

CURRICULUM VITAE

Tatsuya Tsukamoto

Contact information

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Education

Apr./1997 – March/2000, Ph.D., Graduate School of Science and Technology, Chiba University, Japan (Dr. Toshio Ando's lab)

Apr./1995 – March/1997, M. Agriculture, Graduate School of Horticulture, Chiba University, Japan (Dr. Toshio Ando's lab)

Apr./1991 – March/1995, B. Agriculture, Faculty of Horticulture, Chiba University, Japan (Dr. Toshio Ando's lab)

Professional Experience

Feb./2007 – present, Postdoctoral Research Associate of the University of Arizona (Dr. Ravishankar Palanivelu's lab).

June/2005 – Jan./2007, Postdoctoral Research Associate of the Michigan State University (Dr. Amy Iezzoni's lab).

Feb./2004 – May/2005, Postdoctoral Research Associate of the Kyoto University, Japan (Dr. Ryutaro Tao's lab).

May/2001 – Dec./2003, Postdoctoral Research Associate of the Pennsylvania State University (Dr. Teh-hui Kao's lab).

Apr./2000 – Apr./2001, Research Fellow of the Japan Society for the Promotion of Science (Chiba University, Japan, Dr. Toshio Ando's lab).

Publications

27. **Tsukamoto, T.**, R. Tao and A. F. Iezzoni (2007). PCR markers for mutated S-haplotypes enable discrimination between self-incompatible and self-compatible sour cherry selections. *Molecular Breeding* (Published online, DOI: 10.1007/s11032-007-9109-7).
26. **Tsukamoto, T.**, M. Gao, K. Negoro, H. Hanada, R. Tao, M. Kawabe and K. Yonemori (2007). Somatic embryogenesis and plant regeneration from immature cotyledons of *Prunus mume* 'Nanko'. *Acta Horticulturae* 738, 697-702.
25. **Tsukamoto, T.**, N. R. Hauck, R. Tao, N. Jiang and A. F. Iezzoni (2006). Molecular characterization of three non-functional S-haplotypes in sour cherry (*Prunus cerasus*). *Plant Molecular Biology* 62, 371-383.
24. Kokubun, H., M. Nakano, **T. Tsukamoto**, H. Watanabe, G. Hashimoto, E. Marchesi, L. Bullrich, I. L. Basualdo, T.-h. Kao and T. Ando (2006). Distribution of self-compatible and self-incompatible populations of *Petunia axillaris* (Solanaceae) outside Uruguay. *Journal of Plant Research* 119, 419-430.
23. **Tsukamoto, T.**, T. Ando, H. Watanabe, E. Marchesi, T.-h. Kao (2005). Duplication of S-locus F-box gene is associated with breakdown of pollen function in an S-haplotype identified in a natural population of self-incompatible *Petunia axillaris*. *Plant Molecular Biology* 57, 141-153.
22. Wang, Y., **T. Tsukamoto**, K.-w. Yi, X. Wang, S. Huang, A. G. McCubbin, T.-h. Kao (2004). Chromosome walking in the *Petunia inflata* self-incompatibility (S-) locus and gene identification in an 881-kb contig containing *S₂-RNase*. *Plant Molecular Biology* 54, 727-742.
21. Kao, T.-h., **T. Tsukamoto** (2004). The molecular and genetic bases of S-RNase-based self-incompatibility. *Plant Cell* 16 Supplement, 72-83.
20. **Tsukamoto, T.**, T. Ando, K. Takahashi, T. Omori, H. Watanabe, H. Kokubun, E. Marchesi and T.-h. Kao (2003). Breakdown of self-incompatibility in a natural population of *Petunia axillaris* caused by loss of pollen function. *Plant Physiology* 131, 1903-1912.
19. **Tsukamoto, T.**, T. Ando, H. Kokubun, H. Watanabe, T. Sato, M. Masada, E. Marchesi and T.-h. Kao (2003). Breakdown of self-incompatibility in a natural population of *Petunia axillaris* caused by a modifier locus that suppresses the expression of an S-RNase gene. *Sexual Plant Reproduction* 15, 255-263.
18. **Tsukamoto, T.**, T. Ando, H. Watanabe, G. Hashimoto, U. Sakazaki, E. Suarez, E. Marchesi, K. Oyama and T.-h. Kao. (2002). Differentiation in the status of self-incompatibility among *Calibrachoa* species (Solanaceae). *J. Plant Research* 115, 185-193.

