

Novel fungistatic compound against anthracnose (U579)

We are seeking business partners to license the patent

Description

Plant disease caused by phytopathogenic fungus (mold) infection is one of the main cause of world's food shortage. To control phytopathogenic fungus, several types of fungicide are available.

However, none of these fungicides target the proteins that are secreted by the fungus to infect the plant host.

Associate Professor Yoshitaka Takano *et al.* of Kyoto University have successfully found the gene (HSB1) responsible for the protein secretion, and through this, he has developed a novel screening method, as well as novel compounds showing inhibitory activity against anthracnose.

Control of infection by these compounds have already been verified in the tests using cucurbitaceous plants (shown in the figure 1 below).

Compared to the conventional method, this screening method is low-cost and requires shorter time for selection. Its fungistatic activity unlike conventional fungicides, suggests lower risk of developing resistance.

Advantage

1. Infection control system by novel mechanism of action
2. Low-cost and quick screening method
3. Compound candidates and their effects already verified

Business Model

Infection control activity of selected compounds is already verified. We are seeking business partners to collaboratively research and develop this technology for industrial application.

Potential Application

- Agricultural industry

Patent

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[Applicant] Kyoto University

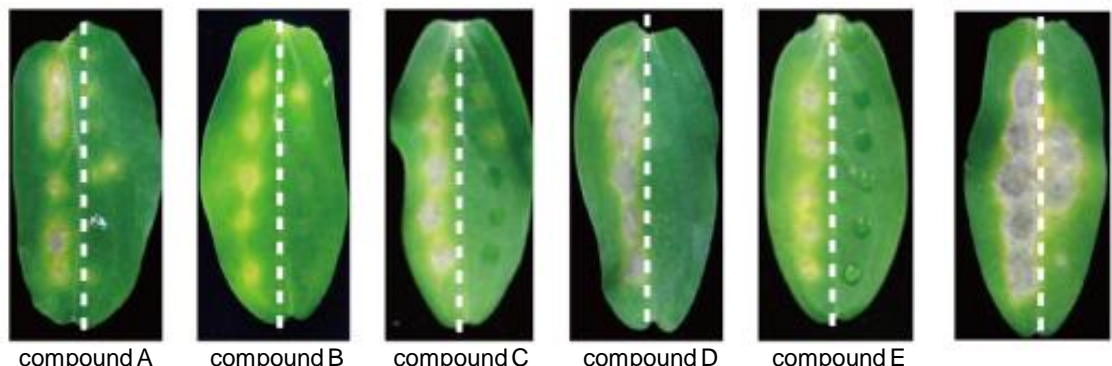


Figure1: Inhibitory activity test on anthracnose cucurbitaceous plants

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