FUH-JYH JAN, DISTINGUISHED PROFESSOR

Fuh-Jyh Jan, Distinguished Professor

Biography

Academic Background:

Ph.D. Dept. of Plant Pathology, Cornell University, Ithaca, New York, U.S.A. (1998)
M.S. Dept. of Plant Pathology, National Chung Hsing University, Taichung, Taiwan. (1988)
B.S. Dept. of Plant Pathology, National Chung Hsing University, Taichung, Taiwan. (1986)

Professional Experience:

Aug 2018 - Present: Dean, College of Agriculture and Natural Resources, National Chung Hsing University
Aug 2018 - Present: President, Chinese Sustainable Agriculture Association
Aug 2018 - March 2020: President, Plant Protection Society of Republic of China(Taiwan)

Aug 2015 - Jan 2019: Director, Biotechnology Center, National Chung Hsing University
Aug 2016 - Jan 2019: Director, Ph.D. Program in Microbial Genomics, National Chung Hsing University and Academia Sinica
Aug 2016 - Jan 2019: Director, Ph.D. Program in Tissue Engineering and Regenerative Medicine, National Chung Hsing University
Aug 2015 - July 2017: Director, Master Program for Plant Medicine and Good Agricultural Practice, National Chung Hsing University
Aug 2014 - July 2015: Director, Agricultural Extension Center, National Chung Hsing University
Jun 2014 - Jun 2016: President, Taiwan Phytopathological Society
Aug 2012 - July 2016: Chairman, Dept. of Plant Pathology, National Chung Hsing University
Aug 2012 - Present: Honored as Distinguished Professor
Aug 2011 - Present: Professor, Dept. of Plant Pathology, National Chung Hsing University
Aug 2008 - July 2011: Associate Professor, Dept. of Plant Pathology, National Chung Hsing University
Feb 2000 - July 2008: Assistant Professor, Dept. of Plant Pathology, National Chung Hsing University
Aug 1998 - Feb 2000: Postdoctoral Research Associate, Dept. of Plant Pathology, Cornell University, Geneva, New York, U.S.A.

Contact information

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Area of specification

Plant Virology, Plant Biotechnology, Molecular Plant Pathology, Plant Molecular Biology.

Research

Professor Jan’ s major expertise is in plant biotechnology and molecular plant virology with special emphasis on tospoviruses and begomoviruses. He is also involved in identification and characterization of plant viruses infecting ornamental plants including Phalaenopsis orchid, calla lily, carnation and lisianthus, and cucurbitaceous and solanaceous crops in

Taiwan. His group has developed different techniques for diagnosis and detection of plant viruses and viroids. He has developed a transgenic approach for generating multiple resistances by a chimeric construct that can trigger post-transcriptional gene silencing (PTGS) against different viruses. Currently, he is using this approach combining with transcriptional gene silencing (TGS) and CRISPR/Cas9 system to control major plant viruses. Recently, his group is trying to elucidate the mechanisms of the mechanical transmissibility of begomoviruses.

Teaching

1. 植物基因工程技術 Techniques of Plant Genetic Engineering (2120, 二下)
2. 植物病毒學 Plant Virology (3119, 三上)
3. 植物病毒學實驗 Experiments in Plant Virology (3121, 三上)
4. 植物生物科技專題介紹 Current Topics in Plant Biotechnology (6224, 四上/碩一上)
5. 植物病害臨床診斷 Plant Disease Clinics (6215, 碩一下, 病毒病害)
6. 植物生物技術文獻選讀 Literature Review of Current Topics in Plant Biotechnology (6226, 碩二全)
7. 植物病毒學特論 Advanced Plant Virology (8094, 博士班)
8. 植物病蟲害臨床診斷 Plant Disease and Pest Clinic (6815, 植醫學程碩一全, 病毒病害)

Publications

Papers and Publications

1. Tseng, -W., Wu, C.-F., Lee, C.-H., Chang, C.-J., Chen, Y.-K., and **Jan, Fuh-Jyh***. 2021. Universal primers for rapid detection of six pospiviroids in solanaceae plants using one-step RT-PCR and RT-LAMP. Plant Disease: Online ahead of print on Apr 14, 2021. doi: 10.1094/PDIS-12-20-2730-RE. (SCI)
2. Huang, C,-T., **Jan, Fuh-Jyh*,** and Chang, C.-C.*. 2021. A 3D plasmonic nanostructure for surface-enhanced Raman scattering and plasmon-enhanced fluorescence detections. Molecules 26(2):281. https://doi.org/10.3390/molecules 26020281. co-corresponding author. (SCI)
3. Tseng, Y.-W., Yen, -H., Chang, C.-J., and **Jan, Fuh-Jyh***. 2020.06. First report of a Candidatus Phytoplasma aurantifolia strain associated with virescence, floral

proliferation, and dwarf symptoms on Indigofera suffruticosa in Taiwan. Plant Disease 104: 1852 (SCI).

