

## Outlineoffungi.org - Note 1489 *Nyssopsoraceae*

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### *Nyssopsoraceae* Sanjay & Raghv. Singh

*Nyssopsoraceae* was introduced to accommodate *Nyssopsora* Arthur as the type genus and *Nyssopsora echinata* (Lév.) Arthur as the type species according to morphological characteristics and phylogeny by LSU-SSU-CO3-ITS sequences (Yadav et al. 2023). In the family *Nyssopsoraceae*, spermogonia remained unidentified. When present, aecia display a uredinioid form and lack paraphyses, with aeciospores showcasing echinulation. Uredinia originate subepidermally and emerge erumpently, housing urediniospores that are borne singly on pedicels, and also echinulate, with germ pores not visible. Telia, similarly subepidermal and erumpent, contain teliospores borne singly on pedicels and composed of 1–4 cells (predominantly 3-celled). These teliospores vary in shape from spherical to subspherical (1-celled), dumbbell (2-celled), linear to triquetrous (3-celled), and T-shaped to tetrahedron (4-celled), with pigmented walls and 1–4 germ pores. Basidia remain external (Yadav et al. 2023).

The taxonomic position of family *Nyssopsoraceae* is classified under *Pucciniomycetes*, *Pucciniomycotina*, and *Basidiomycota* (Yadav et al. 2023). The members of *Nyssopsoraceae* are classified as a sister clade to *Pucciniaceae* Chevall., though this relationship shows very low statistical support. *Pucciniaceae* can be easily differentiated from *Nyssopsoraceae* by their characteristic teliospores, which typically consist of 1 or 2 cells (Yadav et al. 2023).

### Reference

Yadav S, Singh G, Rajwar S, Verma SK, et al. 2023 – *Nyssopsoraceae*, a new family of *Pucciniales* to accommodate *Nyssopsora* spp. *Current Research in Environmental & Applied Mycology (Journal of Fungal Biology)* 13(1), 523–549.

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