

SEBARAN CANNA YELLOW MOTTLE VIRUS (CaYMV) PADA TANAMAN CANNA LILY DI DAERAH ISTIMEWA YOGYAKARTA DAN JAWA TENGAH

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INTISARI

Canna Lily merupakan tanaman hias yang sangat populer dan diminati karena daunnya yang lebar dan berbunga abadi. Canna Lily sudah distribusikan secara global terutama Canna Lily hibrida. Namun keindahan tanaman Canna Lily akan menurun jika tanaman terinfeksi virus. Perkembangbiakan Canna Lily dengan rimpang mempermudah penyebaran penyakit ke tanaman lainnya. Salah satu genus virus tanaman yang banyak menginfeksi Canna Lily yaitu Badnavirus. *Canna yellow mottle virus* (CaYMV) merupakan spesies virus dari genus Badnavirus yang banyak menginfeksi tanaman Canna Lily. Penelitian ini dilakukan untuk mengetahui persebaran tanaman Canna Lily yang terinfeksi CaYMV di daerah Yogyakarta dan Jawa Tengah. Metode PCR digunakan untuk membuktikan infeksi CaYMV pada tanaman. PCR dilakukan dengan primer spesifik yaitu CaYMV-3 dan CaYMV-4. Hasil PCR yang diperoleh membuktikan bahwa terdapat 5 sampel Canna Lily yang terinfeksi CaYMV yaitu sampel dari Kabupaten Sleman, Bantul, Gunung Kidul, Kulon Progo dan Klaten. Sekuensing dilakukan untuk membuktikan spesies virus yang menginfeksi Canna Lily. Hasil sekuensing yang diperoleh adalah virus yang menginfeksi Canna Lily dari 5 sampel yang diuji yaitu CaYMV. Dari penelitian yang telah dilakukan dapat disimpulkan bahwa infeksi CaYMV pada Canna Lily sudah tersebar di beberapa Kabupaten Sleman, Bantul, Gunung Kidul, Kulon Progo dan Klaten.

Kata Kunci: badnavirus, canna lily, CaYMV, PCR, persebaran

Pembimbing Utama

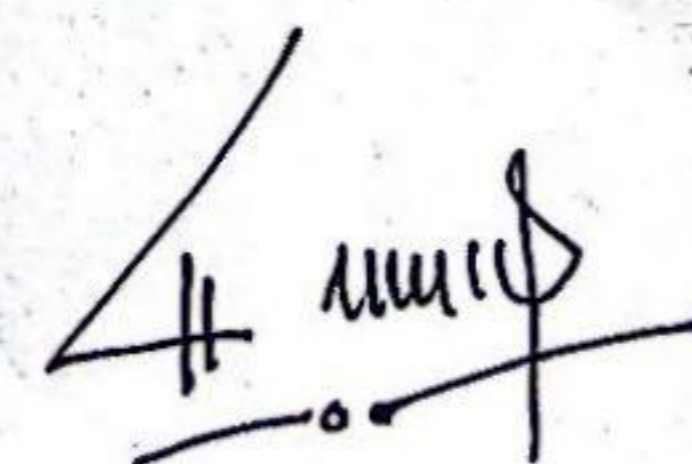


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DISTRIBUTION OF CANNA YELLOW MOTTLE VIRUS (CaYMV) ON CANNA LILY PLANTS IN YOGYAKARTA AND CENTRAL JAVA

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ABSTRACT

Canna Lily is a very popular and desirable ornamental plant due to its broad leaves and perennial flowering. Canna Lily has been distributed globally, especially hybrid Canna Lily. However, the beauty of the Canna Lily plant will decrease if the plant is infected with a virus. The propagation of Canna Lily by rhizomes makes it easier to spread the disease to other plants. One of the genus of plant viruses that infect Canna Lily is Badnavirus. *Canna yellow mottle virus* (CaYMV) is a species of virus from the Badnavirus genus that infects many Canna Lily plants. This study was conducted to determine the distribution of Canna Lily plants infected with CaYMV in Yogyakarta and Central Java. PCR method was used to prove CaYMV infection in plants. PCR was performed with specific primers namely CaYMV-3 and CaYMV-4. PCR results obtained proved that there were 5 samples of Canna Lily infected with CaYMV, namely samples from Sleman, Bantul, Gunung Kidul, Kulon Progo and Klaten regencies. Sequencing was carried out to prove the species of virus that infected Canna Lily. The sequencing results obtained were that the virus that infected Canna Lily from the 5 samples tested was CaYMV. From the research that has been done it can be concluded that CaYMV infection in Canna Lily has been spread in several districts of Sleman, Bantul, Gunung Kidul, Kulon Progo and Klaten.

Keywords: badnavirus, canna lily, CaYMV, distribution, PCR

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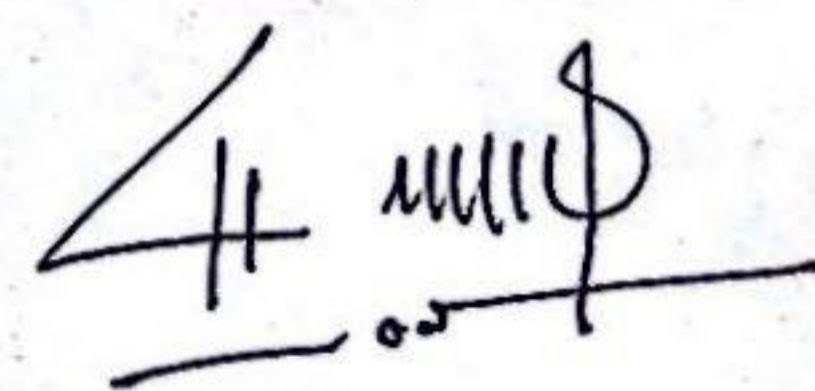


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