

Resistance to viruses in Lettuce

The ResistVir consortium

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- Adam, G. & Kegler, H. (1994).** Tomato spotted wilt virus and related tospoviruses. *Archives of Phytopathology and Plant Protection* **28**, 483-504.
- Alvarez, J. & Cabezas, A. (1979).** Lettuce variety trials in the summer. *ITEA (Informacion Tecnica Economica Agraria)* **10**, 7-10.
- Anonymous (1971).** Lettuce. In *Station de Genetique et d'Amelioration des Plantes, Versailles: Report for 1968 to 1971, Genetical and Plant Breeding Station, Versailles.*
- Anonymous (1972).** Lettuce. In *Institute of Phytopathological Research: Netherlands, Institute of Phytopathological Research: Annual report 1972.*
- Anonymous (1972).** Report for 1968 to 1971 of the Station for Plant Breeding and Genetics at Versailles. In *Rapport d'activite 1968 a 1971.*
- Anonymous (1972).** Wellesbourne National Vegetable Research Station 1971 annual report.
- Anonymous (1973).** Agricultural Development and Advisory Service, Yorkshire and Lancashire Region, Experiment and development 1972.
- Anonymous (1973).** Wageningen Institute of Phytopathological Research, Annual report 1972.
- Anonymous (1974).** Lettuce. In *Netherlands, Proefstation voor de Groenteteelt in de Vollegrond: Research report of the Experiment Station for Outdoor Vegetable Growing, 1974.*
- Anonymous (1974).** National Vegetable Research Station, Annual report 1973.
- Anonymous (1975).** Lettuce. In *German Federal Republic, Biologische Bundesanstalt fur Land- und Forstwirtschaft in Berlin und Braunschweig: Annual report 1975, Federal Biological institute of Agriculture and Forestry in Berlin and Brunswick.*
- Anonymous (1975).** Lettuce. In *France, Station de Genetique et d'Amelioration des Plantes, Versailles: Report of activities, Station of Plant Breeding and Genetics, Versailles, 1972-1974.*
- Anonymous (1975).** National Vegetables Research Station, Twenty-fifth annual report 1974.
- Anonymous (1976).** Lettuce. In *German Federal Republic, Biologische Bundesanstalt fur Land- und Forstwirtschaft in Berlin und Braunschweig: Annual report 1976, Federal Biological Institute of Agriculture and Forestry in Berlin and Brunswick.*
- Anonymous (1976).** Vegetables. In *German Federal Republic, Biologische Bundesanstalt fur Land- und Forstwirtschaft in Berlin und Braunschweig: Annual report of the Federal Biological Institute for Agriculture and Forestry in Berlin and Braunschweig 1975: Jahresbericht 1975.*
- Anonymous (1977).** Lettuce. In *UK, National Vegetable Research Station: 27th annual report 1976.*
- Anonymous (1978).** Lettuce. In *UK, National Vegetable Research Station: 28th annual report 1977.*
- Anonymous (1979).** Lettuce. In *UK, National Vegetable Research Station: 29th Annual report 1978.*
- Anonymous (1980).** Lettuce. In *UK, National Vegetable Research Station: Annual Report 1979.*
- Anonymous (1980).** Report of the Agricultural Research Council for the year 1979/80. In *Report of the Agricultural Research Council for the year 1979/80.*
- Anonymous (1981).** *EUCARPIA/IOBC Working Group Breeding for Resistance to Insects and Mites. Report of the second meeting held from 9 to 11 April 1980 at Canterbury, U.K. Organised by East Malling Research Station, Maidstone, U.K.*
- Anonymous (1981).** Lettuce. In *Netherlands, Instituut voor Veredeling van Tuinbouwgewassen: Annual report of the Institute for Horticultural Plant Breeding 1980.*
- Anonymous (1982).** Annual report, Institute for Horticultural Plant Breeding, 1981. Lettuce. In *Annual report, Institute*

for Horticultural Plant Breeding, 1981 [Lettuce].

- Anonymous (1994).** Variety: 'Marksman'. Application no. 94/195. *Plant Varieties Journal* **7**, 37-38.
- Anonymous (1997).** Variety: 'Kristine' syn 83-37 RZ. Application no: 95/267. *Plant Varieties Journal* **10**, 37.
- Anonymous (1998).** *Station d'Amelioration des Plantes Maraicheres d'Avignon-Montfavet. Rapport d'Activites 1995-1996.* France, Institut National de la Recherche Agronomique.
- Archer, C., Wilson, C. & Gibson, L. (2000).** Improving lettuce quality through reduction in losses due to soil borne diseases. In *Australian Lettuce Industry Conference, Hay, New South Wales, Australia, 6-8 June, 2000*, pp. 80-85.
- Armstrong, T. T., Fitzjohn, R. G., Newstrom, L. E., Wilton, A. D. & Lee, W. G. (2005).** Transgene escape: what potential for crop-wild hybridization? *Molecular Ecology* **14**, 2111-2132.
- Ballut, L., Drucker, M., Pugniere, M., Cambon, F., Blanc, S., Roquet, F., Candresse, T., Schmid, H. P., Nicolas, P., Le Gall, O. & other authors (2005).** HcPro, a multifunctional protein encoded by a plant RNA virus, targets the 20S proteasome and affects its enzymic activities. *Journal of General Virology* **86**, 2595-2603.
- Ballut, L., Petit, F., Mouzeyar, S., Le Gall, O., Candresse, T., Schmid, P., Nicolas, P. & Badaoui, S. (2003).** Biochemical identification of proteasome-associated endonuclease activity in sunflower. *Biochimica Et Biophysica Acta-Proteins and Proteomics* **1645**, 30-39.
- Bannerot, H. E. & Pochard, E. (1972).** Four cases of "non-specific" resistance in vegetables. In *The way ahead in plant breeding Proceedings of the sixth congress of Eucarpia, Cambridge 29 June - 2 July 1971*, pp. 109-117.
- Bannerot, M. H. (1976).** Genetical solutions to some problems of asparagus, endive and lettuce production. *Revue Horticole Suisse* **49**, 145-152.
- Bautista, R. C. & Mau, R. F. L. (1994).** Preferences and Development of Western Flower Thrips (Thysanoptera, Thripidae) on Plant Hosts of Tomato Spotted Wilt Tospovirus in Hawaii. *Environmental Entomology* **23**, 1501-1507.
- Bautista, R. C., Mau, R. F. L., Cho, J. J. & Custer, D. M. (1995).** Potential of Tomato Spotted Wilt Tospovirus Plant Nests in Hawaii as Virus Reservoirs for Transmission by Frankliniella-Occidentalis (Thysanoptera, Thripidae). *Phytopathology* **85**, 953-958.
- Bedlan, G. (1985).** Lettuce big vein. *Pflanzenschutz* **138**, 4-5.
- Bitterlich, I. & Macdonald, L. S. (1993).** The Prevalence of Tomato Spotted Wilt Virus in Weeds and Crops in Southwestern British-Columbia. *Canadian Plant Disease Survey* **73**, 137-142.
- Blaise, F., Kusiak, C., Dinant, S., Astier-Manificier, S. & Albouy, J. (1995).** Study of resistance to potato Y virus (PVY) in transgenic tobaccos expressing the coat protein of lettuce mosaic virus (LMV). *Annales du Tabac Section 2*, 87-94.
- Blancard, D., Lot, H. & Maisonneuve, B. (2003).** Diseases of lettuces: identification, detection and control. In *Maladies des salades: identifier, connaitre et maitriser*, p. 375. Edited by D. Blancard, H. Lot & B. Maisonneuve.
- Blua, M. J., Perring, T. M., Nuessly, G. S., Duffus, J. E. & Toscano, N. C. (1994).** Seasonal Cropping Pattern Effects on Abundance of Bemisia-Tabaci (Homoptera, Aleyrodidae) and Incidence of Lettuce Infectious Yellows Virus. *Environmental Entomology* **23**, 1422-1427.
- Boeshore, M. L., Klaassen, V. A., Carney, K., McMaster, J. R., Russell, P. F., Himmel, P., Duffus, J. E. & Falk, B. (1994).** Engineering Lettuce for Resistance to Lettuce Infectious Yellows Virus. *Journal of Cellular Biochemistry*, 85-85.
- Bos, L. & Huijberts, N. (1990).** Screening for resistance to big-vein disease of lettuce (*Lactuca sativa*). *Crop Protection* **9**, 446-452.
- Bos, L. & Huijberts, N. (1992).** Variation in lettuce mosaic virus. *Recent advances in vegetable virus research 7th Conference ISHS Vegetable Virus Working Group, Athens, Greece, July 12-16, 1992*, 26-26.
- Bos, L. & Huijberts, N. (1996).** Lettuce ring necrosis, caused by a chytrid-borne agent distinct from lettuce big-vein 'virus'. *European Journal of Plant Pathology* **102**, 867-873.
- Bos, L., Huijberts, N. & Cuperus, C. (1994).** Further observations on variation of lettuce mosaic virus in relation to lettuce (*Lactuca sativa*), and a discussion of resistance terminology. *European Journal of Plant Pathology*

100, 293-314.

