

The viroses and virus-like diseases of the grapevine

A bibliographic report, 1979—1984

by

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Foreword

The compilation of 'bibliographic reports' on virus and virus-like diseases of *Vitis* species was initiated in 1965, under the auspices of the International Council for the Study of Viruses and Virus Diseases of the Grapevine (ICVG).

Three reports have already been published:

CAUDWELL, A.; 1965: Bibliographie des viroses de la vigne des origines à 1965. Office International de la Vigne et du Vin, Paris, 76 pp. (references 1—1019).

CAUDWELL, A.; HEWITT, W. B.; BOVEY, R.; 1972: Les viroses de la vigne. Bibliographie de 1965—1970. *Vitis* 11, 303—324 (references 1020—1386).

HEWITT, W. B.; BOVEY, R.; 1979: The viroses and virus-like diseases of the grapevine. A bibliographic report 1971—1978. *Vitis* 18, 316—376 (references 1387—2163).

The present report constitutes the fourth of the series, covering the period from 1979 through 1984. It includes 20 references (2164—2183) of papers published prior to 1979, which had been omitted in previous lists and all papers presented at the 8th Meeting of ICVG held in September 1984 in Bari, Italy, whose Proceedings were published in the first 1985 issue of *Phytopathologia Mediterranea*.

636 references of research papers or reviews on virus, mycoplasma-like organisms and virus-like diseases of *Vitis* spp., their causal agents, vectors, control measures and various aspects of practical applications of virological knowledge to the improvement of viticulture are contained in this presentation. As in previous bibliographic reports, reference on Pierce's and Kerner diseases — a well established and a possible bacterial disorder, respectively — are also included since contributed papers on these diseases were presented at the ICVG Meetings of Niagara Falls (1980) and Bari (1984).

A 'Subject Index' made up of about 200 entries completes the bibliographic lists to expedite consultation and facilitate search for wanted information.

The sources of references were:

1. Data from computerized retrieval services such as: (i) Agricola Database and Biosis Previews, obtained through Dialog Information Services, Palo Alto, California, USA; (ii) Commonwealth Agricultural Bureaux (CAB), U. K., and Biopascal, France, obtained through the European Space Agency Information Retrieval Service (ESA-IRS), Frascati, Italy.

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2. Lists of publications kindly provided by several colleagues, to whom the warmest thanks are expressed.
3. Direct consultation of journals and periodicals available at the library of the Federal Agricultural Research Station of Changins, Nyon, Switzerland or borrowed from other libraries.

Most of the references obtained from computerized retrieval services and from lists sent by colleagues were checked in the original.

Preparation of bibliographic reports is one of the activities promoted by ICVG, whose main goal is fostering international research on the nature, epidemiology and control of virus and virus-like diseases of grapevines.

ICVG is a free association of scientists with a membership of over 150 virologists and viticulturists from about 30 different countries who meet periodically (usually every three years) to discuss the results of current research and their applications.

Information concerning ICVG and the meetings may be obtained from the Secretary or any member of the Steering Committee. They are:

- G. BELLI, Secretary, Istituto di Patologia vegetale, Via Celoria 2, 20133 Milan, Italy.
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The 9th Meeting of ICVG will be held in September 1987 in Israel. The organizer is Dr. E. TANNE (Volcani Agricultural Research Center, P. O. Box 6, Bet Dagan, Israel) who may be contacted for information.

Comments

That the interest of scientists for virus and virus-like diseases of *Vitis* has not subsided since the last bibliographic report, is demonstrated by the abundant literature (more than 600 papers most of which are research notes) produced in the last six years. All major fields of grapevine virology have been explored but emphasis was placed on the study of unresolved problems (e. g. the etiological definition of diseases like leafroll and the stem pitting-corky bark complex) which were long debated in ICVG Meetings.

A detailed analysis of the outcome of the investigations carried out throughout the world in the last few years is far beyond the scope of this presentation. Therefore, only some of the significant discoveries and advances will be mentioned and briefly commented.

New records (viruses, virus and virus-like diseases)

1. Diseases

Grapevine yellow dwarf (2316) is a disease reported from Taiwan, characterized by chlorosis, mottling and yellow blotching of the leaves in spring, followed by malformation and stunting of the plants. Affected vines contain enveloped, roughly spherical virus-like particles ca. 80 nm in diameter, which resemble particles of tomato spotted wilt virus. This confirms the susceptibility of grapevines to viral pathogens that prevail in the areas of its cultivation.

A severe dieback and decline of vines of cv. Kerner was observed in Germany and described under the name of 'Kerner disease'. Among other symptoms, it induces deep grooves and pits in the xylem (2281, 2398, 2663, 2664). The disease kills the vines and has brought to a stop the use of the valuable cv. Kerner in German grape-growing districts. The pathogen is likely to be a xylem-limited bacterium which, so far, has resisted cultivation in artificial media (2399).

Vein yellowing leafroll is another new disease reported from the Champagne region of France (2309, 2310). The symptoms are like those of leafroll but the pattern of spread in the field resembles that of 'bois noir'. Similarly to 'bois noir', MLOs are suspected to be the causal agents of vein yellowing leafroll.

Outbreaks of diseases likely to be induced by MLOs and resembling flavescente dorée, have been repeatedly reported from the Americas (2303, 2594) and Europe, with special reference to Italy (2242, 2243, 2336, 2416, 2418) where they are causing concern to the growers.

Fleck (2186, 2210, 2479, 2526, 2642, 2679, 2729, 2794), vein necrosis (2177, 2256, 2339, 2679) and vein mosaic (2187, 2339, 2554, 2596) are more and more often recorded from different countries when indexing on proper indicators is carried out. Vein mosaic, a graft-transmissible disease latent in many varieties, was compared with Australian summer mottle and found to be different despite the symptomatological similarities (2791).

Graft-transmissible pathogens latent in cv. Plant droit, Riesling of Japanese origin and Savagnin but inducing chlorosis, stunting and reddening of the leaves in cv. Pinot noir, were reported from France (2500, 2779). Always in France, intriguing cases of graft incompatibility were observed between cv. Colombard, Abouriou and Pinot noir and the rootstock Kober 5BB (2357, 2378, 2779). This incompatible condition is associated with an unidentified, graft-transmissible, heat labile agent. Graft incompatibilities are becoming more and more obvious with the increased use of clonal rootstocks and scions thus indicating the existence of additional, elusive and potentially pathogenic conditions in propagative material.

2. Viruses

Novel isolations of aphid-transmitted viruses have been reported. These refer to cucumber mosaic virus in Denmark (2178), an absolute new record, broad bean wilt virus in South Africa (2301) and alfalfa mosaic virus in Czechoslovakia (2610, 2762), Hungary (2234, 2235) and Germany (2290). It appears then, that infection by some of these viruses (notably alfalfa mosaic virus which induces a distinct yellow mosaic-like syndrome) should no longer be regarded as a mere scientific curiosity. Whether they will become a real economic threat remains, however, to be seen.

Nematode-transmitted viruses have remained one of the major objects of research. Among them, grapevine fanleaf virus maintains a pre-eminent position for some 90 or so papers were devoted to various aspects of its pathogenicity, epidemiology, detection

and control. Among other findings, the most remarkable ones refer to its possible occurrence in weeds in California (2465), to the presence of a natural serological variant, the first found so far, in Tunisia (2682) and to the study of its strategy of replication in rabbit reticulocyte lysate (2565).

Other nepoviruses have not been overlooked. Thus, for instance, comparative studies for a better physico-chemical and serological characterization were carried out with tomato black ring and grapevine chrome mosaic viruses (2510), grapevine Bulgarian latent, CM-112, and blueberry leaf mottle viruses (2391, 2636, 2637), tomato ringspot virus strains from California and New York State (2602). Moreover, detailed accounts were given on symptoms, pathogenicity and diagnosis of raspberry ringspot virus infections to grapevine in Germany (2283, 2289, 2666, 2667) and new records of arabis mosaic and grapevine fanleaf viruses in Japan (2476), tomato black ring virus in Israel (2716) and Canada (2714) were provided as a consequence of introduction of infected propagating material from abroad.

Closteroviruses are undoubtedly the issue of the moment. Several different possible such viruses were found associated with major but etiologically undefined diseases like leafroll and the stem pitting-corky bark complex. Unfortunately, except for grapevine virus A (GVA), a closterovirus with particles 800 nm long that is mechanically transmissible (with difficulty) and was thoroughly characterized (2252, 2329), all other closteroviruses are, as yet, very little known. Most of the available information stems from electron microscope observations of crude extracts or thin sectioned tissues of diseased vines. The 'Subject index' lists some 20 papers under the entry 'closterovirus(es)'.

Two such viruses, which are serologically distinct from one another and from GVA and have particles measuring 1800 and 2200 nm, respectively, were reported from Switzerland as being preferentially associated with leafroll (2427, 2428). However, a comparable association with leafroll was reported for GVA in South Africa (2366, 2367) and Israel (2721).

It is evident, as pointed out in 2333, that at the present status of knowledge, no definitive conclusions can be drawn on the role of closteroviruses in the etiology of any of the diseases with which they are associated.

Vines with (2298, 2299, 2300) or without (2223) apparent symptoms of leafroll may contain also non mechanically transmissible virus-like isometric particles ca. 30 nm in diameter, which are restricted to the phloem and induce vesiculated inclusion bodies derived from deranged mitochondria.

In Japan, the simultaneous presence of the agents of leafroll and fleck in vines of the cv. Koshu, causing the so-called ajinashika disease, seems to produce more severe symptoms than those of leafroll alone (2730).

3. Viroids

Although in the present report only one paper on viroids in grapevine is quoted (2695), subsequent work published in 1985, has shown that two or more viroidal RNAs occur in grapevine of different origins. How much these viroids are widespread, and whether they are pathogenic and induce symptoms will likely be the subject of investigations in the years to come.

Detection and diagnosis

Grafting on woody indicators (indexing) still constitutes the major if not the only procedure for identifying disease agents that are not transmissible to herbaceous hosts.

Trials for leafroll detection (2286, 2358, 2360, 2362), have confirmed that cv. Mission is less sensitive and reliable than several other cultivars like Cabernet franc, Cabernet Sauvignon, Pinot noir and Merlot.

Indexing procedures were also developed for alfalfa mosaic (2505) and grapevine chrome mosaic (2504) viruses.

Improved serological methods like ELISA (enzyme-linked immunosorbent assay), IEM (immune electron microscopy) and ISEM (immunosorbent electron microscopy) have become extremely popular in the last few years, greatly contributing to expedite search for viruses, their identification and seasonal distribution in vine organs. More than 30 references are listed under the entry 'ELISA' in the 'Subject index', referring to detection of several nepo- and clostero-viruses in grapevine tissues and nematode vectors (2266), as well as the Pierce's disease bacterium in plant tissues (2585).

ISEM, on the other hand, proved useful for the identification of viruses in vines and nematode vectors and of the agent of flavescence dorée in liquid media and extracts of plant and insect vectors (see references under specific entry in 'Subject index').

It can be foreseen that more sophisticated and very sensitive methods like, for example, nucleic acid hybridization with radioactive probes, will be applied in the near future for detecting viroids and non mechanically transmissible viruses.

Epidemiology and vectors

Although this subject was by no means neglected, not many significant advances have been made, with a few noteworthy exceptions.

Longidorus diadecturus was recognized as a new vector of peach rosette mosaic virus in Canada (2203). Other nematodes possibly implicated in the transmission of nepoviruses to grapevines were *Xiphinema rivesii* (2384, 2385) and the recurrent *X. vuittenezi* (2659), which has long been suspected but never proven beyond doubt as a true virus vector.

Impressive natural spread of corky bark was reported from Mexico (2723, 2725) but the vector, thought to be an air-borne insect, was not identified. Conversely, a new leafhopper vector of Pierce's disease was discovered in California (2582), the causal agent was localized inside the vector (2272) and the mechanisms of transmission were elucidated (2623).

Perhaps the most striking finding consists in the experimental evidence that GVA can be acquired from infected grapevines and transmitted to herbaceous hosts by three mealybug species: *Pseudococcus longispinus*, *Planococcus citri* and *Planococcus ficus* (2651, 2652). Similar results were obtained in South Africa together with evidence that leafroll, with which GVA is associated, spreads naturally in the field (2367).

The recognition that mealybugs are capable of transmitting also in nature one or more closteroviruses, may represent a major epidemiological breakthrough in grapevine virology, whose significance will be properly evaluated in the years to come.

Control

Chemical control of vectors for impairing the spread of infections by viruses or xylem- and phloem-limited prokaryotes, has scored some success with the latter group of pathogens (2566, 2567, 2616). Soil fumigation against nematode vectors was not always equally effective (see references under entry on 'Chemical control' in 'Subject

index'). Data from California indicate that after heavy applications of fumigants, no recurrence of *Xiphinema index* is observed for 4—5 years. Then a gradual build-up of nematodes and affected vines is registered, reaching an incidence of 3—5 % after 10 years' growth (2498, 2639).

The use of resistant or tolerant varieties and/or rootstocks may therefore represent the answer to this problem (2268, 2414, 2639). Sources of resistance to GVF were identified in some *Vitis vinifera* varieties, resistance to the transmission of GVF by *X. index* was found in *Muscadinia* (= *Vitis rotundifolia*) (2267, 2269) and resistance to *X. index* in hybrids of *V. rotundifolia* (2436).

Production and distribution of virus-free material still represents the main issue of any sanitation programme. Considerable improvements in the efficiency of virus elimination were obtained with the use of *in vitro* culture of various types of grapevine explants, alone or in combination with heat therapy or chemotherapy. The list of 80 or so references under entries 'heat therapy' and '*in vitro* culture' in the 'Subject index' gives an idea of how widely these techniques are being applied throughout the world.

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Table of references

A. References omitted from prior publications

2164. ADLERZ, W. C.; HOPKINS, D. L.; 1976: Natural infectivity of two vectors of Pierce's disease of grape in Florida (Abstr. No. S-1). Proc. Amer. Phytopathol. Soc. **3**, 333.
2165. — — ; — — ; 1977: Transmission of Pierce's disease of grapes by sharpshooters (Homoptera: Cicadellidae) in Florida. J. N. Y. Entomol. Soc. **85**, 163—164.
2166. BARLASS, M.; SKENE, K. G. M.; 1978: *In vitro* propagation of grapevine (*Vitis vinifera* L.) from fragmented shoot apices. Vitis **17**, 335—340.
2167. BOUBALS, D.; PISTRE, R.; 1978: Résistance de certaines Vitacées et des porte-greffes usuels en viticulture au nématode *Xiphinema index* et à l'inoculation par le virus du court-noué (GFLV). Génétique et amélioration de la vigne. II^e Symposium International sur l'Amélioration de la Vigne, Bordeaux 1977. INRA Paris, 199—207.

2168. CAUDWELL, A.; LARRUE, J.; MOUTOUS, G.; FOS, A.; BRUN, P.; 1978: La transmission par des cicadelles de la jaunisse du vignoble corse. Identification de cette maladie avec la Flavescence dorée. 1. Les essais réalisés hors de la Corse. Ann. Zool. Ecol. Anim. **10**, 613—625.
2169. DAUSSANT, G.; VALAT, C.; 1978: L'action de l'Association Nationale Technique pour l'Amélioration de la Viticulture, (A.N.T.A.V.) dans le domaine de la sélection clonale des matériels de multiplication végétative de la vigne. C. R. Séances Acad. Agricult. France **64**, 100—108.
2170. ENGELBRECHT, D. J.; 1978: The maintenance of virus-free planting material at nursery and orchard level. Deciduous Fruit Grower **28**, 354—358.
2171. HARRISON, D. B.; MURANT, A. F.; 1977: Nepovirus group. CMI/AAB Descriptions of Plant Viruses, No. 185, 4 pp.
2172. HRČEK, L.; KOROŠEC, Z.; 1978: Economic aspects of virus diseases of grapes. Jugoslov. Vinogradar. i Vinar. **12** (4), 15—18. (Sn, en).
2173. HRŽIĆ, A.; 1978: Contribution to the knowledge of the nematofauna of vineyard soil in Slovenia. Nematodes of the *Xiphinema* species. Zash. Bilja **29**, 387—396 (Sh, en).
2174. JAQUINET, A.; 1978: Anomalies dans la morphologie du rameau de *Vitis vinifera*: origine physiologique ou pathologique? Génétique et amélioration de la vigne. II^e Symposium International sur l'Amélioration de la Vigne, Bordeaux 1977. INRA Paris, 51—57.
2175. KRIEL, G. J. LE R.; 1973: Simptomatologie en anatomie van gleufstam (legno riccio) by die wingerdstok (*Vitis*). M. Sc. Agric. Thesis, University of Stellenbosch, South Africa.
2176. KUNUYUKI, H.; 1975: Identification of corky bark in vineyards of the State of São Paulo. Fitopatologia **10**, 58 (Pt).
2177. MARTELLI, G. P.; SAVINO, V.; 1978: Presence of grapevine vein necrosis in Italy and Bulgaria. Informatore Fitopatol. **28** (10), 3—5.
2178. PETERSEN, H. I.; 1978: Plant diseases in Denmark in 1977, 94th annual survey. State Plant Pathology Institute, Lyngby, Denmark, 69 pp. (Da, en).
2179. PROTA, U.; 1978: Alcune note sul „legno riccio“ e le „enazioni“ della vite con particolare riferimento alla Sardegna. Viticoltura ed Enologia **2**, 215—220.
2180. RAMSDELL, D. C.; 1977: Detection of peach rosette mosaic virus (PRMV) in 'Concord' grape: comparison of ELISA vs. *Chenopodium quinoa* indexing. Proc. Amer. Phytopathol. Soc. **4**, 91 (Abstr.).
2181. ROMASCU, E.; ZINCA, N.; 1974: *Xiphinema index* THORNE et ALLEN, 1950 (Nematoda: Dorylaimidae), a new damaging pest of grapevine in Romania. An. Inst. Cercet. Prot. Plant. **10**, 273—283 (Ro, en).
2182. RUI, D.; EGGER, E.; 1977: Guida per il riconoscimento delle principali avversità patologiche nel vivaio di vite. Riv. Viticult. Enol. (Conegliano) **30**, 3—35.
2183. SINGH, S. J.; SASTRY, K. S. M.; SASTRY, K. S.; 1975: Leafroll — a new virus disease of grapevines in India. Indian J. Mycol. Plant Pathol. **5**, 205—206.

B. References published during 1979—1984. References of papers of the 8th Meeting of ICVG in Bari in September 1984, published in 1985, have been included

2184. ABRACHEVA, P.; 1979: Problems of viral disease of grapevine and their control. Selskostop. Nauka **17** (3), 75—79 (Bg).
2185. — — ; 1979: Grapevine vein mosaic in Bulgaria. Gradinar. Lozar. Nauka **16** (4), 87—91 (Bg, fr, ru).
2186. — — ; 1979: Grapevine fleck (marbrure) in Bulgaria. Gradinar. Lozar. Nauka **16** (7—8), 100—104 (Bg, fr, ru).
2187. — — ; 1979: La mosaïque des nervures de la vigne en Bulgarie. Phytopathol. Mediter. **18**, 180—182.
2188. — — ; 1980: Effect of some viral diseases on the development of grapevine. Rasht. Zash. **28** (6), 31—33 (Bg).
2189. — — ; 1980: Virus diseases of grapevine in Bulgaria and their control. Plant Virology. Proc. 8th Conf. Czechoslovak Plant Virologists 1976 (Ed. VALENTA), 407—409 (Ru, en).
2190. — — ; 1981: La sensibilité de certaines variétés de vigne à la maladie du bois strié (legno riccio). Phytopathol. Mediter. **20**, 203—205.
2191. — — ; 1983: Something new about the sensitivity of some *Vitis vinifera* and direct producer hybrid varieties to the stem pitting disease (legno riccio). Proc. 2nd International Symposium on Immunity of Plants, Plovdiv, Bulgaria, 1982, III, 207—215 (Bg, en, ru).

