

- MÜLLER, J.; 1989: Zur Definition von Resistenz und anderer Fachbegriffe in der Nematologie. Nachr.bl. Dt. Pfl.schutzd. **41**, 137-139.
- OLMO, H. P.; 1954: L'hybride *vinifera x rotundifolia* et sa valeur en obtention. Bull. OIV **27** (278), 68-75.
- PATEL, G. I.; OLMO, H. P.; 1955: Cytogenetics of *Vitis*: I. The hybrid *V. vinifera x V. rotundifolia* MICHX. Amer. J. Bot. **42**, 141-159.
- ROHDE, R. A.; 1965: The nature of resistance in plants to nematodes. In: Symposium on Nematology. Phytopathology **55**, 1159-1162.
- STAUDT, G.; BAUER, O.; KOEPCHEN, W.; 1984: Resistenzzüchtung bei Reben. Dt. Weinbau **39**, 1538-1543.
- WALKER, M. A.; MEREDITH, C. P.; GOHEEN, A. C.; 1985: Sources of resistance to grapevine fanleaf virus (GFV) in *Vitis* species. *Vitis* **24**, 218-228.
- ; WOLPERT, J. A.; VILAS, E. P.; GOHEEN, L. A.; LIDER, A. C.; 1989: Resistant rootstocks may control fanleaf degeneration of grapevines. Calif. Agricult. **43**, 13-14.
- WEISCHER, B.; 1980: The host-parasite relationships between the vector nematode, *Xiphinema index*, and some *Vitis* spp. Proc. 7th Meeting Intern. Counc. Virus Disease Grapevine, Niagara Falls, Canada, 139-146.
- ; 1988: Angewandte Nematodenforschung - Herausforderung und Nutzung. Wiss. Z. Ernst-Moritz-Arndt- Univ., Greifswald, Math.-Nat.wiss. Reihe **37**, 47-51.

Detection of arabis mosaic virus and grapevine leafroll virus I during the period of vegetation

R. RIES

Fachgebiet Rebenzüchtung und Rebenveredlung, Forschungsanstalt Geisenheim,
D-6222 Geisenheim, F. R. Germany

Abstract: In 1987, at 13 different dates leaf samples from vines infected with AMV and GLRVI were collected from different positions in the plants.

All results showed that the Tris extraction buffer system produced better results than the Nicotin buffer system.

Before flowering AMV could be detected in young leaves better than in elder ones with all buffer systems, whereas after flowering the results changed and it was possible to detect AMV only with the Tris system in elder leaves.

For GLRVI only the Tris buffer system was used. GLRVI could only be detected from the end of August to the end of the vegetation period.

Samples from elder leaves produced higher extinction than those from younger ones for GLRVI.

A correlation between the results in ELISA test and the temperatures before the sampling dates could not be proved.