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ONLINE ISSN : 1880-7577

PRINT ISSN : 0021-4795

Mokuzai Gakkaishi

Vol. 54 (2008) , No. 2 p.80-85



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## Influence of a Nucleic Acid-related Substance on the Mycelial Growth and the Pharmacological Effects of *Pleurotus nebrodensis*

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(Received April 19, 2007)

(Accepted November 7, 2007)

**Abstract:** The influence of a nucleic acid-related substance on *Pleurotus nebrodensis* cultivation was assessed in terms of mycelial growth and pharmacological effects. The addition of the nucleic acid-related substance facilitated the growth of mycelia in all culture media, i.e., liquid, agar and sawdust. The growth-facilitating effect of the nucleic acid-related substance was highest at 0.1% concentration in liquid and agar media. The results of tests for anti-platelet aggregation and chemokine gene expression inhibition demonstrated that mycelia tended to be active when cultured with addition of the nucleic acid-related substance to the medium. Pharmacological effects were absolutely attributed to the additive.

**Keywords:** *Pleurotus nebrodensis*, pharmacological effect, nucleic acid-related substance



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To cite this article:

Noriko Miyazawa and Shoji Ohga: Mokuzai Gakkaishi Vol. 54, No. 2, 80-85 (2008) .

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doi:10.2488/jwrs.54.80

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