2192. — — ; 1983: Physiological effect of virus diseases on the growth and fertility of grapevine. In: *Phyziologiya Vinograda i Osnovi evo Vozdelivaniya II*, 227—238 (Ru), published by the Bulgarian Academy of Sciences, Sofia, 382 pp.
2193. — — ; 1984: Use of tissue cultures for obtaining virus-free grapevine planting material. *Sel'skостop. Nauka* **22** (3), 77—82 (Bg, en, ru).
2194. — — ; 1985: Etudes sur le bois strié (legno riccio) de la vigne en Bulgarie. Transmission par greffage et sensibilité des variétés à la maladie. Proc. 8th Meeting ICVG, Bari 1984. *Phytopathol. Mediter.* **24**, 60—63.
2195. — — ; CHALKOV, I.; 1982: Economic importance of some virus diseases of grapevine in Bulgaria. *Gradinar. Lozar. Nauka* **19** (7), 75—85 (Bg, fr, ru).
2196. — — ; SAVINO, V.; MARTELLI, G. P.; 1980: Mechanically transmissible viruses of grapevine in north-eastern Bulgaria. Proc. 7th Meeting ICVG, Niagara Falls 1980 (Canada Agriculture, Research Branch), 87—94.
2197. ACCOTTO, G. P.; 1982: Immunosorbent electron microscopy for detection of fanleaf virus in grapevine. *Phytopathol. Mediter.* **21**, 75—78.
2198. ADLERZ, W. C.; HOPKINS, D. L.; 1979: Natural infectivity of two sharpshooter vectors of Pierce's disease of grape in Florida. *J. Econ. Entomol.* **72**, 916—919.
2199. ALDWINKLE, H. S.; BUTURAC, I.; 1980: Culture of grape cultivars from apical meristems. Proc. 7th Meeting ICVG, Niagara Falls 1980 (Canada Agriculture, Research Branch), 339—341.
2200. ALLEN, W. R.; DIAS, H. F.; SCHAGEN, J. G., VAN; 1982: Susceptibility of grape cultivars and rootstocks to an Ontario isolate of tomato ringspot virus. *Can. J. Plant Pathol.* **4**, 275—277.
2201. — — ; SCHAGEN, J. G. VAN; 1982: Tomato ringspot virus in European hybrid grapevines in Ontario: a re-evaluation of the incidence and geographic distribution. *Can. J. Plant Pathol.* **4**, 272—274.
2202. — — ; — — ; 1982: The virus-tested grapevine program at Vineland. *Can. Agricult.* **27** (4), 10—13.
2203. — — ; — — ; EVELEIGH, E. S.; 1982: Transmission of peach rosette mosaic virus to peach, grape, and cucumber by *Longidorus diadecturus* obtained from diseased orchards in Ontario. *Can. J. Plant Pathol.* **4**, 16—18.
2204. ANONYMOUS; 1979: Il legno riccio della vite in Italia. *Inform. Fitopatol.* **29** (2), 3—18.
2205. — — ; 1980: Grapevine. Report 1977—1979, CSIRO Division of Horticultural Research, Australia, 126 pp.
2206. — — ; 1984: VIII^e réunion du Conseil international pour l'étude des virus et des maladies virales de la vigne. *Progr. Agric. Vitic.* **101**, 487—495.
2207. ANTCLIFF, A. J.; WOODHAM, R. C.; CELLIER, K. M.; 1979: A comparison of 182 Sultana clones selected for yield. *Austral. J. Agricult. Res.* **30**, 1111—1122.
2208. AVGELIS, A. D.; 1980: Presence of enation disease in 'Razaki' grapevines in Crete. *Phytopathol. Mediter.* **19**, 72 (Abstr.).
2209. AYUSO, P.; VILLEGAS, T.; PEÑA, A.; 1983: La micropropagation comme méthode de régénération sanitaire dans les variétés de table espagnoles. Symposium International «Raisin de table, raisin sec», Heraklion (Crète) 1982, 497—504. (O.I.V., Paris, 758 pp.).
2210. AZERI, T.; 1980: The first report of stem pitting and fleck disease on Turkish grapevines. *J. Turk. Phytopathol.* **9** (2/3), 97—106.
2211. BABINI, A. R.; BERTACCINI, A.; 1982: Viral aggregates induced by a distinctive strain of strawberry latent ringspot virus from grapevine. *Phytopathol. Z.* **104**, 304—308.
2212. — — ; CREDI, R.; GIUNCHEDI, L.; CANOVA, A.; 1981: Effetto di infezioni virali su alcuni portainnesti della vite. *Atti 3^o Simposio Internazionale sulla Selezione Clonale della Vite, Venezia 1981*, 310—318.
2213. BALDACCINI, E.; 1981: A key to virus and virus-like diseases of the grapevine. An approach to the classification of virus diseases. *Riv. Patol. Veg. Ser. IV*, **17**, 99—105.
2214. — — ; 1983: Criteri diagnostici per le virosi della vite. *Atti Accad. Ital. Vite e Vino, Siena*, **35**, 195—202.
2215. — — ; 1983: Criteri diagnostici per le virosi della vite. *Vignevini* **10** (9), 7—10.
2216. — — ; BELLI, G.; 1981: Il virus dell'arricciamento (GFV) in piante di vite della varietà Picolito. *Riv. Patol. Veg. Ser. IV*, **17**, 111—113.
2217. BAMBARA, G.; PICCIOLO, F.; ROMEO, S.; REFATTI, E.; GRANATA, G.; 1981: Risultati della selezione di alcuni vitigni siciliani. *Atti 3^o Simposio Internazionale sulla Selezione Clonale della Vite, Venezia 1981*, 370—378.
2218. BARLASS, M.; SKENE, K. G. M.; 1982: Virus-free vines from tissue culture. *Austral. Grapegrower Winemaker* (224), 40—41.

2219. — — ; — — ; WOODHAM, R. C.; KRAKE, L. R.; 1982: Regeneration of virus-free grapevines using *in vitro* apical culture. *Ann. Appl. Biol.* **101**, 291—295.
2220. BASILE, M.; 1980: La lotta chimica contro i Longidoridae nei vigneti. I trattamenti al reimpianto con prodotti a base di 1,3 dicloropropene e persistenza del nematocida nel terreno. *Atti Giorn. Nematol. Ascoli Piceno* 1980, 23—24.
2221. — — ; LAMBERTI, F.; ELIA, F.; LANDRISCINA, S.; 1980: Control of *Xiphinema* species by 1,3 dichloropropene in replanting vineyards in Southern Italy. *Proc. 7th Meeting ICVG, Niagara Falls 1980* (Canada Agriculture, Research Branch), 147—151.
2222. BASLER, P.; BRUGGER, J. J.; 1981: Résultats préliminaires d'une comparaison entre des clones de Pinot noir obtenus par sélection visuelle et les mêmes clones après thermothérapie. *Rev. Suisse Viticult. Arboricult. Hort.* **13**, 337—339.
2223. — — ; — — ; 1981: Comparaison de clones de Pinot noir traités par thermothérapie et de sélection visuelle; résultats préliminaires. *Atti 3° Simposio Internazionale sulla Selezione Clonale della Vite, Venezia 1981*, 337—341.
2224. — — ; — — ; 1982: Vergleich von wärmebehandelten und nicht wärmebehandelten Blauburgunderklonen. *Schweiz. Z. Obst- Weinbau* **118**, 379—384.
2225. BASS, P.; LEGIN, R.; 1981: Thermothérapie et multiplication *in vitro* d'apex de vigne. Application à la séparation ou à l'élimination de diverses maladies de type viral et à l'évaluation des dégâts. *C. R. Séances Acad. Agricult. France* **67**, 922—933.
2226. — — ; — — ; 1984: Thermothérapie et multiplication *in vitro* d'apex de vigne. Application à la séparation ou à l'élimination de diverses maladies de type viral et à l'évaluation des dégâts. *Prog. Agric. Vitic.* **101**, 270—274.
2227. — — ; VUITTEZ, A.; 1979: Méthode d'inoculation virale par «hétérogreffage» entre plantes hôtes herbacées et ligneuses en culture aseptique *in vitro*. Application à la transmission de souches définies de Népovirus de *Chenopodium quinoa* à la vigne *Vitis* sp. *Ann. Phytopathol.* **11**, 565—567.
2228. BASSO, M.; NATALI, S.; TRIOLO, E.; 1981: Contributo della ricerca in Toscana al miglioramento genetico e sanitario della vite ad uva da vino. *Atti 3° Simposio Internazionale sulla Selezione Clonale della Vite, Venezia 1981*, 203—210.
2229. BECKER, H.; 1981: Klonenzüchtung und Schaffung von virusfreiem Pflanzgut. 26. Rebenzüchtertagung auf dem Geilweilerhof. *Dt. Weinbau* **36**, 1380—1381.
2230. — — ; 1981: Fortschritte der Klonenzüchtung und Versorgung mit virusgetestetem Rebenpflanzgut. *Dt. Weinbau* **36**, 1495—1497.
2231. — — ; 1984: Situazione del miglioramento genetico e della produzione di portainnesti della vite in Germania. *Riv. Viticult. Enol.* **37**, 359—377.
2232. — — ; FIESENIG, G.; 1984: Übertragung der Blattrollkrankheit der Rebe bei der Veredlung und Zwischenveredlung mit verschiedenen Sorten. *Wein-Wiss.* **39**, 165—177.
2233. BECZNER, L.; 1980: New observations aiding the identification of viruses in different groups (fruit trees, vine stocks, ornamental plants). *Acta Horticulturae* **110**, 227—234.
2234. — — ; LEHOCZKY, J.; 1980: Infection of grapevine by alfalfa mosaic virus. II. Transmission of the virus to herbaceous plants, symptomatology, serology and electron microscopy. *Kertgazdaság* **12** (3), 33—43 (Hu, de, en, ru).
2235. — — ; — — ; 1981: Grapevine disease in Hungary caused by alfalfa mosaic virus infection. *Acta Phytopathol. Acad. Sci. Hung.* **16**, 119—128.
2236. BELLI, G.; 1979: Miglioramento della vite da vino in Italia. La selezione sanitaria: Acquisizioni e prospettive. *Atti Acad. Ital. Vite e Vino, Siena*, **31**, 239—248.
2237. — — ; 1981: Identificato il virus dell'accartocciamento fogliare della vite. *Notiz. Ortoflorofrutticolt.* **7**, 223—225.
2238. — — ; FAORO, F.; FORTUSINI, A.; TORNAGHI, R.; 1985: Further data on grapevine leafroll etiology. *Proc. 8th Meeting ICVG, Bari 1984. Phytopathol. Mediter.* **24**, 148—151.
2239. — — ; — — ; — — ; VEGETTI, G.; 1980: Isometric particles associated with corky bark and legno riccio in grapevine. *Proc. 7th Meeting ICVG, Niagara Falls 1980* (Canada Agriculture, Research Branch), 77—81.
2240. — — ; FORTUSINI, A.; 1981: La selezione sanitaria della vite in Lombardia: esperienze e acquisizioni recenti. *Atti 3° Simposio Internazionale sulla Selezione Clonale della Vite, Venezia 1981*, 345—350.
2241. — — ; — — ; 1982: Risultati e sviluppi in atto nel miglioramento sanitario della vite in Lombardia. *Atti Giorn. Fitopatol.* 1982 (Suppl.), 171—180.
2242. — — ; — — ; RUI, D.; 1985: Recent spread of flavescence dorée and its vector in vineyards of northern Italy. *Proc. 8th Meeting ICVG, Bari 1984. Phytopathol. Mediter.* **24**, 189—191.

2243. — — ; — — ; — — ; PIZZOLI, L.; TORRESIN, G.; 1983: Gravi danni da flavescenza dorata in vigneti di Pinot nel Veneto. *Inform. Agrario* **39**, 24431—24433.
2244. — — ; — — ; VEGETTI, G.; 1982: Il virus del mosaico dell'*Arabis* isolato da vite in Italia. *Riv. Patol. Veg. Ser. IV*, **18**, 175—177.
2245. — — ; MARRO, M.; FORTUSINI, A.; 1982: Sviluppi nel miglioramento genetico e sanitario della vite nell'Oltrepò pavese. *Atti Acad. Ital. Vite e Vino, Siena*, **34**, 191—197.
2246. — — ; MARTELLI, G. P.; 1981: Virus e virosi della vite: nomenclatura italiana e principali sinonimi stranieri. *Inform. Fitopatol.* **31** (7/8), 33—36.
2247. — — ; RUI, D.; FORTUSINI, A.; PIZZOLI, L.; TORRESIN, G.; 1984: Presenza dell'insetto vettore (*Sca-phoideus titanus*) e ulteriore diffusione della Flavescenza dorata nei vigneti del Veneto. *Vignevini* **11** (9), 23—27.
2248. — — ; VEGETTI, G.; CINQUANTA, S.; SONCINI, C.; PRATI, S.; TOLENTINO, D.; 1984: Properties of a strain of arabis mosaic virus isolated from grapevine in Italy. *Riv. Patol. Veg. Ser. IV*, **20**, 56—64.
2249. BENIN, M.; GRENAN, S.; 1984: Le microbouturage: nouvelle technique d'élimination des virus de la vigne. *Progr. Agric. Vitic.* **101**, 33—36.
2250. BERNARD, A. C.; MUR, G.; 1979: Observations sur l'organogenèse des bourgeons de plants de *Vitis vinifera* cultivés *in vitro*. *Ann. Amélior. Plantes* **29**, 311—323.
2251. BLAICH, R.; WIND, R.; 1982: Anreicherungs-methode für den serologischen Nachweis von Virus in Rebblättern. *Vitis* **21**, 40—42.
2252. BOCCARDO, G.; D'AQUILIO, M.; 1981: The protein and nucleic acid of a closterovirus isolated from a grapevine with stem-pitting symptoms. *J. Genet. Virol.* **53**, 179—182.
2253. BOJNANSKÝ, V.; 1979: Grapevine recovery programme in Czechoslovakia. *Proc. 1st Conf. Grapevine Recovery and Innovation of Vineyards with Virus-free Material, Modra 1979*, 19—29 (Ru, en, fr, sk).
2254. — — ; VANEK, G.; MIKUŠOVÁ, A.; 1981: The recovery of grapevine from viruses in Czechoslovakia. *Scientia Agriculturae Bohemoslovaca* **13** (1), 1—6.
2255. BOLLER, E.; 1982: Erkennen der hauptsächlichlichen Schadbilder an Reben in der Ostschweiz und ihrer Ursachen. *Schweiz. Z. Obst- Weinbau* **118**, 314—319.
2256. BONDARCHUK, V. V.; MARINESKU, V. G.; 1980: Grapevine leaf vein necrosis. *Sadovod. Vinogradar. Vinodel. Moldavii* **35** (12), 29—30 (Ru).
2257. — — ; — — ; POPESKU, N. O.; ABRAMENKO, N. M.; RUBENKO, L. M.; 1979: Propagation methods of virus-free clones of grapevine in Moldavia. *Proc. 1st Conf. Grapevine Recovery and Innovation of Vineyards with Virus-free Material, Modra 1979*, 115—121 (Ru, en, fr, sk).
2258. BOUBALS, D.; 1979: Sur la qualité du matériel certifié produit par les pépiniéristes. *Progr. Agric. Vitic.* **96**, 484—485.
2259. — — ; 1979: Le problème de la sélection du matériel végétal dans les vignobles étrangers. *Progr. Agric. Vitic.* **96**, 486—487.
2260. — — ; 1980: Comment le contrôle du matériel certifié de bois et plants de vigne peut-il s'exercer? *Chronique. Progr. Agric. Vitic.* **97**, 93—96.
2261. — — ; 1984: Sur la dévitalisation des racines de vignes court-nouées. *Progr. Agric. Vitic.* **101**, 173—175.
2262. — — ; GUILLOT, R.; 1980: Groupe international pour l'étude des maladies à virus de la vigne (I. C. V. G.). Congrès du 8 au 12 septembre 1980 à Niagara Falls, Ontario (Canada). Résumé des communications scientifiques au Congrès de l'I. C. V. G. *Progr. Agric. Vitic.* **97**, 420—429.
2263. BOUQUET, A.; 1980: *Vitis* × *Muscadinia* hybridization: a new way in grape breeding for resistance in France. *Proc. Third Intern. Symp. Grape Breeding, Univ. California, Davis 1980*, 42—61.
2264. — — ; 1981: Resistance to grape fanleaf virus in Muscadine grape inoculated with *Xiphinema index*. *Plant Dis.* **65**, 791—793.
2265. — — ; 1982: Intérêt des techniques de culture «*in vitro*» pour la multiplication et l'amélioration génétique et sanitaire des variétés de vignes. II^e Colloque International sur la Multiplication de la Vigne, Bordeaux 1982, 39—43.
2266. — — ; 1983: Détection immunoenzymatique du virus du court-noué de la vigne dans son vecteur *Xiphinema index* THORNE et ALLEN. *C. R. Hebd. Séances Acad. Sci., Ser. III Sci. Vie* **296**, 271—274.
2267. — — ; 1983: Mise en évidence chez l'espèce *Muscadinia rotundifolia* (SMALL) MICHX. d'une résistance à la transmission du virus du court-noué (grape fanleaf virus) par son nématode vecteur *Xiphinema index* THORNE et ALLEN. *Agronomie* **3**, 94—95 (Abstr.).

