

## Outlineoffungi.org - Note 1364 *Nannengaella*

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*Nannengaella* J.M. García-Martín, J.C. Zamora & Lado

García-Martín et al. (2023) introduced *Nannengaella* under *Physaraceae* (*Physarales*, *Myxomycetes*, *Amoebozoa*) to accommodate ten species of myxomycetes (fungus-like free-living protist or plasmodial slime molds) based on morphology and phylogenetic analyses. This genus was typified by *N. globulifera* (Bull.) J.M. García-Martín, J.C. Zamora & Lado (basionym. *Sphaerocarpus globulifer* Bull.). Due to its strongly calcified stalk (when present), columella (or sporophore base) and peridium, and several molecular motifs, *Nannengaella* differs from other adjacent genera (Lado 2005-2023, [García-Martín et al. 2023](#)). The type of fructification is a character of little taxonomic value, they can be sporocarpic and stipitate (*N. leucopus*, *N. mellea*, *N. sulphurea*, and *N. globulifera*), plasmodiocarpic and sessile (*N. alpestris*, *N. alpina*, *N. plicata*), vermicular plasmodiocarps (*N. contexta* and *N. lakhanpalii*), and aethalioid (*N. laevis*). Commonly reported associations with forest floor litter and various types of woody debris ([Novozhilov et al. 2022](#)). Molecular analyses of the multi-locus dataset (nSSU, *tef-1α*, mtSSU,  $\alpha$ -Tub), have confirmed *Nannengaella* belongs to a monophyletic clade and is the most distinct group within the large '*Physaraceae s.str.*' clade ([García-Martín et al. 2023](#)). Future research on additional phylogenetically informative gene regions IS required to increase the resolution of phylogenetic trees and better understand the evolution of morphological characters across the genera of *Physarales* ([Fiore-Donno et al. 2008](#), [Leontyev et al. 2019](#), [García-Martín et al. 2023](#)).

### References

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