

## Outlineoffungi.org - Note 653 *Inosperma*

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***Inosperma*** (Kühner) Matheny & Esteve-Rav., Matheny, Hobbs & Esteve-Raventós

This is an agaric genus associated with a wide range of plants ([Kosentka et al. 2013](#), [Deng et al. 2021b](#), [Deng et al. 2022](#)). Phylogenetic analyses based on ITS, LSU, *rpb1*, *rpb2*, *tefl* and SSU indicated it was closer to *Auritella*, *Tubariomyces*, and *Mallocybe* within *Inocybaceae* ([Matheny et al. 2020](#)). The type species is *I. calamistratum* (Fr.) Gillet. There is no morphological synapomorphies for *Inosperma* in its entirety at the moment. Compared with other species of *Inocybaceae*, species in this genus are characterized by subspherical to subphaseoliform basidiospores, hyaline or necropigmented basidia, the absence of pleurocystida, thin-walled cheilocystidia sometimes with cyanophilous contents and distinctive smell ([Matheny et al. 2020](#); [Deng et al. 2021a](#)). The asexual morph is unknown. Certain *Inosperma* species may contain muscarine, a neurotoxin that could cause poisoning incidents ([Kosentka et al. 2013](#); [Deng et al. 2021b](#); [Deng et al. 2022](#)). There are seventy-eight species in this genus. *Inosperma* is currently placed in *Inocybaceae*, *Agaricales*, *Agaricomycetes*, *Basidiomycota*.

### References

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### Entry by

**Yuguang Fan**, Hainan Key Laboratory for R & D of Tropical Herbs, School of Pharmacy, Hainan Medical University, Haikou 571199, China

(Edited by **Kevin D Hyde & Rekhani Hansika Perera**)

Published online 7 December 2022