2268. — — ; 1983: La recherche de porte-greffe résistants: une voie nouvelle dans la lutte contre le court-noué de la vigne? Progr. Agric. Vitic. **100**, 256—259.
2269. — — ; DANGLLOT, Y.; 1983: Recherche de porte-greffes de vigne résistant à la transmission du virus du court-noué (GFV) par le nématode *Xiphinema index* THORNE et ALLEN. I. — Application de la méthode ELISA à la réalisation d'un test rapide de sélection. Agronomie **3**, 957—963.
2270. BOVEY, R.; 1980: Control of virus and virus-like diseases of grapevine: sanitary selection and certification, heat therapy, soil fumigation and performance of virus-tested material. Proc. 7th Meeting ICVG, Niagara Falls 1980 (Canada Agriculture, Research Branch), 299—309.
2271. — — ; 1981: Aspects de la sélection sanitaire de la vigne. Atti 3° Simposio Internazionale sulla Selezione Clonale della Vite, Venezia 1981, 293—301.
2272. — — ; 1985: Novel viruses and virus diseases of grapevine, new data on known diseases and their agents. Proc. 8th Meeting ICVG, Bari 1984. Phytopathol. Mediter. **24**, 8—11.
2273. — — ; BRUGGER, J. J.; GUGERLI, P.; 1980: Detection of fanleaf virus in grapevine tissue extracts by enzyme-linked immunosorbent assay (ELISA) and immune electron microscopy (IEM). Proc. 7th Meeting ICVG, Niagara Falls 1980 (Canada Agriculture, Research Branch), 259—275.
2274. — — ; GARTEL, W.; HEWITT, W. B.; MARTELLI, G. P.; VUITTENEZ, A.; 1980: Maladies à virus et affections similaires de la vigne. Payot, Lausanne, 181 pp. (Fr, De, En).
2275. — — ; GUGERLI, P.; BRUGGER, J. J.; 1985: Some improvements in the detection of grapevine fanleaf virus by enzyme-linked immunosorbent assay (ELISA) and immune electron microscopy (IEM). Proc. 8th Meeting ICVG, Bari 1984. Phytopathol. Mediter. **24**, 208—209 (Abstr.).
2276. BRILANSKY, R. H.; LEE, R. F.; TIMMER, L. W.; PURCIFULL, D. E.; RAJU, B. C.; 1982: Immunofluorescent detection of xylem-limited bacteria *in situ*. Phytopathology **72**, 1444—1448.
2277. — — ; TIMMER, L. W.; FRENCH, W. J.; MCCOY, E. E.; 1983: Colonization of the sharpshooter vectors, *Oncometopsis nigricans* and *Homalodisca coagulata*, by xylem-limited bacteria. Phytopathology **73**, 530—535.
2278. BROWN, D. J. F.; ROBERTS, I. M.; 1980: Detection of nepoviruses in their nematode vectors by immunosorbent electron microscopy. 15th Intern. Nematol. Symp. European Society of Nematologists, Bari (Italy) 1980, 36—37 (Abstr.).
2279. BRÜCKBAUER, H.; 1979: Die Bedeutung der intrazellulären Stäbe für die Diagnose der Reisigkrankheit bei Europäerreben. Wein-Wiss. **34**, 83—89.
2280. — — ; 1979: Das Verhalten von Rebenneuzüchtungen nach Virusinfektionen. Dt. Weinbau-Jahrb. **30**, 75—85.
2281. — — ; 1979: Virologische Untersuchungen. Jahresber. 1978, Landes-Lehr- und Forschungsanstalt für Landwirtschaft, Weinbau und Gartenbau, Neustadt/Weinstr. 77—87.
2282. — — ; 1979: Erzeugung von virusfreien Klonen und Probleme der Bodenentseuchung. In: Die Klonenselektion, Berufsbezogene Weiterbildung — Studienprogramm, Seminar Emmelshausen 1978. Herausgeber Ministerium für Landwirtschaft, Weinbau und Forsten, Mainz 1979, 137—164.
2283. — — ; 1979: Die Viruskrankheiten der Rebe; Bedeutung, Erkennung, Nachweismöglichkeiten und Bekämpfung. Pfälzer Bauer **31** (28), 14—15; (29), 22—23; (30), 24—26; (31), 28.
2284. — — ; 1979: Untersuchungen zur Thermotherapie der Reben. Verhalten von Rebsorten bei hohen Temperaturen. Wein-Wiss. **34**, 264—278.
2285. — — ; 1980: Einfluß von Virusinfektionen auf Wachstum und Ertrag der Rebe. Dt. Weinbau-Jahrb. **31**, 145—152.
2286. — — ; 1980: Untersuchungen zum Nachweis der virösen Blattrollkrankheit der Rebe mittels Pfropftest. Wein-Wiss. **35**, 195—198.
2287. — — ; 1981: Die infektiöse Blattrollkrankheit der Rebe und ihre Bedeutung für den Weinbau. Dt. Weinbau-Jahrb. **32**, 143—152.
2288. — — ; 1981: Die heimischen Rebvirosen und ihre Erkennung. Winzer Kurier **8**, 10—20.
2289. — — ; 1982: Mögliche Beziehungen zwischen Virus und Symptomausprägung bei der Rebe. Wein-Wiss. **37**, 88—118.
2290. — — ; 1982: Nachweis des Luzernemosaik-Virus (alfalfa mosaic virus-AMV) in Reben mittels krautiger Testpflanzen. Wein-Wiss. **37**, 234—245.
2291. — — ; RUDEL, M.; 1980: Virologische Untersuchungen. Jahresber. 1979, Landes-Lehr- und Forschungsanstalt für Landwirtschaft, Weinbau und Gartenbau, Neustadt/Weinstr., 80—91.

2292. — —; — —; 1981: Virologische Untersuchungen. Jahresber. 1980, Landes-Lehr- und Forschungsanstalt für Landwirtschaft, Weinbau und Gartenbau, Neustadt/Weinstr. 81—88.
2293. — —; — —; 1981: Untersuchungen über das Himbeerringflecken-Virus (RRV) in hiesigen Weinbergen. Wein-Wiss. **36**, 413—430.
2294. — —; — —; 1982: Virologische Untersuchungen. Jahresber. 1981, Landes-Lehr- und Forschungsanstalt für Landwirtschaft, Weinbau und Gartenbau, Neustadt/Weinstr., 60—65.
2295. BUTUROVIĆ, D.; GRBELJA, J.; ERIC, Z.; 1979: Geographical distribution of tomato black ring virus in Yugoslavia. Acta Bot. Croatica **38**, 9—12 (Sh, en).
2296. CAMPBELL, W. P.; 1985: Selection versus heat treatment as a means of obtaining plants free from specified viruses. Proc. 8th Meeting ICVG, Bari 1984. Phytopathol. Mediter. **24**, 211 (Abstr.).
2297. CARDENAS, E.; TELIZ, D.; 1983: Anatomia patológica de los cultivares de la vid (Cardinal y Salvador) y de un híbrido (LN 33) con corteza corchoza. Rev. Mexicana Fitopatol. **2** (1), 27—34.
2298. CASTELLANO, M. A.; MARTELLI, G. P.; 1984: Ultrastructure and nature of vesiculated bodies associated with isometric virus-like particles in diseased grapevines. J. Ultrastructure Res. **89**, 56—64.
2299. — —; — —; SAVINO, V.; 1983: Virus-like particles and ultrastructural modifications in the phloem of leafroll-affected grapevines. Vitis **22**, 23—39.
2300. — —; — —; — —; BOSCIA, D.; 1985: Progress in the study of the phloem-limited isometric virus-like particles associated with leafroll-diseased grapevines. Proc. 8th Meeting ICVG, Bari 1984. Phytopathol. Mediter. **24**, 165—169.
2301. CASTROVILLI, S.; SAVINO, V.; CASTELLANO, M. A.; ENGELBRECHT, D. J.; 1985: Characterization of a grapevine isolate of broadbean wilt virus. Proc. 8th Meeting ICVG, Bari 1984. Phytopathol. Mediter. **24**, 35—40.
2302. CAUDWELL, A.; 1980: L'amarillamiento de Elqui, nouvelle jaunisse de la vigne au Chili. Proc. 7th Meeting ICVG, Niagara Falls 1980 (Canada Agriculture, Research Branch) 9—13.
2303. — —; 1980: Current approaches to the etiology of grapevine diseases associated with mycoplasma- or rickettsia-like organisms (MLO or RLO). Proc. 7th Meeting ICVG, Niagara Falls 1980 (Canada Agriculture, Research Branch), 159—169.
2304. — —; 1981: La flavescence dorée de la vigne en France. Phytoma (325), 16—19.
2305. — —; 1983: L'origine des jaunisses à mycoplasmes (MLO) des plantes et l'exemple des jaunisses de la vigne. Agronomie **3**, 103—111.
2306. — —; DALMASSO, A.; 1985: Epidemiology and vectors of grapevine viruses and yellows diseases. Proc. 8th Meeting ICVG, Bari 1984. Phytopathol. Mediter. **24**, 170—176.
2307. — —; KUSZALA, C.; 1984: Bioassay techniques to assess plant pathogenicity of mycoplasma-like organisms (MLO). Ann. Microbiol. **135** A, 255—261.
2308. — —; LARRUE, J.; 1979: Examen du problème de la flavescence dorée dans le cadre de la sélection sanitaire des bois et plants de vigne. Progr. Agric. Vitic. **96**, 128—134.
2309. — —; — —; BADOUR, C.; PALGÉ, C.; BERNARD, R.; LEGUAY, M.; 1983: Développement épidémique d'un «enroulement à nervures jaunes», transmissible par la greffe, dans les vignobles de Champagne. Agronomie **3**, 1027—1036.
2310. — —; — —; FLEURY, A.; BADOUR, C.; PALGÉ, C.; 1985: Attempts to transmit 'vein yellowing leafroll' of grapevine to periwinkle and broadbean. Determination of the infection period in the Champagne region. Proc. 8th Meeting ICVG, Bari 1984. Phytopathol. Mediter. **24**, 192—196.
2311. — —; MEIGNOZ, R.; KUSZALA, C.; LARRUE, J.; FLEURY, A.; BOUDON, E.; 1982: Purification sérologique et observation ultramicroscopique de l'agent pathogène (MLO) de la flavescence dorée de la vigne dans les extraits liquides de fèves (*Vicia faba* L.) malades. C. R. Séances Soc. Biol. **176**, 723—727.
2312. — —; — —; — —; SCHNEIDER, C.; LARRUE, J.; FLEURY, A.; BOUDON, E.; 1981: Observation de l'agent pathogène (MLO) de la flavescence dorée de la vigne en milieu liquide en immunosorbant électromicroscopie (ISEM). Progr. Agric. Vitic. **98**, 835—838.
2313. — —; — —; — —; — —; — —; — —; — —; 1982: Visualisation de l'agent pathogène (MLO) d'une jaunisse végétale par immunosorbant-électromicroscopie (Abstr.). Agronomie **2**, 785.
2314. — —; — —; — —; — —; — —; — —; — —; 1982: Purification immunologique et observation ultramicroscopique en milieu liquide de l'agent pathogène (MLO) d'une jaunisse végétale, la flavescence dorée de la vigne. C. R. Séances Acad. Agricult. France **68**, 407—415.
2315. — —; — —; — —; — —; — —; — —; — —; 1983: Serological purification and visualization in the electron microscope of the grapevine Flavescence dorée pathogen in infectious vectors' extracts and in diseased plants' extracts. 4th Intern. Congr. International Organization for Mycoplasmaology (IOM), Tokyo 1982. The Yale J. Biol. Med. **56**, 936—937.

2316. CHEN, H. L.; TZENG, D. S.; CHEN, M. J.; 1981: Grapevine yellow dwarf, a new virus disease in Taiwan. *Natl. Sci. Council Monthly* **9**, 584—591 (Ch, en).
2317. CHILDRESS-ROBERTS, A. M.; RAMSDELL, D. C.; LUSCH, D.; 1983: Potential use of remote sensing in delimiting areas of virus infection in vineyards and blueberry fields in Michigan (Abstr.). *Phytopathology* **73**, 787.
2318. COIRO, M. I.; 1980: Influenza di alcuni fattori ambientali sulla riproduzione di *Xiphinema index* THORNE et ALLEN. *Atti Giorn. Nematol. Ascoli Piceno* 1980, 23—24.
2319. — — ; 1984: Biologia e riproduzione di Longidoridae vettori di virus. *Inform. Fitopatol.* **34** (7—8), 27—32.
2320. — — ; BROWN, D. J. F.; 1982: Status of some plants as hosts for individual *Xiphinema index* from populations from France, Israel, Italy and USA. *Abstr. 16th Intern. Symp. Europ. Soc. Nematol., St. Andrews, Scotland. Nematologica* **28**, 140.
2321. — — ; — — ; 1984: The status of some plants as hosts for four populations of *Xiphinema index* (Nematoda: Dorylaimoidea). *Rev. Nématol.* **7**, 283—286.
2322. — — ; — — ; LAMBERTI, F.; 1985: Reproductive capacity of single females of three populations of *Xiphinema index* THORNE et ALLEN. *Proc. 8th Meeting ICVG, Bari* 1984. *Phytopathol. Mediter.* **24**, 210 (Abstr.).
2323. — — ; LAMBERTI, F.; AGOSTINELLI, A.; 1980: Effect of temperature on the reproduction of *Xiphinema index*. *Abstr. 15th Intern. Symp. Europ. Soc. Nematol., Bari, Italy*, 35.
2324. — — ; — — ; — — ; 1980: Cultivated plants and weeds as hosts for *Xiphinema index*. *Proc. 7th Meeting ICVG, Niagara Falls 1980 (Canada Agriculture, Research Branch)* 153—155.
2325. — — ; — — ; BORGIO, M.; EGGER, E.; 1985: Reproduction of *Xiphinema index* on different grapevine rootstocks. *Proc. 8th Meeting ICVG, Bari* 1984. *Phytopathol. Mediter.* **24**, 177—179.
2326. — — ; — — ; EGGER, E.; BORGIO, M.; 1985: Longidorid nematodes from vineyards of the province of Treviso, northeastern Italy. *Proc. 8th Meeting ICVG, Bari* 1984. *Phytopathol. Mediter.* **24**, 180—182.
2327. CONTI, M.; MANNINI, F.; LENZI, R.; 1981: Indagini su virus e virosi della vite e selezione sanitaria in Liguria e Valle d'Aosta. *Atti 3° Simposio Internazionale sulla Selezione Clonale della Vite, Venezia* 1981, 351—358.
2328. — — ; MILNE, R. G.; 1985: Closterovirus associated with leafroll and stem pitting in grapevine. *Proc. 8th Meeting ICVG, Bari* 1984. *Phytopathol. Mediter.* **24**, 110—113.
2329. — — ; — — ; LUISONI, E.; BOCCARDO, G.; 1980: A closterovirus from a stem-pitting-diseased grapevine. *Phytopathology* **70**, 394—399.
2330. CONVERSE, R. H.; 1979: Recommended virus-indexing procedures for new USDA small fruit and grape cultivars. *Plant Dis. Repr.* **63**, 848—851.
2331. CORBETT, M. K.; KASDORF, G. G. F.; ENGELBRECHT, D. J.; WIID, J.; 1984: Detection of viral-like particles by electron microscopy of negatively stained extracts from grapevines. *S. Afr. J. Enol. Viticult.* **5**, 43—49.
2332. — — ; PODLEKIS, E. V.; 1985: Membrane-associated spherical particles in extracts and tissues of virus-infected grapevines. *Proc. 8th Meeting ICVG, Bari* 1984. *Phytopathol. Mediter.* **24**, 157—164.
2333. — — ; WIID, J.; 1985: Closterovirus-like particles in extracts from diseased grapevines. *Proc. 8th Meeting ICVG, Bari* 1984. *Phytopathol. Mediter.* **24**, 91—100.
2334. CORINO, L.; MORANDO, A.; NOVELLO, V.; 1981: Malformazioni su vite. *Inform. Agrario* **37**, 17703—17715.
2335. CORTE, G.; 1980: Rhizogenesis induction by vitamin D₂ on stem cuttings of *Vitis vinifera*. *Proc. 7th Meeting ICVG, Niagara Falls 1980 (Canada Agriculture, Research Branch)*, 343—348.
2336. CREDI, R.; BABINI, A. R.; 1984: Casi epidemici di Giallume della vite in Emilia-Romagna. *Vignevini* **11** (3), 35—39.
2337. — — ; — — ; 1984: Afezioni virali e virus-simili della vite. *Inform. Fitopatol.* **34** (5), 47—51.
2338. — — ; — — ; BETTI, L.; BERTACCINI, A.; GELLI, C.; 1981: A distinctive isolate of strawberry latent ringspot virus from grapevines in Italy. *Phytopathol. Mediter.* **20**, 56—63.
2339. — — ; — — ; CANOVA, A.; 1985: Occurrence of grapevine vein necrosis and grapevine vein mosaic in the Emilia-Romagna region (northern Italy). *Proc. 8th Meeting ICVG, Bari* 1984. *Phytopathol. Mediter.* **24**, 17—23.
2340. CUANY, A.; LAVERGNE, J. C.; PISTRE, R.; 1980: Action nématocide de l'aldicarbe et du sulfocarbe contre le nématode *Xiphinema index* en vignoble. *Progr. Agric. Vitic.* **97**, 126—129.
2341. CUGLISI, M.; DORE, M.; GARAU, R.; PROTA, U.; 1984: Osservazioni preliminari su alterazioni cromatiche fogliari del tipo scolorazione perinervale del vitigno Cannonau in Sardegna. *Atti. Giorn. Fitopatol., Sorrento* 1984, **3**, 293—301.

2342. DALMASSO, A.; 1982: Nématodes et désinfection du sol. *Vititechnique* (60), 6—8.
2343. — — ; BONGIOVANNI, M.; 1980: Nématodes de la vigne. *Vititechnique* (35), 15—18.
2344. — — ; EYNARD, I.; 1979: *Viticoltura moderna*. Ulrico Hoepli, Milano, 747 pp. (Includes a chapter on virus and virus-like diseases).
2345. DAMBORSKÁ, M.; KRIVÁNEK, V.; 1982: Frost hardiness of virus-free grapevine clones. *Sb. ÚVTIZ-Ochrana Rostlin* 18 (2), 89—94 (Sk, de, en, ru).
2346. DANAILOV, B.; ABRACHEVA, P.; 1981: Infectious and non-infectious chlorosis of grapevine and its control. *Lozarstvo i Vinarstvo* 30 (4), 18—23 (Bg).
2347. DAVIS, M. J.; PURCELL, A. H.; THOMSON, S. V.; 1980: Isolation media for the Pierce's disease bacterium. *Phytopathology* 70, 425—429.
2348. — — ; THOMSON, S. V.; PURCELL, A. H.; 1980: Etiological role of the xylem-limited bacterium causing Pierce's disease in almond leaf scorch. *Phytopathology* 70, 472—475.
2349. D'ERRICO, F. P.; RAGOZZINO, A.; 1980: I nematodi della vite: danni diretti ed indiretti. Possibilità di controllo. *Atti 2º Incontro Difesa Vite, Velletri 1980*, 83—97.
2350. — — ; — — ; 1980: *Xiphinema diversicaudatum* e *Longidorus macrosoma* presenti nella rizosfera di viti con manifestazioni di „Legno riccio“. *Atti Giorn. Nematol. Ascoli Piceno 1980*, 61—63.
2351. DIAS, H. F.; 1980: The grapevine Joannes-Seyve virus: cultivar susceptibility and transmission studies. *Proc. 7th Meeting ICVG, Niagara Falls 1980 (Canada Agriculture, Research Branch)* 113—117.
2352. DIMITRIJEVIĆ, B.; 1980: A new latent virus of grapevine rootstocks in Yugoslavia (preliminary report). *Zasht. Bilja* 31, 223—227 (Sh, en).
2353. — — ; 1980: Some properties of the new latent virus from grapevine rootstocks in Yugoslavia. *Proc. 7th Meeting ICVG, Niagara Falls 1980 (Canada Agriculture, Research Branch)* 21—24.
2354. — — ; 1985: Reactions of host plants to grapevine Bulgarian latent virus in mixed infection with other viruses from grapevine. *Proc. 8th Meeting ICVG, Bari 1984. Phytopathol. Mediter.* 24, 12—14.
2355. DOAZAN, J. P.; HÉVIN, M.; OTTENWALTER, M. M.; 1979: Remarques sur la théromothérapie de plants de vigne cultivés en pots. *Progr. Agric. Vitic.* 96, 146—147.
2356. DU PLESSIS, D. H.; 1983: Tobacco mosaic virus in mixed infections in South African vines. *Phytophylactica* 15, 165—167.
2357. DURQUÉTY, P. M.; 1982: Les problèmes de l'incompatibilité au greffage. II^e Colloque International sur la Multiplication de la Vigne, Bordeaux 1982, 20—22.
2358. EGGER, E.; ANTONIAZZI, P.; 1980: Comparison of the visual check in the field with indexing for detection of grapevine leafroll. *Proc. 7th Meeting ICVG, Niagara Falls 1980 (Canada Agriculture, Research Branch)*, 349—355.
2359. — — ; BORGIO, M.; 1983: Diffusione di una malattia virus-simile su „Chardonnay“ ed altre cultivar nel Veneto. *Inform. Agrario* 39, 25547—25556.
2360. — — ; — — ; ANTONIAZZI, P.; 1985: Behaviour of cv. Mission and other grapevine varieties used as leafroll indicators. *Proc. 8th Meeting ICVG, Bari 1984. Phytopathol. Mediter.* 24, 141—143.
2361. — — ; — — ; RONCADOR, I.; GOLLINO, G.; ANGELINI, U.; TOCCHETTI, G.; ANTONIAZZI, P.; 1981: Presenza di malattie da virus e virus-simili della vite nell'Italia Nord-orientale. *Atti 3º Simposio Internazionale sulla Selezione Clonale della Vite, Venezia 1981*, 327—336.
2362. — — ; GOLLINO, G.; ANTONIAZZI, P.; 1980: Research on grapevine indicator varieties suitable for detecting leafroll in northern Italy. *Proc. 7th Meeting ICVG, Niagara Falls (Canada Agriculture, Research Branch)*, 329—331.
2363. ELEKES, A.; VÁLYI, I.; 1980: Nematological study of grapevine. *Növényvédelem* 16 (2), 49—57 (Hu, de, en, ru).
2364. ENGELBRECHT, D. J.; 1980: Application of the enzyme-linked immunosorbent assay procedure to the detection of grapevine fanleaf virus. *S. Afr. J. Enol. Viticult.* 1, 103—106.
2365. — — ; 1980: Indexing grapevines for grapevine fanleaf virus by enzyme-linked immunosorbent assay. *Proc. 7th Meeting ICVG, Niagara Falls 1980 (Canada Agriculture, Research Branch)* 277—282.
2366. — — ; KASDORF, G. G. F.; 1984: Association of a closterovirus with grapevine leafroll disease. *Electron Microscopy Society of South Africa — Proceedings* 14, 45—46.
2367. — — ; — — ; 1985: Association of a closterovirus with grapevines indexing positive for grapevine leafroll disease and evidence for its natural spread in grapevines. *Proc. 8th Meeting ICVG, Bari 1984. Phytopathol. Mediter.* 24, 101—105.

