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Antimicrobial constituents from a marine brown alga-associated fungus *Albifimbria terrestris*

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The discovery of new natural products from marine-derived fungi has increased drastically over the last few decades and some of them revealed great potentials for drug developments. In our preliminary screening, the bioactivities of 300 fungal strains, isolated from marine alga collected from northeast coast of Taiwan, were tested intensively. Of these, the ethyl acetate extract of the fermented broth of *Albifimbria terrestris*, isolated from marine brown alga *Sarrassum fulvellum* was found to exhibit significant antifungal activity against *Candida albicans*. Therefore, bioassay-guided separation of the active principles from this extract was carried out and which has resulted in the isolation and identification of compounds following compounds: Myrochromanic acid, roridin A, roridin D, roridin J, epiisororidin E, verrucarin A, verrucarin B, verrucarin J, verrucarin H and trichoverrin A. Their structures were elucidated by spectroscopic analysis and myrochromanic acid was previously unreported.

Biography

Tsai-Yen Shih was graduated from the Department of Bioscience and Biotechnology, National Taiwan Ocean University, Taiwan. She is currently pursuing Master's degree in the Institute of Fisheries Science, National Taiwan University, Taiwan and is performing research of the natural products from marine algae-associated fungi in Aquatic Microbial Metabolomics Laboratory.

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