

## Outlineoffungi.org - Note 922 *Uromycladiaceae*

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*Uromycladiaceae* P. Zhao & L. Cai, in Zhao et al.

*Uromycladiaceae* family was introduced by Zhao et al. (2021) based on analysis of ITS, LSU and SSU sequence data to accommodate *Uromycladium* McAlpine as type genus. McAlpine (1905) established the genus *Uromycladium* for rust fungi on *Acacia* spp. in Australia. Subsequently, Cummins & Hiratsuka (2003) placed the genus in *Pileolariaceae*. Previous phylogenetic studies (Zhao et al. 2020, Aime & McTaggart 2021) found *Uromycladium* to be phylogenetically distant from *Pileolaria*, the type genus of *Pileolariaceae*. *Uromycladium* also differs in morphology of teliospores from other genera in *Pileolariaceae*, in the shape of spermogonia and morphology of telia and teliospores (Cummins & Hiratsuka 2003, Doungsa-ard et al. 2018). *Uromycladiaceae* is an autoecious monotypic family that produces spermogonia, aecia, uredinia and telia on a restricted range of plants within family *Fabaceae* (*Acacia* spp., *Paraserianthes* spp.). The genus is characterized by group VI (type 5) spermogonia, uredo-type aecia, with aeciospores borne singly on a pedicel, uredo-type uredinia with the urediniospores similar to the aeciospores. The teliospores are aseptate, with 1–3 borne on a usually branched and septate pedicel that often bears a sterile vesicle. Basidia are external. The evidence of Zhao et al. (2021) clearly establishes the newly described family *Uromycladiaceae* with taxonomic placement in *Raveneliineae*, *Pucciniales*, and *Pucciniomycetes*.

### References

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