2368. — — ; SCHWERTDFEGER, U.; 1979: *In vitro* grafting of grapevine shoot apices as an aid to the recovery of virus-free clones. *Phytophylactica* **11**, 183—185.
2369. ENYUTINA, M. A.; 1979: Fanleaf and yellow mosaic on grapevine rootstocks. *Sadovod. Vinogradar. Vinodel. Moldavii* **34** (10), 42—44 (Ru).
2370. — — ; 1981: Spread of grapevine fanleaf virus on American rootstock vines. *Sadovod. Vinogradar. Vinodel. Moldavii* **36** (1), 41—43 (Ru).
2371. EPPO/OEPP, 1982: Tomato ringspot virus. Data sheets on quarantine organisms, set 5. *Bull. OEPP/EPPO Bull.* **12** (1), 4 pp.
2372. — — ; 1983: Grapevine flavescence dorée mycoplasma. Data sheets on quarantine organisms, set 6. *Bull. OEPP/EPPO Bull.* **13** (1), 4 pp.
2373. — — ; 1983: Raspberry ringspot virus. Data sheets on quarantine organisms, set 6. *Bull. OEPP/EPPO Bull.* **13** (1), 6 pp.
2374. — — ; 1984: *Xiphinema americanum* COBB 1913. Data sheets on quarantine organisms. *Bull. OEPP/EPPO Bull.* **14**, 67—72.
2375. ESMENJAUD, D.; 1983: La dégénérescence infectieuse de la vigne (court-noué): transmission par le nématode *Xiphinema index* et moyens de lutte. *Progr. Agric. Vitic.* **100**, 514—515.
2376. — — ; 1984: Nématodes et court-noué: une analyse est nécessaire. *Vititechnique* (77), 16—17.
2377. EVANS, G.; 1983: Accession list of virus tested fruit varieties in Australia, 9th Edition. Department of Health, Canberra, Australia, 1—46.
2378. FALLOT, J.; RUCHAUD, G.; DURQUÉTY, P. M.; GAZEAU, J. P.; 1979: Le clone et ses réactions au greffage. III. La transmission de l'incompatibilité au greffage entre le 5 BB et *Vitis vinifera*. *Progr. Agric. Vitic.* **96**, 211—216.
2379. FAORO, F.; TORNAGHI, R.; FORTUSINI, A.; BELLI, G.; 1981: Association of a possible closterovirus with grapevine leafroll in northern Italy. *Riv. Patol. Veg. Ser. IV*, **17**, 183—189.
2380. FOGLIANI, G.; 1979: Le malattie da virus della vite. *L'Enotecnico* **15** (8), 19—24.
2381. — — ; BASAGLIA, R.; 1981: Ricerche sui cordoni endocellulari della vite con il microscopio elettronico a scansione (SEM) dotato di sonda ai raggi X. Nota II. *Inform. Fitopatol.* **31** (6), 19—22.
2382. — — ; — — ; 1981: Ulteriori ricerche sui cordoni endocellulari della vite con il Quantimet 720. — Nota III. *Inform. Fitopatol.* **31** (7/8), 37—38.
2383. — — ; NEGRI, M.; SKABIC, P.; 1979: Studio dei cordoni endocellulari (trabecole) della vite con il microscopio elettronico a scansione. Nota I. *Riv. Viticolt. Enol.* **32**, 130—154.
2384. FORER, L. B.; STOFFER, R. F.; 1981: *Xiphinema rivesi* associated with tomato ringspot virus-induced diseases in Pennsylvania. *Phytopathology* **71**, 767 (Abstr.).
2385. — — ; — — ; 1982: *Xiphinema* spp. associated with tomato ringspot virus infection of Pennsylvania fruit crops. *Plant Dis.* **66**, 735—736.
2386. FORTUSINI, A. BELLI, G.; 1979: Confronto fra viti indicatrici per la diagnosi dell'accartocciamento fogliare. *Riv. Ortoflorofrutticolt. Italiana* **63**, 23—30.
2387. — — ; TOLENTINO, D.; BELLI, G.; 1983: Sintomatologia su piante test erbacee di un ceppo di ArMV (arabis mosaic virus) isolato da vite. *Inform. Fitopatol.* **33** (7/8), 43—46.
2388. FRANKEN, B.; NIENHAUS, F.; 1980: Stecklingsanzucht vergilbungsranker Reben der Sorte Riesling während der Vegetationsperiode auf Agarnährmedien. *Wein-Wiss.* **35**, 281—288.
2389. — — ; — — ; 1980: Untersuchungen über Veränderungen im Proteinstoffwechsel vergilbungsranker Reben während der Vegetationsperiode. *Wein-Wiss.* **35**, 303—315.
2390. GALLITELLI, D.; CASTELLANO, M.; DI FRANCO, A.; RANA, G. L.; 1979: Properties of carnation yellow stripe virus, a member of the tobacco necrosis virus group. *Phytopathol. Mediter.* **18** 31—40.
2391. — — ; SAVINO, V.; SEQUEIRA, O. A. DE; 1983: Properties of a distinctive strain of Grapevine Bulgarian latent virus. *Phytopathol. Mediter.* **22**, 27—32.
2392. GANDINI, A.; MORANDO, A.; GERBI, V.; CANOVA, A.; CREDI, R.; RISSONE, M.; BOVIO, M.; 1981: Sintomi e conseguenze dell'accartocciamento fogliare della vite. *Inform. Agrario* **37**, 15917—15925.
2393. GARAU, R.; CUGUSI, M.; DORE, M.; 1982: Osservazioni su alcuni sintomi collaterali della „Malattia delle enazioni“ della vite per fini diagnostici. *Atti Giorn. Fitopatol.* 1982. Suppl. 61—68.
2394. — — ; — — ; — — ; PROTA, U.; 1985: Investigations on the yield of 'Monica' and 'Italia' vines affected by legno riccio (stem pitting). *Proc. 8th Meeting ICVG, Bari 1984. Phytopathol. Mediter.* **24**, 64—67.
2395. GARCÍA GIL DE BERNABÉ (GARICA DE LUJÁN), A.; 1979: La degeneración infecciosa de la vid. *Publicación Servicio de Extensión Agraria. Hojas Divulgadoras, Ministerio de Agricultura, Madrid, No. 8—79 HD*, 20 pp.

2396. GARCÍA DE LUJÁN, A.; MONREAL, M. G.; 1982: Aspectos de la selección de viníferas en la zona del Jerez. II Jornadas Universitarias sobre el Jerez, Universidad de Cádiz, Mayo 1982, 78—89.
2397. — —; — —; RODRÍGUEZ SÁNCHEZ, M. A.; 1982: Nuevos resultados de los ensayos de desinfección de suelos en la lucha contra la virosis de la vid. II Jornadas Universitarias sobre el Jerez, Universidad de Cádiz, Mayo 1982, 12—20.
2398. GARTEL, W.; 1985: Stem grooving (stem pitting, legno riccio)-like symptoms in vines of cv. Kerner in Germany. Proc. 8th Meeting ICVG, Bari 1984. *Phytopathol. Mediter.* **24**, 56—59.
2399. — —; 1985: Presence of pleomorphic bacteria in the xylem of 'Kerner' grapevines with stem pitting symptoms. Proc. 8th Meeting ICVG, Bari 1984. *Phytopathol. Mediter.* **24**, 152—156.
2400. GAY, G.; MANNINI, F.; GIUNCHEDI, L.; CREDI, R.; GERBI, V.; 1981: Relazioni fra attitudini agronomiche ed enologiche e condizioni sanitarie rilevate nelle prime fasi della selezione clonale della vite. Atti 3º Simposio Internazionale sulla Selezione Clonale della Vite, Venezia 1981, 392—396.
2401. GERGERICH, R.; ASHER, J. H.; RAMSDELL, D. C.; 1983: A comparison of some serological and biological properties of seven isolates of tobacco ringspot virus. *Phytopathol. Z.* **107**, 298—300.
2402. — —; RAMSDELL, D. C.; 1981: A comparison of some biological and biochemical characteristics of several tobacco ringspot virus isolates. *Phytopathology* **71**, 218 (Abstr.).
2403. GNUTOVA, R. V.; 1981: Special immunologic features of some phytopathogenic viruses and strains of them. Plant Virology. Proc. 9th Conf. Czechoslovak Plant Virologists, Brno 1981, 53—56 (Ru, en).
2404. GODINI, A.; MARTELLI, G. P.; 1983: La selezione clonale ed il miglioramento sanitario della vite in Puglia e in regioni limitrofe: tre lustri di esperienze. Atti Accad. Ital. Vite e Vino, Siena, **35**, 321—328.
2405. — —; RUSSO, G.; LA NOTTE, E.; LIUZZI, V. A.; MARTELLI, G. P.; SAVINO, V.; 1981: La selezione clonale ed il miglioramento sanitario della vite in alcune regioni del Mezzogiorno d'Italia. Atti 3º Simposio Internazionale sulla Selezione Clonale della Vite, Venezia 1981, 379—388.
2406. GOHEEN, A. C.; 1980: The California clean grape stock program. *California Agriculture* **34** (7), 15—16.
2407. — —; 1982: Grape pathogens and prospects for controlling grape diseases. Proc. Grape Wine Centenn. Symp. Davis 1980, 24—27.
2408. — —; 1984: Funzione dei portinnesti negli Stati Uniti: uso attuale, problemi e prospettive. *Riv. Viticult. Enol.* **37**, 378—385.
2409. — —; BROWN, W. M. JR.; CRESPO, F.; 1981: Incidence of virus diseases of grapes in Bolivia. *Phytopathology* **71**, 863 (Abstr.).
2410. — —; RAJU, B. C.; FRAZIER, N. W.; 1980: Alternative hosts of Pierce's disease in Napa Valley, California. Proc. 7th Meeting ICVG, Niagara Falls 1980 (Canada Agriculture, Research Branch) 171—176.
2411. — —; — —; LOWE, S. K.; NYLAND, G.; 1979: Pierce's disease of grapevines in Central America. *Plant Dis. Repr.* **63**, 788—792.
2412. GONSALVES, D.; 1979: Detection of tomato ringspot virus in grapevines: a comparison of *Chenopodium quinoa* and enzyme-linked immunosorbent assay (ELISA). *Plant Dis. Repr.* **63**, 962—965.
2413. — —; 1980: Detection of tomato ringspot virus in grapevines: irregular distribution of virus. Proc. 7th Meeting ICVG, Niagara Falls 1980 (Canada Agriculture, Research Branch) 95—106.
2414. — —; 1985: Strategies for controlling tomato ringspot virus of grapevines in New York. Proc. 8th Meeting ICVG, Bari 1984. *Phytopathol. Mediter.* **24**, 210 (Abstr.).
2415. GRANATA, G.; 1982: Deperimenti e giallume in piante di vite. *Inform. Fitopatol.* **32** (7/8), 18—20.
2416. — —; 1983: Severe damages to vineyards associated to symptoms like 'Flavescence dorée' in Sicily. Proc. 4th Intern. Congr. Plant Pathology, Melbourne, Abstr. No. 458, 115.
2417. — —; 1985: An unreported virus-like disease of grapevine cv. Italia in Sicily. Proc. 8th Meeting ICVG, Bari 1984. *Phytopathol. Mediter.* **24**, 51—53.
2418. — —; 1985: Epidemic yellows in vineyards of cv. Inzolia in Sicily. Proc. 8th Meeting ICVG, Bari 1984. *Phytopathol. Mediter.* **24**, 79—81.
2419. — —; REFATTI, E.; 1984: Indagine sulla diffusione della „necrosi della nervatura fogliari“ in alcuni vitigni ad uva da vino in Sicilia. *Inform. Fitopatol.* **34** (10), 37—39.

2420. GRENAN, S.; 1979: Rhizogenèse de bourgeons apicaux de boutures de vigne cultivées *in vitro*. *Connaiss. Vigne Vin* **13**, 125—136.
2421. — — ; 1979: Possibilités d'élimination des modifications foliaires, apparues sur la variété Grenache N. après un passage prolongé en culture *in vitro*. *Progr. Agric. Vitic.* **96**, 152—157.
2422. — — ; 1982: Implications fondamentales et appliquées de conséquences de la culture *in vitro* de *Vitis vinifera* L. Thèse Université Paris-Sud, Centre d'Orsay, 53 pp., 175 réf.
2423. — — ; 1982: Quelques réflexions à propos de modifications morphogénétiques consécutives à la culture *in vitro* chez la vigne (*Vitis vinifera* L.). *Ann. Sci. Nat. Bot., Paris*, 13^e Sér. **4**, 135—146.
2424. — — ; 1983: Conséquences de la culture *in vitro* de *Vitis vinifera*. *Vignes et Vins* (316), 11—15.
2425. — — ; 1984: Polymorphisme foliaire consécutif à la culture *in vitro* de *Vitis vinifera* L. *Vitis* **23**, 159—174.
2426. — — ; CARAUX, G.; 1984: Influence de la thérapie *in vitro* sur le polymorphisme foliaire de variétés de *Vitis vinifera* L. *Bull. Soc. Bot. Fr.* **131**, *Lettres Bot.*, 277—300.
2427. GUGERLI, P.; BRUGGER, J. J.; BOVEY, R.; 1984: L'enroulement de la vigne: mise en évidence de particules virales et développement d'une méthode immuno-enzymatique pour le diagnostic rapide. *Rev. Suisse Viticult. Arboricult. Hort.* **16**, 299—304.
2428. — — ; — — ; — — ; 1985: Grapevine leafroll disease: identification of virus particles and development of an enzyme-immunoassay for rapid diagnosis. *Proc. 8th Meeting ICVG, Bari 1984. Phytopathol. Mediter.* **24**, 209 (Abstr.).
2429. GUILLOT, R.; 1980: Les plants de vigne certifiés. *Progr. Agric. Vitic.* **98**, 445—446.
2430. HAFEZ, S. L.; RASKI, D. J.; LEAR, B.; 1981: Action of systemic nematicides in control of *Xiphinema index* on grape. *J. Nematol.* **13**, 24—29.
2431. HALE, C. R.; WOODHAM, R. C.; 1979: Effect of grapevine leafroll disease on the acid and potassium composition of Sultana grapes. *Amer. J. Enol. Viticult.* **30**, 91—92.
2432. HARIZANOV, A.; MALENIN, I.; ABRACHEVA, P.; 1981: Diseases and insects of grapevine. Publishing House 'Hristo Danoff', Plovdiv, Bulgaria, 131 pp. (Bg).
2433. HARRIS, A. R.; 1979: Beware of fanleaf nematode. *Australian Dried Fruit News* NS 7 (1), 12—13.
2434. — — ; 1979: Seasonal populations of *Xiphinema index* in vineyard soils of north-eastern Victoria, Australia. *Nematologica* **25**, 336—347.
2435. — — ; 1982: Studies on *Xiphinema index* and other dagger nematodes of grapevine in Victoria. *J. Austral. Inst. Agricult. Sci.* **48**, 142 (Abstr. of Thesis, University of Melbourne, 1982).
2436. — — ; 1983: Resistance of some *Vitis* rootstocks to *Xiphinema index*. *J. Nematol.* **15**, 405—410.
2437. HARRIS, R. E.; STEVENSON, J. H.; 1979: Virus elimination and rapid propagation of grapes *in vitro*. *International Plant propagator's Society Combined Proceedings* **29**, 95—106.
2438. HÉRITIER, J.; 1983: Présence probable de la flavescence dorée dans l'Aude. *Progr. Agric. Vitic.* **100**, 512—513.
2439. HEWITT, W. B.; 1980: Vineyard health and the scientist: Virologist, pathologist, nematologist: An essay. *Proc. 7th Meeting ICVG, Niagara Falls 1980 (Canada Agriculture, Research Branch)* 3—7.
2440. — — ; 1985: From virus-like to virus diseases of grapevines: some unresolved problems including immunity and ideas for researching them. *Proc. 8th Meeting ICVG, Bari 1984. Phytopathol. Mediter.* **24**, 1—7.
2441. — — ; BOVEY, R.; 1979: The viroses and virus-like diseases of the grapevine. A bibliographic report, 1971—1978. *Vitis* **18**, 316—376.
2442. — — ; RIVES, M.; 1979: On the preservation and use of the genetic resources in the genus *Vitis*. *Ann. Amélior. Plantes* **29**, 515—522.
2443. HOFMANN, E. L.; 1984: Untersuchungen über die Blattrollkrankheit und die Frührotverfärbung bei Klonen der Sorte „Blauer Spätburgunder“. *Wein-Wiss.* **39**, 16—29.
2444. HOPKINS, D. L.; 1979: Effects of tetracycline antibiotics on Pierce's disease of grapevine in Florida. *Proc. Fla. State Hort. Soc.* **92**, 284—285.
2445. — — ; 1979: Seasonal concentrations of bacterial plugs in grapevines severely infected with the Pierce's disease bacterium. *Phytopathology* **69**, 528 (Abstr.).
2446. — — ; 1980: Use of the pin-prick inoculation technique to demonstrate variability in virulence of the Pierce's disease bacterium. *Proc. 7th Meeting ICVG, Niagara Falls 1980 (Canada Agriculture, Research Branch)*, 177—180.
2447. — — ; 1981: Seasonal concentration of the Pierce's disease bacterium in grapevine stems, petioles, and leaf veins. *Phytopathology* **71**, 415—418.