17. Kokubun, H., T. Ando, S. Kohyama, H. Watanabe, **T. Tsukamoto** and E. Marchesi (2002). Variations of several morphological characters of *Petunia axillaris* (Solanaceae) in Uruguay. *J. Jap. Soc. Hort. Sci.* 71, 26-39.
16. Ando, T., M. Nomura, J. Tsukahara, H. Watanabe, H. Kokubun, **T. Tsukamoto**, G. Hashimoto, E. Marchesi and I. J. Kitching (2001). Reproductive isolation in a native population of *Petunia sensu* Jussieu (Solanaceae). *Annals of Botany* 88, 403-413.
15. Wang, X., A. L. Hughes, **T. Tsukamoto**, T. Ando and T.-h. Kao (2001). Evidence that intragenic recombination contributes to allelic diversity of the S-RNase gene at self-incompatibility (S) locus in *Petunia inflata*. *Plant Physiology* 125, 1012-1022.
14. Watanabe, H., T. Ando, **T. Tsukamoto**, G. Hashimoto and E. Marchesi (2001). Cross-compatibility of *Petunia exserta* with other *Petunia* taxa. *J. Jap. Soc. Hort. Sci.* 70, 33-40.
13. Dowd, P. E., A. G. McCubbin, X. Wang, J. A. Verica, **T. Tsukamoto**, T. Ando and T.-h. Kao (2000). Use of *Petunia inflata* as a model for the study of solanaceous type self-incompatibility. *Annals of Botany* 85, 87-93.
12. Kokubun, H., T. Ando, H. Watanabe, **T. Tsukamoto** and E. Marchesi (1999). Floral morphology of F₁ and F₂ progenies between two subspecies of *Petunia axillaris* (Solanaceae). *Acta Phytotax. Geobot.* 50, 207-219.
11. Ando, T., N. Saito, F. Tatsuzawa, T. Kakefuda, K. Yamakage, E. Ohtani, M. Koshiishi, Y. Matsusake, H. Kokubun, H. Watanabe, **T. Tsukamoto**, Y. Ueda, G. Hashimoto, E. Marchesi, K. Asakura, R. Hara and H. Seki (1999). Floral anthocyanins in wild taxa of *Petunia* (Solanaceae). *Biochem. Syst. Ecol.* 27, 623-650.
10. **Tsukamoto, T.**, Ando, T., Kokubun, H., Watanabe, H., Masada, M., Zhu, X., Marchesi, E. and Kao, T.-h. (1999). Breakdown of self-incompatibility in a natural population of *Petunia axillaris* (Solanaceae) in Uruguay containing both self-incompatible and self-compatible plants. *Sexual Plant Reproduction* 12, 6-13.
9. Ando, T., T. Saito, F. Tatsuzawa, T. Kakefuda, K. Yamakage, E. Ohtani, M. Koshiishi, Y. Matsusake, H. Kokubun, H. Watanabe, **T. Tsukamoto**, G. Hashimoto and E. Marchesi (1999). HPLC profiles floral anthocyanins in the native taxa of *Petunia* (Solanaceae). *Tech. Bull. Fac. Hort. Chiba Univ.* 53, 135-144.
8. Watanabe, H., T. Ando, E. Nishino, H. Kokubun, **T. Tsukamoto**, G. Hashimoto and E. Marchesi (1998). Three groups of species in *Petunia sensu* Jussieu (Solanaceae) inferred from the seed morphology. *Amer. J. Bot.* 86, 302-305.
7. **Tsukamoto, T.**, T. Ando, H. Kokubun, H. Watanabe, R. Tanaka, G. Hashimoto, E. Marchesi and T.-h. Kao (1998). Differentiation in the status of self-incompatibility among all natural taxa of *Petunia* (Solanaceae). *Acta Phytotax. Geobot.* 49, 115-133.

