Outlineoffungi.org - Note 733 *Novopuccinia*

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Novopuccinia Y.M. Liang & Yun Liu

Based on analysis of 28S and 5.8S-ITS2 genes from this study and reference sequences, Liu et al. (2021) introduced *Novopuccinia* to accommodate *N. sycopsis-sinensis* Yun Liu & Y.M. Liang (type species), *N. corylopsidis* (Cummins) Yun Liu & Y.M. Liang (≡ *Puccinia corylopsidis* Cummins), and *N. hamamelidis* (Dietel) Yun Liu & Y.M. Liang (≡ *Aecidium hamamelidis* Dietel, syn. *Puccinia mitriformis* Ito), three rust species recognised on host family *Hamamelidaceae* in China and Japan. Spermogonia, aecia and uredinia are unknown in *N. sycopsis-sinensis* and *N. corylopsidis*. *Novopuccinia sycopsis-sinensis* produces catenate, one-celled teliospores with elongated pedicel-like intercalary cells, while *N. corylopsidis* produces two-celled puccinia-like teliospores (Liu et al. 2021). *Novopuccinia hamamelidis* produces spermogonia, aecia and two-celled puccinia-like teliospores (Liu et al. 2021). The teliospores of both *N. corylopsidis* and *N. hamamelidis* tend to have unilateral thickening of the side cell wall (Liu et al. 2021). The taxonomic placement of *Novopuccinia* is in *Pucciniaceae* (*Pucciniales*, *Pucciniomycetes*, *Pucciniomycotina*, *Basidiomycota*) (Liu et al. 2021).

Reference

Liu Y, Cao B, Tian C, Ono Y, Lin W, Liang Y 2021 – Taxonomy and phylogeny of rust fungi on *Hamamelidaceae*. Frontiers in Microbiology 12(no. 648890), 3. https://doi.org/10.3389/fmicb.2021.648890

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