

**Reactive oxygen species and antioxidant enzymes in tomato cultivars with different susceptibility to fungal infection**

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The leaves of two tomato cultivars: susceptible cv. Torena and relatively resistant cv. Perkoz were infected with fungus *Botrytis cinerea*. The levels of hydrogen peroxide and hydroxyl radical as well as the activities of ascorbate peroxidase, catalase, peroxidase assayed with guaiacol, syringaldazine and ferulic acid were determined. Tomato cultivars used in this research responded to infection with *B. cinerea* in different ways. Main difference concerned the postinfectious changes in H<sub>2</sub>O<sub>2</sub> content and the level of peroxidase activity assayed with guaiacol, syringaldazine and ferulic acid detected in leaves before infection.