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Phylogeny of *Sarocladium* (*Hypocreales*)

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The circumscription of the genus *Acremonium* (*Hypocreales*) was recently reviewed on the basis of a DNA phylogenetic study. Several species were subsequently transferred to *Sarocladium*, but the relationships between both genera remained unresolved. Based on multilocus phylogenetic inferences combined with phenotypic data, we have revised the species concepts within *Sarocladium* and some genetically related species of *Acremonium*. As a result of these studies, six species are described as new, viz. *S. bifurcatum*, *S. gamsii*, *S. hominis*, *S. pseudostrictum*, *S. subulatum* and *S. summerbellii*. In addition, the new combinations *S. implicatum* and *S. terricola* are proposed for *A. implicatum* and *A. terricola*, respectively. *Sarocladium attenuatum* is confirmed as synonym of the type species of the genus, *S. oryzae*. An epitype and neotype are also introduced for *S. oryzae* and *S. implicatum*, respectively. Although *Sarocladium* species have traditionally been considered as important phytopathogens, the genus also contains opportunistic human pathogens. This study extends the spectrum of clinical species that could be diagnosed as causal agents of human infections.

Keywords: ACREMONIUM; HYPOCREALES; PHYLOGENY; SAROCLADIUM; TAXONOMY
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