- Bos, L., Huijberts, N., Huttinga, H. & Maat, D. Z. (1983).** Further characterization of dandelion yellow mosaic virus from lettuce and dandelion. *Netherlands Journal of Plant Pathology* **89**, 207-222.
- Bos, L. & Parlevliet, J. E. (1995).** Concepts and Terminology on Plant/Pest Relationships - toward Consensus in Plant Pathology and Crop Protection. *Annual Review of Phytopathology* **33**, 69-102.
- Boydston, R. A., Mojtahedi, H., Crosslin, J. M., Thomas, P. E., Anderson, T. & Riga, E. (2004).** Evidence for the influence of weeds on corky ringspot persistence in alfalfa and Scotch spearmint rotations. *American Journal of Potato Research* **81**, 215-225.
- Brcak, J. (1979).** Czech and Scandinavian isolates resembling dandelion yellow mosaic virus. *Biologia Plantarum* **21**, 298-301.
- Brown, C., Crute, I. R., Walkey, D. G. A., Ockendon, D. J. & Ward, C. M. (1985).** Somaclonal variation for response to lettuce diseases. *35th Annual Report for 1984, National Vegetable Research Station*, 90-91.
- Callaghan, B. & Dietzgen, R. G. (2005).** Nucleocapsid gene variability reveals two subgroups of Lettuce necrotic yellows virus. *Archives of Virology* **150**, 1661-1667.
- Campbell, R. N. (1996).** Fungal transmission of plant viruses. *Annual Review of Phytopathology* **34**, 87-108.
- Campbell, R. N. (1996).** Lettuce ring necrosis, a viruslike disease of lettuce: Evidence for transmission by *Olpidium brassicae*. *Plant Disease* **80**, 611-615.
- Campbell, R. N., Lecoq, H., Wipfscheibel, C. & Sim, S. T. (1991).** Transmission of Cucumber Leaf-Spot Virus by *Olpidium-Radicale*. *Journal of General Virology* **72**, 3115-3119.
- Campbell, R. N. & Sim, S. T. (1994).** Host-Specificity and Nomenclature of *Olpidium-Bornovanus* (= *Olpidium-Radicale*) and Comparisons to *Olpidium-Brassicae*. *Canadian Journal of Botany-Revue Canadienne De Botanique* **72**, 1136-1143.
- Candresse, T., Le Gall, O., Maisonneuve, B., German-Retana, S. & Redondo, E. (2002).** The use of Green Fluorescent Protein-tagged recombinant viruses greatly simplifies *Lettuce mosaic virus* resistance testing in lettuce. *Phytopathology* **92**, 169-176.
- Candresse, T., Le Gall, O., Mazier, M. & Maisonneuve, B. (2005).** Virus susceptibility and resistance in Lettuce. In *Natural Resistance Mechanisms of Plants to Viruses*, pp. 383-397. Edited by G. Loebenstein & J. P. Carr: Springer Verlag.
- Carver, M. (1999).** *Uroleucon sonchi* (Linnaeus) (Hemiptera : Aphididae) in Australia. *Australian Journal of Entomology* **38**, 314-317.
- Chatzivassiliou, E. K., Boubourakas, I., Drossos, E., Eleftherohorinos, I., Jenser, G., Peters, D. & Katis, N. I. (2001).** Weeds in greenhouses and tobacco fields are differentially infected by Tomato spotted wilt virus and infested by its vector species. *Plant Disease* **85**, 40-46.
- Chen, J. & Adams, M. J. (2001).** A universal PCR primer to detect members of the Potyviridae and its use to examine the taxonomic status of several members of the family. *Archives of Virology* **146**, 757-766.
- Cho, J. J., Custer, D. M., Brommonschenkel, S. H. & Tanksley, S. D. (1996).** Conventional breeding: host-plant resistance and the use of molecular markers to develop resistance to tomato spot wilt virus in vegetables. *Acta Horticulturae* **431**, 367-378.
- Chod, J., Polak, J., Kudela, V. & Jokes, M. (1976).** Finding of lettuce big vein virus in Czechoslovakia. *Biologia Plantarum* **18**, 63-66.
- Chupeau, M. C., Bellini, C., Guerche, P., Maisonneuve, B., Vastra, G. & Chupeau, Y. (1989).** Transgenic plants of lettuce (*Lactuca sativa*) obtained through electroporation of protoplasts. *Bio/Technology* **7**, 503-508.
- Cohen, J., Rosner, A., Maslenin, L., Mor, N., Lampel, M., Zeidan, M. & Gera, A. (2002).** Lettuce mosaic potyvirus is the causal agent of a new disease in *Bupleurum* spp. *Phytoparasitica* **30**, 88-95.
- Colariccio, A., Chaves, A. L. R., Eiras, M., Chagas, C. M., Lenzi, R. & Roggero, P. (2003).** Presence of lettuce big-vein disease and associated viruses in a subtropical area of Brazil. *Plant Pathology* **52**, 792-792.
- Coutts, B. A., Thomas-Carroll, M. L. & Jones, R. A. C. (2004).** Analysing spatial patterns of spread of Lettuce necrotic yellows virus and lettuce big-vein disease in lettuce field plantings. *Annals of Applied Biology* **145**, 339-343.

- Coutts, B. A., Thomas-Carroll, M. L. & Jones, R. A. C. (2004).** Patterns of spread of Tomato spotted wilt virus in field crops of lettuce and pepper: spatial dynamics and validation of control measures. *Annals of Applied Biology* **145**, 231-245.
- Crute, I. R., Norwood, J. M., Gordon, P. L., Walkey, D. G. A., Bolland, C. J., Walsh, J. A. & Miller, A. (1987).** Diseases of lettuce - biology, resistance and control. *37th Annual Report 1986/87, National Vegetable Research Station*, 49-52.
- Crute, I. R. & Pink, D. A. C. (1996).** Genetics and utilization of pathogen resistance in plants. *Plant Cell* **8**, 1747-1755.
- Curtis, I. S., He, C. P., Power, J. B., Mariotti, D., deLaat, A. & Davey, M. R. (1996).** The effects of *Agrobacterium rhizogenes* rolAB genes in lettuce. *Plant Science* **115**, 123-135.
- Curtis, I. S., He, C. P., Scott, R., Power, J. B. & Davey, M. R. (1996).** Genomic male sterility in lettuce, a baseline for the production of F-1 hybrids. *Plant Science* **113**, 113-119.
- Curtis, I. S., Power, J. B., Blackhall, N. W., Delaat, A. M. M. & Davey, M. R. (1994).** Genotype-Independent Transformation of Lettuce Using *Agrobacterium-Tumefaciens*. *Journal of Experimental Botany* **45**, 1441-1449.
- Danesh, D. & Gold, A. H. (1974).** Susceptibility of lettuce varieties to *Olpidium brassicae* infection and to lettuce big vein. *Proceeding of the American Phytopathological Society* **1**, 47-48.
- Dede, Y. & Buchanan-Wollaston, V. (1997).** *Agrobacterium*-mediated transformation of lettuce (*Lactuca sativa*). *Turkish Journal of Agriculture & Forestry* **21**, 543-550.
- Demirci, E., Acikgoz, S. & Doken, M. T. (1995).** Relations of some weed species with lettuce big-vein virus in Erzurum-Turkiye. *Journal of Turkish Phytopathology* **24**, 135-137.
- Diaz, B. M., Biurrun, R., Moreno, A., Nebreda, M. & Fereres, A. (2006).** Impact of ultraviolet-blocking plastic films on insect vectors of virus diseases infesting crisp lettuce. *Hortscience* **41**, 711-716.
- Dietzgen, R. G. (2002).** Genetic transformation of lettuce for resistance to viruses. *2nd Australian Lettuce Industry Conference, Paddock to Plate, Gatton, Queensland, Australia, 5-8 May, 2002*, 69-71.
- Dinant, S. (1995).** Control of potyviruses by genetic transformation. *Annales du Tabac Section 2*, 73-80.
- Dinant, S., Blaise, F., Kusiak, C., Astiermanifacier, S. & Albouy, J. (1993).** Heterologous Resistance to Potato Virus-Y in Transgenic Tobacco Plants Expressing the Coat Protein Gene of Lettuce Mosaic Potyvirus. *Phytopathology* **83**, 818-824.
- Dinant, S., Kusiak, C., Cailleteau, B., Verrier, J. L., Chupeau, M. C., Chupeau, Y., Le Hong, T., Delon, R. & Albouy, J. (1998).** Field resistance against potato virus Y infection using natural and genetically engineered resistance genes. *European Journal of Plant Pathology* **104**, 377-382.
- Dinant, S. & Lot, H. (1992).** Lettuce mosaic virus. *Plant Pathology* **41**, 528-542.
- Dinant, S., Maisonneuve, B., Albouy, J., Chupeau, Y., Chupeau, M. C., Bellec, Y., Gaudefroy, F., Kusiak, C., Souche, S., Robaglia, C. & other authors (1997).** Coat protein gene-mediated protection in *Lactuca sativa* against lettuce mosaic potyvirus strains. *Molecular Breeding* **3**, 75-86.
- Doken, M. T., Acikgoz, S. & Demirci, E. (1993).** Big-vein virus disease of lettuce in Erzurum, Turkey. *Journal of Turkish Phytopathology* **22**, 41-43.
- Doken, M. T., Demirci, E. & Acikgoz, S. (1994).** Morphology of *Olpidium brassicae* (Wor.) Dang. and its transmission of big-vein virus to lettuce. *Journal of Turkish Phytopathology* **23**, 133-142.
- Duffus, J. E., Liu, H. Y. & Wisler, G. C. (1996).** Tomato infectious chlorosis virus - A new clostero-like virus transmitted by *Trialeurodes vaporariorum*. *European Journal of Plant Pathology* **102**, 219-226.
- Duffus, J. E., Liu, H. Y., Wisler, G. C. & Li, R. H. (1996).** Lettuce chlorosis virus - A new whitefly-transmitted clostero-virus. *European Journal of Plant Pathology* **102**, 591-596.
- Edwards, M. C., Gonsalves, D. & Provvidenti, R. (1983).** Genetic analysis of cucumber mosaic virus in relation to host resistance: location of determinants for pathogenicity to certain legumes and *Lactuca saligna*. *Phytopathology* **73**, 269-273.
- Enomoto, S., Itoh, H., Murakami, T., Ohshima, M. & Ohashi, Y. (1993).** Inducible expression of tobacco pathogenesis-related-1 protein gene in transgenic lettuce. *Bulletin of the National Institute of Agrobiological Resources* **8**, 11-23.