2448. — — ; 1982: Variability in virulence of the bacterium causing Pierce's disease of grapevine. *Phytopathology* **72**, 1001 (Abstr.).
2449. — — ; 1982: Relation of Pierce's disease to a wild-type disease in citrus in the greenhouse. *Phytopathology* **72**, 1090—1092.
2450. — — ; 1983: Gram-negative, xylem-limited bacteria in plant diseases. *Phytopathology* **73**, 347—350.
2451. — — ; 1984: Plant hormones affect the development of Pierce's disease in grapevine. *Phytopathology* **74**, 628 (Abstr.).
2452. — — ; 1984: Variability of virulence in grapevine among isolates of the Pierce's disease bacterium. *Phytopathology* **74**, 1395—1398.
2453. — — ; ADLERZ, W. C.; 1980: Similarities between citrus blight and Pierce's disease of grapevine. *Proc. Fla. State Hort. Soc.* **93**, 18—20.
2454. — — ; THOMPSON, C. M.; 1981: Multiplication of virulent and avirulent Pierce's disease bacterial isolates in grapevine tissue. *Proc. 5th Intern. Conf. on Plant Pathogenic Bacteria*, Cali, Colombia, 1981, 225—234.
2455. — — ; — — ; 1984: Seasonal concentration of the Pierce's disease bacterium in 'Carlos' and 'Welder' muscadine grapes compared with 'Schuyler' bunch grape. *HortScience* **19**, 419—420.
2456. HOPP, H.; 1982: Vergilbungskrankheit des Typs Schwarzholz nun auch im südbadischen Weinbau. *Bad. Winzer* (2), 47—53.
2457. HUGLIN, P.; GUILLOT, R.; VALAT, C.; VUITTENEZ, A.; 1980: L'évaluation génétique et sanitaire du matériel clonal de la vigne. *Bull. OIV* **53**, 857—882.
2458. IKIN, R.; 1980: Accession list of virus tested fruit varieties in Australia. 7th Ed. Dept. Health Plant Quarantine, Canberra.
2459. IMADA, J.; NARISAWA, N.; 1984: Detection of grapevine fanleaf virus by enzyme-linked immunosorbent assay. *Bull. Fruit Tree Research Station (Min. Agricult. Forest. and Fisheries, Japan), Ser. E (Akitsu)* **5**, 71—76 (Ja, en).
2460. IMBROGLINI, G.; LEANDRI, A.; 1980: Distruzione delle radici con diserbanti nel reimpianto di vigneti virosati. *Ann. Ist. Sper. Patol. Veg. Roma* **6**, 15—20.
2461. IRI, M.; SHIMURA, T.; TOGAWA, H.; UENO, K.; 1982: Elimination of grapevine viruses by meristem tip culture. *Proc. 5th Intern. Congr. Plant Tissue and Cell Culture*, Tokio, 'Plant Tissue Culture 1982', 807—808.
2462. — — ; — — ; — — ; 1982: Elimination of grapevine leafroll virus by heat treatment and meristem tip culture. *Ann. Phytopathol. Soc. Japan* **48**, 685—687 (Ja, en).
2463. JAKÓ, N.; 1983: Erzeugung symptomfreier Pflanzen aus Triebspitzenmeristem blattrollkranker Stöcke bei *Vitis vinifera* L. cv. Blauer Burgunder. *Mitt. Klosterneuburg* **33**, 15—17.
2464. JANKULOVA, M.; ESKENAZY, M.; BAKARDZHEVA, N.; GEORGIEVA, P.; 1982: ELISA for the quantitative determination of grapevine fanleaf virus. *Z. Pflanzenkrankh. Pflanzensch.* **89**, 18—29.
2465. JIMENEZ, F.; 1980: Resistance to fanleaf among grape cultivars and *Vitis* species. Thesis, University of California, Davis, USA, 57 pp.
2466. — — ; GOHEEN, A. C.; 1980: The use of enzyme-linked immunosorbent assay for detection of grape fanleaf virus. *Proc. 7th Meeting ICVG, Niagara Falls 1980 (Canada Agriculture, Research Branch)*, 283—291.
2467. JOLLY, C.; 1980: Recherche de méthodes d'isolement et de caractérisation de l'agent infectieux de la flavescence dorée de la vigne. Thèse, Université de Dijon (France), 102 pp.
2468. KAHN, R. P.; WATERWORTH, H. E.; GILLAPSIE, A. G., JR.; FOSTER, J. A.; GOHEEN, A. C.; MONROE, R. L.; POVICH, W. L.; MOCK, R. G.; LUHN, C. F.; CALAVAN, E. C.; ROISTACHER, C. N.; 1979: Detection of viruses or virus-like agents in vegetatively propagated plant importations under quarantine in the United States, 1968—1978. *Plant Dis. Repr.* **63**, 775—779.
2469. KAISYN, F. V.; LEMANOVA, N. B.; MARINESKU, V. G.; 1980: Chronic diseases of grapevine and measures of mass and sanitary selection. *Sadovod. Vinogradar. Vinodel. Moldavii* **35** (8), 31—33 (Ru).
2470. — — ; MARINESKU, V. G.; 1982: Clonal and sanitary selection of grapevine. *Sadovod. Vinogradar. Vinodel. Moldavii* **37** (6), 26—29 (Ru).
2471. KALASJAN, J. A.; LITVAK, L. A.; MARINESKU, V. G.; 1979: Tubuläre Strukturen in Geweben der Weinrebe nach Infektion mit dem Virus der Reisigkrankheit (grapevine fanleaf virus). *Arch. Phytopathol. Pflanzensch.* **15**, 373—376.
2472. KAWAKAMI, T.; UEMATSU, H.; 1980: Studies on the tasteless fruit of the Koshu grapevines. *J. Agricult. Sci. Japan* **24**, 271—280 (Ja, en).

2473. KEARNS, C. G.; MOSSOP, D. W.; 1984: Detection of nepoviruses of *Vitis vinifera* in New Zealand using enzyme-linked immunosorbent assay (ELISA). *N. Z. J. Agric. Res.* **27**, 431—435.
2474. KLINGLER, J.; GUNTZEL, O.; KUNZ, P.; 1983: *Xiphinema*- und *Longidorus*-Arten (Nematoda) im schweizerischen Mittelland. *Vierteljahrsschr. Naturforsch. Gesellsch. Zürich* **128** (2), 89—114.
2475. — — ; ZWICKY, P.; 1981: Wiederauftreten von Nematoden der Gattung *Xiphinema* und von nematodenübertragenen Viruskrankheiten an Reben nach Bodenbehandlung und Brache. *Mitt. Klosterneuburg* **31**, 89—97.
2476. KOBAYASHI, T.; KAWAI, A.; NISHIO, T.; MATSUNAMI, M.; 1980: Detection of grapevine fanleaf virus and arabis mosaic virus in grapevines introduced from Europe into Japan. *Res. Bull. Plant Protect. Service, Japan* **16**, 49—57 (Ja, en).
2477. KOENIG, R.; KUNZE, L.; 1982: Identification of tobusvirus isolates from cherry in southern Germany as petunia asteroid mosaic virus. *Phytopathol. Z.* **103**, 361—368.
2478. KOLBER, M.; BECZNER, L.; PACSA, S.; LEHOCZKY, J.; 1985: Detection of grapevine chrome mosaic virus in field-grown vines by ELISA. *Proc. 8th Meeting ICVG, Bari 1984. Phytopathol. Mediter.* **24**, 135—140.
2479. — — ; FARKAS, G.; 1981: Occurrence of the latent fleck disease of grapevine in Hungary. *Kertgazdaság* **13** (1), 15—26 (Hu, en).
2480. — — ; LEHOCZKY, J.; 1983: Detection of grapevine fanleaf virus in different tissues of dormant and forced stages of vines with the application of ELISA technique. *Kertgazdaság* **15** (2), 47—51 (Hu, en).
2481. — — ; — — ; KOBZA, S.; 1983: Time of sampling and storage of leaf extracts studied on grapevine fanleaf virus (GFLV) with ELISA. *Zeszyty Problemowe Postępów Nauk. Rolniczych* (291), 173—180 (En, pl, ru).
2482. — — ; — — ; NEMETH, M.; PACSA, S.; 1980: Identification of grapevine fanleaf disease by the ELISA test. *Sb. ÚVTIZ — Ochr. Rostl.* **16**, 83—88 (Sk, de, en, ru).
2483. — — ; — — ; PACSA, S.; KOBZA, S.; 1981: Detection of grapevine fanleaf virus (GFLV) with ELISA technique in the leaf samples collected in various phenophases and in deep-frozen leaf extracts. *Kertgazdaság* **13** (2), 11—22 (Hu, de, en, ru).
2484. KOROŠEC, S.; 1979: Possibilities of supplying virus-free grapevine planting material. *Sodobno Kmetijstvo* **12** (1), 32—34 (Sn).
2485. KRAKE, L. R.; WOODHAM, R. C.; 1983: Grapevine yellow speckle agent implicated in the aetiology of vein banding disease. *Vitis* **22**, 40—50.
2486. KRIEL, G. J. LE R.; ORFFER, C. J.; BEUKMAN, E. F.; 1980: Symptomatology and anatomy of stem-grooving (Legno Riccio) in the grape vine. *S. Afr. J. Enol. Viticult.* **1** (2), 85—101.
2487. KRIVÁNEK, V.; 1979: Clonal selection of grapevine and its importance. *Proc. 1st Conf. Grapevine Recovery and Innovation of Vineyards with Virus-free Material, Modra 1979*, 53—62 (Ru, cs, en, fr).
2488. KUNUYUKI, H.; COSTA, A. S.; 1982: Studies on grapevine corky bark disease in São Paulo. *Fitopatol. Brasileira* **7** (1), 71—81 (Pt, en).
2489. KUSZALA, J.; 1981: Immunoélectrophorèse à contresens en gel d'agarose, avec des extraits de vigne (*Vitis* sp.) infectées par les virus du court-noué (grape fanleaf GFV et arabis mosaic AMV). *Agronomie* **1**, 389—390.
2490. LAMBERTI, F.; 1979: Nematodi Longidoridae di alcune isole dalmate con particolare riferimento ai vettori di virus della vite e relativi metodi di lotta. *Acta Biol.* **8**, 79—86.
2491. — — ; 1980: Taxonomic status of the nematode vectors of grapevine viruses. *Proc. 7th Meeting ICVG, Niagara Falls 1980 (Canada Agriculture, Research Branch)*, 133—137.
2492. — — ; 1981: Plant nematode problems in the Mediterranean region. *Helminthological Abstr. Ser. B, Plant Nematol.* **50**, 145—166.
2493. — — ; 1981: Combating nematode vectors of plant viruses. *Plant Dis.* **65**, 113—117.
2494. — — ; 1984: Importanza dei nematodi in viticoltura. *Notae AIVV* **1**, 52—53. *Atti Acad. Ital. Vite e Vino, Siena*, **36**, 193—204.
2495. — — ; BELL, G.; COIRO, M. I.; FORTUSINI, A.; 1980: Indagini preliminari sulla presenza di nematodi vettori di virus delle piante in tre aree di interesse agrario di Lombardia e Piemonte. *Nematol. Mediter.* **8**, 21—27.
2496. LARREA REDONDO, A.; 1980: Aportación a los estudios sobre virosis de la vid. *La Semana Vitivinícola* **35** (1756), 1065—1069.
2497. LEANDRI, A.; IMBROGLINI, G.; 1981: Distruzione delle radici con diserbanti nel reimpianto di vigneti virosati. II nota. *Ann. Ist. Sper. Patol. Veg. Roma* **7**, 47—51.
2498. LEAR, B.; GOHEEN, A. C.; RASKI, D. J.; 1981: Effectiveness of soil fumigation for control of fanleaf-nematode complex in grapevines. *Amer. J. Enol. Viticult.* **32**, 208—211.

2499. LEE, R. F.; RAJU, B. C.; NYLAND, G.; GOHEEN, A. C.; 1982: Phytoalexin(s) produced in culture by the Pierce's disease bacterium. *Phytopathology* **72**, 886—888.
2500. LEGIN, R.; BASS, P.; VUITTENEZ, A.; 1979: Une maladie de type chlorose puis rougissement foliaire automnal, accompagnée de chancres du bois de la vigne, produite par un agent de type viral très résistant à la thermothérapie, transmissible par greffage à l'indicateur «Pinot noir» (*Vitis vinifera* L.). *Ann. Phytopathol.* **11**, 136—137 (Abstr.).
2501. — —; — —; — —; 1979: Premiers résultats de guérison par thermothérapie et culture *in vitro* d'une maladie de type cannelure (legno riccio) produite par le greffage du cultivar Servant de *Vitis vinifera* sur le porte-greffe *Vitis riparia* × *V. berlandieri* Kober 5 BB. Comparaison avec diverses viroses de la Vigne. *Phytopathol. Mediter.* **18**, 207—210.
2502. LEHOCZKY, J.; 1981: The current practice of virological screening of cultivars of grapevine and the prospects of maintaining the virus-free state in cultivated vineyards. *Kertgazdaság* **13** (5), 59—77 (Hu, de, en, ru).
2503. — —; 1984: Virus diseases of grapevines. *Kertészet és Szőlészet* **33** (26), 9; (28), 8—9 (Hu).
2504. — —; 1985: Detection of grapevine chrome mosaic virus in naturally infected vines by indexing. Proc. 8th Meeting ICVG, Bari 1984. *Phytopathol. Mediter.* **24**, 129—134.
2505. — —; BECZNER, L.; 1980: Infection of grapevine by alfalfa mosaic virus. I. Transmission of the virus to woody indicators (indexing). *Kertgazdaság* **12** (2), 59—66 (Hu, de, en, ru).
2506. — —; FARKAS, G.; 1981: Occurrence of the latent fleck disease of grapevine in Hungary. *Kertgazdaság* **13**, 15—26 (Hu, de, en, ru).
2507. — —; — —; LÁZAR, J.; 1984: Detection of grapevine chrome mosaic (GCMV) by indexing with woody indicators. *Kertgazdaság* **16** (5), 7—16 (Hu, en).
2508. — —; KÖLBER, M.; BECZNER, L.; PACSA, S.; 1984: Distribution of the grapevine chrome mosaic disease in Hungary and detection of its virus (GCMV) in the leaves of outdoor vines by ELISA technique. *Kertgazdaság* **16** (4), 41—52 (Hu, en).
2509. — —; — —; FARKAS, G.; 1983: Effect of spring and summer high temperature on detection of grapevine fanleaf virus and yellow mosaic virus with ELISA. *Kertgazdaság* **15** (2), 37—45 (Hu, en).
2510. — —; SAROSPATAKI, G.; DEVERGNE, J. C.; CARDIN, L.; KUSZALA, J.; VUITTENEZ, A.; 1979: Caractérisation d'une souche du virus de la mosaïque jaune chrome de la vigne (GCMV) isolée en Hongrie de vignes non panachées. Nouvelle évidence d'une parenté sérologique éloignée entre ce virus et celui des anneaux noirs de la tomate (TBRV). *Ann. Phytopathol.* **11**, 567—568.
2511. — —; VANEK, G.; 1984: Gesundheit der Rebe von Viruserkrankungen und Erhaltung ihres Gesundheitszustandes in den Weingärten. *Vinohrad* **22**, 271—273 (Sk).
2512. LEMANOVA, N. B.; MARINESKU, V. G.; 1984: Obtaining virus- and bacteria-free grapevine planting material in Moldavia. In: KARTJA MOLDOVENSJASKE (Ed.): Some news about grapevine growing in nurseries in Hungary and Moldavia. Kishinev, 149—161 (Ru).
2513. MACHICHI, E.; STOJAN, E.; 1979: Propagation methods of virus-free grapevine material used in Romania. Proc. 1st Conf. Grapevine Recovery and Innovation of Vineyards with Virus-free Material, Modra 1979, 127—134 (Ru, en, fr, sk).
2514. — —; 1980: Methods of rapid multiplication of virus-free grapevine planting material used in Romania. *Prod. Veg. Hort.* **29** (5), 24—30 (Ro).
2515. MCKENRY, M. V.; 1982: Strategies for control of nematodes attacking grapevines. Proc. Grape Wine Centenn. Symp., Davis 1980, 51—52.
2516. MAGAREY, P. A.; WACHTEL, M. F.; 1982: The Rhine Riesling problem — recent findings. *Austral. Grapegrower Winemaker* (220), 78—80.
2517. — —; — —; EMMETT, R. W.; 1983: Australian Vine Yellows — a new name. *Austral. Grapegrower Winemaker* (232), 32—33.
2518. MALINOVSKAYA, L. P.; SKRIPAL, I. G.; 1984: Studies of phytopathogenic mycoplasmas by the complement fixation test. *Mikrobiol. Zh.* **46** (3), 58—64 (Ru, en).
2519. MARINESKU, V. G.; 1979: Production of virus-free planting material of grapevine in France. Sadovod. Vinogradar. Vinodel. *Moldavii* **34** (6), 57—60 (Ru).
2520. — —; 1980: Diagnosis of grapevine virus diseases in the Moldavian SSR. In: KLEINHEMPEL, H. (Chief Ed.): Probleme der Pflanzenvirologie. Tag.-Ber., Akad. Landwirtsch.-Wiss. DDR, Berlin 1980, (184), 409—418 (Ru, de, en).
2521. — —; BONDARCHUK, V. V.; 1980: Results of research on grapevine virus diseases in Moldavia and selection of virus-free material. Conf. on Scientific and Technical Progress in Viticulture and Enology. 70th anniversary of the Moldavian Research Institute of Viticulture and Enology. Kishinev 1980, Part I, 51—52 (Ru).

2522. — —; — —; KOSAKOVSKAYA, O. I.; LITVAK, L. A.; 1981: Virusstämme der Reisigkrankheit an Weinreben in Moldavien. In: Plant virus strains and their practical use, Latvian Agricultural Academy, Elgava (191), 92—96 (Ru, de).
2523. — —; KOSAKOVSKAYA, O. I.; 1979: Diagnostic methods of detecting virus diseases used in sanitary selection of grapevine. Proc. 1st Conf. Grapevine Recovery and Innovation of Vineyards with Virus-free Material, Modra 1979, 71—76 (Ru, en, fr, sk).
2524. — —; LEMANOVA, N. B.; 1983: Phytosanitary selection of grapevine. Sadovod. Vinogradar. Vinodel. Moldavii **38** (1), 41—42 (Ru).
2525. — —; — —; BONDARCHUK, V. V.; SULTANOVA, O. D.; 1982: Methods for curing selected material of chronic diseases, and results. In: Selection of resistant varieties of grapevine. Publ. Moldavian Research Institute of Viticulture and Enology, Shtiintsa Printing House, Kishinev, 93—99 (Ru).
2526. — —; ZEMTCHIK, E. Z.; VERDEREVSKAYA, T. D.; 1984: Grapevine fleck (distribution, diagnosis, etiology). In: Virus diseases of cultivated plants in Moldavia. Shtiintsa Printing House, Kishinev, 106—114 (Ru).
2527. MARTELLI, G. P.; 1979: Identification of virus diseases of grapevine and production of disease-free plants. *Vitis* **18**, 127—136.
2528. — —; 1980: Il miglioramento sanitario della vite in Italia: Attualità e prospettive. *Atti Giorn. Fitopatol.* 1980. Suppl. (2), 139—146.
2529. — —; 1980: Diagnosi dei virus e delle virosi della vite. *Atti Giorn. Nematol. Ascoli Piceno* 1980, 33—40.
2530. — —; 1980: Aspetti fitopatologici della coltura della vite ad uva da tavola in Puglia. *Notiz. Agric. Reg.* **8** (5), 8—13.
2531. — —; 1980: New data on known virus and virus-like diseases of the grapevine. Proc. 7th Meeting ICVG, Niagara Falls 1980 (Canada Agriculture, Research Branch), 27—34.
2532. — —; 1981: Tombusviruses. In: KURSTAK, E. (Ed.): Handbook of Plant Virus Infections. Comparative diagnosis. Elsevier/North-Holland Biomedical Press, Amsterdam, 61—90.
2533. — —; 1982: Recent studies on virus diseases of grapevine in Europe with special reference to Italy. Proc. Grape Wine Centenn. Symp., Davis 1980, 28—35.
2534. — —; 1983: Virus e virosi della vite e degli agrumi: situazione italiana e problemi di quarantena. *Inform. Fitopatol.* **33** (2), 34—37.
2535. — —; DI FRANCO, A.; RUSSO, M.; SAVINO, V.; 1980: The ultrastructure of grapevine Bulgarian virus infections in natural and artificial hosts. Proc. 7th Meeting ICVG, Niagara Falls 1980 (Canada Agriculture, Research Branch), 217—221.
2536. — —; GODINI, A.; LA NOTTE, E.; CASSANO, A.; SAVINO, V.; RUSSO, G.; SANTORO, M.; ROCA, F.; 1980: Il punto sulla selezione clonale e sanitaria e sul risanamento della vite in Puglia, Basilicate ed Irpinia. *Notiz. Agric. Reg.* **8** (12), 2—10.
2537. — —; RUSSO, F.; 1983: La certificazione della vite e degli agrumi in Italia: attualità e prospettive. *Inform. Fitopatol.* **33** (2), 83—88.
2538. — —; SALERNO, M.; 1980: Le principali alterazioni della vite per uva da tavola con particolare riferimento al Mezzogiorno. *Il Ponte Concordato Italiano Grandine* 1980, 31—39.
2539. — —; SAVINO, V.; ABRACHEVA, P.; ROSCIGLIONE, B.; 1979: Necrosi delle nervature della vite in Italia e in Bulgaria. *Vignevini* **6** (4), 74—75.
2540. MARTÍNEZ, A.; PADILLA, V.; 1981: Selección clonal y sanitaria de la uva de mesa. I. Jornadas sobre la uva de mesa, Novelda (Spain), 4—20.
2541. — —; — —; TOLEDO, J.; 1982: Premières observations sur la sélection clonale et sanitaire de variétés tardives de raisin de table en Espagne. Symposium International «Raisin de table, raisin sec», Heraklion (Crète). OIV (Paris) 1982, 75—79.
2542. MASAHITO, I.; TOMIO, S.; HIDEO, T.; KATSUYASU, U.; 1982: Elimination of grapevine viruses by meristem tip culture. Proc. 5th Congr. Plant and Cell Tissue Culture, Tokyo and Lake Yamanake, Japan 1982, 807—808.
2543. MAYHEW, D.; 1981: Index of plant virus diseases in California. Department of Food and Agriculture, 49 pp.
2544. MEIGNOZ, R.; CAUDWELL, A.; KUSZALA, C.; SCHNEIDER, C.; LARRUE, J.; FLEURY, A.; BOUDON, E.; 1982: Serological purification and visualization in the electron microscope of the grapevine flavescence dorée (FD) pathogen (MLO) in diseased plants' and infectious vectors' extracts. 4th Intern. Congr. of the International Organization for Mycoplasmaology (IOM), Tokyo, September 1982, 180 (Abstr. P 130). See also ref. 2315.
2545. MENDONÇA, A. DE; CÔRTE, G.; 1980: Notes on 'Lenho rugoso' (Rugose wood) of grapevine in Madeira Islands. Proc. 7th Meeting ICVG, Niagara Falls 1980 (Canada Agriculture, Research Branch), 81—86.

