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เร็ว!

Three new species of bipolar budding yeasts of the genus *Hanseniaspora* and its anamorph *Kloeckera* isolated in Thailand

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Keywords: *Hanseniaspora thailandica*; *Hanseniaspora singularis*; *Kloeckera hatyaiensis*; novel bipolar budding yeast; Thailand

Abstract

In the course of a survey of yeast biodiversity in the natural substrates in Thailand, eight strains were found to represent three hitherto undescribed species of *Hanseniaspora/Kloeckera*. They were isolated from insect frass, flower, lichen, rotted fruit and rotted wood. Based on the morphological and physiological characteristics, and sequences of D1/D2 domain, six strains represent a single species of the genus *Hanseniaspora*, described as *Hanseniaspora thailandica* sp. nov. (type BCC 14938^T=NBRC 104216^T=CBS 10841^T), and another strain as *Hanseniaspora singularis* sp. nov. (type BCC 15001^T=NBRC 104214^T=CBS 10840^T). A further strain, which belongs to *Kloeckera* and does not produce ascospores, is described as *Kloeckera hatyaiensis* sp. nov. (type BCC 14939^T=NBRC 104215^T=CBS 10842^T). Strains belonging to *H. thailandica* sp. nov. differed by 17–19 nucleotide substitutions from *Hanseniaspora meyeri*, the closest species. DNA reassociation between the two taxa showed 30–48% relatedness. *Kloeckera hatyaiensis* sp. nov. and *H. singularis* sp. nov. differed by eight and 16 nucleotide substitutions with one gap from the nearest species, *Hanseniaspora clermontiae* and *Hanseniaspora valbyensis*, respectively.

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