



Yoshitaka SANO, Ph.D.

Associate Professor

Program: Life and Food Sciences

Area: Agriculture and Bioresources

Undergraduate: Dept. of Agrobiolgy

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.