

Repellency of herb plants and oils against the Green peach aphid, *Myzus persicae*

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Winged aphids can acquire and transmit PVY within a few minutes. Controlling PVY by insecticides, therefore, is not successful. It may be a effective method of PVY control to repel winged aphids entering tobacco fields. This study was conducted to investigate repellency of herb plants and oils against alate *Myzus persicae* in a insect cage, a screen house, and a tobacco field in Suwon, Korea. Numbers of nymphs deposited by alate or apterous *Myzus persicae* were lower on rosemary(*Rosmarinus officinalis*), silver thyme(*Thymus vulgaris*), and lemon balm(*Melissa officianalis*). Rosemary plant and silver thyme plant show little repellency against alate *Myzus persicae* on a nearby tobacco plant. Rosemary oil, peppermint(*Mentha piperita*) oil, and ginger oil showed repellency against alate *Myzus persicae*, but spearmint(*Mentha spicata*) oil and lavender oil showed little repellency in a screen house. Rosemary oil, ginger oil, peppermint oil, lavender oil, and spearmint oil showed repellency against alate *Myzus persicae* in a tobacco field, but there was no significant difference among oils.