to *S. oleandriicola* (HÜSEYIN and

Institute

Österreichische Agentur für Gesundheit und Ernährungssicherheit GmbH, Bereich Landwirtschaft, Wien, Österreich

Correspondence

Univ.-Doz. Dr. Gerhard Bedlan, Österreichische Agentur für Gesundheit und Ernährungssicherheit GmbH, Bereich Landwirtschaft, Spargelfeldstraße 191, 1220 Wien, Österreich, E-Mail: gerhard.bedlan@ages.at

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Tab. 1. *Septoria* species on *Nerium oleander*

Species	Length of conidia in μm	Width of conidia in μm	Number of cells of conidia
<i>Septoria oleandrina</i> Sacc. Typus**	9.39–19.11	0.86–1.63	1–2
<i>Septoria roll-hansenii</i> Morelet (= <i>Septogloeum nerii</i> Berneaux)*	25–39	3–4	1–5
<i>Septoria neriicola</i> Pass.*	–	–	1
<i>Septoria oleandriicola</i> E. Hüsein & F. Selcuk*	(12.5)22.5–37.5(40)	2.5–3(4.5)	2–4(5)
<i>Septoria juliae</i> sp. nov.**	26.36–54.61	2.53–5.67	(2)3–7(8)

* according to original descriptions

** data based on personal measurements

Fig. 1. Leaf spots with pycnidia of *Septoria juliae* sp. nov.

SELÇUK, 2002). The material of *S. oleandrina* in the collection of BRIOSI et CAVARA (see above) seems not to be *S. oleandrina*, because the conidia have 1–3 septa and measure $11.53\text{--}25.95 \times 1.03\text{--}2.29 \mu\text{m}$. PETRAK'S material is identical to the holotype.

The diameter of the pycnidia of the new species is $35.01\text{--}203.26 \mu\text{m}$. The conidia are $26.36\text{--}54.61 \mu\text{m}$ long and $2.53\text{--}5.67 \mu\text{m}$ wide and have 1–7 septa (Tab. 1).

Septoria juliae Bedlan sp. nov.

Maculae hypophylla et epiphylla foliis breve immersis, albido-brunneae, non angularis, atrobrunneo margine distincte. Conidiomata (pycnidiae) in maculis, plerumque epiphylla. Primo immersa in textura foliae, tandem

erumpentes, globosa, $35.01\text{--}203.26 \mu\text{m}$ diam., (magnitudo media $121.52 \mu\text{m}$). Conidia hyalina, filiforma, recta-curvata, 1–6-septata, plerumque 2–7-septata, $26.36\text{--}54.61 \mu\text{m}$ longa et $2.53\text{--}5.67 \mu\text{m}$ crassa. Hab. in foliis vivis *Nerii oleandris*.

Type: Austria, Eferding (Brandstätter Straße, Gärtnerei Sandner)/Oberösterreich (Upper Austria). On living leaves of *Nerium oleander* L. 26 08 1998, G. Bedlan (holotype, hb W).

The type specimen has been deposited at the Department of Botany, Natural History Museum, Vienna.

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