2546. — — ; SEQUEIRA, O.A. DE; MOTA, M.; PEREIRA, A. M. N.; SIMOES, V.; 1980: Detection and identification of CM-112 grapevine virus by immune electron microscopy. *Ciênc. Biol. Mol. Cell. Biol.* **5** (4), 30 a (Abstr.).
2547. — — ; — — ; — — ; — — ; 1980: Applicability of immunosorbent electron microscopy (ISEM) for the detection and identification of CM 112 virus in grapevine. Proc. 7th Meeting ICVG, Niagara Falls 1980 (Canada Agriculture, Research Branch) 245—250.
2548. MEREDITH, C. P.; LIDER, L. A.; RASKI, D. J.; FERRARI, N. L.; 1982: Inheritance of tolerance to *Xiphinema index* in *Vitis* species. *Amer. J. Enol. Viticult.* **33**, 154—158.
2549. MICHON, E.; 1982: Virus, pollen, pollinies. *Agronomie* **2**, 783 (Abstr.).
2550. — — ; 1982: Virus, pollens, pollinies. *Rev. Cytol. Biol. Veg., Le Botaniste* **5** (1), 31—41.
2551. MIKUSOVÁ, A.; 1979: Technique and effectiveness of thermotherapy. Proc. 1st Conf. Grapevine Recovery and Innovation of Vineyards with Virus-free Material, Modra 1979, 93—100 (Ru, en, fr, sk).
2552. MILHOLLAND, R. D.; HUANG, P.-Y.; CLAYTON, C. N.; JONES, R. K.; 1981: Pierce's disease on muscadine grapes in North Carolina. *Plant Dis.* **65**, 73—74.
2553. MILKUS, B. N.; 1980: Studies on a mycoplasma strain isolated from a grapevine affected with vein necrosis. In: Plant virus strains and their practical use, Latvian Agricultural Academy, Elgava (191), 96—100. (Ru, En).
2554. — — ; BOBYREVA, I. V.; ENYUTINA, M. A.; 1984: Grapevine vein mosaic in Ukraine. *Sadovod. Vinogradar. Vinodel. Moldavii* (5), 33—34 (Ru).
2555. — — ; KUDINSKAYA, E. V.; 1980: Mycoplasma-like diseases of grapevine and their vectors. Conf. on Scientific and Technical Progress in Viticulture and Enology. 70th anniversary of the Moldavian Research Institute of Viticulture and Enology, Kishinev 1980, Part II, 134—135 (Ru).
2556. — — ; — — ; 1980: Nematodes vectors of viral diseases of grapevine in the Ukraine. *Nauchnye Doklady Vysshiei Shkoly, Biologicheskii Nauki* **11** (203), 32—35 (Ru).
2557. MILNE, R. G.; 1980: Some observations and experiments on immunosorbent electron microscopy of plant viruses. 5th International Symposium on Virus diseases of ornamental plants, Bad Harzburg 1980, *Acta Horticulturae* **110**, 129—135.
2558. — — ; CONTI, M.; LESEMANN, D. E.; STELLMACH, G.; TANNE, E.; COHEN, J.; 1984: Closterovirus-like particles of two types associated with diseased grapevines. *Phytopathol. Z.* **110**, 360—368.
2559. MONETTE, P. L.; 1983: Virus eradication through *in vitro* techniques. Intern. Plant Propagators' Soc. Combined Proc. **33**, 90—100.
2560. — — ; 1984: Virus eradication: *in vitro* heat therapy; *in vitro* drug therapy. Research Highlight 1984, Saanichton Research and Plant Quarantine Station, Sidney, B.C., Canada, 4 pp.
2561. MONTERO, F.; 1981: Selección clonal sanitaria de la variedad Monastrel. *Viña y Vino* **6**, 34—37.
2562. MORANDO, A.; CORINO, L.; NOVELLO, V.; 1981: Pigmentazioni anormali su vite. *Inform. Agrario* **37**, 18175—18192.
2563. — — ; — — ; — — ; 1982: Disseccamenti su vegetazione di vite. *Inform. Agrario* **38**, 18815—18838.
2564. MORETTI, F.; MANCINI, G.; COTRONEO, A.; QUAGLINO, A.; ALBANO, P.; 1980: Aspetti nematologici della viticoltura nella Valle d'Aosta. *Vignevini* **7** (7—8), 47—52.
2565. MORRIS-KRSINICH, B. A. M.; FORSTER, R. L. S.; MOSSOP, D. W.; 1983: The synthesis and processing of the nepovirus grapevine fanleaf virus proteins in rabbit reticulocyte lysate. *Virology* **130**, 523—526.
2566. MOUTOUS, G.; 1979: Les cicadelles de la vigne: méthodes de lutte. *Progr. Agric. Vitic.* **96**, 232—235.
2567. — — ; 1983: Vigne — Les cicadelles. *Phytoma* (350), 26—27.
2568. MUR, G.; 1979: Thermothérapie de variétés de *Vitis vinifera* par la méthode de culture *in-vitro*. Quelques observations — Quelques résultats. *Progr. Agric. Vitic.* **96**, 148—151.
2569. MURANT, A. F.; 1981: Nepoviruses. In: KURSTAK E. (Ed.): Handbook of Plant Virus Infections. Comparative Diagnosis. Elsevier/North-Holland Biomedical Press, Amsterdam, 197—238.
2570. NAGY, B.; 1980: Practical aspects of the program on the production of virus-free propagating material in Hungary. *Acta Phytopathol. Acad. Sci. Hung.* **15**, 33—37, and *Acta Horticulturae* (94), 33—37 (Publ. 1981).
2571. NAMBA, S.; YAMASHITA, S.; DOI, Y.; YORA, K.; 1979: A small spherical virus associated with the ajinashika disease of Koshu grapevine. *Ann. Phytopathol. Soc. Japan* **45**, 70—73 (En).

2572. — — ; — — ; — — ; — — ; 1981: Direct fluorescence detection method (DFD method) for diagnosing yellows-type virus diseases and mycoplasma diseases of plants. *Ann. Phytopathol. Soc. Japan* **47**, 258—263 (Ja, en).
2573. — — ; — — ; — — ; — — ; TERAI, Y.; YANO, R.; 1979: Grapevine leafroll virus, a possible member of closteroviruses. *Ann. Phytopathol. Soc. Japan* **45**, 497—502.
2574. NAVAS, A.; ARIAS, M.; 1983: Los nematodos transmisores de virus en los cultivos de la Rioja y su relación con las enfermedades de la vid. Resúmenes de comunicaciones presentadas a la IV, V y VI reunión del Grupo de Fitopatología de la Sociedad Española de Microbiología. *Monografías INIA* (48), 117.
2575. — — ; — — ; BELLO, A.; 1983: Estudio de los factores que influyen en la distribución de los nematodos ectoparasitos transmisores de virus del género *Xiphinema* en la Región central. Resúmenes de comunicaciones presentadas a la IV, V y VI reunión del Grupo de Fitopatología de la Sociedad Española de Microbiología. *Monografías INIA* (48), 22—23.
2576. NICITA, G.; 1981: I nematodi viventi nella rizosfera della vite nel Lazio. *Inform. Fitopatol.* **31** (4), 11—12.
2577. NICOLIER, J.; 1979: Der Heida und die Rillenkrankheit. *Schweiz. Z. Obst- Weinbau* **115**, 288—290.
2578. NIEDER, G.; 1982: Die Reisigkrankheit — Eine Virose des Weinstockes. *Pflanzenarzt* **35**, 72—73.
2579. — — ; 1983: Die Enationenkrankheit der Rebe erstmals auch in Österreich nachgewiesen. *Pflanzenarzt* **36**, 97—98.
2580. — — ; 1983: Die infektiöse Panaschure der Rebe. *Pflanzenarzt* **36**, 111—112.
2581. — — ; 1984: Entwurf eines Bestimmungsschlüssels für Kümmerwuchs und Absterbeerscheinung an Reben. *Pflanzenarzt* **37**, 70—73.
2582. NIELSON, M. W.; GILL, R. J.; 1984: *Amphigonalia bispinosa*, a new leafhopper species from California and the replacement vector species for *Amphigonalia severini* (DELONG) (Homoptera: Cicadellidae: Cicadellinae). *J. Kansas Entomol. Soc.* **57**, 400—404.
2583. NIENHAUS, F.; VON DER BRELIE, D.; 1982: Flavannachweis als Färbeverfahren zur Vorselektion blattrollkranker Reben. *Z. Pflanzenkrankh. Pflanzensch.* **89**, 720—729.
2584. NISHIO, T.; KOBAYASHI, T.; KATO, M.; 1981: The detection of grapevine fanleaf virus by enzyme-linked immunosorbent assay (ELISA). *Res. Bull. Plant. Protect. Service, Japan* **17**, 43—50 (Ja, en).
2585. NOMÉ, S. F.; RAJU, B. C.; GOHEEN, A. C.; NYLAND, G.; DOCAMPO, D.; 1980: Enzyme-linked immunosorbent assay for Pierce's disease bacteria in plant tissues. *Phytopathology* **70**, 746—749.
2586. NOVÁK, F. J.; 1980: Vermehrung, Virustherapie und Veredlung von Reben durch Explantatkulturen. *Vinohrad* **18**, 30—31 (Cs).
2587. — — ; JUKOVÁ, Z.; 1980: Hormonal regulation of the development of isolated grapevine shoot tips under *in vitro* conditions. *Sb. ÚVTIZ-Ochr. Rostl.* **16**, 241—252 (Cs, de, en, ru).
2588. NOVÁK, J.; 1982: The influence of viruses on the growth rhythm in *Vitis vinifera*. *Incompatibility Newsletter*, 1982 (14), 23—28.
2589. NOVÁK, J. B.; LANZOVÁ, J.; 1980: Demonstration of the tomato bushy stunt virus on grapevine cv. Neuburg. *Sb. ÚVTIZ-Ochr. Rostl.* **16**, 97—100 (Cs, de, en, ru).
2590. PADILLA, V.; 1979: Trascendencia de los virus de la vid en la viticultura mundial: importancia y selección sanitaria. *An. INIA, Ser. Protect. Veg.* 1979 (12), 33—41.
2591. — — ; MARTÍNEZ, A.; 1979: Virosis de la vid. *Monografía de la Caja de Ahorros de Alicante y Murcia*, 19 pp.
2592. PANAYOTOU, P.; 1980: Grapevine virus diseases in Greece. *Geotecnia* **2**, 18—24 (Gr, en).
2593. PAREDO, J.; 1984: Selección clonal y sanitaria de las viníferas cultivadas en Catalunya. *Viña y Vino* **19**, 52—53.
2594. PEARSON, R. C.; POOL, R. M.; GONSALVES, D.; GOFFINET, M. C.; 1985: Occurrence of flavescence dorée-like symptoms on 'White Riesling' grapevines in New-York, USA. *Proc. 8th Meeting ICVG, Bari 1984. Phytopathol. Mediter.* **24**, 82—87.
2595. PEDROSO, E. I.; SEQUEIRA, O. A. DE; 1982: Ultrastructural changes caused by corky bark disease of grapevine. Preliminary results. *Ciênc. Biol. Mol. Cell. Biol.* **6**, 65 a (Abstr. 21).
2596. PEJČINOVSKI, F.; 1979: Grapevine vein mosaic in Prokupac variety (preliminary report). *Zasht. Bilja* **30**, 141—147 (Sh, fr).
2597. PEÑA-IGLESIAS, A.; 1980: Ultrastructure of infected grape cells. *Proc. 7th Meeting ICVG, Niagara Falls 1980 (Canada Agriculture, Research Branch)*, 183—189.
2598. — — ; AYUSO, P.; 1980: Shoot apex (meristem) micrografts and indexing of infected grapevine varieties at the same time. *Proc. 7th Meeting ICVG, Niagara Falls 1980 (Canada Agricul-*

- ture, Research Branch), 333—338.
2599. PEREZ-CAMACHO, F.; 1981: Importancia y distribución de enfermedades de etiología supuestamente viral, en viñedos de la zona de denominación de origen „Montilla-Moriles“. An. INIA, ser. Agrícola (15), 151—156.
2600. PERRY, R. L.; BOWEN, H. H.; 1980: Grape cultivar evaluation in central Texas. HortScience **15**, 282 (Abstr.).
2601. PETERSON, D. H.; 1980: Soil-borne viruses, grapevine decline, winter injury. The Vinifera Wine Growers' J. **7** (1), 55—57.
2602. PIAZZOLLA, P.; SAVINO, V.; CASTELLANO, M. A.; MUSCI, D.; 1985: A comparison of grapevine yellow vein virus and a grapevine isolate of tomato ringspot virus. Proc. 8th Meeting ICVG, Bari 1984. Phytopathol. Mediter. **24**, 44—50.
2603. POCSAI, E.; 1981: Occurrence of grapevine Bulgarian latent virus in Hungary. Acta Phytopathol. Acad. Sci. Hung. **16**, 349—354.
2604. PODLECKIS, E. V.; CORBETT, M. K.; 1982: Tomato ringspot virus associated with little grape disease of Vidal 256 grapevines. Phytopathology **72**, 710 (Abstr.).
2605. — — ; — — ; 1984: Detection of viral-like particles in grapevine extracts. Phytopathology **74**, 757 (Abstr.).
2606. POLINKOVSKII, A. I.; 1980: Nematode vectors of grapevine viruses and development of control measures against them in the Moldavian SSR. In: KLEINHEMPPEL, H. (Chief Ed.): Probleme der Pflanzenvirologie. Tag.-Ber., Akad. Landwirtsch.-Wiss. DDR, Berlin 184, 303—312 (Ru, de, en).
2607. POP, I. V.; 1979: Yellow vein mosaic of the grapevine, a new soil-borne virus disease in Romania. An. Inst. Cercet. Prot. Plant. **15**, 21—26 (Ro, en, ru).
2608. — — ; 1980: Yellow vein mosaic of grapevine. Prod. Veg. Hort. **29** (7), 25—26 (Ro).
2609. POZDENA, J.; FILIGAROVA, M.; VANEK, G.; MIKUSOVA, A.; 1979: Sero-reactions in *Chenopodium quinoa* WILLD. infected by grapevine fanleaf virus in different periods of time after infection. Proc. 1st Conf. Grapevine Recovery and Innovation of Vineyards with Virus-free Material, Modra 1979, 87—92 (Ru, en, fr, sk).
2610. — — ; — — ; — — ; — — ; 1981: Serological investigation of the alfalfa mosaic virus distribution on grapevine in Czechoslovakia. Plant Virology. Proc. 9th Conf. of the Czechoslovak Plant Virologists, Brno 1981, 137—140 (En, ru).
2611. PROTA, U.; GARAU, R.; CUGUSI, M.; 1980: Quantitative aspects of the yield of grapevines affected by enation disease in Sardinia. Proc. 7th Meeting ICVG, Niagara Falls 1980 (Canada Agriculture, Research Branch), 41—49.
2612. — — ; — — ; — — ; 1981: Studies on some variable characters of grapevines affected by enation disease in Sardinia. Phytopathol. Mediter. **20**, 7—12.
2613. — — ; — — ; — — ; DORE, M.; 1985: Investigations on a vein banding disease of grapevine in Sardinia. Proc. 8th Meeting ICVG, Bari 1984. Phytopathol. Mediter. **24**, 24—28.
2614. PURCELL, A. H.; 1979: Leafhopper vectors of xylem-borne plant pathogens. In: MARAMOROSCH, K.; HARRIS, K. F. (Eds): Leafhopper vectors and plant disease agents. Academic Press, New York, 603—625.
2615. — — ; 1979: Role of weed management in Pierce's disease and almond leaf scorch disease. Phytopathology **69**, 1043 (Abstr.).
2616. — — ; 1979: Control of the blue-green sharpshooter and effects on the spread of Pierce's disease of grapevines. J. Econ. Entomol. **72**, 887—892.
2617. — — ; 1980: Almond leaf scorch: leafhopper and spittlebug vectors. J. Econ. Entomol. **73**, 834—838.
2618. — — ; 1980: Environmental therapy for Pierce's disease of grapevines. Plant Dis. **64**, 388—390.
2619. — — ; 1981: Vector preference and inoculation efficiency as components of resistance to Pierce's disease in European grape cultivars. Phytopathology **71**, 429—435.
2620. — — ; 1982: Insect vector relationships with prokaryotic plant pathogens. Ann. Rev. Phytopathol. **20**, 397—417.
2621. — — ; 1982: Advances in the understanding of Pierce's disease and its vectors. Proc. Grape Wine Centenn. Symp. Davis 1980, 46—50.
2622. — — ; FINLAY, A.; 1979: Evidence for noncirculative transmission of Pierce's disease bacterium by sharpshooter leafhoppers. Phytopathology **69**, 393—395.
2623. — — ; — — ; McLEAN, D. L.; 1979: Pierce's disease bacterium: mechanism of transmission by leafhopper vectors. Science **206**, 839—841.
2624. QUACQUARELLI, A.; 1984: I Nepovirus, caratteristiche e biologia. Inform. Fitopatol. **34** (6), 57—63.