- Enomoto, S., Itoh, H., Ohshima, M. & Ohashi, Y. (1990).** Induced expression of a chimeric gene construct in transgenic lettuce plants using tobacco pathogenesis-related protein gene promoter region. *Plant Cell Reports* **9**, 6-9.
- Fakhfakh, H., Le Gall, O., Candresse, T. & Marrakchi, M. (2001).** Analysis of the variability of Tunisian isolates of Lettuce mosaic virus using biological and molecular properties. *Journal of Plant Pathology* **83**, 3-11.
- Falk, B. W. & Guzman, V. L. (1984).** Differential detection of seedborne lettuce mosaic virus (LMV) in LMV-susceptible and resistant lettuce breeding lines. *Proceedings of the Florida State Horticultural Society* **97**, 179-181.
- Fegla, G. I., Shawkat, A. L. B., Shawkat & Ramadan, N. A. (1983).** Effect of infection date of lettuce mosaic virus on seed transmission, vegetative growth, and certain contents of lettuce plants. *Iraqi Journal of Agricultural Sciences* **1**, 91-101.
- Fiedorow, Z. & Andrzejczak, A. (2002).** Susceptibility of lettuce cultivars to lettuce mosaic virus and cucumber mosaic virus and transmission of the viruses by lettuce seeds. *Progress in Plant Protection* **42**, 900-902.
- Fletcher, J. D., France, C. M. & Butler, R. C. (2005).** Virus surveys of lettuce crops and management of lettuce big-vein disease in New Zealand. *New Zealand Plant Protection* **58**, 239-244.
- Fletcher, J. T. (1992).** Disease Resistance in Protected Crops and Mushrooms. *Euphytica* **63**, 33-49.
- Fujii, H., Sasaya, T., Takezaki, A., Ishikawa, K. & Fujino, M. (2003).** Resistance to lettuce big-vein disease in lettuce cultivars. *Journal of the Japanese Society for Horticultural Science* **72**, 315-317.
- Gallitelli, D. (2004).** The most important virus diseases of vegetable crops in open field. *Informatore Fitopatologico* **54**, 25-29.
- Garratt, L. C., Davey, M. R., McCabe, M. S. & Power, J. B. (2001).** Enhancement of crop performance and quality in lettuce. *Buletinul Universitatii de Stiinte Agricole si Medicina Veterinara Cluj-Napoca, Seria Zootehnie si Biotehnologii* **55/56**, 102-107.
- German-Retana, S., Candresse, T., Alias, E., Delbos, R. P. & Le Gall, O. (2000).** Effects of green fluorescent protein or beta-glucuronidase tagging on the accumulation and pathogenicity of a resistance-breaking *Lettuce mosaic virus* isolate in susceptible and resistant lettuce cultivars. *Molecular Plant-Microbe Interactions* **13**, 316-324.
- German-Retana, S., Redondo, E., Tavert-Roudet, G., Le Gall, O. & Candresse, T. (2003).** Introduction of a NIa proteinase cleavage site between the reporter gene and HC-Pro only partially restores the biological properties of GUS- or GFP-tagged LMV. *Virus Res* **98**, 151-162.
- Gonsalves, D., Pang, S. Z., Gonsalves, C., Xue, B., Yepes, M. & Jan, F. J. (1996).** Developing transgenic crops that are resistant to tospoviruses. *Acta Horticulturae*, 427-431.
- Grappin, P., Audeon, C., Chupeau, M. C. & Grandbastien, M. A. (1996).** Molecular and functional characterization of Slide, an Ac-like autonomous transposable element from tobacco. *Molecular & General Genetics* **252**, 386-397.
- Gripwall, E. (1986).** Incidence of lettuce big vein in Sweden. *Vaxtskyddsnotiser* **50**, 133-135.
- Groenwold, R. (1984).** PIVT 816, a useful parent in breeding lettuce varieties with tolerance of cucumber mosaic virus (CMV)? *Zaadbelangen* **38**, 111.
- Groves, R. L., Walgenbach, J. F., Moyer, J. W. & Kennedy, G. G. (2002).** The role of weed hosts and tobacco thrips, *Frankliniella fusca*, in the epidemiology of Tomato spotted wilt virus. *Plant Disease* **86**, 573-582.
- Grube, R. C. & Ryder, E. J. (2003).** Romaine lettuce breeding lines with resistance to lettuce dieback caused by tomosviruses. *HortScience* **38**, 627-628.
- Grube, R. C., Ryder, E. J., Koike, S. T., McCreight, J. D. & Wintermantel, W. M. (2003).** Breeding for resistance to new and emerging lettuce diseases in California. In *EUCARPIA leafy vegetables 2003 Proceedings of the EUCARPIA Meeting on Leafy Vegetables Genetics and Breeding, Noordwijkerhout, Netherlands, 19-21 March 2003*, pp. 37-42.
- Grube, R. C., Wintermantel, W. M., Hand, P., Aburomia, R., Pink, D. A. C. & Ryder, E. J. (2005).** Genetic analysis and mapping of resistance to lettuce dieback: a soilborne disease caused by tomosviruses. *Theoretical and Applied Genetics* **110**, 259-268.
- Gubba, A., Gonsalves, C., Stevens, M. R., Tricoli, D. M. & Gonsalves, D. (2002).** Combining transgenic and natural resistance to obtain broad resistance to tospovirus infection in tomato (*Lycopersicon esculentum*

- mill). *Molecular Breeding* **9**, 13-23.
- Guiraud, T., Nicaise, V., Krause-Sakate, R., Redondo, E., Candresse, T., German-Retana, S., Michon, T., Revers, F., Roudet-Tavert, G., Walter, J. & other authors (2002).** Host range determinants of *Lettuce mosaic virus*. *Virus Reviews and Research* **7**, 29.
- Guzman, V. L. (1981).** Yield and quality response of crisphead lettuce cultivars to seeding dates and farms in south Florida organic soils. *Proceedings of the Florida State Horticultural Society* **94**, 182-185.
- Guzman, V. L. (1986).** Short Guzmaine, Tall Guzmaine and Floriglade, three cos lettuce cultivars resistant to lettuce mosaic virus. In *Circular, Agricultural Experiment Stations, University of Florida*, p. 11.
- Guzman, V. L., Nagata, R. T., Datnoff, L. E. & Raid, R. N. (1992).** 'Florida 202' and 'Everglades': two new butterhead lettuce cultivars adapted to Florida. *HortScience* **27**, 852-853.
- Guzman, V. L. & Zitter, T. A. (1977).** Florida 1974, cos-type lettuce breeding line. *HortScience* **12**, 168-168.
- Handke, S. (1976).** Breeding for resistance to *Bremia lactucae* and to mosaic virus. In *Netherlands, Institute for Horticultural Plant Breeding: Proceedings Eucarpia meeting on leafy vegetables, Wageningen, 15-18 March 1976 II*, pp. 95-104.
- Handke, S. & Bandze, E. (1973).** The test for lettuce mosaic: a method for establishing resistance to lettuce mosaic virus. *Safa* **25**, 357-359.
- Handke, S. & Walther, F. (1984).** X-irradiation induced resistance to lettuce mosaic virus (LMV) in *Lactuca sativa*, var. Capitata. In *Eucarpia meeting on leafy vegetables*. Versailles, France, 28 February-2 March 1984: INRA.
- Hassairi, A., Masmoudi, K., Albouy, J., Robaglia, C., Jullien, M. & Ellouz, R. (1998).** Transformation of two potato cultivars 'Spunta' and 'Claustar' (*Solanum tuberosum*) with lettuce mosaic virus coat protein gene and heterologous immunity to potato virus Y. *Plant Science* **136**, 31-42.
- Haupt, G. (1983).** Varietal trials with greenhouse cabbage lettuce in 1982. *Gartner Tidende* **99**, 451-453.
- Haupt, G. (1983).** Varietal trials with Iceberg-type lettuce under glass, 1982. *Gartner Tidende* **99**, 477-479.
- Hayes, R. J., Wintermantel, W. M., Nicely, P. A. & Ryder, E. J. (2006).** Host resistance to Mirafiori lettuce big-vein virus and Lettuce big-vein associated virus and virus sequence diversity and frequency in California. *Plant Disease* **90**, 233-239.
- Hentschel, G. (1974).** Breeding lettuce for disease resistance. *Gemuse* **10**, 183-186.
- Hiruki, C. (1994).** Multiple Transmission of Plant-Viruses by *Olpidium-Brassicae*. *Canadian Journal of Plant Pathology-Revue Canadienne De Phytopathologie* **16**, 261-265.
- Hobbs, H. A., Black, L. L., Story, R. N., Valverde, R. A., Bond, W. P., Gatti, J. M., Schaeffer, D. O. & Johnson, R. R. (1993).** Transmission of Tomato Spotted Wilt Virus from Pepper and 3 Weed Hosts by *Frankliniella-Fusca*. *Plant Disease* **77**, 797-799.
- Holland, R. (1976).** Virus-tolerant lettuce show their values in NIAB trials. *Grower* **86**, 426-428.
- Hong, C. X. & Moorman, G. W. (2005).** Plant pathogens in irrigation water: Challenges and opportunities. *Critical Reviews in Plant Sciences* **24**, 189-208.
- Horvath, J. (1991).** Unknown Compositae (Asteraceae) Hosts of Lettuce Mosaic Potyvirus. *Acta Phytopathologica Et Entomologica Hungarica* **26**, 347-351.
- Horvath, J. & Beczner, L. (1983).** Viruses of vegetable plants in Hungary and some of their properties. *Acta Phytopathologica Academiae Scientiarum Hungaricae* **18**, 237-254.
- Hunter, D. G. & Bowyer, J. W. (1993).** Cytopathology of Lettuce Mosaic-Virus-Infected Lettuce Seeds and Seedlings. *Journal of Phytopathology-Phytopathologische Zeitschrift* **137**, 61-72.
- Hunter, D. G. & Bowyer, J. W. (1994).** Cytopathology of Anthers and Pollen from Lettuce Plants Infected by Lettuce Mosaic-Virus. *Journal of Phytopathology-Phytopathologische Zeitschrift* **142**, 107-114.
- Hunter, D. G. & Bowyer, J. W. (1994).** Cytopathology of Mature Ovaries from Lettuce Plants Infected by Lettuce Mosaic Potyvirus. *Journal of Phytopathology-Phytopathologische Zeitschrift* **140**, 11-18.
- Hunter, D. G. & Bowyer, J. W. (1997).** Cytopathology of developing anthers and pollen mother cells from lettuce plants infected by lettuce mosaic potyvirus. *Journal of Phytopathology-Phytopathologische Zeitschrift* **145**, 521-524.

