

## Effect on cucumber cultivars (*Cucumus sativum* cv. Bet-alfa, poinsett, SMR-58, marketer, straight-8)

Interaction between fungus and virus pathogen under combined stress at plant interphase

Plant: Cucumber cultivars (Cucumus sativum) Stress 1: Tobacco necrosis virus (TNV) Stress 2: Sphaerotheca fuliginea Growth stage: Second true leaf stage

Table showing an effect of the virus on fungal development in cucumber cultivars

Treatment	Response under combined stress         Type B parameters*         Conidia cm leaf tissue (x10 <sup>3</sup> )         Leaf 2 (11 day)				
(Virus – About 30					
lesions per leaf)					
	Bet-alfa.	Poinsett	SMR - 58	Marketer	Straight-8
TNV +	56.38	94.12	78.03	61.09	52.69
S. fuliginea	_			_	-

For raw data – Click here (.xlsx file) Reference- Bashan and Cohen, 1983

**Note:** *Values presented in the table were calculated using the formula described below.* 

*Reduction over control (%) =* 

(Value Pathogen stress – Value Combined stress) Value Pathogen stress
x100

' **1** '- indicates plant parameters less/not affected by stress leading to improved resistance (higher the value lesser the damage)

*'\*' - For more information on parameters classification, please refer to 'methodology' tab.* 

**Inference from the study:** Bashan and Cohen 1983, study focused on understanding the effect of *Tobacco necrosis virus* infection on *Sphaerotheca fuliginea* growth in cucumber plant cultivars. The result showed that plants infected with both virus and fungus reported a reduction in conidial yield as compared to plants infected with fungus alone. The maximum reduction in conidial yield was reported in Poinsett and the minimum in Straight-8 cultivar respectively. **Overall results indicate that TNV decreases the conidial yield of** *Sphaerotheca fuliginea* **in cucumber cultivars**.