4. Huang,-H., Tai,C.-H., Sharma, N., Chao, C.-H., Chang. C.-J., and **Jan, Fuh-Jyh***. 2020.05. Characterization of a new monopartite Begomovirus with a betasatellite associated with leaf curl, yellow vein and vein enation in Hibiscus rosa-sinensis. Plant Disease 104: 1318-1327. (SCI)
5. Lee, C.-H., Zheng, Y.-X., Chan, C.-H., Ku, H.-M., C.-J., and **Jan, Fuh-Jyh***. 2020.04. A single amino acid substitution in the movement protein enables the mechanical transmission of a geminivirus. Molecular Plant Pathology 21: 571–588. (SCI)
6. Wang, W.-J., Lee, C.-H., Li, C.-W., Liao, S., **Jan, Fuh-Jyh***, and Wang, G.-J.*. 2020.01. Orchid virus detection from orchid leaves using micro/nano hybrid-structured immuno-electrochemical biosensor. Journal of the Electrochemical Society 167 co-corresponding author. (SCI)
7. Huang, C.-H., Tai,C.-H., Lin, -S**.,** Chang. C.-J., and **Jan, Fuh-Jyh***. 2019.09. Biological, pathological and molecular characteristics of a new potyvirus, Dendrobium chlorotic mosaic virus, infecting Dendrobium orchid. Plant Disease 103: 1605-1612. (SCI)
8. Cheng, Y.-H., Huang,-H., Chang. C.-J., and **Jan, Fuh-Jyh***. 2019.01. Identification and characterization of watermelon green mottle mosaic virus as a new cucurbit-infecting tobamovirus. Annals of Applied Biology: 174: 31–39. (SCI)
9. Chang, C.-M., **Jan, Fuh-Jyh,** and Su, C.-C*. 2018. Identification and characterization of phyllody Phytoplasma associated with Vigna sesquipedalis in Taiwan. Taiwan Pestic. Sci. 4:53-67.
10. Jian, Y.-S., Lee, C.-H., **Jan, Fuh-Jyh***, and Wang, G.-J.*. 2018. Detection of Odontoglossum Ringspot Virus Infected Phalaenopsis Using a Nano-structured Biosensor. Journal of The Electrochemical Society: 165(9) H449-H454. co-corresponding author. (SCI)
11. Huang, K.-S., Li, S.-L., Sun, J.-H., Wang, Y.-C., **Jan, Fuh-Jyh***, and Chen, T.-C*. 2018. Development of a generic method for inspection of tospoviruses. European Journal of Plant Pathology 150: 457-468. co-corresponding author. (SCI).
12. Huang, K.-S., Tai, C.-H., Cheng, Y.-H., Lin, S.-H., Chen, T.-C., and **Jan, Fuh-Jyh***. 2017. Complete nucleotide sequences of M and L RNAs of a new pepper-infecting tospovirus, Pepper chlorotic spot virus. Archives of Virology 162: 2109–2113. (SCI)
13. Su, C.-C., Deng, W.-L., **Jan, Fuh-Jyh,** Chang, C.-J. Huang, H., Shih, H-T., and Chen, J.* Xylella taiwanensis sp. nov., causing pear leaf scorch disease. International Journal of Systematic and Evolutionary Microbiology 66 (11): 4766-4771. (SCI)

14. Tseng, Y.-W., Deng, W.-L., Chang, C.-J., Su, C.-C., Shih, H.-T., and **Jan, Fuh-Jyh***. 2016. The phytoplasma associated with purple woodnettle witches' -broom disease in Taiwan represents a new subgroup of the aster yellows phytoplasma group. Annals of Applied Biology 169: 298-310. (SCI)
15. 石憲宗、蘇秋竹、張哲銘、曾美容、詹富智. 2016(05). 蟲媒植物病原原核生物及其媒介昆蟲整合管理-以葡萄皮爾斯病為例. 農業世界393: 22-29
16. Lin, C.-L., Chang, W.-H., Wang, C.-H., Lee, C.-H., Chen, T.-Y., **Jan, Fuh-Jyh*** and Lee, G.-B.* 2015 (January). A microfluidic system integrated with buried optical fibers for detection of Phalaenopsis orchid pathogens. Biosensors and Bioelectronics 63: 572-579.co-corresponding author. (SCI)
17. Tseng, Y.-W., Chang, -J., Chen, J.-W., Deng, W.-L., and **Jan, Fuh-Jyh***. 2014. First report of a 16SrI Group phytoplasma associated with roselle (Hibiscus sabdariffa) wrinkled leaves and phyllody disorder in Taiwan. Plant Disease 98 (7): 991-991. (SCI).
18. Tseng, Y.-W., Deng, -L., Chang, C.-J., Huang, J.-W., and **Jan, Fuh-Jyh***. 2014. First report on the association of a 16SrII-A phytoplasma with sesame (Sesamum indicum L.) exhibiting abnormal stem curling and phyllody in Taiwan. Plant Disease 98(7): 990-990. (SCI).
19. Su, C.-C., Deng, W.-L., **Jan, Fuh-Jyh**, Chang, C.-J., Huang, H., and Chen, J. 2014. Draft genome sequence of Xylella fastidiosa pear leaf scorch strain in Taiwan. Genome Announcements 2(2):e00166-14. doi:1128/genomeA.00166-14.
20. Cheng, Y.-H., Zheng, Y.-X., Tai, C.-H., Yen, J.-H., Chen, Y.-K., and **Jan, Fuh-Jyh***. Identification, characterization and detection of a new tospovirus on sweet pepper. Annals of Applied Biology 164: 107-115. (SCI)
21. Tsai, W. S., Kenyon, L., Hanson, P., Shih, S. L. and **Jan, Fuh-Jyh***. 2013. Tomato leaf curl disease in Taiwan and breeding for resistance against it. Plant Pathology Bulletin 22: 327-337.
22. Chang, C.-J., Shih, H.-T., Su, C.-C., and **Jan, Fuh-Jyh***. Fastidious prokaryotes and plant health. Plant Pathology Bulletin 22:233-243.
23. Chang, -H., Yang, S.-Y., Lin, C.-L., Wang, C.-H., Li, P.-C., Chen, T.-Y., **Jan, Fuh-Jyh** * and Lee, G.-B.* 2013. Detection of viruses directly from the fresh leaves of a Phalaenopsis orchid using a microfluidic system. Nanomedicine:Nanotechnology, Biology, and Medicine 9: 1274-1282.co-corresponding author. (SCI)
24. Lin, Y.-T., **Jan, Fuh-Jyh,** Lin, C.-W., Lo, T.-C., Chung, C.-H., Chen, J.-C., Su, M.-H.., Yeh, S.-D., and Ku, H.-M.*. 2013. Differential gene expression in response to Papaya ringspot virus

infection in Cucumis metuliferus using cDNA-amplified fragment length polymorphism analysis. PLoS ONE 8(7): e68749. **(**co-first authors.) (SCI)

