## 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 （Virus－About 30 lesions per leaf） | Response under combined stress |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Type B parameters＊ |  |  |  |  |
|  | Conidia cm leaf tissue（ $\mathbf{x 1 0}^{\mathbf{3}}$ ） |  |  |  |  |
|  | Leaf 2 （11 day） |  |  |  |  |
|  | Bet－alfa． | Poinsett | SMR－ 58 | Marketer | $\begin{gathered} \text { Straight- } \\ 8 \end{gathered}$ |
| TNV＋ <br> S．fuliginea | 56.38 个 | 94.12 个 | 78.03 ¢ | 61.09 ¢ | 52.69 令 |

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．
（Value Pathogen stress－Value Combined stress）
Reduction over control（\％）＝
Value Pathogen stress
> －$\uparrow$＇－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.

