

27PB-am131

Lignosus rhinoceros 培養菌糸体の抗菌化合物の探索

○梁光耀¹, 猪野千恵子², 植松崇之³, 小林憲忠³, 折原裕¹ (¹東大院薬, ²イノデンタ
ル, ³北里大メディカルセ)

[Purpose] Fungal infections within the body tend to be increased in aged people. We applied extracts of cultured mycelia of mushroom against infective fungi such as *Trichophyton rubrum*, *Microsporium canis* and *Candida albicans* which course ringworm, thrush and other fungal infections in our daily life. The results showed the extract of cultured mycelia of *Lignosus rhinoceros* has strong anti-fungal activity toward *T. rubrum*. As the result, we started to figure out the bioactive compounds from the cultured mycelia of *L. rhinoceros*

[Experiments and results] The mycelia of *L. rhinoceros* were cultured in liquid potato dextrose (PD) medium, at 25°C in the dark. Culture broth (20L) of *L. rhinoceros* was condensed to 2L, and then extracted with ethyl acetate and then *n*-butanol. The extracts were tested for the *T. rubrum* as bioactivity-guide. The bioactive fraction was purified by silica-gel column chromatography and RP-HPLC to obtain compounds 1-5. Compounds 1 and 2 showed the bioactivity to *T. rubrum*; compounds 2, 3 and 4 are the first report from the natural products; compound 5 was identified as a new compound.