25. Su, C.-C., Chang, C.- J., Chang, C.-M., Shih, H.-T., Tzeng, K.-C., Jan, F.-J., Kao, C.-W., and Deng*, W.-L. 2013. Pierce' s disease of grapevines in Taiwan: isolation, cultivation and pathogenicity of Xylella fastidiosa. Journal of Phytopathology 161: 389–396. (SCI)
26. 王惠亮、黃詩婷、詹富智. 2013. 利用奈米磁顆粒分離技術檢測六種感染蝴蝶蘭病毒之研究. 農業生技產業季刊35:54-58.
27. Chang, -H., Yang, S.-Y., Wang, C.-H., Li, P.-C., Jan, F.-J., Chen,T.-Y., Lee*, G.-B. 2012. An optical diagnostic system using isothermal amplification technique for Phalaenopsis orchids. Nano/Micro Engineered and Molecular Systems 2012: 204-207. (EI)
28. Lin, C.-Y., Ku, H.-M., Chiang, Y.-H., Ho, H.-Y., Yu, T.-A., and **Jan, Fuh-Jyh***. 2012. Development of transgenic watermelon resistant to Cucumber mosaic virus and Watermelon mosaic virus by using a single chimeric transgene construct. Transgenic Research 21: 983–993. (SCI)
29. Ku, H.-M., Tan, C.-W., Su, Y.-S., Chiu, C.-Y., Chen, C.-T.*, and **Jan, Fuh-Jyh***. 2012. The effect of water deficit and excess copper on proline metabolism in Nicotiana benthamiana. Biologia Plantarum 56: 337-343.*co-corresponding author. (SCI).
30. Tseng, Y.-W., Deng, W.-L., Chang, C.-J., Su, C.-C., Chen, C.-L., and **Jan, Fuh-Jyh***. First report of a 16SrII-A subgroup phytoplasma associated with purple coneflower (Echinacea purpurea) witches' -broom disease in Taiwan. Plant Disease 96: 582. (SCI)
31. Lin, C.-Y., Tsai, W.-S., Ku, H.-M., and **Jan, Fuh-Jyh***. 2012. Evaluation of DNA fragments covering the entire genome of a monopartite begomovirus for induction of viral resistance in transgenic plants via gene silencing. Transgenic Research 21: 231–241. (SCI)
32. Su, C.-C., Chang, C.-J., Yang, W.-J., Hsu, S.-T., Tzeng, K.-C., **Jan, Fuh-Jyh*,** and Deng, W.-L.* Specific characters of 16S rRNA gene and 16S-23S rRNA internal transcribed spacer sequences of Xylella fastidiosa pear leaf scorch strains. European Journal of Plant Pathology 132: 203–216.*co-corresponding author. (SCI)
33. Chang, C.-J., Shih, H.-T., Su, C.-C., **Jan, Fuh-Jyh***. 2012. Diseases of important crops, a review of the causal fastidious prokaryotes and their insect vectors. Plant Pathology Bulletin 21:1-10.
34. Shen, B.-N., Zheng, Y.-X., Chen, C.-C., **Jan, Fuh-Jyh***. 2012. Molecular characterization of Broad bean wilt virus-2 isolated from lisianthus in Taiwan. Plant Pathology Bulletin 21: 193-198.

35. Ku, H.-M., Hu, C.-C., Chang, H.-R., Lin, Y.-T., **Jan, Fuh-Jyh***, and Chen, C.-T.* Analysis by virus induced gene silencing of the expression of two proline biosynthetic pathway genes in Nicotiana benthamiana under stress conditions. Plant Physiology and Biochemistry 49: 1147-1154. co-corresponding author. (SCI)
36. Zheng, Y.-X., Chen, C.-C., and **Jan, Fuh-Jyh***. 2011. Identification and characterization of three new Phalaenopsis orchid-infecting viruses. Acta Horticulurare 901: 127-132.
37. Tsai, W. S., Shih, S. L., Kenyon, L. Green, S. K., and **Jan, Fuh-Jyh***. 2011. Temporal distribution and pathogenicity of the predominant tomato-infecting begomoviruses in Taiwan. Plant Pathology 60:787-799. (SCI)
38. Lin, C.-Y., Ku, H.-M., Tan, C.-W., Yeh, -D., and **Jan, Fuh-Jyh***. 2011. Construction of binary vectors with bi-selectable markers for generating marker-free transg enic plants. Botanical Studies 52: 239-248. (SCI)
39. Tsai, W.-S., Shih, S.-L., Venkatesan, S. G., Aquino, M. U., Green, S. K., Kenyon, L., and **Jan, Fuh-Jyh*.** Distribution and genetic diversity of begomoviruses infecting tomato and pepper plants in the Philippines. Annals of Applied Biology 158: 275-287. (SCI)
40. Lin, Y.-T., Lin, C.-W., Chung, C.-H., Su, M.-H., Ho, H.-Y., Yeh, S.-D., **Jan, Fuh-Jyh***, and Ku, H.-M.*. 2011. In vitro regeneration and genetic transformation of Cucumis metuliferus via cotyledon organogenesis. HortScience 46: 616-621. (SCI)
41. Lin, C.-Y., Ku, H.-M., Tsai, W.-S., Green, S. K., and **Jan, Fuh-Jyh***. 2011. Resistance to a DNA and a RNA virus in transgenic plants by using a single chimeric transgene construct. Transgenic Research 20: 261- 270. (SCI)
42. Zheng, Y.-X., Chen, C.-C., and **Jan, Fuh-Jyh***. 2011. Complete nucleotide sequence of Capsicum chlorosis virus isolated from Phalaenopsis orchid and the prediction of the unexplored genetic information of tospoviruses. Archives of Virology 156: 421-432. (SCI)
43. Huang, C.-H., and **Jan, Fuh-Jyh***. 2011. First report of Bidens mottle virus infecting calendula in Taiwan. Plant Disease 95: 362. (SCI)
44. Zheng, Y.-X., Chen, C.-C., and **Jan, Fuh-Jyh***. 2011. First report of Carnation mottle virus in Phaelenopsis Plant Disease 95: 354. (SCI)
45. Huang, C.-H., Zheng, Y.-X., Cheng, Y.-H., Lee, W.-S., and **Jan, Fuh-Jyh***. 2010. First report of Capsicum chlorosis virus infecting tomato in Taiwan. Plant Disease 94: 1263. (SCI)
46. Wu, Z.-B., Ku, H.-M., Su, C.-C., Chen, I.-Z., and **Jan, Fuh-Jyh*.** Molecular and biological characterization of an isolate of Apple stem pitting virus causing pear vein yellows disease in Taiwan. Journal of Plant Pathology 92: 721-728. (SCI)