- Iwaki, M., Nakano, A., Iemura, H. & Tochiwara, H. (1978). The occurrence of lettuce big vein disease and its soil transmission in Japan. *Annals of the Phytopathological Society of Japan* **44**, 578-584.
- Jadão, A. S., Krause-Sakate, R., Pavan, M. A., Zerbini, F. M., Candresse, T. & Le Gall, O. (2004). Obtenção de oligonucleotídeos específicos para o Lettuce mottle virus (LeMoV) e *Dandelion yellow mosaic virus* (DaYMV). *Summa Phytopathologica* **30**, 94-95.
- Jadao, A. S., Pavan, M. A., Silva, N. d. & Zerbini, F. M. (2002). Seed transmission of Lettuce mosaic virus (LMV) pathotype II and IV in different lettuce genotypes. *Summa Phytopathologica* **28**, 58-61.
- Jadot, F. & Verhoyen, M. (1980). Research into the etiology of big vein disease of lettuce and trials on control. *Mededelingen van de Faculteit Landbouwwetenschappen, Rijksuniversiteit Gent* **45**, 425-434.
- Jang, S., Kim, W., Kwon, Y. & Ryu, S. (2004). A high-yielding and high-quality romaine type lettuce cultivar, "Mansang". *Korean Journal of Breeding* **36**, 169-170.
- Jang, S., Kim, W. & Robinson, R. W. (2004). A new crisphead lettuce cultivar, "Adam". *Korean Journal of Breeding* **36**, 171-172.
- Johnson, A. G., Norwood, J. M. & O'Brien, M. J. (1984). Lettuce. In *Annual report*, 1983.
- Johnson, R. R., Black, L. L., Hobbs, H. A., Valverde, R. A., Story, R. N. & Bond, W. P. (1995). Association of Frankliniella-Fusca and 3 Winter Weeds with Tomato Spotted Wilt Virus in Louisiana. *Plant Disease* **79**, 572-576.
- Jones, R. A. C. (2004). Using epidemiological information to develop effective integrated virus disease management strategies. *Virus Research* **100**, 5-30.
- Kanamoto, H., Yamashita, A., Asao, H., Okumura, S., Takase, H., Hattori, M., Yokota, A. & Tomizawa, K. (2006). Efficient and stable transformation of *Lactuca sativa* L. cv. Cisco (lettuce) plastids. *Transgenic Research* **15**, 205-217.
- Kesseli, R., Witsenboer, H., Stanghellini, M., Vandermark, G. & Michelmore, R. (1993). Recessive Resistance to Plasmopara-Lactucae-Radicis Maps by Bulked Segregant Analysis to a Cluster of Dominant Disease Resistance Genes in Lettuce. *Molecular Plant-Microbe Interactions* **6**, 722-728.
- Khachatourians, G. G., McHughen, A., Scorza, R., Nip, W. K. & Hui, Y. H. (2001). *Transgenic plants and crops*.
- Komarova, R. & Vlasova, E. (1974). Diseases of lettuce under cover. *Kartofel' i Ovoshchi* **9**, 40-41.
- Krause, R., Le Gall, O., Pavan, M. A., Maciel-Zambolim, E., Carvalho, M. G. & Zerbini, F. M. (1999). Phylogenetic analysis of the capsid protein gene of two Brazilian isolates of *Lettuce mosaic virus* (LMV) belonging to distinct pathotypes. *Virus Reviews and Research* **Suppl. 4**, 153-154.
- Krause, R., Le Gall, O., Pavan, M. A., Maciel-Zambolim, E., Carvalho, M. G. & Zerbini, F. M. (1999). Systemic necrosis caused by two isolates of *Lettuce mosaic virus* (LMV) in lettuce (*Lactuca sativa*) cultivars possessing the *Mo2* gene. *Virus Reviews and Research* **Suppl. 4**, 153.
- Krause-Sakate, R., Fakhfakh, H., Peypelut, M., Candresse, T., Le Gall, O. & Zerbini, F. M. (2001). First evidence of a naturally occurring recombinant isolate of *Lettuce mosaic virus* (LMV). *Virus Reviews and Research* **6**, 157.
- Krause-Sakate, R., Fakhfakh, H., Peypelut, M., Pavan, M. A., Zerbini, F. M., Marrakchi, M., Candresse, T. & Le Gall, O. (2004). A naturally occurring recombinant isolate of Lettuce mosaic virus. *Archives of Virology* **149**, 191-197.
- Krause-Sakate, R., Jadão, A. S., Firmino, A. C., Pavan, M. A., Zerbini, F. M., Rosales, I. M., Bustamante, P. & Le Gall, O. (2005). First report of a lettuce-infecting sequivirus in Chile. *Plant Disease* **89**, 1129.
- Krause-Sakate, R., Jadão, A. S., Marais, A., Svanella-Dumas, L., Pavan, M. A., Zerbini, F. M., Candresse, T. & Le Gall, O. (2003). Development of specific primers for the detection of Lettuce mottle virus (LeMoV), a possible sequivirus isolated from lettuce in Brazil. *Virus Reviews and Research* **8**, 195.
- Krause-Sakate, R., Le Gall, O., Fakhfakh, H., Peypelut, M., Marrakchi, M., Varveri, C., Pavan, M. A., Souche, S., Lot, H., Zerbini, F. M. & other authors (2002). Molecular and biological characterization of Lettuce mosaic virus (LMV) isolates reveals a distinct and widespread type of resistance-breaking isolate: LMV-Most. *Phytopathology* **92**, 563-572.
- Krause-Sakate, R., Mello, R. N., Pavan, M. A., Zambolim, E. M., Carvalho, M. G., Le Gall, O. & Zerbini, F. M. (2001). Molecular characterization of two Brazilian isolates of Lettuce mosaic virus with distinct biological properties. *Fitopatologia Brasileira* **26**, 153-157.

- Krause-Sakate, R., Peypelut, M., Pavan, M. A., Candresse, T., Zerbini, F. M. & Le Gall, O. (2001).** Specific detection of *Lettuce mosaic virus* (LMV) isolates of the Most strain. *Fitopatologia Brasileira* **26** (suppl.), 529.
- Krause-Sakate, R., Redondo, E., Forget-Richard, F., Houvenaghel, M. C., Pavan, M. A., Candresse, T., Zerbini, F. M. & Le Gall, O. (2001).** Mapping of the viral determinants of systemic necrosis induced by an isolate of *Lettuce mosaic virus* (LMV) in the cultivar Ithaca-Br. *Brazilian Phytopathology* **26**, 537-538.
- Krause-Sakate, R., Redondo, E., Richard-Forget, F., Jadao, A. S., Houvenaghel, M.-C., German-Retana, S., Pavan, M. A., Candresse, T., Zerbini, F. M. & Le Gall, O. (2005).** Molecular mapping of the viral determinants of systemic wilting induced by a *Lettuce mosaic virus* (LMV) isolate in some lettuce cultivars. *Virus Research* **109**, 175-180.
- Krause-Sakate, R., Richard-Forget, F., Redondo, E., Pavan, M. A., Zerbini, F. M., Candresse, T. & Le Gall, O. (in press).** Quantitative control of *Lettuce mosaic virus* fitness and host defence inhibition by P1-HcPro. *Summa Phytopathologica*.
- Krijthe, J. M. (1973).** Plant disease resistance. In *Annual report 1972, Institute for Phytopathological Research*, pp. 47-52.
- Kumar, S., Latham, L. & Wood, C. (2000).** Controlling Sclerotinia and big vein virus in Iceberg lettuce. In *Australian Lettuce Industry Conference, Hay, New South Wales, Australia, 6-8 June, 2000*, pp. 86-90.
- Kuwata, S., Kubo, S., Yamashita, S. & Doi, Y. (1983).** Rod-shaped particles, a probable entity of lettuce big vein virus. *Annals of the Phytopathological Society of Japan* **49**, 246-251.
- Kyle, M. M. (1993).** *Resistance to viral diseases of vegetables: genetics and breeding*.
- Latham, L. J. & Jones, R. A. C. (1997).** Occurrence of tomato spotted wilt tospovirus in native flora, weeds, and horticultural crops. *Australian Journal of Agricultural Research* **48**, 359-369.
- Latham, L. J. & Jones, R. A. C. (2004).** Deploying partially resistant genotypes and plastic mulch on the soil surface to suppress spread of lettuce big-vein disease in lettuce. *Australian Journal of Agricultural Research* **55**, 131-138.
- Latham, L. J., Jones, R. A. C. & McKirdy, S. J. (2004).** Lettuce big-vein disease: sources, patterns of spread, and losses. *Australian Journal of Agricultural Research* **55**, 125-130.
- Le Gall, O. (2003).** *Lettuce mosaic virus*. In *CMI/AAB Description of Plant Viruses*, p. n°399. Edited by A. T. Jones, D. J. Robinson, N. Boonham & R. Mumford. Wellesbourne, UK: Association of Applied Biologists.
- Le Gall, O. (2006).** Lettuce mosaic virus. In *Wikipedia, the free encyclopedia*, p. http://en.wikipedia.org/wiki/Lettuce_mosaic_virus.
- Le Gall, O., Candresse, T., Redondo, E., German-Retana, S., Alias, E., Yang, S. J., Revers, F., Lot, H., Souche, S. & Dunez, J. (1999).** Use of infectious cDNA to study the pathogenicity of *Lettuce mosaic potyvirus* (LMV). *Petria* **9**, 322.
- Le Gall, O., Krause-Sakate, R., Peypelut, M., Fakhfakh, H., Marrakchi, M., Varveri, C., Pavan, M. A., Souche, S., Lot, H., Zerbini, F. M. & other authors (2001).** Molecular characterization of *Lettuce mosaic virus* (LMV) isolates reveals the emergence of a resistance-breaking strain, LMV-Most. *Fitopatologia Brasileira* **26** (suppl.), 530.
- Lebeda, A. (1986).** *Metody testovani rezistence zelenin vuci rostlinnym patogenum (Methods of testing vegetable crops for resistance to plant pathogens)*: Olomouc; Czechoslovakia.
- Lelivelt, C. L. C., McCabe, M. S., Newell, C. A., deSnoo, C. B., van Dun, K. M. P., Birch-Machin, I., Gray, J. C., Mills, K. H. G. & Nugent, J. M. (2005).** Stable plastid transformation in lettuce (*Lactuca sativa* L.). *Plant Molecular Biology* **58**, 763-774.
- Loebenstein, G. & Raccach, B. (1980).** Control of non-persistently transmitted aphid-borne viruses. *Phytoparasitica* **8**, 225-235.
- Lot, H., Campbell, R. N., Souche, S., Milne, R. G. & Roggero, P. (2002).** Transmission by *Olpidium brassicae* of Mirafiori lettuce virus and Lettuce big-vein virus, and their roles in lettuce big-vein etiology. *Phytopathology* **92**, 288-293.
- Lovato, F. A., Bezerra, I. C., Resende, R. d. O., Ferreira, A. T. & Torres, A. C. (1998).** Genetic transformation of lettuce cv. Veronica by *Agrobacterium tumefaciens*. *Revista Brasileira de Fisiologia Vegetal* **10**, 219-224.
- Maddox, D. A. (1998).** Implications of new technologies for seed health testing and the worldwide movement of seed. *Seed Science Research* **8**, 277-284.

