

- virus movement confers broad-spectrum resistance against systemic infection by plant viruses with a triple gene block. *Proc. Natl. Acad. Sci. USA* **91**, 10,310–10,314.
58. Cooper, B., Lapidot, M., Heick, J. A., Dodds, J. A., and Beachy, R. N. (1995) A defective movement protein of TMV in transgenic plants confers resistance to multiple viruses whereas the functional analog increases susceptibility. *Virology* **206**, 307–313.
  59. Carr, J. P. and Zaitlin, M. (1993) Replicase-mediated resistance. *Semin. Virol.* **4**, 339–347.
  60. Fitch, J. H. and Beachy, R. N. (1993) Genetically-engineered protection against viruses in transgenic plants. *Annu. Rev. Microbiol.* **47**, 739–763.
  61. Scholthof, K.-B. G., Scholthof, H. B., and Jackson, A. O. (1993) Control of plant virus diseases by pathogen-derived resistance in transgenic plants. *Plant. Physiol.* **102**, 7–12.
  62. Wilson, T. M. A. (1993) Strategies to protect crop plants against viruses: pathogen-derived resistance blossoms. *Proc. Natl. Acad. Sci. USA* **90**, 3134–3141.
  63. Baulcombe, D. C. (1994) Replicase-mediated resistance: a novel type of virus resistance in transgenic plants? *Trends Microbiol.* **2**, 60–63.
  64. Tumer, N. E., Kaniewski, W., Haley, L., Gehrke, L., Lodge, J. K., and Sanders, P. R. (1991) The second amino acid of alfalfa mosaic virus coat protein is critical for coat protein-mediated protection. *Proc. Natl. Acad. Sci. USA* **88**, 2331–2335.
  65. Hill, K. K., Jarvis-Eagan, N., Halk, E. L., Krahn, K. J., Liao, L. W., Mathewson, R. S., Merlo, D. J., Nelson, S. E., Rashka, K. E. and Loesch-Fries, L. S. (1991) The development of virus-resistant alfalfa, *Medicago Sativa L.* *Biotechnology* **9**, 373–377.
  66. Halk, E. L., Merlo, D. J., Liao, L. W., Jarvis, N. P., and Nelson, S. E. (1989) Resistance to alfalfa mosaic virus in transgenic tobacco and alfalfa, in *Molecular Biology of Plant-Pathogen Interactions* (Staskawicz, B., Ahlquist, P., and Yoder, O., eds.), Alan R. Liss, New York.
  67. MacKenzie, D. J., Tremaine, J. H., and McPherson, J. (1991) Genetically engineered resistance to potato virus S in potato cultivar Russett Burbank. *Mol. Plant-Microbe Interact.* **4**, 95–102.
  68. Namba, S., Ling, K., Gonsalves, C., Gonsalves, D., and Slightom, J. L. (1991) Expression of the gene encoding the coat protein of cucumber mosaic virus (CMV) strains WL appears to provide protection to tobacco plants against infection by several different CMV strains. *Gene* **107**, 181–188.
  69. Okuno, T., Nakayama, M., Yoshida, S., Furusawa, I., and Komiya, T. (1993) Comparative susceptibility of transgenic tobacco plants and protoplasts expressing the coat protein gene of cucumber mosaic virus to infection with virions and RNA. *Phytopathology* **83**, 542–547.
  70. Nakajima, M., Hayakawa, T., Nakamura, I., and Suzuki, M. (1993) Protection against cucumber mosaic virus (CMV) strains O and Y and chrysanthemum mild mottle virus in transgenic tobacco plants expressing CMV-O coat protein. *J. Gen. Virol.* **74**, 319–322.