47. Zheng, Y.-X., Shen, B.-N., Chen, C.-C., and **Jan, Fuh-Jyh***. 2010. Odontoglossum ringspot virus causing flower crinkle in Phalaenopsis hybrids. European Journal of Plant Pathology 128: 1-5. (SCI)
48. Wu, Z.-B., Zheng, Y.-X., Su, C.-C., Chang, C.-J., and **Jan, Fuh-Jyh*.** Identification and characterization of Apple stem grooving virus causing leaf distortion on pear (Pyrus pyrifolia) in Taiwan. European Journal of Plant Pathology 128: 71-79. (SCI)
49. Wu, Z.-B., Ku, H.-M., Chen, Y.-K., Chang, C.-J., and **Jan, Fuh-Jyh***. 2010. Biological and molecular characterization of Apple chlorotic leaf spot virus causing chlorotic leaf spot on pear (Pyrus pyrifolia) in Taiwan. HortScience 45: 1073-1078. (SCI)
50. Zheng, Y.-X., Huang, C.-H., Cheng, Y.-H., Kuo, F.-Y., and **Jan, Fuh-Jyh***. 2010. First report of Tomato spotted wilt virus in sweet pepper in Taiwan. Plant Disease 94 :920. (SCI)
51. Chang, H.-H., Ku, H.-M., Tsai, W. S., Chien R.-C., and **Jan, Fuh-Jyh***. 2010. Identification and characterization of a mechanical transmissible begomovirus causing leaf curl on oriental melon. European Journal of Plant Pathology 127: 219-228. (SCI)
52. Suzuki, J. Y., Tripathi, S., Fermín, G. A., **Jan, Fuh-Jyh,** Hou, S., Saw, J. H., Ackerman, C. M., Yu, Q., Schatz, M. C., Pitz, K. Y., Yépes, M., Fitch, M. M. M., Manshardt, R. M., Slightom, J. L., Ferreira, S. A., Salzberg, S. L., Alam, M., Ming, R., Moore, P. H., and Gonsalves, D*. Efforts to deregulate Rainbow papaya in Japan: molecular characterization of transgene and vector inserts. Acta Horticulturae 851: 235-240.
53. Chang, H.-H., Tseng, H.-H., Yeh, S.-D., Ku, H.-M.* and **Jan, Fuh-Jyh***. Generation of monoclonal antibody against the replicase of Watermelon silver mottle virus and its application on the detection of L protein expression in planta. Plant Pathology Bulletin 18: 237-246.
54. Chang, H.-H., Ku, H.-M., and **Jan, Fuh-Jyh***. 2009a. Current progress of the reverse genetics of negative-strand RNA viruses and prospect of developing a reverse genetics system for tospoviruses. Plant Pathology Bulletin 18: 201-216.
55. Lin, -Y., Tsai, W.-S., Ku, H.-M.*, and **Jan, Fuh-Jyh***. 2009. Transgenic strategies for developing transgenic plants with geminivirus resistance. Plant Pathology Bulletin 18: 185-200.
56. Tsai, W. S., Shih, S. L., Green, S. K., Lee, L. M., Luther, G. C., Ratulangi, M., Sembel, D. T., and **Jan, Fuh-Jyh.** Identification of a new begomovirus associated with yellow leaf curl diseases of tomato and pepper in Sulawesi, Indonesia. Plant Disease 93: 321. (SCI)
57. Shen, B.-N., Zheng, Y. X., Chen, W. H., Chang, T. Y., Ku, H.-M., and **Jan, Fuh-Jyh***. 2009. Occurrence and molecular characterization of three pineapple mealybug wilt-associated

viruses in pineapple in Taiwan. Plant Disease 93: 196. (SCI)

58. Cheng, Y. H., Wang, R. Y., Chen, C. C., Chang, C. A., and **Jan, Fuh-Jyh***. 2009. First report of Pepper veinal mottle virus in tomato and pepper in Taiwan. Plant Disease 93: 107. (SCI)
59. Suzuki, J. Y., Tripathi, S., Fermín, G. A., **Jan, Fuh-Jyh,** Hou, S., Saw, J. H., Ackerman, C. M., Yu, Q., Schatz, M. C., Pitz, K. Y., Yépes, M., Fitch, M. M. M., Manshardt, R. M., Slightom, J. L., Ferreira, S. A., Salzberg, S. L., Alam, M., Ming, R., Moore, P. H., and Gonsalves, D*. 2008. Characterization of insertion sites in Rainbow papaya, the first commercialized transgenic fruit crop. Tropical Plant Biology 1: 293-309. (SCI)
60. Tsai, W. S., Huang, Y. C., Zhang, D., Reddy, K., Hidayat, S. H., Srithongchai, W., Green, S. K., and **Jan, Fuh-Jyh***. 2008. Molecular characterization of the CP gene and the 3' UTR of Chilli veinal mottle virus from South and Southeast Asian. Plant Pathology 57: 408-416. (SCI)
61. Zheng, Y.-X., Chen, C.-C., Chen Y.-K., and **Jan, Fuh-Jyh***. 2008. Identification and characterization of a potyvirus causing chlorotic spots on Phalaenopsis European Journal of Plant Pathology 121: 87-95. (SCI)
62. Zheng, Y.-X, Chen, C.-C., Yang, C.-J., Yeh, S.-D., and **Jan, Fuh-Jyh***. 2008. Identification and characterization of a tospovirus causing chlorotic ringspots on Phalaenopsis European Journal of Plant Pathology 120: 199-209. (SCI)
63. **Jan, Fuh-Jyh***, Green, S. K., Shih, S. L., Lee, L. M., Ito, H., Kimbara, J., Hosoi, K., and. Tsai, W. S. 2007. First report of Tomato yellow leaf curl Thailand virus in Taiwan. Plant Disease 91: 1363. (SCI)
64. Chiang, C.-H., Lee, C.-Y., Wang, C.-H., **Jan, Fuh-Jyh**, Lin, S.-S., Chen, T.-C., Raja, J. A. J., and Yeh S.-D*. 2007. Genetic analysis of an attenuated Papaya ringspot virus strain applied for cross protection. European Journal of Plant Pathology 118:333-348. (SCI)
65. Tsai, W. S., Shih, S. L., Green, K., and **Jan, Fuh-Jyh***. 2007. Occurrence and molecular characterization of Squash leaf curl Philippines virus in Taiwan. Plant Disease 91:907. (SCI)
66. Lin, S.-S., Wu, H.-W., **Jan, Fuh-Jyh**, Hou, R. F., and Yeh, S.-D*. 2007. Modifications of the helper component-protease of Zucchini yellow mosaic for generation of attenuated mutants for cross protection against severe infection. Phytopathology 97: 287-296. (SCI)
67. Lin, M.-H., Lin, C.-W., Chen, J.-C., Lin, Y.-C., Cheng, S.-Y., Liu,T.-H., **Jan, Fuh-Jyh**, Wu, S.-T., Thseng, F.-S., and Ku H.-M.*. 2007. Tagging rice drought-related QTL with SSR DNA markers. Crop, Environment & Bioinformatics 4: 65-76.