2625. QUERFURTH, G.; PAUL, H. L.; 1979: Protein A-coated latex-linked antisera (PALLAS): new reagents for a sensitive test permitting the use of antisera unsuitable for the latex test. *Phytopathol. Z.* **94**, 282—285.
2626. RAJU, B. C.; GOHEEN, A. C.; 1981: Relative sensitivity of selected grapevine cultivars to Pierce's disease bacterial inoculations. *Amer. J. Enol. Viticult.* **32**, 155—158.
2627. — —; — —; FRAZIER, N. W.; 1983: Occurrence of Pierce's disease bacteria in plants and vectors in California. *Phytopathology* **73**, 1309—1313.
2628. — —; — —; TELIZ, D.; NYLAND, G.; 1979: Occurrence of Pierce's disease of grapevines in Mexico. *Phytopathology* **69**, 919 (Abstr.).
2629. — —; — —; — —; — —; 1980: Pierce's disease of grapevines in Mexico. *Plant Dis.* **64**, 280—282.
2630. — —; NOMÉ, G. F.; DOCAMPO, D. M.; GOHEEN, A. C.; NYLAND, G.; LOWE, S. K.; 1980: Alternative hosts of Pierce's disease of grapevines that occur adjacent to grape growing areas in California. *Amer. J. Enol. Viticult.* **31**, 144—148.
2631. — —; WELLS, J. M.; MIRCETIC, S. M.; NYLAND, G.; 1984: Pathogenic relationships between Pierce's disease and phony peach bacteria. *Phytopathology* **74**, 857 (Abstr.).
2632. RAMSDELL, D. C.; ANDREWS, R. W.; GILLETT, J. M.; MORRIS, C. E.; 1979: A comparison between enzyme-linked immunosorbent assay (ELISA) and *Chenopodium quinoa* for detection of peach rosette mosaic virus in 'Concord' grapevines. *Plant Dis. Repr.* **63**, 74—78.
2633. — —; BIRD, G. W.; GILLETT, J. M.; ROSE, L. M.; 1983: Superimposed shallow and deep soil fumigation to control *Xiphinema americanum* and peach rosette mosaic virus reinfection in a 'Concord' vineyard. *Plant Dis.* **67**, 625—627.
2634. — —; GILLETT, J. M.; 1981: Peach rosette mosaic virus in highbush blueberry. *Plant Dis.* **65**, 757—758.
2635. — —; — —; 1985: Relative susceptibility of American, French hybrids and European grape cultivars to infection by peach rosette mosaic virus. Proc. 8th Meeting ICVG, Bari 1984. *Phytopathol. Mediter.* **24**, 41—43.
2636. — —; STACE-SMITH, R.; 1980: A serological and physico-chemical comparison between blueberry leaf mottle virus and grapevine Bulgarian latent virus. Proc. 7th Meeting ICVG, Niagara Falls 1980 (Canada Agriculture, Research Branch), 119—129.
2637. — —; — —; 1980: Blueberry leaf mottle, a new disease of highbush blueberry. *Acta Horticulturae* **95**, 37—38.
2638. — —; — —; 1981: Physical and chemical properties of the particles and ribonucleic acid of blueberry leaf mottle virus. *Phytopathology* **71**, 468—472.
2639. RASKI, D. J.; GOHEEN, A. C.; LIDER, L. A.; MEREDITH, C. P.; 1983: Strategies against grapevine fanleaf virus and its nematode vector. *Plant Dis.* **67**, 335—339.
2640. — —; JONES, N. O.; HAFEZ, S. L.; KISSLER, J. J.; LUVISI, D. A.; 1981: Systemic nematicides tested as alternatives to DBPC. *California Agriculture* **35** (5/6), 10—12.
2641. RAZZHIVIN, A. A.; MARINESKU, V. G.; 1984: Grapevine virus diseases and their control. *Informlistok Kazniinti* **178**, 5 pp. (Ru).
2642. REFATTI, E.; GRANATA, G.; 1980: Distribution of grapevine fleck disease in Sicily and reaction of some indicators. Proc. 7th Meeting ICVG, Niagara Falls 1980 (Canada Agriculture, Research Branch), 35—39.
2643. — —; — —; BAMBARA, G.; PICCIOLO, F.; ROMEO, S.; MARCHESI, F.; 1981: Considerazioni sulle malattie da virus della vite riscontrate in Sicilia nella fase di preselezione. *Atti 3° Simposio Internazionale sulle Selezione Clonale della Vite, Venezia 1981*, 363—369.
2644. — —; — —; — —; — —; ZAPPALÀ, A.; GRASSO, S.; 1979: Importanza e frequenza delle malattie da virus in alcune aree viticole della Sicilia. *Riv. Patol. Veg. Ser. IV*, **15**, 79—90.
2645. REYNOLDS, S. L.; CORBETT, M. K.; 1980: The association of tobacco ringspot virus with decline of Maryland grown grapevines. *Phytopathology* **70**, 692 (Abstr.).
2646. — —; — —; 1980: Electron microscopy of viral-like particles in Chardonnay grapes. Proc. 7th Meeting ICVG, Niagara Falls 1980 (Canada Agriculture, Research Branch), 205—210.
2647. ROBERTS, I. M.; BROWN, D. J. F.; 1980: Detection of six nepoviruses in their nematode vectors by immunosorbent electron microscopy. *Ann. Appl. Biol.* **96**, 187—192.
2648. ROCCA, F.; 1980: I nematodi di importanza economica in viticoltura. *Atti Giorn. Nematol. Ascoli Piceno 1980*, 21—31.
2649. — —; 1984: Nematodi vettori di virus e relativa lotta. *Inform. Fitopatol.* **34** (7/8), 33—43.
2650. — —; LANDRISCIANA, S.; LAMBERTI, F.; 1984: Risultati preliminari di lotta contro *Xiphinema index* in un vigneto dell'Italia meridionale. *Atti Giorn. Fitopatol.* **1984** (2), 545—549.
2651. ROSCIGLIONE, B.; CASTELLANO, M. A.; 1985: Further evidence that mealybugs can transmit gra-

- pevine virus A (GVA) to herbaceous hosts. Proc. 8th Meeting ICVG, Bari 1984. Phytopathol. Mediter. **24**, 186—188.
2652. — — ; — — ; MARTELLI, G. P.; SAVINO, V.; CANNIZZARO, G.; 1983: Mealybug transmission of grapevine virus A. *Vitis* **22**, 331—347.
2653. ROSENBERGER, D. A.; 1982: Fastidious prokaryotes: epidemiology of the hidden pathogens. In: MOUNT, M. S.; LACY, G. H. (Eds): *Phytopathogenic prokaryotes*, Vol. 2, Academic Press, New York, 71—100.
2654. RUDEL, M.; 1979: Nematologische Untersuchungen. Jahresber. 1978, Landes-Lehr- und Forschungsanstalt für Landwirtschaft, Weinbau und Gartenbau, Neustadt/Weinstr., 88—93.
2655. — — ; 1979: Einige Erfahrungen zur chemischen Bodenentseuchung im Weinbau gegen virusübertragende Nematoden. Dt. Weinbau-Jahrb. **29**, 153—158.
2656. — — ; 1979: Kann man auf eine chemische Bodenentseuchung verzichten? Wein-Wiss. **34**, 106—115.
2657. — — ; 1980: Nematologische Untersuchungen. Jahresber. 1979, Landes-Lehr- und Forschungsanstalt für Landwirtschaft, Weinbau und Gartenbau, Neustadt/Weinstr., 92—99.
2658. — — ; 1980: Bodenentseuchung bei Neuanlagen: ja oder nein? Dt. Weinbau **35**, 343—344.
2659. — — ; 1980: *Xiphinema vuittenezi* (Nematoda: Dorylaimidae) — Virusüberträger bei Reben? Wein-Wiss. **35**, 177—194.
2660. — — ; 1981: Nematologische Untersuchungen. Jahresber. 1980, Landes-Lehr- und Forschungsanstalt für Landwirtschaft, Weinbau und Gartenbau, Neustadt/Weinstr., 89—95.
2661. — — ; 1981: Ökologische Anbaumethoden im Weinbau und eine mögliche Beeinflussung virusübertragender Nematoden. Dt. Weinbau-Jahrb. **32**, 119—124.
2662. — — ; 1982: Nematologische Untersuchungen. Jahresber. 1981, Landes-Lehr- und Forschungsanstalt für Landwirtschaft, Weinbau und Gartenbau, Neustadt/Weinstr., 65—68.
2663. — — ; 1983: Was kann man gegen Viruskrankheiten der Rebe tun? Dt. Weinbau **38**, 435—438.
2664. — — ; 1983: Beobachtungen über eine Absterbeerscheinung an der Sorte Kerner (Holzrunzeligkeit) in pfälzischen Weinbergen. Dt. Weinbau **38**, 1174—1177.
2665. — — ; 1984: Was kann der Praktiker bei der Gesundheitsselektion der Rebe tun? Dt. Weinbau-Jahrb. **35**, 123—127.
2666. — — ; 1985: Grapevine damage induced by particular virus-vector combinations. Proc. 8th Meeting ICVG, Bari 1984. Phytopathol. Mediter. **24**, 183—185.
2667. — — ; ALEBRAND, M.; ALTMAYER, B.; 1983: Untersuchungen über den Einsatz des ELISA-Tests zum Nachweis verschiedener Rebviren. Wein-Wiss. **38**, 177—185.
2668. RUMBOS, I.; 1981: Virus and virus-like diseases affecting grapevine in central and northern Greece. Greek Geot. Congr. Chalkidiki (Abstr.) (Gr, en).
2669. — — ; 1982: A serious yellows grapevine disease in Greece. *Geoponika* **27** (292/293), 194—201 (Gr, en).
2670. — — ; AVGELIS, A.; 1985: Natura! spread, importance and distribution of yellows, stem pitting and enation disease of grapevine in some viticultural areas of Greece. Proc. 8th Meeting ICVG, Bari 1984. Phytopathol. Mediter. **24**, 73—78.
2671. — — ; BIRIS, D.; 1979: Studies on the etiology of a yellows disease of grapevines in Greece. *Z. Pflanzenkrankh. Pflanzensch.* **86**, 266—273.
2672. — — ; — — ; 1980: Preliminary report on the control of a yellows disease of grapevine in Greece. Proc. 5th Congr. Mediter. Phytopathol. Union. Patras, Greece, 57—59.
2673. RUSSO, M.; 1985: Electron microscopy of grapevine virus infections. Proc. 8th Meeting ICVG, Bari 1984. Phytopathol. Mediter. **24**, 144—147.
2474. — — ; MARTELLI, G. P.; SAVINO, V.; 1980: Immunosorbent electron microscopy for detecting sap-transmissible viruses of grapevine. Proc. 7th Meeting ICVG, Niagara Falls 1980 (Canada Agriculture, Research Branch), 251—257.
2675. SANCTIS, F. DE; 1981: Virosi e selezione sanitaria della vite nel Lazio. *Ann. Ist. Sper. Patol. Veg. Roma* **7**, 115—123.
2676. SAROOSHI, R. A.; BEVINGTON, K. B.; COOTE, B. G.; 1982: Performance and compatibility of 'Muscat Gordo Blanco' grape on eight rootstocks. *Scientia Horticulturae* **16**, 367—374.
2677. SASAHARA, G.; TADA, K.; IRI, M.; TAKEZAWA, T.; TAZAKI, M.; 1981: Regeneration of plantlets by meristem tip culture for virus-free grapevines. *J. Jap. Soc. Hort. Sci.* **50**, 169—175 (Ja, en).
2678. ŠAŠTINSKÝ, J.; 1979: Chip-budding in the recovery process of grapevine from virus diseases. Proc. 1st Conf. Grapevine Recovery and Innovation of Vineyards with Virus-free Material, Modra 1979, 77—86 (Ru, en, fr, sk).

2679. SAVINO, V.; BOSCIA, D.; MARTELLI, G. P.; 1985: Incidence of some graft-transmissible virus-like diseases of grapevine in visually selected and heat-treated stocks from southern Italy. Proc. 8th Meeting ICVG, Bari 1984. *Phytopathol. Mediter.* **24**, 204—207.
2680. — — ; — — ; MILKUS, B.; 1985: A non mechanically transmissible chrome-yellow discolouration of grapevine. Proc. 8th Meeting ICVG, Bari 1984. *Phytopathol. Mediter.* **24**, 54—55.
2681. — — ; — — ; MUSCI, D.; MARTELLI, G. P.; 1985: Effect of legno riccio (stem pitting) on 'Italia' vines grafted onto rootstocks of different origin. Proc. 8th Meeting ICVG, Bari 1984. *Phytopathol. Mediter.* **24**, 68—72.
2682. — — ; CHERIF, C.; MARTELLI, G. P.; 1985: A natural serological variant of grapevine fanleaf virus. Proc. 8th Meeting ICVG, Bari 1984. *Phytopathol. Mediter.* **24**, 29—34.
2683. — — ; RUSSO, M.; MARTELLI, G. P.; 1981: Osservazioni sulla selezione sanitaria e risanamento della vite in Italia meridionale e su alcuni metodi di diagnosi virologica. Atti 3° Simposio Internazionale sulla Selezione Clonale della Vite, Venezia 1981, 302—308.
2684. SCHÖFFLING, H.; 1980: First results of a field-trial on the performance of heat-treated and non heat-treated White Riesling clones. Proc. 7th Meeting ICVG, Niagara Falls 1980 (Canada Agriculture, Research Branch), 311—320.
2685. — — ; 1981: Premiers résultats d'un essai de clones de Riesling traités par la chaleur. Rev. Suisse Viticult. Arboricult. Hort. **13**, 331—333.
2686. — — ; 1982: Neuorientierung in der Klonenselektion mit Vorschlägen zur Entwicklung virus-gesteter Klone. Dt. Weinbau-Jahrb. **33**, 33—40.
2687. — — ; 1983: Richtlinienentwurf zur Viruskontrolle. Zentralstelle für Klonenselektion **1**, 1—61.
2688. — — ; 1984: Die Klonenselektion bei Ertragsrebsorten. AID, Bonn, 24 pp.
2689. — — ; SCHENDEX, G.; FABER, W.; 1983: Die systematische Erhaltungszüchtung von Ertragsrebsorten in der BRD. Weinwirtschaft **38**, 291—325.
2690. SEQUEIRA, O. A. DE; MENDONÇA, A. DE; MOFA, M.; 1981: Detection and rapid identification of virus in vegetal tissues by immunosorbent electron microscopy. Rev. Port. Bioquim. Apl. **4**, 117—126 (Pt, en).
2691. SEVRYUKOVA, M. V.; SAPOVA, L. I.; 1983: Grapevine vein mosaic. Sadovod. Vinogradar. Vinodel. Moldavii **38** (2), 32—34 (Ru).
2692. SHANMUGANATHAN, N.; FLETCHER, G.; 1980: The incidence of grapevine yellow speckle disease in Australian grapevines and the influence of inoculum on symptom expression. Austral. J. Agricult. Res. **31**, 327—333.
2693. — — ; — — ; 1980: Indexing grapevine clones in the Fruit Variety Foundation of Australia for virus and virus-like diseases. Austral. J. Exp. Agricult. Animal Husb. **20**, 115—118.
2694. — — ; — — ; 1982: Enzyme-linked immunosorbent assay to detect fanleaf virus in grapevines grown in containers. Plant Dis. **66**, 704—707.
2695. SHIKATA, E.; SANO, T.; UYEDA, I.; 1984: An infectious low molecular weight RNA was detected in grapevines by molecular hybridization with hop stunt viroid cDNA. Proc. Japan. Acad. **60**, Ser. B., 202—205.
2696. STEGARESKU, O. P.; 1980: Nematodes vectors of viruses from the family Longidoridae. Genus *Xiphinema*. Printing House Shtiinst, Kishinev, 240 pp. (Ru).
2697. STELLMACH, G.; 1979: Beobachtungen an Mischinfektionen von grapevine fanleaf virus und arabis mosaic virus in Reben. Weinberg u. Keller **26**, 326—332.
2698. — — ; 1979: Untersuchungen über die Auswirkungen einer Virus-Reinfektion von Reben, die durch sanitäre Selektion, insbesondere aber durch Thermo-Therapie von pathogenen Viren befreit worden sind. Jahresber. 1978 des Forschungsrings des Deutschen Weinbaues bei der DLG, 19—20.
2699. — — ; 1979: Methoden des Virusnachweises an Reben. Geilweilerhof aktuell. Mittlg. BFA f. Rebenzüchtung **7**, 9—10.
2700. — — ; 1979: Virologische und weinbauliche Prüfung eines Riesling-Klons. Einfluß der Jahreswitterung auf die Auswirkungen der Rollkrankheit. Weinberg u. Keller **26**, 57—60.
2701. — — ; 1980: Untersuchungen über die Auswirkungen einer Virus-Reinfektion von Reben, die durch sanitäre Selektion, insbesondere durch Thermo-Therapie von pathogenen Viren befreit worden sind (Abschlußbericht). Jahresber. 1979 des Forschungsrings des Deutschen Weinbaus bei der DLG, 21—22.
2702. — — ; 1980: A guide for making a systematic selection of virus-tolerant grapevines. Proc. 7th Meeting ICVG, Niagara Falls 1980 (Canada Agriculture, Research Branch), 321—324.
2703. — — ; 1980: Moderate heat propagation of grapevines for eliminating graft transmissible disorders. Proc. 7th Meeting ICVG, Niagara Falls 1980 (Canada Agriculture, Research Branch), 325—328.

