Five new Talaromyces species with ampulliform-like phialides and globose rough walled conidia resembling T. verruculosus - DTU Orbit (18/02/2019)

Five new Talaromyces species with ampulliform-like phialides and globose rough walled conidia resembling T. verruculosus

*Talaromyces verruculosus, T. aculeatus* and *T. apiculatus* are the only *Talaromyces* species that produce conidiophores with ampulliform phialides, which taper into very thin necks and have rough walled, globose conidia. In this study, we introduce five new species with similar micromorphological features, but were found to display unique macromorphological characters. *Talaromyces australis* (CBS 137102T) is distinguished by its restricted growth on CYA at 25 and 37 °C (16–24 mm; 9–13 mm) and red pigments produced on most media. *Talaromyces kendrickii* (CBS 136666T) is distinguished by its inability to grow on CYA at 37 °C. *Talaromyces veerkampii* (CBS 500.78T) grows rapidly on MEA (38–42 mm) and colonies on YES has a bronze green reverse. *Talaromyces fuscoviridis* (CBS 193.69T) colonies have dark green reverses on MEA and commonly produces red exudates on other media. *Talaromyces stellenboschiensis* (CBS 135665T) grows faster on CYA at 25, 30 and 37 °C (40–45 mm; 48–53 mm; 35–40 mm) than the others. Morphological findings were supported by both multigene phylogenetic analyses and the extrolites produced by these species.

**General information**

State: Published

Organisations: Center for Microbial Biotechnology, Department of Systems Biology, Fungal Chemodiversity, University of Stellenbosch, CBS-KNAW Fungal Biodiversity Centre, Agriculture and Agri-Food Canada


Number of pages: 17

Pages: 486-502

Publication date: 2015

Peer-reviewed: Yes

**Publication information**

Journal: Mycoscience

Volume: 56

Issue number: 5

ISSN (Print): 1340-3540

Ratings:

BFI (2019): BFI-level 1

Web of Science (2019): Indexed yes

BFI (2018): BFI-level 1

Web of Science (2018): Indexed yes

BFI (2017): BFI-level 1

Scopus rating (2017): CiteScore 1.23 SJR 0.804 SNIP 0.746

Web of Science (2017): Impact factor 1.229

Web of Science (2017): Indexed yes

BFI (2016): BFI-level 1

Scopus rating (2016): CiteScore 0.89 SJR 0.559 SNIP 0.57

Web of Science (2016): Impact factor 1.014

BFI (2015): BFI-level 1

Scopus rating (2015): CiteScore 1.58 SJR 0.63 SNIP 1.045

Web of Science (2015): Impact factor 1.165

Web of Science (2015): Indexed yes

BFI (2014): BFI-level 1

Scopus rating (2014): CiteScore 1.31 SJR 0.708 SNIP 0.957

Web of Science (2014): Impact factor 1.418

BFI (2013): BFI-level 1

Scopus rating (2013): CiteScore 1.3 SJR 0.529 SNIP 0.785

Web of Science (2013): Impact factor 1.288

BFI (2012): BFI-level 1

Scopus rating (2012): CiteScore 1.14 SJR 0.56 SNIP 0.799

Web of Science (2012): Impact factor 1.165

BFI (2011): BFI-level 1

Scopus rating (2011): CiteScore 0.99 SJR 0.452 SNIP 0.916

Web of Science (2011): Impact factor 1.212