68. Chen, Y.-K.*, **Jan, Fuh-Jyh**, Chen, C.-C., and Hsu, H.-T. 2006. A New Natural Host of Lisianthus necrosis virus in Taiwan. Plant Disease 90: 1112. (SCI)
69. Tsai, W. S., Shih, S. L., Green, S. K. and **Jan, Fuh-Jyh***. 2006. Molecular characterization of a distinct tomato-infecting begomovirus associated with yellow leaf curl diseased tomato in Lembang, Java Island of Indonesia. Plant Disease 90: 831. (SCI)
70. Tsai, W. S., Shih, S. L., Green, S. K., Rauf, A., Hidayat, S. H., and **Jan, Fuh-Jyh***. 2006. Molecular characterization of pepper yellow leaf curl Indonesia virus in leaf curl and yellowing diseased tomato and pepper in Indonesia. Plant Disease 90: 247. (SCI)
71. Lin, -Y., and **Jan, Fuh-Jyh***. 2005. Current development of the strategies for generating marker-free transgenic plants. Plant Pathology Bulletin 14: 159-176.
72. Chen, C.-C., Ko, W.-F., Lin, C.-Y., **Jan, Fuh-Jyh***, and. Hsu, H. T.*. 2003. First report of Carnation mottle virus in Calla lily (Zantedeschia). Plant Disease 86: 1539. (SCI)
73. **Jan, Fuh-Jyh***, Chen, C.-C., and Hsu, H. T. 2003. Identification of Tomato mosaic virus infection in lisianthus in Taiwan. Plant Disease 84: 1537. (SCI)
74. Chen, C.-C., Lin, -Y., Ko, W.-F., and **Jan, Fuh-Jyh***. 2003. Isolation and characterization of Carnation mottle virus from carnation. Plant Pathology Bulletin 12:199-208.
75. **Jan, Fuh-Jyh***, Zheng, Y.-X., Chao, C.-H.., Ko, W.-F, Chang, C.-C., and Chen, C.-C. 2003. Identification of a tobamovirus causing yellow mottle and stunting symptoms on lisianthus in Taiwan. Plant Pathology Bulletin 12: 122-132.
76. Srisailam, S., Kumar, T.K.S., Rajalingam, D., Kathir, K.M., Sheu, H.-S., **Jan, Fuh-Jyh**, Chao, P.-C., and Yu, C*. Amyloid-like fibril formation in an all beta -barrel protein-partially structured intermediate state(s) is a precursor for fibril formation. The Journal of Biological Chemistry 278: 17701-17709. (SCI)
77. **Jan, Fuh-Jyh***, Wu, Z.-B., Kuo, A.-J., Zheng, Y. X. Chang, H.-H., Su, C.-C., and Yang, Y.-S. 2003. Detection of Apple stem grooving and Apple chlorotic leaf spot viruses by the method of reverse transcription-polymerase chain reaction. Plant Pathology Bulletin 12: 10-18.
78. Kuo, A.-J., **Jan, Fuh-Jyh**, and Yang, Y.-S*. 2002. The growth of tissue culture seedling in "Hengshan" pear. Horticulture NCHU 27: 25-35.
79. Chiang, C.-H., Wang, J.-J., **Jan, Fuh-Jyh**, Yeh, S.-D., and Gonsalves, D*. 2001. Comparative reactions of recombinant papaya ringspot viruses with chimeric coat protein (CP) genes and wild-type viruses on CP-transgenic papaya. Journal of General Virology 82: 2827-2836. (SCI)

80. **Jan, Fuh-Jyh**, Fagoaga, F., Pang, S.-Z., and Gonsalves, D*. 2000. A minimum length of N gene sequence in transgenic plants is required for RNA-mediated tospovirus resistance. Journal of General Virology 81: 235-242. (SCI)
81. **Jan, Fuh-Jyh**, Pang, S.-Z., Tricoli, D. M., and Gonsalves, D*. 2000. Evidence that resistance in squash mosaic comovirus coat protein-transgenic plants is affected by plant developmental stage and enhanced by combination of transgenes from different lines. Journal of General Virology 81: 2299-2306. (SCI)
82. **Jan, Fuh-Jyh**, Fagoaga, F., Pang, S.-Z, and Gonsalves, D*. 2000a. A single chimeric transgene derived from two distinct viruses confers multi-virus resistance in transgenic plants through homology-dependent gene silencing. Journal of General Virology 81: 2103-2109. (SCI)
83. Pang, S.- Z., **Jan, Fuh-Jyh**, Tricoli, D. M., Russell, P. F., Carney, K. J., Hu, J. S., Fuchs, M., Quemada, H. D., and Gonsalves, D*. 2000. Resistance to squash mosaic comovirus in transgenic squash plants expressing its coat protein genes. Molecular Breeding 6: 87-93. (the first two authors contributed equally to this work) (SCI)
84. **Jan, Fuh-Jyh**, Pang, S.-Z, Fagoaga, F., and Gonsalves, D.*. 1999. Turnip mosaic potyvirus resistance in Nicotiana benthamiana derived by post-transcriptional gene silencing. Transgenic Research 8: 203-213. (SCI)
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2. Lee, C.-H., Zheng, Y.-X. and **Jan, Fuh-Jyh***. 2017. The orchid-infecting viruses found in the 21st century. P145-164 in W.-H. Chen and H.-H. Chen (eds): Orchid Biotechnology III. World Scientific Publishing, Singapore. (ISBN 978-981-3109-21-6)
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6. Tsai, W. S., Kenyon, L., Hanson, P., Shih, S. L. and Jan, Fuh-Jyh*. 2013. Tomato leaf curl disease in Taiwan and breeding for resistance against it. p239-254 in: C.-J. Chang, C.-Y. Lee, and H.-T. Shih (eds): Proceeding of the 2013 International Symposium on Insect Vectors and Insect-Borne Diseases. Taiwan Agricultural Research Institute, Council of Agriculture, Taichung, Taiwan, 274pp.
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8. 詹富智*、鄭尤琇.2011. 標準作業手冊系列4─李痘病毒偵察調查. 行政院農業委員會動植物防疫檢疫局出版.台北. 35pp。