- Maisonneuve, B. (2003).** Lactuca virosa, a source of disease resistance genes for lettuce breeding: results and difficulties for gene introgression. In *EUCARPIA leafy vegetables 2003 Proceedings of the EUCARPIA Meeting on Leafy Vegetables Genetics and Breeding, Noordwijkerhout, Netherlands, 19-21 March 2003*, pp. 61-67.
- Maisonneuve, B., Chovelon, V. & Lot, H. (1991).** Inheritance of resistance to beet western yellows virus in Lactuca virosa L. *HortScience* **26**, 1543-1545.
- Maisonneuve, B., Chupeau, M. C., Bellec, Y. & Chupeau, Y. (1995).** Sexual and Somatic Hybridization in the Genus Lactuca. *Euphytica* **85**, 281-285.
- Manoussopoulos, I. N., Chatzivassiliou, E. K., Smyrnioudis, I. N. & Katis, N. I. (1999).** Two diseases of dimorphotheca caused by lettuce mosaic potyvirus and tomato spotted wilt tospovirus. *Phytoparasitica* **27**, 227-232.
- Marchoux, G., Hostachy, B., Gebre-Selassie, K. & Gognalons, P. (2000).** Tomato spotted wilt virus: hosts and control methods. *PHM Revue Horticole*, 46-52.
- Mazier, M., German-Retana, S., Flamain, F., Dubois, V., Botton, E., Sarnette, V., Le Gall, O., Candresse, T. & Maisonneuve, B. (2004).** A simple and efficient method for testing Lettuce mosaic virus resistance in in vitro cultivated lettuce. *Journal of Virological Methods* **116**, 123-131.
- McCabe, M. S., Mohapatra, U. B., Debnath, S. C., Power, J. B. & Davey, M. R. (1999).** Integration, expression and inheritance of two linked T-DNA marker genes in transgenic lettuce. *Molecular Breeding* **5**, 329-344.
- McCabe, M. S., Schepers, F., Arend, A. v. d., Mohapatra, U., Laat, A. M. M. d., Power, J. B. & Davey, M. R. (1999).** Increased stable inheritance of herbicide resistance in transgenic lettuce carrying a petE promoter-bar gene compared with a CaMV 35S-bar gene. *Theoretical and Applied Genetics* **99**, 587-592.
- McClintock, K., Lamarre, A., Parsons, V., Laliberte, J. F. & Fortin, M. G. (1998).** Identification of a 37 kDa plant protein that interacts with the turnip mosaic potyvirus capsid protein using anti-idiotypic-antibodies. *Plant Molecular Biology* **37**, 197-204.
- McCreight, J. D. (1987).** Resistance in wild lettuce to lettuce infectious yellows virus. *HortScience* **22**, 640-642.
- McCreight, J. D., Kishaba, A. N. & Mayberry, K. S. (1986).** Lettuce infectious yellows tolerance in lettuce. *Journal of the American Society for Horticultural Science* **111**, 788-792.
- McDaniel, L. L., Raid, R. N., Elliott, C. L., Tsai, J. H. & Nagata, R. T. (1992).** Purification and Serological Characterization of a Tobacco Streak Virus Isolate Infecting Field-Grown Escarole and Lettuce. *Plant Disease* **76**, 966-971.
- Medina, V., Rodrigo, G., Tian, T. Y., Juarez, M., Dolja, V. V., Achon, M. A. & Falk, B. W. (2003).** Comparative cytopathology of Crinivirus infections in different plant hosts. *Annals of Applied Biology* **143**, 99-110.
- Medina, V., Sudarshana, M. R., Tian, T., Ralston, K. S., Yeh, H. H. & Falk, B. W. (2005).** The Lettuce infectious yellows virus (LIYV)-encoded P26 is associated with plasmalemma deposits within LIYV-infected cells. *Virology* **333**, 367-373.
- Medina, V., Tian, T. Y., Wierzos, J. & Falk, B. W. (1998).** Specific inclusion bodies are associated with replication of lettuce infectious yellows virus RNAs in Nicotiana benthamiana protoplasts. *Journal of General Virology* **79**, 2325-2329.
- Meissner, H., Hentschel, A. & Bielau, R. (1984).** Groups of cultivars for sequential culture of cabbage lettuce. *Gartenbau* **31**, 135-136.
- Meunier, S. & Verhoyen, M. (1989).** Inhibition of the transmission of lettuce big vein virus (lettuce big vein disease) in lettuce crops. *Mededelingen van de Faculteit Landbouwwetenschappen, Rijksuniversiteit Gent* **54**, 657-664.
- Michon, T., Estevez, Y., Walter, J., German-Retana, S. & Le Gall, O. (2006).** The potyviral virus genome-linked protein VPg forms a ternary complex with the eukaryotic initiation factors eIF4E and eIF4G and reduces eIF4E affinity for a mRNA cap analogue. *Febs Journal* **273**, 1312-1322.
- Mohapatra, U., McCabe, M. S., Power, J. B., Schepers, F., Van der Arend, A. & Davey, M. R. (1999).** Expression of the bar gene confers herbicide resistance in transgenic lettuce. *Transgenic Research* **8**, 33-44.
- Mojtahedi, H., Boydston, R. A., Thomas, R. E., Crosslin, J. M., Santo, G. S., Riga, E. & Anderson, I. L. (2003).** Weed hosts of Paratrichodorus allius and tobacco rattle virus in the pacific northwest. *American Journal of Potato Research* **80**, 379-385.

- Montalti, M. (2005).** Main enemies of lettuce in the greenhouse. *Colture Protette* **34**, 23-29.
- Montesclaros, L., Nicol, N., Ubalijoro, E., Leclerc-Potvin, C., Ganivet, L., Laliberte, J. F. & Fortin, M. G. (1997).** Response to potyvirus infection and genetic mapping of resistance loci to potyvirus infection in *Lactuca*. *Theoretical and Applied Genetics* **94**, 941-946.
- Morbel, J., Jager, U., Wetzel, T., Krczal, G. & Feldhoff, A. (2002).** Transformation of *Osteospermum ecklonis* with lettuce mosaic potyvirus-derived constructs. *Acta Horticulturae* **568**, 155-158.
- Moreno, A., de Blas, C., Biurrun, R., Nebreda, M., Palacios, I., Duque, M. & Fereres, A. (2004).** The incidence and distribution of viruses infecting lettuce, cultivated Brassica and associated natural vegetation in Spain. *Annals of Applied Biology* **144**, 339-346.
- Muniz, M. (2000).** Host suitability of two biotypes of *Bemisia tabaci* on some common weeds. *Entomologia Experimentalis Et Applicata* **95**, 63-70.
- Murphy, J. F., Andrianifahanana, M. & Sikora, E. J. (1999).** Detection of cucumber mosaic cucumovirus in weed species: a cautionary report on nonspecific reactions in ELISA. *Canadian Journal of Plant Pathology-Revue Canadienne De Phytopathologie* **21**, 338-344.
- Nagai, H. & Costa, A. S. (1971).** Incorporation of resistance to mosaic virus in butter-head lettuce. *Arquivos do Instituto Biologico* **38**, 95-103.
- Nagata, R. T., Guzman, V. L., Datnoff, L. E. & Raid, R. N. (1992).** Florida Buttercrisp Corky Root-Resistant Butterhead Lettuce. *Hortscience* **27**, 934-935.
- Nakano, M., Makino, M. & Sueyoshi, K. (2003).** Agrobacterium-mediated transformation of lettuce widely cultivated in Japan. *Bulletin of the Faculty of Agriculture, Niigata University* **56**, 59-66.
- Napier, T. & Watson, A. (2001).** Lettuce - a variety of choices at Hay. *Farmers' Newsletter, Horticulture* **185**, 40-42.
- Navarro, J. A., Botella, F., Marhuenda, A., Sastre, P., Sanchez-Pina, M. & Pallas, V. (2005).** Identification and partial characterisation of Lettuce big-vein associated virus and Mirafiori lettuce big-vein virus in common weeds found amongst Spanish lettuce crops and their role in lettuce big-vein disease transmission. *European Journal of Plant Pathology* **113**, 25-34.
- Navarro, J. A., Botella, F., Maruhenda, A., Sastre, P., Sanchez-Pina, M. A. & Pallas, V. (2004).** Comparative infection progress analysis of Lettuce big-vein virus and Mirafiori lettuce virus in lettuce crops by developed molecular diagnosis techniques. *Phytopathology* **94**, 470-477.
- Navarro, J. A., Torok, V. A., Vetten, H. J. & Pallas, V. (2005).** Genetic variability in the coat protein genes of lettuce big-vein associated virus and Mirafiori lettuce big-vein virus. *Archives of Virology* **150**, 681-694.
- Nebreda, M., Moreno, A., Perez, N., Palacios, I., Seco-Fernandez, V. & Fereres, A. (2004).** Activity of aphids associated with lettuce and broccoli in Spain and their efficiency as vectors of Lettuce mosaic virus. *Virus Research* **100**, 83-88.
- Ng, J. C. K., Tian, T. Y. & Falk, B. W. (2004).** Quantitative parameters determining whitefly (*Bemisia tabaci*) transmission of Lettuce infectious yellows virus and an engineered defective RNA. *Journal of General Virology* **85**, 2697-2707.
- Nicaise, V., German-Retana, S., Sanjuan, R., Dubrana, M. P., Mazier, M., Maisonneuve, B., Candresse, T., Caranta, C. & Le Gall, O. (2003).** The eukaryotic translation initiation factor 4E controls lettuce susceptibility to the potyvirus *Lettuce mosaic virus*. *Plant Physiology* **132**, 1272-1282.
- Nicaise, V., German-Retana, S., Sanjuan, R., Dubrana, M. P., Mazier, M., Maisonneuve, B., Candresse, T., Caranta, C. & Le Gall, O. (2003).** Molecular characterization of mo1, a recessive gene associated with Lettuce mosaic potyvirus resistance in lettuce. In *EUCARPIA leafy vegetables 2003 Proceedings of the EUCARPIA Meeting on Leafy Vegetables Genetics and Breeding, Noordwijkerhout, Netherlands, 19-21 March 2003*, pp. 143-148.
- Nicaise, V., German-Retana, S., Sanjuán, R., Revers, F., Guiraud, T., Peypelut, M., Dubrana, M. P., Mazier, M., Maisonneuve, B., Candresse, T. & other authors (2004).** The cap-binding protein, eIF4E, controls susceptibility to *Lettuce mosaic potyvirus* in *Arabidopsis thaliana* and lettuce. In *Biology of Plant-Microbe Interactions*, pp. 89-93. Edited by I. Tikhonovich, B. Lugtenberg & N. Provorov. St-Paul, Minnesota, USA: IS-MPMI.
- Nuessly, G. S. & Perring, T. M. (1995).** Influence of Endosulfan on *Bemisia-Tabaci* (Homoptera, Aleyrodidae) Populations, Parasitism, and Lettuce Infectious Yellows Virus in Late-Summer Planted Cantaloupe. *Journal of Entomological Science* **30**, 49-61.

