

Yoshitaka SANO, Ph.D.

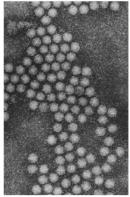
Associate Professor
Program: Life and Food Sciences
Area: Agriculture and Bioresources
Undergraduate: Dept. of Agrobiology

Professional Expertise

His professional expertise encompasses viral diagnosis, genetic structure, interactions between virus-host plants and virus-vector insects. He is a member of nanoviridae study group of the Plant Virus Subcommittee in International committee on taxonomy of viruses (ICTV).

Research Fields of Interest Plant Pathology

- Etiology and molecular biology of plant viruses
- Replication, gene expression and aphid transmission of plant viruses







Education

1990: Ph.D., Graduate School of Science and Technology, Niigata University

1987: Master (Agriculture), Graduate School, Faculty of Agriculture, Niigata University

1976: Bachelor (Agriculture), Faculty of Agriculture, Niigata University

Professional Societies and Activities

- 1. The Phytopathological Society of Japan
- 2. American Phytopathological Society
- 3. Society for General Microbiology
- 4. American Society for Microbiology
- 5. Nanovirus Study Group, International Committee on Taxonomy of Viruses.

Major Publications

Book Chapters

C.M.Fauquet eds. Virus Taxonomy, VIIIth Report of the ICTV. *Nanoviridae*, pp.343-352, Academic Press, 2004.

Papers

- [1] "Increase in cucumber mosaic virus concentration in Japanese radish plants co-infected with turnip mosaic virus", Ann. Phytopath. Soc. Jpn., 56:63-72, 1990.
- [2] "On the variability of the 3'-terminal sequence of the turnip mosaic virus genome", Arch. Virol., 126: 231-238, 1992.
- [3] "Nucleotide sequence of RNA1, the largest genomic segment of rice stripe virus, the prototype of the tenuiviruses", J. Gen. Virol., 75: 3569-3579, 1994.
- [4] "Complete nucleotide sequence of the Japanese isolate of barley yellow dwarf virus-PAV serotype", Ann. Phytopath. Soc. Jpn., 62: 566-571, 1996.
- [5] "Comparative studies on soybean mosaic virus strains B and C: Nucleotide sequences of the capsid protein genes and virulence in soybean cultivars", Ann. Phytopath. Soc. Jpn. 63: 381-384, 1997.
- [6] "Sequences of ten circular ssDNA components associated with the milk vetch dwarf virus genome", J. Gen. Virol., 79: 3111-3118, 1998.
- [7] "Physical map of a *Plutella xylosyella* granurovirus genome", Appl. Entomol. Zool., 35: 45-54, 2000.
- [8] "The master Rep concept in nanovirus replication: Identification of missing genome components and potential for natural genetic reassortment", Virology 274: 189-195, 2000.
- [9] "Characteristics of the promoters derived from the single-stranded DNA components of *Milk vetch dwarf virus* in transgenic tobacco", J. Gen. Virol., 86:1851-1860, 2005.
- [10] "The promoter of *Milk vetch dwarf virus* component 8 confers effective gene expression in both dicot and monocot plants", Plant Cell Reports 24: 155-163, 2005.