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9. 鄭尤琇、陳慶忠、詹富智*. 2008.台灣蝴蝶蘭之新興病毒病害. p67-82. 植物重要防疫檢疫病害診斷鑑定技術研習會專刊(七). 張碧芳、黃振文、曾國欽編。行政院農業委員會動植物防疫檢疫局出版，台北. 82pp。
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11. 吳榮彬、詹富智*. 2007. 梨脈黃化病. P81-84. 植物保護圖鑑系列17 - 梨樹保護. 行政院農業委員會動植物防疫檢疫局出版.台北. 155pp。
12. 吳榮彬、詹富智*. 2007.梨輪紋嵌紋病. P75-80. 植物保護圖鑑系列17 - 梨樹保護. 行政院農業委員會動植物防疫檢疫局出版.台北. 155pp。
13. 詹富智、陳慶忠、陳煜焜、曾國欽編.2007. 2007植物蟲媒病害與防治研討會專刊. 行政院農業委員會動植物防疫檢疫局出版.台北. 278pp。
14. 鄭尤琇、陳慶忠、柯文華、詹富智*. 2007.二種新鑑定感染蝴蝶蘭病毒之特性研究與檢測方法之研發. p149-160. 2007植物蟲媒病害與防治研討會專刊. 詹富智、陳慶忠、陳煜焜、曾國欽編. 行政院農業委員會動植物防疫檢疫局出版.台北. 278pp。
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18. 詹富智、張賀雄、葉錫東. 2004. 利用病毒載體表現外源基因. p121-134. 植物基因轉殖之原理與應用. 葉錫東、陳良築、楊長賢、曾志正、詹富智編. 教育部顧問室植物生物技術教學資源中心出版. 台中. 301pp。
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21. 詹富智*、葉錫東. 2004. 薊馬傳播番茄斑萎病毒屬(Tospovirus)病毒之分子診斷鑑定要領. p.35-58. 植物重要防疫檢疫病害診斷鑑定技術研習會專刊(三). 張碧芳、黃振文編. 行政院農業委員會動植物防疫檢疫局出版. 台北. 184pp。

22. Jan, Fuh-Jyh, Chen, T.-C., and Yeh, S.-D.* 2003. Occurrence, importance, taxonomy, and control of thrips-borne tospoviruses, p399-421 in H. Huang and S. N. Acharya (eds): Advances in Plant Disease Management. Research Signpost, Kerala, India.
23. 黃振文、蔡東纂、曾國欽、詹富智編. 2003. 植物重要防疫檢疫病害診斷鑑定技術研習會專刊(二). 行政院農業委員會動植物防疫檢疫局出版. 台北. 142pp。
24. 詹富智*、盧耀村、陳慶忠. 2003. 植物病毒病害診斷鑑定技術. p.35-52. 植物重要防疫檢疫病害診斷鑑定技術研習會專刊(二). 黃振文、蔡東纂、曾國欽、詹富智編. 行政院農業委員會動植物防疫檢疫局出版. 台北. 142pp。
25. 詹富智*、吳榮彬. 2002. 梨穗病毒性病害之診斷、鑑定及檢測實務. p.51-64. 植物重要防疫檢疫病疫診斷鑑定技術研習會專刊. 張碧芳、黃振文、蔡東纂、曾國欽編. 行政院農業委員會動植物防疫檢疫局出版. 台北. 208pp。
26. Jan, Fuh-Jyh* and Ku, H.-M. 2001. Development of transgenic plants resistant to multiple viruses via gene silencing. Pages 239-250 in Proceedings of International Symposium on Biological Control of Plant Diseases for the New Century-Mode of Action and Application Technology. D. S. Tzeng and J. W. Huang, eds., Department of Plant Pathology, National Chung Hsing Univereisty Press, Taichung, Taiwan.
27. 黃振文、曾國欽、蔡東纂、詹富智. 2001. 梨樹病害圖鑑.行政院農業委員會動植物防疫檢疫局出版.台北. 57pp。

Awards

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1. 2021年 獲中華民國植物病理學會「學術獎」
2. 2020年 獲109年中華種苗學會「個人學術成就獎」
3. 2020年 獲國立中興大學『109年度研發成果技術移轉績優獎』
4. 2020年 第5次獲聘國立中興大學『特聘教授Ⅲ』
5. 2018年 獲國家生技醫療產業策進會「第十五屆國家新創獎」
6. 2018年 第4次獲聘國立中興大學『特聘教授Ⅲ』
7. 2016年 第3次獲聘國立中興大學『特聘教授Ⅲ』
8. 2014年 榮獲2014年第38屆全國十大傑出農業專家
9. 2014年 獲邀請擔任考選部『103年高普考試 農植組召集人』
10. 2014年 獲聘國立中興大學『榮譽特聘教授』
11. 2014年 第二次獲聘國立中興大學『特聘教授Ⅲ』
12. 2013年 獲行政院教育部資訊及科技教育司司長頒獎表揚。
13. 2013年 獲行政院國家科學委員會『傑出學者養成計畫』(2013~2016)

14. 2013年『國科會102年度大專校院獎勵特殊優秀人才措施』獎勵。
15. 2012年 獲國家醫療產業策進會「第九屆國家新創獎」
16. 2012年 獲聘國立中興大學『特聘教授Ⅲ』
17. 2011年 獲 99年度『 農資院教師評鑑優良獎』(第一名)
18. 2011年 獲選為國立中興大學『100年度大專校院獎勵特殊優秀人才措施-產學績優教師Ⅰ』
19. 2011年 獲 99年度農資院『全院個人年度學術論文發表』第二名
20. 2011年 獲中華民國植物病理學會著作貢獻獎
21. 2010年 獲行政院國家科學委員會『傑出學者養成計畫』(2010~2013)
22. 2010年 獲『中興大學99年度特別貢獻獎』
23. 2009年 獲『國立中興大學創業大賽』優等獎
24. 2009年 獲『中興大學97年建教合作計畫教師績優獎』
25. 2008年 獲中興大學農業暨自然資源學院94-96學年度教師評鑑研究第二名、服務推廣第三名
26. 2007年 獲中興大學「96年度教師教學服務獎勵」
27. 2005年 獲中興大學農業暨自然資源學院93學年度教師評鑑教學第一名、服務推廣第二名
28. 2004年 獲中興大學特優導師
29. 2004年 獲中興大學農業暨自然資源學院優良導師
30. 2003年 獲中華民國植物病理學會著作貢獻獎
31. 2001年 獲國科會甲等研究獎、2002~2006, 2008-2022年國科會計畫主持費獎助
32. 1992年 八十一年公務人員高等考試二級考試植物病蟲害病理組考試錄取
33. 1992年 教育部公費留考錄取(農學組)

