

Investigation on resistance of 25 cucumber cultivars to downy mildew in province of Guilan

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Downy mildew is one of the destructive diseases of plant which is widespread in most part of Iran; causing heavy damage in some crop plants. Downy mildew of cucurbit caused by *Pseudoperonospora cubensis* (B&C) Rostwzen is one of the most important diseases on cucurbit specially on cucumber which may cause total yield loss on susceptible cultivars under favourable condition. Use of fungicides is often considered expensive and may not be completely effective.

In three growing seasons twenty five local and imported cultivars were planted for determination of resistance to downy mildew in a completely randomized block design with 4 replications. The assessment of infection was determined by measuring size of spot and percentage of infected leaves under natural conditions. The result clearly showed that all cultivars except four Japanese hybrids are susceptible to *Pseudoperonospora cubensis* in Guilan.