

Study on host range and susceptible stage of the leaf spot of palak caused by *Cercospora beticola* Sacc.

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ABSTRACT

Leaf spot disease is one of the major diseases of palak caused by *Cercospora beticola*. Symptoms of the leaf spot disease of palak were noticed on both leaf and petiole. On leaf brown coloured spots with circular or irregular margin or straw coloured centre with brown margin were observed. On petiole, brown coloured lesions were noticed. To know the alternate hosts of *C. beticola*, five different leafy vegetables viz., *Amaranthus* spp. *Beta vulgaris*, *Coriandrum sativum*, *Trigonella foetum graceam*, *Lactuca sativa* were tested. Among these *Amaranthus* and *Beta vulgaris* showed the positive reaction to *C. beticola* and to know the susceptibility stage of the palak to *C. beticola* different ages of the plants like 7, 14, 21, 28, 35, 42, 49, 56, 63 days old plants were tested among these 28 days old plants showed the highest disease severity.

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