Conference Abstracts

1. Gustian, D., Chang, H.-H., and **Jan, Fuh-Jyh***. 2021. Complementary studies on mechanical transmissibility of begomoviruses. The Annual Meeting of Taiwan Phytopathological Society, May 1st, 2021, Taipei, Taiwan.
2. Uslu, Y. E., Lee, C.-H., **Jan, Fuh-Jyh***. 2021. Development of transgenic plants expressing a ToLCNDV movement protein for studying mechanical transmission of begomovirus. The Annual Meeting of Taiwan Phytopathological Society, May 1st, 2021, Taipei, Taiwan.
3. Chen, J.*, Su, C.-C., Shih, H-T., **Jan, Fuh-Jyh** and Chang, C-J. 2021. Genome rearrangements of *Xylella fastidiosa* strains in US and research updates on taiwanensis. The 3rd European Conference on Xylella fastidiosa, online April 29-30, 2021.

4. **詹富智***. 2020. 蝴蝶蘭的新興病毒及檢測技術之開發. 蘭花前瞻育種及國際產銷佈局研討會. 2020年11月11日. 台南. 國立成功大學生科教學大樓二樓小講堂. (invited speaker)
5. Lee, C.-H., Kang, Y.-T, and **Jan, Fuh-Jyh***. 2020. A begomoviral protein required for mechanical transmissibility of *Tomato yellow leaf curl Thailand virus*. 2020年科技部生命科學研究發展司「生農環境與多樣性學門」及「農產資源科學學門」聯合成果發表會. 2020年9月26日. 台中. 國立中興大學農環大樓國際會議廳.
6. Chang, H.-H., Lee, C.-H., **and Jan, Fuh-Jyh***. 2020. A *Nicotiana benthamiana* FKBP type peptidyl-propyl cis-trans isomerase interacts with the movement protein of *Tomato leaf curl New Delhi virus* and is involved in virus resistance. 2020年科技部生命科學研究發展司「生農環境與多樣性學門」及「農產資源科學學門」聯合成果發表會. 2020年9月26日. 台中. 國立中興大學農環大樓國際會議廳.
7. Lee, C.-H., Zheng, Y.-X., Chan, C.-H., Ku, H.-M., and **Jan, Fuh-Jyh***. 2019. A single amino acid substitution in the movement protein enables mechanical transmissibility of *a geminivirus.* International Symposium on Virus Diseases of Important Crop, Sept. 2-5, 2019, Taichung, Taiwan.
8. Wang, W. J., Lee, C. H., Li, C. W., Liao, S., **Jan, Fuh-Jyh**, and Wang, G. J.*. 2019. Direct label free detection of orchid virus using a micro/nano hybrid structured biosensor, The ASME 13th International Conference on Micro- and Nanosystems, Aug. 18-21, 2019, Anaheim, California, USA.
9. Huang, C.-H., Tai,C.-H., Chang. C.-J., and **Jan, Fuh-Jyh***. 2019. Biological, pathological and molecular characteristics of a new potyvirus, Dendrobium chlorotic mosaic virus, infecting Dendrobium orchid. The American Phytopathological Society Annual Meeting. August 3-7, 2019, Cleveland, Ohio,
10. Lee, C.-H., Zheng, Y.-X., Tsai, W.-S., Chan, C.-H., Ku, H.-M., and **Jan, Fuh-Jyh***. Genetic determination of the movement protein in mechanical transmission of a geminivirus. The VI International Symposium on Tomato Diseases, May 6-9, 2019, Taichung, Taiwan.
11. Lee, C.-H., Kang, Y.-T., and **Jan, Fuh-Jyh***. Identification of viral factors required for mechanical transmissibility of Tomato yellow leaf curl Thailand virus. The VI International Symposium on Tomato Diseases, May 6-9, 2019, Taichung, Taiwan.
12. Chang, H.-H., Lee, C.-H., **and Jan, Fuh-Jyh***. A Nicotiana benthamiana PPIase gene, identified with Y2H screening, plays a role in antiviral system against Tomato leaf curl New Delhi begomovirus. The VI International Symposium on Tomato Diseases, May 6-9, 2019, Taichung, Taiwan.