- O'Malley, P. J. & Hartmann, R. W. (1989).** Resistance to tomato spotted wilt virus in lettuce. *HortScience* **24**, 360-362.
- Paludan, N. (1985).** Spread of viruses by recirculated nutrient solutions in soilless cultures. *Tidsskrift for Planteavl* **89**, 467-474.
- Pang, S. Z., Jan, F. J., Carney, K., Stout, J., Tricoli, D. M., Quemada, H. D. & Gonsalves, D. (1996).** Post-transcriptional transgene silencing and consequent tospovirus resistance in transgenic lettuce are affected by transgene dosage and plant development. *Plant Journal* **9**, 899-909.
- Pang, S. Z., Nagpala, P., Wang, M., Slightom, J. L. & Gonsalves, D. (1992).** Resistance to Heterologous Isolates of Tomato Spotted Wilt Virus in Transgenic Tobacco Expressing Its Nucleocapsid Protein Gene. *Phytopathology* **82**, 1223-1229.
- Pang, S. Z., Slightom, J. L. & Gonsalves, D. (1993).** Different mechanisms protect transgenic tobacco against tomato spotted wilt and impatiens necrotic spot Tospoviruses. *Biotechnology (N Y)* **11**, 819-824.
- Pavan, M. A., Krause-Sakate, R., Jadão, A. S., Zerbini, F. M. & Le Gall, O. (2001).** Molecular and epidemiological aspects of viruses infecting lettuce. *Virus Reviews and Research* **6**, 49.
- Pelet, F., Gagnebin, F. & Bonnet, J. C. (1978).** Performance of lettuce lines resistant to mosaic. *Revue Horticole Suisse* **51**, 5-16.
- Peypelut, M., Krause-Sakate, R., Guiraud, T., Pavan, M. A., Candresse, T., Zerbini, F. M. & Le Gall, O. (2004).** Specific detection of Lettuce mosaic virus isolates belonging to the "Most" type. *Journal of Virological Methods* **121**, 119-124.
- Phillips, S. & Brunt, A. A. (1983).** Virology: vegetable crops. In *Annual Report Glasshouse Crops Research Institute 1981*, pp. 146-147. Littlehampton, West Sussex UK.
- Pileggi, M., Pereiara, A. A. M., Silva, J. D., Pileggi, S. A. V. & Verma, D. P. S. (2001).** An improved method for transformation of lettuce by *Agrobacterium tumefaciens* with a gene that confers freezing resistance. *Brazilian Archives of Biology and Technology* **44**, 191-196.
- Pineda Lopez, B. & Martinez Lopez, G. (1977).** Preliminary observations on the presence of *Olpidium brassicae* (Wor.) Dang. and its possible association with the lettuce big-vein agent in Colombia. *Fitopatologia* **12**, 20-23.
- Pink, D. A. C. (2002).** Strategies using genes for non-durable disease resistance. *Euphytica* **124**, 227-236.
- Pink, D. A. C., Carter, P. J. & Walkey, D. G. A. (1986).** Genetics of plant resistance to diseases in vegetables. Lettuce. *36th Annual report 1985, National Vegetable Research Station*, 47-47.
- Pink, D. A. C., Kostova, D. & Walkey, D. G. A. (1992).** Differentiation of pathotypes of lettuce mosaic virus. *Plant Pathology* **41**, 5-12.
- Pink, D. A. C., Lot, H. & Johnson, R. (1992).** Novel pathotypes of lettuce mosaic virus - breakdown of a durable resistance? *Euphytica* **63**, 169-174.
- Pink, D. A. C. & McClement, S. J. (1995).** Utilisation of genetic resources in lettuce breeding in the United Kingdom. *Zahradnictvi* **22**, 129-131.
- Pink, D. A. C., Walkey, D. G. A. & McClement, S. J. (1991).** Genetics of Resistance to Beet Western Yellows Virus in Lettuce. *Plant Pathology* **40**, 542-545.
- Ponti, O. d. (1984).** Working Group WPRS/EUCARPIA 'Breeding for Resistance to Insects and Mites', 3rd Meeting, Capbreton, France, 6-9 April 1983. In *Bulletin, SROP*, p. 82.
- Provvidenti, R. (1977).** Evaluation of vegetable introductions from the People's Republic of China for resistance to viral diseases. *Plant Disease Reporter* **61**, 851-855.
- Provvidenti, R., Robinson, R. W. & Shail, J. W. (1980).** A source of resistance to a strain of cucumber mosaic virus in *Lactuca saligna* L. *HortScience* **15**, 528-529.
- Provvidenti, R., Robinson, R. W. & Shail, J. W. (1984).** Incidence of broad bean wilt virus in lettuce in New York State and sources of resistance. *HortScience* **19**, 569-570.
- Puite, K. J. (1992).** Progress in Plant Protoplast Research. *Physiologia Plantarum* **85**, 403-410.
- Raccah, B., Barnett, A. & Loebenstein, G. (1980).** Recent approaches for control of non-persistently transmitted aphid-borne viruses. *Acta Horticulturae*, 235-243.

- Rast, A. T. B. (1992).** Host Range Comparison of the Causal Agents of Pepper Yellow Vein and Lettuce Big Vein. *Netherlands Journal of Plant Pathology* **98**, 325-328.
- Raybould, A. F. & Gray, A. J. (1993).** Genetically-Modified crops and hybridization with wild relatives - a UK perspective. *Journal of Applied Ecology* **30**, 199-219.
- Redondo, E., Krause-Sakate, R., Yang, S. J., Lot, H., Le Gall, O. & Candresse, T. (2001).** Lettuce mosaic virus (LMV) pathogenicity determinants in susceptible and tolerant lettuce varieties map to different regions of the viral genome. *Molecular Plant-Microbe Interactions* **14**, 804-810.
- Revers, F., Guiraud, T., Houvenaghel, M. C., Mauduit, T., Le Gall, O. & Candresse, T. (2003).** Multiple resistance phenotypes to Lettuce mosaic virus among *Arabidopsis thaliana* accessions. *Mol Plant Microbe Interact* **16**, 608-616.
- Revers, F., Lot, H., Souche, S., Le Gall, O., Candresse, T. & Dunez, J. (1997).** Biological and molecular variability of lettuce mosaic virus isolates. *Phytopathology* **87**, 397-403.
- Revers, F., van der Vlugt, R. A. A., Souche, S., Lanneau, M., Lot, H., Candresse, T. & Le Gall, O. (1999).** Nucleotide sequence of the 3' terminal region of the genome of four Lettuce mosaic virus isolates from Greece and Yemen. *Archives of Virology* **144**, 1619-1626.
- Revers, F., Yang, S. J., Walter, J., Souche, S., Lot, H., Le Gall, O., Candresse, T. & Dunez, J. (1997).** Comparison of the complete nucleotide sequences of two isolates of lettuce mosaic virus differing in their biological properties. *Virus Res* **47**, 167-177.
- Robbins, M. A., Witsenboer, H., Michelmore, R. W., Laliberte, J. F. & Fortin, M. G. (1994).** Genetic mapping of turnip mosaic virus resistance in *Lactuca sativa*. *Theoretical and Applied Genetics* **89**, 583-589.
- Rodenburg, C. M. (1975).** Lettuce cultivars looked at for their characteristics. *Groenten en Fruit* **31**, 860-861.
- Roggero, P., Ciuffo, M., Vaira, A. M., Accotto, G. P., Masenga, V. & Milne, R. G. (2000).** An Ophiovirus isolated from lettuce with big-vein symptoms. *Archives of Virology* **145**, 2629-2642.
- Roggero, P., Lot, H., Souche, S., Lenzi, R. & Milne, R. G. (2003).** Occurrence of Mirafiori lettuce virus and Lettuce big-vein virus in relation to development of big-vein symptoms in lettuce crops. *European Journal of Plant Pathology* **109**, 261-267.
- Rojas, M. R., Zerbini, F. M., Allison, R. F., Gilbertson, R. L. & Lucas, W. J. (1997).** Capsid protein and helper component proteinase function as potyvirus cell-to-cell movement proteins. *Virology* **237**, 283-295.
- Rosales, I. M., Sepulveda, P. & Bruna, A. (2004).** First report of Lettuce big-vein virus and Mirafiori lettuce virus in Chile. *Plant Disease* **88**, 1286-1286.
- Roudet-Tavert, G., German-Retana, S., Delaunay, T., Delecolle, B., Candresse, T. & Le Gall, O. (2002).** Interaction between potyvirus helper component-proteinase and capsid protein in infected plants. *Journal of General Virology* **83**, 1765-1770.
- Rubio, L., Soong, J., Kao, J. & Falk, B. W. (1999).** Geographic distribution and molecular variation of isolates of three whitefly-borne closteroviruses of cucurbits: Lettuce infectious yellows virus, cucurbit yellow stunting disorder virus, and beet pseudo-yellows virus. *Phytopathology* **89**, 707-711.
- Rubio, L., Tian, T. Y., Yeh, H. H., Livieratos, Y. & Falk, B. W. (2002).** De novo generation of Lettuce infectious yellows virus defective RNAs in protoplasts. *Molecular Plant Pathology* **3**, 321-327.
- Rubio, L., Yeh, H. H., Tian, T. Y. & Falk, B. W. (2000).** A heterogeneous population of defective RNAs is associated with Lettuce infectious yellows virus. *Virology* **271**, 205-212.
- Ryder, E. J. (1964).** Transmission of common lettuce mosaic virus through the gametes of the lettuce plant. *Plant Disease Reporter* **48**, 522-523.
- Ryder, E. J. (1970).** Inheritance of resistance to common lettuce mosaic. *Journal of the American Society for Horticultural Sciences* **95**, 378-379.
- Ryder, E. J. (1973).** Seed transmission of lettuce mosaic virus in mosaic resistant lettuce. *Journal of the American Society for Horticultural Science* **98**, 610-614.
- Ryder, E. J. (1975).** Breeding lettuce for resistance to big vein. *HortScience* **10**, 314.
- Ryder, E. J. (1976).** The nature of resistance to lettuce mosaic. *Netherlands, Institute for Horticultural Plant Breeding: Proceedings Eucarpia meeting on leafy vegetables, Wageningen, 15-18 March 1976 II*, 110-118.

- Ryder, E. J. (1977). Big vein resistance in lettuce. *HortScience* **12**, 402.
- Ryder, E. J. (1979). Effects of big vein resistance and temperature on disease incidence and percentage of plants harvested of crisphead lettuce. *Journal of the American Society for Horticultural Science* **104**, 665-668.
- Ryder, E. J. (1979). 'Vanguard 75' lettuce. *HortScience* **14**, 284-286.
- Ryder, E. J. (1980). Studies on sources and nature of big vein resistance in lettuce and progress in breeding resistant cultivars. In Maxon Smith, J W : *Proceedings, Eucarpia meeting on leafy vegetables, Littlehampton, 11-14 March 1980*, pp. 78-85.
- Ryder, E. J. (1981). 'Thompson' lettuce. *HortScience* **16**, 687-688.
- Ryder, E. J. (1985). Use of early flowering genes to reduce generation time in backcrossing, with specific application to lettuce breeding. *Journal of the American Society for Horticultural Science* **110**, 570-573.
- Ryder, E. J. (1986). 'Winterset' lettuce. *HortScience* **21**, 1464-1465.
- Ryder, E. J. (1991). 'Salinas 88' lettuce. *HortScience* **26**, 439-440.
- Ryder, E. J. (1996). Inheritance of chlorophyll deficiency traits in lettuce. *Journal of Heredity* **87**, 314-318.
- Ryder, E. J. (1996). Ten lettuce genetic stocks with early flowering genes Ef-1ef-1 and Ef-2ef-2. *Hortscience* **31**, 473-475.
- Ryder, E. J. (2002). Inheritance and interactions of necrotic, mottled, and resistant reactions to lettuce mosaic virus in lettuce. *Journal of the American Society for Horticultural Science* **127**, 279-283.
- Ryder, E. J. (2002). A mild systemic reaction to lettuce mosaic virus in lettuce: Inheritance and interaction with an allele for resistance (vol 127, pg 814, 2002). *Journal of the American Society for Horticultural Science* **127**, 1025-1025.
- Ryder, E. J., Grube, R. C., Subbarao, K. V. & Koike, S. T. (2003). Breeding for resistance to diseases in lettuce: successes and challenges. In *EUCARPIA leafy vegetables 2003 Proceedings of the EUCARPIA Meeting on Leafy Vegetables Genetics and Breeding, Noordwijkerhout, Netherlands, 19-21 March 2003*, pp. 25-30.
- Ryder, E. J. & Johnson, A. S. (1974). A method for indexing lettuce seeds for seedborne lettuce mosaic virus by airstream separation of light from heavy seeds. *Plant Disease Reporter* **58**, 1037-1039.
- Ryder, E. J. & Milligan, D. C. (2005). Additional genes controlling flowering time in *Lactuca sativa* and *L. serriola*. *Journal of the American Society for Horticultural Science* **130**, 448-453.
- Ryder, E. J. & Robinson, B. J. (1991). 'Pacific' lettuce. *HortScience* **26**, 437-438.
- Ryder, E. J. & Robinson, B. J. (1995). Big-vein resistance in lettuce: identifying, selecting, and testing resistant cultivars and breeding lines. *Journal of the American Society for Horticultural Science* **120**, 741-746.
- Ryder, E. J. & Waycott, W. (1994). Crisphead Lettuce Resistant to Corky Rot - Cultivars Glacier and Misty Day and 16 Resistant Breeding Lines. *Hortscience* **29**, 335-336.
- Ryder, E. J. & Waycott, W. (1998). Crisphead lettuce resistant to tipburn: Cultivar Tiber and eight breeding lines. *Hortscience* **33**, 903-904.
- Ryder, E. J., Waycott, W. & McCreight, J. D. (1991). 'Autumn Gold' lettuce. *HortScience* **26**, 438-439.
- Sala, F., Basso, B., Casati, D. & Frisio, D. (2002). Typical varieties at risk of extinction: contribution of biotechnology to saving them. *Informatore Agrario* **58**, 43-58.
- Sala, F. C. & Costa, C. P. d. (2005). 'PIRAROXA': triple red lettuce cultivar. *Horticultura Brasileira* **23**, 158-159.
- Saroha, M. K., Sridhar, P. & Malik, V. S. (1998). Glyphosate-tolerant crops: genes and enzymes. *Journal of Plant Biochemistry and Biotechnology* **7**, 65-72.
- Sasaya, T., Ishikawa, K. & Koganezawa, H. (2001). Nucleotide sequence of the coat protein gene of Lettuce big-vein virus. *Journal of General Virology* **82**, 1509-1515.
- Sasaya, T., Ishikawa, K. & Koganezawa, H. (2002). The nucleotide sequence of RNA1 of Lettuce big-vein virus, genus *Varicosavirus*, reveals its relation to nonsegmented negative-strand RNA viruses. *Virology* **297**, 289-297.
- Sasaya, T., Ishikawa, K. & Koganezawa, H. (2003). Analysis of RNA1 of Lettuce big-vein virus, genus *Varicosavirus* reveals its relation to rhabdoviruses. *Proceedings of the Fifth Symposium of the International Working Group on Plant Viruses with Fungal Vectors, Institute of Plant Sciences, Swiss Federal Institute of Technology*,

