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[Crystallicutis](#) El-Gharabawy, Leal-Dutra & G.W. Griff.

This is a resupinate polypore genus growing on decaying angiosperm and gymnosperm wood, usually on well-decayed trunks ([El-Gharabawy et al. 2021](#)). The genus was proposed to accommodate the newly described [C. damiittensis](#), [C. huangshanensis](#), and [C. rajchenbergii](#) ([El-Gharabawy et al. 2021](#)). It also includes [C. serpens](#) (\equiv [Merulius serpens](#)). The type species is [C. damiittensis](#) ([El-Gharabawy et al. 2021](#)). Phylogenetic analyses based on ITS, nLSU, *tefl*, *rpb1*, and *rpb2* support its inclusion in the family *Irpicaceae* as accepted in [Justo et al. \(2017\)](#). It appears phylogenetically close to *Byssomerulius*, *Efibula*, *Flavodon*, *Emmia*, *Irpex* and other polypore genera, but the exact phylogenetic relations between these genera remains unclear ([El-Gharabawy et al. 2021](#)). This genus is characterized mostly characterized by the presence of crystals in the hyphae of the subiculum and hymenium, giving them a heavily encrusted aspect ([El-Gharabawy et al. 2021](#)). The hymenial surface is usually yellow when fresh ([El-Gharabawy et al. 2021](#)). The hymenophore might be smooth, tuberculate, papillate, meruloid or poroid ([El-Gharabawy et al. 2021](#)). The asexual morph is unknown. Known from Africa, Asia, Europe and North America ([El-Gharabawy et al. 2021](#)). A possibly mutualistic relation has been suggested between [C. damiittensis](#) and the red palm weevil (*Rhynchophorus ferrugineus*), a highly damaging pest of date palms in the Mediterranean region ([El-Gharabawy et al. 2021](#)). [Crystallicutis](#) is currently placed in *Irpicaceae*, *Polyporales*, *Agaricomycetidae*, *Agaricomycetes*, *Agaricomycotina*, *Basidiomycota*.

References

- El-Gharabawy HM, Leal-Dutra CA, Griffith GW. 2021 – *Crystallicutis* gen. nov. (Irpicaceae, Basidiomycota), including *C. damiittensis* sp. nov., found on *Phoenix dactylifera* (date palm) trunks in the Nile Delta of Egypt. *Fungal Biology* 125(6), 447–458. <https://doi.org/10.1016/j.funbio.2021.01.004>
- Justo A, Miettinen O, Floudas D, Ortiz-Santana B et al. 2017 – A revised family-level classification of the *Polyporales* (Basidiomycota). *Fungal Biology* 121(9), 798–824. <https://doi.org/10.1016/j.funbio.2017.05.010>

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