

P25 – Phenotype *versus* genotype

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Abstract

The classic resistant genes were evaluated by visual phenotyping and marker assisted selection. For downy mildew the genes *Rpv1*, *Rpv3.1* and *Rpv3.2* as well as *Rpv10* and *Rpv12* were compared. For powdery *Run1*, *Ren3* and *Ren9* and *Ren4* have been analyzed. Big differences occurred in the situation of the vineyards and the climatic conditions. The choice of the *Vinifera* partner plays a significant role. Different fungi isolates altered the results. Resistant genes interact together and change their expression.

Keywords: phenotype, genotype, selektion, downy mildew, powdery mildew, fungi isolates