6. Ando, T., **T. Tsukamoto**, N. Akiba, H. Kokubun, H. Watanabe, Y. Ueda and E. Marchesi (1998). Differentiation in the degree of self-incompatibility in *Petunia axillaris* (Solanaceae) occurring in Uruguay. *Acta Phytotax. Geobot.* 49, 37-47.
5. **Tsukamoto, T.**, T. Ando, M. Kurata, H. Watanabe, H. Kokubun, G. Hashimoto and E. Marchesi (1998). Resurrection of *Petunia occidentalis* R. E. Fr. (Solanaceae) inferred from a cross compatibility study. *J. Japan. Bot.* 73, 15-21.
4. Kokubun, H., T. Ando, S. Kohyama, H. Watanabe, **T. Tsukamoto** and E. Marchesi (1997). Distribution of intermediate forms of *Petunia axillaris* subsp. *axillaris* and subsp. *parodii* (Solanaceae) in Uruguay as revealed by discriminant analysis. *Acta Phytotax. Geobot.* 48, 173-185.
3. Watanabe, H., T. Ando, S. Iida, K. Buto, **T. Tsukamoto**, G. Hashimoto and E. Marchesi (1997). Cross compatibility of *Petunia pubescens* and *P. pygmaea* with native taxa of *Petunia*. *J. Japan. Soc. Hort. Sci.* 67, 607-612.
2. Watanabe, H., T. Ando, S. Iida, A. Suzuki, K. Buto, **T. Tsukamoto**, G. Hashimoto and E. Marchesi (1996). Cross compatibility of *Petunia* cultivars and *P. axillaris* with native taxa of *Petunia* in relation to their chromosome number. *J. Japan. Soc. Hort. Sci.* 65, 625-634.
1. Ando, T., G. Hashimoto, N. Tanaka and **T. Tsukamoto** (1996). Rodeside Flora in South America. Part III. Southern Brazil in Spring, 1993. *Tec. Bull. Fac. Hort. Chiba Univ.* 50, 15-25.

Patents:

Tsukamoto, T., H. Hanada and R. Tao Somatic embryogenesis from immature cotyledons of *Prunus mume*. (2005). Application No. 2005-048772

Research Experience

Nucleic Acid	Protein	Miscellaneous
DNA/RNA Purification	Protein Purification	Sequence Analysis
Southern/Northern Blotting	SDS-PAGE	Database Searching
Ribonuclease Protection Assay	Isoelectric Focusing (IEF)	Genetic Analysis
Polymerase Chain Reaction (PCR)	FPLC	Plant growing
Gene Cloning/Subcloning	Ion-exchange Chromatography	Plant Tissue Culture
Electrophoresis		
cDNA Library Construction		
Pulse Field Gel Electrophoresis (PFGE)		
Fosmid Library Construction		

Presentations

- 2007 Annual meeting of American Society of Plant Biologists
- 2005 Japanese Society for Horticultural Science Spring meeting
- 2001 Japanese Society for Horticultural Science Spring meeting
- 2000 Japanese Society for Horticultural Science Autumn meeting
- Japanese Society for Horticultural Science Spring meeting
- 1999 Japanese Society for Horticultural Science Spring meeting
- 1998 Japanese Society for Horticultural Science Autumn meeting
- 1997 Japanese Society for Horticultural Science Autumn meeting
- 1996 Japanese Society for Horticultural Science Autumn meeting
- Japanese Society for Horticultural Science Spring meeting
- 1995 Japanese Society for Horticultural Science Autumn meeting

Societies

- American Society of Plant Biologists
- Japanese Society for Horticultural Science
- Japanese Society for Plant Cell and Molecular Biology