Zurich, Switzerland, 22-25 July, 2002, 21-24.

- Sasaya, T., Ishikawa, K., Kuwata, S. & Koganezawa, H. (2005).** Molecular analysis of coat protein coding region of tobacco stunt virus shows that it is a strain of Lettuce big-vein virus in the genus *Varicosavirus*. *Archives of Virology* **150**, 1013-1021.
- Sasaya, T., Kusaba, S., Ishikawa, K. & Koganezawa, H. (2004).** Nucleotide sequence of RNA2 of Lettuce big-vein virus and evidence for a possible transcription termination/initiation strategy similar to that of rhabdoviruses. *Journal of General Virology* **85**, 2709-2717.
- Schlaghecken & Pfunder (1977).** Lettuce varieties in the extreme summer of '76. *Gemuse* **13**, 36-37.
- Schlaghecken & Pfunder (1978).** 20 summer cabbage-lettuce varieties in a cultivation trial in 1977. *Gemuse* **14**, 12-14.
- Schmidt, H. E., Weber, I. & Kegler, H. (1981).** Economically important virus diseases in vegetables and their control. *Nachrichtenblatt für den Pflanzenschutz in der DDR* **35**, 220-225.
- Schweigsuth, B. (1976).** Practical efficiency of selection for lettuce mosaic virus resistance. *Netherlands, Institute for Horticultural Plant Breeding: Proceedings Eucarpia meeting on leafy vegetables, Wageningen, 15-18 March 1976 II*, 84-85.
- Seigner, L. (2005).** Two viruses are associated with lettuce big-vein disease. *Gesunde Pflanzen* **57**, 158-162.
- Sharma, H. C., Sharma, K. K., Nadoor, S. & Ortiz, R. (2000).** Prospects for using transgenic resistance to insects in crop improvement. *EJB, Electronic Journal of Biotechnology* **3**, 1-26.
- Shen, K. A., Meyers, B. C., Islam-Faridi, M. N., Chin, D. B., Stelly, D. M. & Michelmore, R. W. (1998).** Resistance gene candidates identified by PCR with degenerate oligonucleotide primers map to clusters of resistance genes in lettuce. *Molecular Plant-Microbe Interactions* **11**, 815-823.
- Silvers, C. S., Gianessi, L. P., Carpenter, J. E. & Sankula, S. (2003).** Current and potential role of transgenic crops in U.S. agriculture. *Journal of Crop Production* **9**, 501-530.
- Soleimani, P., Mossahebi, G. H., Koohi-Habibi, M., Zad, J. & Hosseini-Farhangi, S. (2004).** Biological and molecular characterization of lettuce mosaic virus from Tehran province in Iran. *Communications in Agricultural and Applied Biological Sciences* **69**, 519-524.
- Stangarlin, O., Pavan, M. A. & Silva, N. d. (2000).** Occurrence of a new pathotype of lettuce mosaic virus on lettuce in Brazil. *Plant Disease* **84**, 490.
- Stansly, P. A., Liu, T. X. & Vavrina, C. S. (1998).** Response of *Bemisia argentifolii* (Homoptera : Aleyrodidae) to imidacloprid under greenhouse, field, and laboratory conditions. *Journal of Economic Entomology* **91**, 686-692.
- Tamaki, H., Robinson, R. W., Anderson, J. L. & Stoewsand, G. S. (1995).** Sesquiterpene lactones in virus-resistant lettuce. *Journal of Agricultural and Food Chemistry* **43**, 6-8.
- Tamura, H., Akioka, T., Ueno, K., Chujo, T., Okazaki, K., King, P. J. & Robinson, W. E. (2006).** Anti-human immunodeficiency virus activity of 3,4,5-tricaffeoylquinic acid in cultured cells of lettuce leaves. *Molecular Nutrition & Food Research* **50**, 396-400.
- Thomas, C. A. (1981).** Inheritance of resistance to lettuce mosaic virus in safflower. *Phytopathology* **71**, 817-818.
- Tian, T. Y., Rubio, L., Yeh, H. H., Crawford, B. & Falk, B. W. (1999).** Lettuce infectious yellows virus: in vitro acquisition analysis using partially purified virions and the whitefly *Bemisia tabaci*. *Journal of General Virology* **80**, 1111-1117.
- Tjavella-Klonari, K., Manousopoulos, J., Katis, N., Tomlinson, J. A. & Clay, C. M. (1991).** Occurrence of lettuce big vein disease in Greece. *Acta Horticulturae* **287**, 435-441.
- Tomlinson, J. A. & Faithfull, E. M. (1980).** Studies on the control of lettuce big-vein disease in recirculated nutrient solutions. *Acta Horticulturae* **98**, 325-332.
- Tomlinson, J. A. & Faithfull, E. M. (1980).** The use of surfactants for the control of lettuce big-vein disease. In *UK, British Crop Protection Council: Proceedings of the 1979 British Crop Protection Conference, Pests and Diseases (10th British Insecticide and Fungicide Conference)*, pp. 341-346.
- Tomlinson, J. A., Faithfull, E. M., Clay, C. M., Taylor, J. D., White, J. G. & Ward, C. M. (1982).** Virus diseases of lettuce. In *32nd Annual Report for 1981, National Vegetable Research Station*, pp. 82-84.

- Tomlinson, J. A., Faithfull, E. M., Clay, C. M. & White, J. G. (1981).** Virus diseases of lettuce. In *31st Annual Report for 1980, National Vegetable Research Station*, pp. 82-85.
- Tomlinson, J. A., Faithfull, E. M. & Johnson, A. G. (1984).** Virus diseases of lettuce. Lettuce big-vein. In *34th Annual Report for 1983, National Vegetable Research Station*, p. 86.
- Tomlinson, J. A., Faithfull, E. M., Johnson, A. G., Bolland, C. J., Miller, A., Walkey, D. G. A. & Ward, C. M. (1984).** Virus diseases of lettuce. In *34th Annual Report for 1983, National Vegetable Research Station*, pp. 86-87.
- Tomlinson, J. A., Faithfull, E. M., Johnson, A. G. & McClement, S. J. (1985).** Virus diseases of lettuce. In *35th Annual Report for 1984, National Vegetable Research Station*, pp. 89-90.
- Tomlinson, J. A., Faithfull, E. M., White, J. G., Ward, C. M., Walkey, D. G. A. & Dance, M. C. (1979).** Virus diseases of lettuce. In *29th Annual Report for 1978, National Vegetable Research Station*, pp. 80-83.
- Torres, A. C., Cantliffe, D. J., Laughner, B., Bieniek, M., Nagata, R., Ashraf, M. & Ferl, R. J. (1993).** Stable Transformation of Lettuce Cultivar South Bay from Cotyledon Explants. *Plant Cell Tissue and Organ Culture* **34**, 279-285.
- Twardowicz-Jakusz, A. & Zielinska, L. (1997).** Occurrence and identification of viruses affecting lettuce in Poland. I. Survey of viruses affecting lettuce field plantations. *Journal of Plant Protection Research* **37**, 11-17.
- Twardowicz-Jakusz, A., Zielinska, L. & Kaniewski, W. (1997).** Occurrence and identification of viruses affecting lettuce in Poland. II. Dandelion yellow mosaic sequivirus (DYMV). *Journal of Plant Protection Research* **37**, 18-27.
- Twardowicz-Jakusz, A., Zielinska, L., Kaniewski, W., Pruszyńska, M. & Jackowiak, N. (1997).** Occurrence and identification of viruses affecting lettuce in Poland. III. Lettuce mosaic potyvirus (LMV), cucumber mosaic cucumovirus (CMV), tomato mosaic tobamovirus (ToMV) and lettuce big vein varicosavirus (LBVV). *Journal of Plant Protection Research* **37**, 28-44.
- Urcuqui-Inchima, S., Walter, J., Dugeon, G., German-Retana, S., Haenni, A.-L., Candresse, T., Bernardi, F. & Le Gall, O. (1999).** Potyvirus Helper component-proteinase self-interaction in the yeast two-hybrid system and delineation of the interaction domain involved. *Virology* **258**, 95-99.
- van de Wiel, C., Groot, M. & den Nijs, H. (2005).** Gene flow from crops to wild plants and its populationecological consequences in the context of GM-crop biosafety, including some recent experiences from lettuce. In *Environmental Costs and Benefits of Transgenic Crops*, pp. 97-110.
- van der Linden, C. G., Wouters, D. C., Mihalka, V., Kochieva, E. Z., Smulders, M. J. & Vosman, B. (2004).** Efficient targeting of plant disease resistance loci using NBS profiling. *Theor Appl Genet* **109**, 384-393.
- van der Wilk, F., Dullemans, A. M., Verbeek, M. & van den Heuvel, J. (2002).** Nucleotide sequence and genomic organization of an ophiovirus associated with lettuce big-vein disease. *Journal of General Virology* **83**, 2869-2877.
- Varveri, C., Peypelut, M., Le Gall, O. & Candresse, T. (2002).** Molecular characterization of Greek *Lettuce mosaic virus* isolates [in Greek]. *Hellenic Virology* **7**, 50-57.
- Vecchia, P. T. d. & Kikuchi, M. (1989).** "Gloria": a new smooth lettuce cultivar resistant to bolting. *Horticultura Brasileira* **7**, 29.
- Verbeek, M. & Wilk, F. v. d. (2002).** Lettuce big vein disease and lettuce ring necrosis, two complex diseases. *Gewasbescherming* **33**, 49-51.
- Verhoyen, M. (1983).** Identification and epidemiology of a particular strain of turnip mosaic virus on endive (*Cichorium endivia, latifolia*). *Mededelingen van de Faculteit Landbouwwetenschappen Rijksuniversiteit Gent* **48**, 859-869.
- Verhoyen, M. (1994).** Important plant virus problems in greenhouse-crops during 1993. *Parasitica* **50**, 53-56.
- Vetten, H. J. (2002).** Lettuce ring necrosis - new lettuce virus. *Gemuse (Munche)* **38**, 9-11.
- Vlasova, E. A. & Komarova, R. A. (1974).** A study of the main diseases of lettuce under cover in Leningrad province. *Trudy po Prikladnoi Botanike, Genetike i Seleksii* **53**, 185-194.
- Walkey, D. G. A., Bolland, C. J., Miller, A., Walsh, J. A., Tomlinson, J. A., Pink, D. A. C., Thomas, C. J. R. & Stanghellini, M. E. (1986).** Virus diseases of lettuce. *36th Annual Report for 1985, National Vegetable Research Station*, 54-56.

