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[Sympodiorosea](#) Q.V. Montoya & A. Rodrigues

The genus [Sympodiorosea](#) was introduced based on *Escovopsis kreiselii* L.A. Meirelles, Q.V. Montoya, S.E. Solomon & A. Rodrigues which was isolated from a fungus garden of *Mycetophylax morschi* in Brazil ([Montoya et al. 2021](#)). This genus is only known from its type species *S. kreiselii*. [Sympodiorosea](#) is morphologically similar to *Escovopsis* and its allied genera viz. *Luteomyces* and *Escovopsioides* by dense germination of conidia and forming stolon-like mycelia ([Meirelles et al. 2015](#)). However, [Sympodiorosea](#) morphologically differs from other genera in *Hypocreaceae* by its pinkish colonies, holoblastic, sympodial proliferous conidiogenous cells in pairs or in verticils; alternate or opposite branches on both the axes of conidiophores and solitary, globose to subglobose, smooth or rough, light-brown to dark-brown conidia with denticles or lesion-like holes ([Custodio & Rodrigues 2019](#); [Montoya et al. 2021](#)). The combined ITS, LSU, *tef1*, *rpb1* and *rpb2* gene analysis in [Montoya et al. \(2021\)](#) showed that [Sympodiorosea](#) forms a well-supported sister clade to *Luteomyces* and *Escovopsioides* as a distinct genus. Therefore, the generic establishment of [Sympodiorosea](#) is supported by its genetic and phenotypic distinctness. [Sympodiorosea](#) shares similar ecology and life modes with *Escovopsis* and its allied genera and occurs in fungus gardens of fungus-growing ant colonies. It is assumed that [Sympodiorosea](#) has co-evolved with the fungus-growing ants (*Mycetophylax morschi*) to build up this symbiosis ([Yek et al. 2012](#)).

References

- Custodio BC, Rodrigues A. 2019 – *Escovopsis kreiselii* specialization to its native hosts in the fungi-culture of the lower attine ant *Mycetophylax morschi*. *Antonie Van Leeuwenhoek* 112:305–317. <https://doi.org/10.1007/s10482-018-1158-x>
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- Montoya QV, Martiarena MJS, Bizarria Jr.R, Gerardo NM, Rodrigues A (2021) Fungi inhabiting attine ant colonies: reassessment of the genus *Escovopsis* and description of *Luteomyces* and *Sympodiorosea* gens. nov.. *IMA Fungus* 12:23. <https://doi.org/10.1186/s43008-021-00078-8>
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