2704. — — ; 1980: Recherches sur les effets d'une réinfection virale de vignes ayant été libérées de virus pathogènes par sélection sanitaire et spécialement par thérapie. Bull. OIV 53, 179—186.
2705. — — ; 1980: A guide for systematic virus-tolerance selection in *Vitis vinifera* varieties. Proc. 3rd Intern. Symp. Grape Breeding, Univ. California, Davis 1980, 297—301.
2706. — — ; 1980: Propagation of healthy plants from green tips produced on vines infected with NEPO-viruses. Z. Pflanzenkrankh. Pflanzensch. 87, 92—96.
2707. — — ; 1981: Überlegungen zu einer systematischen Virustoleranzselektion von Reben. Dt. Weinbau-Jahrb. 32, 87—95.
2708. — — ; 1981: Überlegungen zur Erzeugung von virusfreiem Pflanzgut aus virologischer Sicht. Geilweilerhof aktuell. Mittlg. BfA f. Rebenzüchtung 9, 10—12.
2709. — — ; 1982: Die Verklonung von Triebspitzen schnell gewachsener Reben zur Eliminierung von NEPO-Viren. Z. Pflanzenkrankh. Pflanzensch. 89, 662—670.
2710. — — ; 1984: Wie harmlos sind die „harmlosen“ pflanzübertragbaren Ansteckungen (Infektionen) von Reben? Dt. Weinbau-Jahrb. 35, 129—133.
2711. — — ; 1985: ELISA testing of grapevine rootings reared from nepovirus-infected mother plants forced to rapid growth. Proc. 8th Meeting ICVG, Bari 1984. Phytopathol. Mediter. 24, 123—124.
2712. — — ; BERRES, R.; 1985: Investigations on mixed infections of nepoviruses in *Vitis* spp. and *Chenopodium quinoa* WILD. by means of ELISA. Proc. 8th Meeting ICVG, Bari 1984. Phytopathol. Mediter. 24, 125—126.
2713. STEVENSON, J. H.; MONETTE, P. L.; 1983: Delay of onset of leafroll symptom expression in *Vitis vinifera* 'Liemberger' from ribavirin-treated *in vitro* cultures. Can. J. Plant Sci. 63, 557—560.
2714. STOBBS, L. W.; SCHAGEN, J. G. VAN; 1984: Occurrence of tomato black ring virus on grapevine in southern Ontario. Canadian Plant Disease Survey 64 (1), 3—5.
2715. SUBA, S.; 1979: The significance of grapevine virus control. Növényvédelem 15, 410—411 (Hu).
2716. TANNE, E.; 1980: The use of ELISA for the detection of some NEPO viruses in grapevines. Proc. 7th Meeting ICVG, Niagara Falls 1980 (Canada Agriculture, Research Branch), 293—296.
2717. — — ; 1983: Grapevine stem-pitting disease in Israel. Phytoparasitica 11, 234 (Abstr.).
2718. — — ; 1984: Serological detection of two viruses associated with leafroll-diseased grapevines. Phytoparasitica 12, 215 (Abstr.).
2719. — — ; 1985: Appearance and spread of grapevine yellow mosaic in Israel. Proc. 8th Meeting ICVG, Bari 1984. Phytopathol. Mediter. 24, 15—16.
2720. — — ; 1985: New data on grapevine leafroll disease and its agent. Proc. 8th Meeting ICVG, Bari 1984. Phytopathol. Mediter. 24, 88—90.
2721. — — ; GIVONY, L.; 1985: Serological detection of two viruses associated with leafroll-diseased grapevines. Proc. 8th Meeting ICVG, Bari 1984. Phytopathol. Mediter. 24, 106—109.
2722. TAYLOR, C. E.; BROWN, D. J. F.; 1980: Specie di *Xiphinema* associate con la vite. Atti Giorn. Nematol. Ascoli Piceno 1980, 41—46.
2723. TÉLIZ, D.; GOHEEN, A. C.; VALLE, P.; 1980: Occurrence and spread of grape corky bark and stem pitting in Mexico. Plant. Dis. 64, 584—586.
2724. — — ; VALLE, P.; 1980: Grape corky bark and stem pitting in Mexico. III. Evaluation of symptoms in 130 cultivars grafted on 17 rootstocks. Proc. 7th Meeting ICVG, Niagara Falls 1980 (Canada Agriculture, Research Branch), 71—78.
2725. — — ; — — ; 1985: Corky bark and 'madera rugosa' of grapevine in Mexico. Proc. 8th Meeting ICVG, Bari 1984. Phytopathol. Mediter. 24, 208 (Abstr.).
2726. — — ; — — ; GOHEEN, A. C.; 1980: Grape corky bark and stem pitting in Mexico. II. Evaluation of symptoms in 17 rootstocks. Proc. 7th Meeting ICVG, Niagara Falls 1980 (Canada Agriculture, Research Branch) 65—70.
2727. — — ; — — ; — — ; 1981: Evaluation of corky bark and stem pitting symptoms in 18 grape rootstocks in Aguascalientes, Mexico. Phytopathology 71, 109 (Abstr.).
2728. — — ; — — ; — — ; LUEVANO, S.; 1980: Grape corky bark and stem pitting in Mexico. I. Occurrence, natural spread, distribution, effect on yield and evaluation of symptoms in 128 grape cultivars. Proc. 7th Meeting ICVG, Niagara Falls 1980 (Canada Agriculture, Research Branch), 51—64.
2729. TERAJ, Y.; YANO, R.; 1979: Detection of leafroll, fleck, corky bark viruses from grapevines. Ann. Phytopathol. Soc. Japan 45, 568—569 (Abstr.) (Ja).
2730. — — ; — — ; 1980: Ajinashika disease of the grapevine cultivar Koshu in Japan. Proc. 7th Meeting ICVG, Niagara Falls 1980 (Canada Agriculture, Research Branch), 15—19.

2731. TOMASELLO, D.; MATARESE PALMIERI, R.; LO GIUDICE, L.; ROSSO, R.; 1980: Particolari aspetti ultrastrutturali in plastidi di piante sane e virosate di *Vitis vinifera* L., *Citrus aurantium* L. e *Musa paradisiaca* L. Riv. Patol. Veg. Ser. IV, 16, 73—81.
2732. TRIOLO, E.; LORENZINI, G.; 1982: Indagine sulla presenza di „Legno riccio“ in Toscana. Atti Giornata sulla vitivinicoltura, Follonica 1980. Agricoltura Toscana (5/6) (Suppl.), 102—103.
2733. — —; RESTA, E.; 1985: The responses of the grapevine fleck agent to tetracycline-HCl antibiotic and Dienes' stain. Proc. 8th Meeting ICVG, Bari 1984. Phytopathol. Mediter. 24, 197—203.
2734. TSURKAN, I. G.; 1982: Therapy of grapevine for virus diseases. In: Selection of resistant varieties of grapevines. Publ. Moldavian Research Institute of Viticulture and Enology, Shtiintsa Printing House, Kishinev, 99—116 (Ru).
2735. — —; ABRAMENKO, N. M.; 1980: Method of heat therapy for grapes infected with virus diseases. Sadovod. Vinogradar. Vinodel. Moldavii 35 (4), 56—60 (Ru).
2736. — —; NOSKOVA, I. T.; 1979: Thermotherapy of virus diseases of plants (bibliography). Trudy Biologo-Pochvennogo Instituta Dal'nevostochnogo Nauchnogo Tsentra 54 (157), 128—152 (Ru).
2737. TULAJEVA, M. I.; MILKUS, B. N.; 1979: Amelioration of grapevine cultivars in Ukraine. Proc. 1st Conf. Grapevine Recovery and Innovation of Vineyards with Virus-free Material, Modra 1979, 47—51 (Ru, en, fr sk).
2738. TUSKAN, R. G.; TOLIN, S. A.; 1984: Properties of grape and soybean isolates of tomato ringspot virus. Phytopathology 74, 808 (Abstr.).
2739. TZENG, H. L.; GOHEEN, A. C.; 1984: Electron microscope studies on the corky bark and leafroll virus diseases of grapevines. Phytopathology 74, 1142 (Abstr.).
2740. UENO, K.; KINOSHITA, K.; MITAMURA, T.; AKAZAWA, K.; IRI, M.; 1981: Inactivation of grapevine viruses. J. Brew. Soc. Japan 76, 428—430 (Ja, en).
2741. UYEMOTO, J. K.; 1980: Grapevine virus research in New York State. Historical aspects of program and research developments. Proc. 7th Meeting ICVG, Niagara Falls 1980 (Canada Agriculture, Research Branch), 107—112.
2742. VALAT, C.; 1979: Organisation de la sélection clonale en France en vue de la production de plants de vigne sains. Vignevini 6 (5), 11—20.
2743. — —; 1980: La sélection clonale de la vigne et la production de plants certifiés. Progr. Agric. Vitic. 97, 30—31.
2744. — —; GREANAN, S.; 1982: Techniques d'élimination des virus: Utilisation et conséquences. II^e Colloque International sur la Multiplication de la Vigne, Bordeaux 1982, 26—31.
2745. — —; — —; 1984: Techniques d'élimination des virus: utilisation et conséquences. Vititechnique (76), 6—10.
2746. — —; — —; 1984: Mise au point concernant la culture *in vitro*. Vititechnique (81), 7.
2747. — —; — —; AURAN, G.; 1981: Thérapie *in vitro*. Premières observations sur les aptitudes de quelques variétés de porte-greffes et de *Vitis vinifera* traitées. Vignes et Vins (298), 17—23.
2748. — —; — —; — —; BONNET, A.; 1979: Guérison de quelques maladies à virus de la vigne par thérapie de plantules cultivées *in vitro*. Vignes et Vins (284), 19—22.
2749. — —; — —; BONNET, A.; 1981: La maladie du bois strié de la vigne. Progr. Agric. Vitic. 98, 151—156.
2750. VALLE, C.; TÉLIZ, D.; 1983: Distribución, incidencia y daños de corteza corchosa en viñedos de Aguascalientes. Rev. Mexicana Fitopatol. 2 (1), 21—26.
2751. VANEK, G.; 1979: Problems of technology of large-scale viticultural production with virus-free grapevines. Proc. 1st Conf. Grapevine Recovery and Innovation of Vineyards with Virus-free Material, Modra 1979, 147—154 (Ru, en, fr, sk).
2752. — —; 1980: Study of the nutrition as a factor affecting the symptoms of grapevine virus diseases. Proc. 8th Conf. on Plant Protection, Prague 1980, 143—144 (Sk).
2753. — —; 1981: Nutrition as a factor influencing the manifestations of viroses in grapevine (*Vitis* sp.). Sb. ÚVTIZ-Ochrana Rostl. 17 (2), 83—88 (Sk, en, ru).
2754. — —; 1983: Causes of grapevine dieback in our vineyards and possibilities of protection. Vinohrad 21, 27—28 (Sk).
2755. — —; 1983: Present state of health improvement of grapevine concerning virus diseases. Vinohrad 21, 99—101 (Sk).

2756. — —; 1983: Recovery programme of grapevine from virus diseases, present state and perspectives. Proc. Conf. on Biological Ways of Increasing Grapevine Yields, Strebské Pleso, 85—90 (Sk).
2757. — —; KRIVÁNEK, V.; MIKUŠOVÁ, A.; 1979: Quantitative and qualitative properties of grapevines recovered from virus diseases. Proc. 1st Conf. Grapevine Recovery and Innovation of Vineyards with Virus-free Material, Modra 1979, 101—114 (Ru, en, fr, sk).
2758. — —; — —; 1980: The economic value of virus-free grapevine clones. Vinohrad 18, 14—14 (Sk).
2759. — —; — —; 1984: Possibilities of recovery of vineyards from virus diseases. Zb. Pokroky vo Vinohradníckom a Vinárskom Vyskume. Príroda, Bratislava, 167—183 (Sk).
2760. — —; MIKUŠOVÁ, A.; KRIVÁNEK, V.; 1981: The course of virus infection in the thermotherapeutically treated and untreated grapevine. Plant virology. Proc. 9th Conf. of the Czechoslovak Plant Virologists, Brno 1981, 193—196 (En, ru).
2761. — —; — —; BOJNANSKY, V.; 1980: Production values of virus-free grapevine clones. Sb. UVTIZ-Ochrana Rostl. 16, 89—95 (Sk, de, en, ru).
2762. — —; — —; POZDĚNA, J.; FILIGAROVÁ, M.; 1982: Occurrence of lucerne mosaic virus in grapevine. Vinohrad 20, 82—83 (Sk).
2763. VARENNES, A. DE; SEQUERIA, O.A. DE; 1981: The ELISA technique for detecting plant viruses. Its application to the culture of grapevine (*Vitis vinifera* L.) and hop (*Humulus lupulus* L.). I Congresso de Fitiatria e Fitofarmacologia 2, 305—311 (Pt).
2764. — —; — —; 1982: Detection of CM 112 latent grapevine virus by enzyme-linked immunosorbent assay (ELISA). Evaluation of short reaction times and re-use of γ -globulin and conjugate. Agronomia Lusit. 41, 269—277.
2765. VERDEREVSKAYA, T. D. (Ed.); 1980: Virus, mycoplasma-like and bacterial diseases of fruit trees and grapevine. Publ. Moldavian Research Institute of Horticulture, Kishinev. Printing House Reclama, 172 pp. (Ru). — Contributions on virus and mycoplasma-like diseases of grapevine: BONDARCHUK, V. V.; MARINESKU, V. G.: Selection of virus-free clones of grapevine, 78—93. KALASHYAN, J. A.: Electron microscope study of grapevine yellow mosaic in affected tissues of host plants, 39—47. KOSAKOVSKAYA, O. I.: Serological methods for the diagnosis of grapevine viruses, 51—54. MARINESKU, V. G.: Indexing grapevine for virus diseases by green grafting in a glasshouse, 72—78. MARINESKU, V. G.; VERDEREVSKAYA, T. D.: Some studies on grapevine virus diseases, 11—20. POLINKOVSKII, A. I.: Studies on the role of nematodes in the transmission of the main grapevine virus diseases in Moldavia, 112—121.
2766. — —; 1983: Virus and mycoplasma-like diseases of fruit trees, small fruit and grapevine in Moldavia. Publ. Moldavian Research Institute of Horticulture, Kishinev, Printing House Reclama, 161 pp. (Ru). — Contributions on grapevine: BONDARCHUK, V. V.; LITVAK, L. A.: Grapevine vein banding in Moldavia, 41—45. HOHLOV, V. I.: Virus diseases in the vineyards of the Krasnodar region, 58—63. KOSAKOVSKAYA, O. I.: Occurrence of NEPO-viruses on grapevine in the Moldavian SSR, 51—58. MARINESKU, V. G.: New virus disease of grapevine, 39—41. MARINESKU, V. G.; BONDARCHUK, V. V.: Occurrence of grapevine enations in the Moldavian SSR, and research, 46—51. TSURKAN, I. G.; BONDARCHUK, V. V.: Hot-water therapy of grapevine scions affected with fleck, 82—89.
2767. — —; MARINESKU, V. G.; SEMITSCHIK, E. S.; 1983: Ätiologie und Diagnose der Marmorierung der Weinrebe. Arch. Phytopathol. Pflanzensch. 19, 221—226.
2768. VERES, A.; 1979: Grapevine virus diseases in Czechoslovakia. Proc. 1st Conf. Grapevine Recovery and Innovation of Vineyards with Virus-free Material, Modra 1979, 31—38 (Ru, en, fr, sk).
2769. VETTEN, H.J. 1981: Indexing of nepoviruses on *Chenopodium quinoa* after elimination of virus inhibitors in grape leaf extracts. Z. Pflanzenkrankh. Pflanzensch. 88, 99—110.
2770. VINDIAHAN, M. E.; RONCADOR, I.; 1979: Le malattie della vite da virus, micoplasmii e rickettsie. Esperienze e Ricerche, Stazione Sperimentale Agraria Forestale di S. Michele all'Adige, N. S. 8, 1978/1979, 93—136.
2771. VON DER BRELIE, D.; 1980: Histologische, cytologische und biochemische Untersuchungen über die infektiöse Blattrollkrankheit der Rebe (*Vitis vinifera* L.). Dissertation, Friedrich-Wilhelm-Universität Bonn, 107 pp.
2772. — —; NIENHAUS, F.; 1982: Histological and cytological studies on the infectious leafroll disease of the grapevine. Z. Pflanzenkrankh. Pflanzensch. 89, 508—517.
2773. — —; — —; 1982: Investigations on the etiology of grapevine leafroll disease. Z. Pflanzenkrankh. Pflanzensch. 89, 682—684.

2774. VRDOLJAK, M.; ŠARIĆ, A.; 1981: Electrophoretic investigation of some grapevine fanleaf virus isolates. *Acta Bot. Croatica* **40**, 51—60.
2775. VUITTENEZ, A.; 1980: The new improvements of serological methods and their possible application to detect and identify viruses and virus-like diseases of the grapevine. Proc. 7th Meeting ICVG, Niagara Falls 1980 (Canada Agriculture, Research Branch), 225—243.
2776. — — ; 1982: Etat actuel des connaissances sur les maladies à virus de la vigne. Incidence sur la sélection et la multiplication. II^e Colloque International sur la Multiplication de la Vigne, Bordeaux 1982, 23—25.
2777. — — ; 1984: Inventaire des virus et des maladies de type viral étudiées en France à Colmar. *Progr. Agric. Vitic.* **101**, 497—498.
2778. — — ; 1984: Essai de classification des principales viroses et maladies similaires de la vigne. *Progr. Agric. Vitic.* **101**, 499—501.
2779. — — ; 1985: Additions to the inventory of virus-like diseases of grapevine of French or foreign origin studied in France, with special reference to those studied in the Station de Pathologie Végétale of INRA at Colmar. Proc. 8th Meeting ICVG, Bari 1984. *Phytopathol. Mediter.* **24**, 114—122.
2780. — — ; STOCKY, G.; 1980: Ultrastructure de vignes infectées par deux maladies de type viral: la mosaïque des nervures, ou la «feuille rouge». Proc. 7th Meeting ICVG, Niagara Falls 1980 (Canada Agriculture, Research Branch), 191—204.
2781. — — ; — — ; 1981: Ultrastructure of grapevines *Vitis* sp. infected by two virus-like diseases: vein mosaic or infectious chlorosis redleaf. *Agronomie* **1**, 431—432.
2782. WALTER, B.; KUSZALA, J.; VUITTENEZ, A.; 1979: Diagnostic sérologique par les tests PALLAS et ELISA. Application aux virus de la rhizomanie de la betterave et du court-noué de la vigne. *Ann. Phytopathol.* **11**, 568—569.
2783. — — ; VUITTENEZ, A.; KUSZALA, J.; STOCKY, G.; BURCKARD, J.; REGENMORTEL, M. H. V. VAN; 1984: Détection sérologique des virus du court-noué de la vigne par le test ELISA. *Agronomie* **4**, 527—534.
2784. WEISCHER, B.; 1980: Nematode problems in field crops and orchards. *Bull. OEPP/EPPO Bull.* **10**, 403—408.
2785. — — ; 1980: The host-parasite relationship between the vector nematode, *Xiphinema index*, and some *Vitis* spp. Proc. 7th Meeting ICVG, Niagara Falls 1980 (Canada Agriculture, Research Branch), 139—146.
2786. WHITING, J. R.; HARDIE, W. J.; 1981: Yield and compositional differences between selections of grapevine cv. Cabernet Sauvignon. *Amer. J. Enol. Viticult.* **32**, 212—218.
2787. WOODHAM, R. C.; ANCLIFF, A. J.; KRAKE, L. R.; TAYLOR, R. H.; 1984: Yield differences between Sultana clones related to virus status and genetic factors. *Vitis* **22**, 73—83.
2788. — — ; ENMET, R. W.; FLETCHER, G. C.; 1984: Effect of thermotherapy and virus status on yield, annual growth and grape composition of Sultana. *Vitis* **23**, 268—273.
2789. — — ; KRAKE, L. R.; 1982: Grapevine yellow speckle disease — studies on natural spread observed in the field. *Vitis* **21**, 337—345.
2790. — — ; — — ; 1983: Investigations on transmission of grapevine leafroll, yellow speckle and fleck diseases by dodder. *Phytopathol. Z.* **106**, 193—198.
2791. — — ; — — ; 1983: A comparison of grapevine summer mottle and vein mosaic diseases. *Vitis* **22**, 247—252.
2792. — — ; — — ; 1984: Grapevine vein necrosis disease detected in rootstocks in Australia. *J. Austral. Inst. Agricult. Sci.* **50**, 58—60.
2793. — — ; — — ; CELLIER, K. M.; 1983: The effect of grapevine leafroll plus yellow speckle disease on annual growth, yield and quality of grapes from Cabernet Franc under two pruning systems. *Vitis* **22**, 324—330.
2794. — — ; — — ; SCOTT, N. S.; HAITA, T.; 1981: Studies on the unknown etiology of four graft-transmissible diseases, yellow speckle, leafroll, fleck, summer mottle. CSIRO Division of Horticultural Research Report 1979—1981, 53—54.
2795. YAMAKAWA, Y.; MORIYA, M.; 1983: Ripening changes in some constituents of virus-free 'Cabernet franc' grape berries. *J. Jap. Soc. Hort. Sci.* **52**, 16—21 (Ja, en).
2796. — — ; SHIMIZU, H.; KUSHIDA, T.; 1982: Seasonal changes in some constituents of 'Koshu' grape berries on normal and 'Ajinashi' vines. *J. Jap. Soc. Hort. Sci.* **50**, 454—460 (Ja, en).
2797. YORA, K.; SAITO, Y.; DOI, Y.; INOUE, T.; TOMARU, K.; 1983: A Handbook of Plant Viruses. Asakura Shoten, Tokyo, 632 pp. (Ja).
2798. ZELGER, F.; 1983: Bestimmungen über die Erzeugung und den Vertrieb von Reben. *Obstbau Weinbau* **20**, 97—98.

2799. ZINKA, N.; SAVIN, G.; STOYAN, E.; TOMA, A.; MANDA, G.; FILIP, I.; 1979: Grapevine virus diseases in Romania and their effect on economy. Proc. 1st Conf. Grapevine Recovery and Innovation of Vineyards with Virus-free Material, Modra 1979, 39—46 (Ru, en, fr, sk).

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