



PANTIA KONGRES PFI XXVI DAN SEMINAR INTERNATIONAL
PERHIMPUNAN FITOPATOLOGI INDONESIA
(The Indonesian Phytopathological Society)

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ANTAGONISTIC TEST OF ORCHID MYCORRHIZA AGAINST ORSV
ON *Phalaenopsis amabilis* L. (Blume)

Mahfut

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ABSTRACT

Phalaenopsis is a type of Indonesian orchid whose presence in its original habitat has diminished. This is exacerbated by infections and diseases that are still a major limited in orchid cultivation. ORSV is a virus that is reported to infect many orchids in the world, including in Indonesia. The application of orchid mycorrhiza is used as a biofertilizer and also plays a role in inhibiting viral replication with resistance caused by the mechanism. This study was conducted to determine the orchid mycorrhiza antagonist test against ORSV on *Phalaenopsis amabilis* L. (Blume). The results showed a significant influence on the increase in leaf length, leaf width, root length, leaf count, number of roots, and fresh weight, as well as a reduction in virus concentration. The results of observations and analysis of all plant growth parameters and virus concentrations showed significant differences in treatment inoculated with orchid mycorrhiza (Mycorrhiza (M), Mycorrhiza + Virus (MV), and Virus + Mycorrhiza (VM)), and those were not inoculated by orchid mycorrhiza (Control (K) and Virus (V)). This study can be used as preliminary data on the protection of *Phalaenopsis amabilis* L. (Blume) through antagonistic testing using orchid mycorrhiza.

Keywords: *antagonistic test, induced resistance, Phalaenopsis amabilis, orchid mycorrhiza, ORSV*



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LETTER OF ACCEPTANCE

Dear Mahfut

We are pleased that you will be with us at the “**International Webinar & Congress XXVI of The Indonesian Phytopathological Society**” on October 28th -30, 2021

On behalf of the committee, I’m writing to confirm that your abstract entitled:

ANTAGONISTIC TEST OF ORCHID MYCORRHIZA AGAINST ORSV ON Phalaenopsis amabilis L.
(Blume)

Has been accepted for **Oral Presentation** and will be scheduled for presentation at the seminar.

If you are interested in publishing your article on the proceeding book, please submit your full paper by **September 17th, 2021**.

For registration, please make a Bank transfer to the following bank account: **Bank Mandiri KCP Universitas Brawijaya, Account No: 144-00-1951809-8, Name: Alfi Inayati**, and please directly send the receipt through <https://bit.ly/PaymentConfirmationPFI2021>

If you have any further questions, please feel free to contact us. We are looking forward to meeting you at The Indonesian Phytopathological Society International Webinar

Sincerely yours,
President of International Webinar &
Congress XXVI of The Indonesian Phytopathological Society 2021





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CERTIFICATE OF APPRECIATION

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