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Flowers in Islands and Mountains of Korea

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Yeasts were isolated from wild flowers of some islands and mountains such as Jeju-do, Ulleungdo, Yokjido, Seonyudo and Gyejoksan, Oseosan, Beakamsan and Deogyusan in Korea and were identified by comparison of nucleotide sequences for PCR-amplified D1/D2 region of 26S rDNA or internal transcribed pacer(ITS) 1 and 2 including 5.8S rDNA using BLAST. Seventy two yeast strains of two hundred eighty nine species were isolated from wild flowers in islands and mountains, Korea. Among them, *Cryptococcus* species were isolated the most dominantly, and *Metschnikowia reukaufii* were also isolated thirty species, 10.3% of total strains. Twenty-three species including *Cryptococcus aureus* were overlapped between yeast strains of the islands and mountains. Some physiological functionality of the culture broth and cell-free extracts from two hundred eighty nine yeast strains were determined. The supernatant of *Candida* sp. 78-J-2 showed antioxidant activity of 22.5%, and supernatant of *Metschnilowia reukaufii* SY44-6 showed anti-gout xanthine oxidase inhibitory activity of 49.6% and whitening tyrosinase inhibitory activity of 38.4%, respectively.

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