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# Persistent hamathecial threads in the *Nectriaceae*, *Hypocreales*: *Thyronectria* revisited and re-instated

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Abstract



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Suggestions

Based on type studies and freshly collected material we here re-instate the genus *Thyronectria* (*Nectriaceae*, *Hypocreales*). Species of this genus were recently for the most part classified in the genera *Pleonectria* (*Nectriaceae*) or *Mattirolia* (*Thyridiaceae*), because *Thyronectria* and other genera had been identified as members of the *Thyridiaceae* due to the presence of paraphyses. Molecular phylogenies based on several markers (*act*, ITS, LSU rDNA, *rpb1*, *rpb2*, *tef1*, *tub*) revealed that the *Nectriaceae* contain members whose ascospores are characterised by long, more or less persistent, apical paraphyses. All of these belong to a single genus, *Thyronectria*, which thus has representatives with hyaline, rosy, green or even dark brown and sometimes distoseptate ascospores. The type species of *Thyronectria*, *T. rhodochlora*, syn. *T. patavina*, syn. *T. pyrrochloria* is re-described and illustrated. Within the *Nectriaceae* persistent, apical paraphyses are common in *Thyronectria* and rarely also occur in *Nectria*. The genus *Mattirolia* is revised and merged with *Thyronectria* and also *Thyronectroidea* is regarded as a synonym of *Thyronectria*. The three new species *T. asturiensis*, *T. caudata* and *T. obscura* are added to the genus. Species recently described in *Pleonectria* as well as some species of *Mattirolia* are combined in the genus, and a key to *Thyronectria* is provided. Five species are epitypified. The type species of the genus *Thyridium* (*Thyridiaceae*), *T. vestitum*, is included in phylogenetic analyses to illustrate the phylogenetic distance of *Thyronectria* from the *Thyridiaceae*.

**Keywords:** ACT; ASCOMYCOTA; HYPOCREALES; MATTIROLIA; NECTRIACEAE; NEW SPECIES; PLEONECTRIA; PYRENOMYCETES; RPB1; RPB2; TEF1; THYRIDACEAE; THYRIDIDIUM; THYRONECTROIDEA; TUB

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