- Walkey, D. G. A. & Pink, D. A. C. (1990).** Studies on resistance to beet western yellows virus in lettuce (*Lactuca sativa*) and the occurrence of field sources of the virus. *Plant Pathology* **39**, 141-155.
- Walkey, D. G. A., Ward, C. M., Bolland, C. J. & Miller, A. (1983).** Virus diseases of lettuce - cucumber mosaic and beet western yellows virus. In *Annual report, 1982*, p. 79.
- Walkey, D. G. A., Ward, C. M., Bolland, C. J. & Miller, A. (1984).** Virus diseases of lettuce. Lettuce mosaic virus. In *Annual report, 1983*, pp. 86-86.
- Walkey, D. G. A., Ward, C. M. & Phelps, K. (1985).** The reaction of lettuce (*Lactuca sativa* L.) cultivars to cucumber mosaic virus. *Journal of Agricultural Science, UK* **105**, 291-297.
- Walkey, D. G. A., Ward, C. M. & Phelps, K. (1985).** Studies on lettuce mosaic virus resistance in commercial lettuce cultivars. *Plant Pathology* **34**, 545-551.
- Walsh, J. A. (1992).** Symptom expression of lettuce big-vein virus and studies on plant resistance. In *Recent advances in vegetable virus research 7th Conference ISHS Vegetable Virus Working Group, Athens, Greece, July 12-16, 1992*.
- Walsh, J. A. (1994).** Effects of Some Biotic and Abiotic Factors on Symptom Expression of Lettuce Big-Vein Virus in Lettuce (*Lactuca-Sativa*). *Journal of Horticultural Science* **69**, 21-28.
- Wang, M., Cho, J. J., Provvidenti, R. & Hu, J. S. (1992).** Identification of resistance to tomato spotted wilt virus in lettuce. *Plant Disease* **76**, 642.
- Wang, M. & Gonsalves, D. (1992).** Artificial Induction and Evaluation of a Mild Isolate of Tomato Spotted Wilt Virus. *Journal of Phytopathology-Phytopathologische Zeitschrift* **135**, 233-244.
- Ward, C. M., Walkey, D. G. A., Bolland, C. J. & Miller, A. (1983).** Virus diseases of lettuce. *33rd Annual Report for 1982, National Vegetable Research Station*, 79-79.
- Watson, A., Napier, T. & Snudden, M. (2002).** Variety trials and disease incidence: part of project VG98048 lettuce IPM. *2nd Australian Lettuce Industry Conference, Paddock to Plate, Gatton, Queensland, Australia, 5-8 May, 2002*, 56-59.
- Watson, A. & Snudden, M. (2002).** Diseases of lettuce and their control: part of project VG98048 lettuce IPM. In *2nd Australian Lettuce Industry Conference, Paddock to Plate, Gatton, Queensland, Australia, 5-8 May, 2002*, pp. 51-55.
- Watts, L. E. (1975).** The response of various breeding lines of lettuce to beet western yellows virus. *Annals of Applied Biology* **81**, 393-397.
- Waycott, W., Fort, S. B. & Ryder, E. J. (1995).** Inheritance of Dwarfing Genes in *Lactuca-Sativa* L. *Journal of Heredity* **86**, 39-44.
- Waycott, W. & Ryder, E. J. (1994).** Ice Cube, Blush, and Mini-Green - Miniature Crisphead Lettuce Cultivars. *Hortscience* **29**, 333-334.
- Weaver, S. E. & Downs, M. P. (2003).** The biology of Canadian weeds. 122. *Lactuca serriola* L. *Canadian Journal of Plant Science* **83**, 619-628.
- Webb, M. J. W., Tomlinson, J. A. & Faithful, E. M. (1980).** Virus diseases of lettuce. In *30th Annual Report for 1979, National Vegetable Research Station*, pp. 78-81.
- Weidemann, H. L. & Rohloff, H. (1976).** Investigations of lettuce mosaic and cucumber mosaic viruses of head lettuce under field conditions. *Nachrichtenblatt des Deutschen Pflanzenschutzdienstes* **28**, 106-109.
- Weilguny, H. (2000).** Virus diseases of salad crops. *Sodobno Kmetijstvo* **33**, 277-279.
- Wiel, C. v. d., Linden, G. v. d., Nijs, H. d., Flavell, A., Naeem, S., Jorgensen, R., Felber, F., Scotti, I., Voort, J. R. v. d. & Peleman, J. (2003).** An EU project on gene flow analysis between crop and wild forms of lettuce and chicory in the context of GMO biosafety: first results in lettuce. In *EUCARPIA leafy vegetables 2003 Proceedings of the EUCARPIA Meeting on Leafy Vegetables Genetics and Breeding, Noordwijkerhout, Netherlands, 19-21 March 2003*, pp. 111-116.
- Wijkamp, I., Goldbach, R. & Peters, D. (1996).** Differential susceptibilities between leaf disks and plants in the transmission of tomato spotted wilt virus by *Frankliniella occidentalis* to TSWV hosts and transgenic plants. *Journal of Phytopathology-Phytopathologische Zeitschrift* **144**, 355-362.
- Wilson, C. R. (1998).** Incidence of weed reservoirs and vectors of tomato spotted wilt tospovirus on southern Tasmanian lettuce farms. *Plant Pathology* **47**, 171-176.

- Wisler, G. C. & Duffus, J. E. (2000).** A century of plant virus management in the Salinas Valley of California, 'East of Eden'. *Virus Research* **71**, 161-169.
- Witsenboer, H., Kesseli, R. V., Fortin, M. G., Stanghellini, M. & Michelmore, R. W. (1995).** Sources and genetic structure of a cluster of genes for resistance to three pathogens in lettuce. *Theoretical and Applied Genetics* **91**, 178-188.
- Yang, C. H., Carroll, B., Scofield, S., Jones, J. & Michelmore, R. (1993).** Transactivation of Ds Elements in Plants of Lettuce (*Lactuca-Sativa*). *Molecular & General Genetics* **241**, 389-398.
- Yang, C. H., Ellis, J. G. & Michelmore, R. W. (1993).** Infrequent Transposition of Ac in Lettuce, *Lactuca-Sativa*. *Plant Molecular Biology* **22**, 793-805.
- Yang, S. J., Revers, F., Souche, S., Lot, H., Le Gall, O., Candresse, T. & Dunez, J. (1998).** Construction of full-length cDNA clones of lettuce mosaic virus (LMV) and the effects of intron-insertion on their viability in *Escherichia coli* and on their infectivity to plants. *Archives of Virology* **143**, 2443-2451.
- Yeh, H. H., Tian, T. Y., Rubio, L., Crawford, B. & Falk, B. W. (2000).** Asynchronous accumulation of Lettuce infectious yellows virus RNAs 1 and 2 and identification of an RNA 1 trans enhancer of RNA 2 accumulation. *Journal of Virology* **74**, 5762-5768.
- Zdravkovic, J., Stankovic, L. & Stevanovic, D. (2003).** Possibilities of using wild lettuce forms originating from the spontaneous Yugoslav flora in the selection for virus diseases of *Lactuca sativa* L. *Acta Horticulturae* **598**, 243-245.
- Zerbini, F. M., Koike, S. T. & Gilbertson, R. L. (1995).** Biological and Molecular Characterization of Lettuce Mosaic Potyvirus Isolates from the Salinas Valley of California. *Phytopathology* **85**, 746-752.
- Zhou, X., Hoy, C. W., Miller, S. A. & Nault, L. R. (2002).** Spatially explicit simulation of aster yellows epidemics and control on lettuce. *Ecological Modelling* **151**, 293-307.
- Zink, F. W. & Duffus, J. E. (1972).** Association of beet western yellows and lettuce mosaic viruses with internal rib necrosis of lettuce. *Phytopathology* **62**, 1141-1144.
- Zink, F. W. & Duffus, J. E. (1973).** Inheritance and linkage of turnip mosaic virus and downy mildew (*Bremia lactuca*) reaction in *Lactuca serriola*. *Journal of the American Society for Horticultural Science* **98**, 49-51.
- Zink, F. W. & Duffus, J. E. (1975).** Linkage of non-lethal reaction to a virulent isolate of lettuce mosaic virus and downy mildew resistance in lettuce. *HortScience* **10**, 314-314.
- Zink, F. W. & Duffus, J. E. (1975).** Reaction of downy mildew-resistant lettuce cultivars to infection by turnip mosaic virus. *Phytopathology* **65**, 243-245.
- Zink, F. W., Duffus, J. E. & Kimble, K. A. (1973).** Relationship of a non-lethal reaction to a virulent isolate of lettuce mosaic virus and turnip mosaic susceptibility in lettuce. *Journal of the American Society for Horticultural Science* **98**, 41-45.
- Zitter, T. A. & Guzman, V. L. (1974).** Incidence of lettuce mosaic and bidens mottle viruses in lettuce and escarole fields in Florida. *Plant Disease Reporter* **58**, 1087-1091.
- Zitter, T. A. & Guzman, V. L. (1977).** Evaluation of cos lettuce crosses, endive cultivars, and *Cichorium* introductions for resistance to *Bidens mottle* virus. *Plant Disease Reporter* **61**, 767-770.