13. Tseng, Y.-W., Tai, C.-H., and **Jan, Fuh-Jyh***. Engineering of CRISPR/Cas9 for resistance to Begomoviruses in Solanaceae plants. The VI International Symposium on Tomato Diseases, May 6-9, 2019, Taichung, Taiwan.
14. **Jan, Fuh-Jyh***. 2019. Developing portable and on-site detection platform for orchid-infecting viruses. South Africa–Taiwan Joint Bilateral Workshop on Agricultural Biotechnology, February 12-13, 2019, Cape Town, South Africa. (invited speaker)
15. Lee, C.-H., Jian, Y.-S., Wang, -J., and **Jan, Fuh-Jyh***. 2018. Development of a nano-structured biosensor for rapid detection of *Odontoglossum ringspot virus*. The 9th International Conference of Clinical Plant Science 2018, December 1, 2018, Taichung, Taiwan.
16. Tseng, Y.-W., Wu, C.-F., Lee, C.-H., Chen, Y.-K., and **Jan, Fuh-Jyh***. 2018. Development of a multiplex system for rapid detection of viroids in Solanaceae. The 9th International Conference of Clinical Plant Science 2018, December 1, 2018, Taichung, Taiwan.
17. Tseng, Y.-W., Wu, C.-F., Lee, C.-H., Chen, Y.-K., and **Jan, Fuh-Jyh***. 2018. Development of a multiplex system for rapid detection of viroids in Solanaceae. Annual Meeting of the Plant Protection Society of ROC, November 30, 2018, Taichung, Taiwan.
18. Lee, C.-H., Jian, Y.-S., Wang, G.-J., **Jan, Fuh-Jyh***. 2018. Development of a nano-structured biosensor for rapid detection of *Odontoglossum ringspot virus*. Annual Meeting of the Plant Protection Society of ROC, November 30, 2018, Taichung, Taiwan.
19. Huang, C.-H., Cheng, Y.-H., **Jan, Fuh-Jyh***. 2018. Identification and genomic characterization of a new tobamovirus infecting cucurbit. Annual Meeting of the Plant Protection Society of ROC, November 30, 2018, Taichung, Taiwan.
20. Wu, C.-F., Tseng, Y.-W., Lee, C.-H., Chen, Y.-K., and **Jan, Fuh-Jyh*.** Development of multiplex viroid rapid detection system for Solanaceae plants and seeds. International Congress of Plant Pathology (ICPP-2018), July 29-August 3, 2018, Boston, USA.
21. Wu, C.-F., Tseng, Y.-W., Lee, C.-H., Chen, Y.-K., and **Jan, Fuh-Jyh*.** Development of multiplex viroid rapid detection system for Solanaceae plants and seeds. Satellite meeting: Impact of viroid Research on Seed Health, Plant Certification and World Trade, ICPP-2018, July 28, 2018, Boston, USA.
22. **Jan, Fuh-Jyh***. 2018. A single amino acid substitution in the movement protein enables mechanical transmissibility of a geminivirus. Taiwan-Japan Joint Symposium on Plant Virus Diseases- Tackling new threats on agriculture, July 3, 2018, Tsukuba, Japan. (invited speaker)

23. Kang, Y.-T., Lee, C.-H., Tsai, W.-S., and **Jan, Fuh-Jyh***. 2018. Characterization of the determinants for mechanical transmissibility of *Tomato yellow leaf curl Thailand virus*. Annual Meeting of Taiwan Phytopathological Society, April 28, 2018, Taichung, Taiwan.
24. Wu, C.-F., Tseng, Y.-W., Lee, C.-H., Chen, Y.-K., and **Jan, Fuh-Jyh***. 2018. Development of a multiplex viroid rapid detection system for *Solanaceae* Annual Meeting of Taiwan Phytopathological Society, April 28, 2018, Taichung, Taiwan.
25. Tseng, Y.-W., Wu, C.-F., Lee, C.-H., Chen, Y.-K., and **Jan, Fuh-Jyh***. 2018. Reverse transcription-loop-mediated isothermal amplification (RT-LAMP) for the rapid detection of six quarantined viroids of Solanaceae Annual Meeting of Taiwan Phytopathological Society, April 28, 2018, Taichung, Taiwan.
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27. Jian,Y.-S., Wang, G.-J. *, and **Jan, Fuh-Jyh***. 2017. Direct detection of orchid viruses in orchid leaves using a nanostructured electrochemical biosensor. 2017 International Symposium on Smart Medical Devices and the 22nd Symposium of Association for Chemical Sensors in Taiwan. **May 20, 2017, National Cheng Kung University, Tainan, Taiwan.**
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Technology Transfer

技術名稱	授權單位	被授權單位	簽約日期
蘭花病毒檢測用多元抗體及單元抗體	中興大學(詹富智)	昇陽國際半導體股份有限公司	2019.12.13
重要茄科作物檢疫類病毒健康種苗檢測技術	中興大學(詹富智)	農友種苗股份有限公司	2017.11.20
新興蘭花病毒CaCV及PhCSV檢測技術平台	中興大學(詹富智、鄭尤琇、陳慶忠)	宏良甫生物科技公司	2009/03/12
產生無篩選標示基因(marker-free)抗多種病毒轉基因瓜類之構築	中興大學(詹富智)	農友種苗股份有限公司	2006/05/24

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Scientific Reports (Springer Nature)

指導研究生及獲獎情形

1. 2018年 植病系曾意雯獲「The 9th International Conference of Clinical Plant Science」佳作
2. 2018年 植病系康昀婷獲「中華民國植物病理學會一零六年度年會研究生論文宣讀競賽」第三名
3. 2014年 植病系郭曜維獲「中華民國植物病理學會一零二年度年會研究生論文宣讀競賽」第一名

4. 2013年 植病系戴嘉杏 獲「中華民國植物病理學會一零一年度年會研究生論文宣讀競賽」第四名
5. 2011年 農藝系詹欽翔 獲「中華民國植物病理學會九十九年度年會研究生論文宣讀競賽」第二名
6. 2011年 植病系李佳華 獲「中華民國植物病理學會九十九年度年會研究生論文宣讀競賽」第四名
7. 2011年 植病系林靜宜 獲「中華民國植物病理學會九十九年度年會研究生論文宣讀競賽」第四名
8. 2010年 植病系黃志鴻 獲「中華民國植物病理學會九十八年度年會研究生論文宣讀競賽」第四名
9. 2010年 植病系李品臻 獲「中華民國植物病理學會九十八年度年會研究生論文宣讀競賽」第五名
10. 2009年 植病系張賀雄 獲「中華民國植物病理學會九十七年度年會研究生論文宣讀競賽」第四名
11. 2008年 植病系吳榮彬 獲「中華民國植物病理學會九十六年度年會研究生論文宣讀競賽」第一名
12. 2007年 植病系林靜宜 獲「2007年美國植物病理學學會暨線蟲學學會聯合年會」APS Foundation Robert W. Fulton Student Travel Award
13. 2006年農藝系何琇銀 獲「中華民國植物病理學會九十五年度年會研究生論文宣讀競賽」第二名
14. 2006年植病系吳榮彬 獲「中華民國植物病理學會九十五年度年會研究生論文宣讀競賽」第二名
15. 2006年植病系潘維尼 獲「2006年植物分子生物夏令營學生論文海報競賽」優等
16. 2005年 植病系曾獻嫻 獲「中華民國植物病理學會九十四年度年會研究生論文宣讀競賽」第四名
17. 2001年 園藝系郭璦榛 獲「中華民國植物病理學會九十年度年會研究生論文宣讀競賽」佳作獎

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