

**Curriculum Vitae**  
**TETSUKAZU YAHARA**

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EDUCATION: B.S. (Botany), Kyoto University, 1977  
Ph.D. (Botany), Kyoto University, 1984

EMPLOYMENT:

University of Tokyo, Research Associate, 1983-1987.

University of Tokyo, Lecturer, 1987-1991.

University of Tokyo, Associate Professor, 1991-1994.

Kyushu University, Professor, 1994 to present.

HONORS:

K. Matsushita Flower Expo Encouragement Prize, 1998

ACADEMIC SERVICE FOR AWARDS:

Member of the Selection Committee for the International Prize for Biology, 1996 & 2002

Review Member of the Selection Committee for the Grant-in-Aids of the Ministry of Education,  
Culture and Sciences, 1996-1996, 1999-2000, 2003-2004

Review Member of the Selection Committee for the Postdoctoral Fellowship of the Japan Society for

the Promotion of Science, 1996–1997, 1999–2000, 2002, 2004  
Member of the Selection Committee for the Japan Prize, 2004

#### EDITORSHIPS:

Journal of Evolutionary Biology, Board Member, 1995–1997.  
Journal of Plant Research, Associate Editor, 1995–1997.  
Plant Species Biology, Editor, 1986–1997.  
Molecular Ecology, Board Member, 1999–present.  
Ecological Research, Associate Editors-in-chief, 2004–present.

#### SOCIETY MEMBERSHIPS:

Botanical Society of America  
Botanical Society of Japan  
Ecological Society of Japan  
Genetics Society of Japan  
Japanese Society of Plant Taxonomists  
Society for the Study of Species Biology  
Societies of Evolutionary Studies, Japan

#### PROFESSIONAL SERVICE IN ACADEMIC SOCIETIES:

Botanical Society of Japan  
    Councilor, 1999–2000  
    Member of the Committee for Plant Science Foundation, 1997–2000  
    Trustee, 2005–present  
Ecological Society of Japan  
    National Member of the Standing Committee, 1998–present  
    Member of the Selection Committee of the Miyazi Award, 1998–1999  
    Member of the Nature Conservation Committee, 1992–present  
    Secretary of Kyushu Branch, 1995–2002  
    President of Kyushu Branch, 2003–present

Chairman of the Ecosystem Management Committee, 2004–present

Vice President, 2006–2007

Genetics Society of Japan

Councilor, 2005–present

International Organization of Plant Biosystematics

Councilor, 1992–1995, 2001–03, 2004–present

IUCN–SSC (Species Survival Committee)

Chairperson of the Japanese Plants Specialist Group, 1997–present

Japanese Society of Plant Taxonomists

Chairperson of the Threatened Plants Committee, 1990–2001, 2003–present.

Society for the Study of Species Biology

Vice-president, 1995–1997

President, 1998–2001

#### INSTITUTIONAL SERVICE:

Leader of the Biodiversity Conservation Project in the New Campus Area of Kyushu University,  
1999–present

Associate of Faculty Dean, 2001–2002

Director of the Kyushu University Coop, 2003–present

#### OTHER PROFESSIONAL SERVICE:

Member of the Botanical Research Committee, Science Council of Japan, 1994–2003

Member of the Committee for Promoting International Cooperation in Sustainable Use of Marine  
Resource, under the support of the Fishery Agency, 1997–present

Member of the Committee for Threatened Vascular Plants, the Ministry of Environment, 1992–present

Member of the Committee for Biodiversity Survey, the Environment Agency, 1992–2002

Member of the Committee for Evaluating Safety of the GM Crops in the Field Setting, the Environment  
Agency, 1999–2001

Member of the Committee for Improving Conservation System of Natural Monuments, Culture Agency,  
2000–2002

#### MAJOR RESEARCH INTERESTS:

Taxonomy, molecular phylogeny and reproductive biology of Japanese Eupatorium and Mexican Stevia  
with special reference to the evolution of agamospermy  
Evolution of pollination syndromes in Hemerocallis  
Evolution of cleistogamy in Ainsliaea, Viola and other flowering plants  
Extinction risk analysis of Japanese vascular plants  
Conservation of plants and animals in the new campus area of Kyushu University  
Evolution and conservation of plant diversity in Yakushima (Yaku Island)

#### BOOKS (IN JAPANESE)

- Yahara, T. 1995. Evolution of Floral Sex. University of Tokyo Press, 320pp.
- Washitani, I. & Yahara, T. 1996. An Introduction to Conservation Ecology: From Gene to Landscape. Bunichi-sogo-shuppan, 270pp.
- Hasegawa, M., Minaka, N., & Yahara, T. 1999. Modern Views to Darwin. Bunichi-sogo-shuppan, 263pp.
- Yahara, T. & Kawakubo, N. eds. 2002. Biology of Conservation and Restoration: Scientific Thoughts to Save Wildlife. Bunichi-sogo-shuppan, 260pp.
- Yahara, T. and Nagata Y. eds. 2003. Red Data Plants. Yama-to-keikokyu-sha, 719pp.

#### PUBLICATIONS (IN ENGLISH):

1

Shimizu, T., Kitagawa, N., Koyama, H., Santisuk, T., and Yahara, T. 1980. A report on the Thai-Japanese Botanical Expedition 1979. Thai Forest Bull. 13: 47-60.

2

Yahara, T. 1981. Taxonomic studies of the Urticaceae 1. The genus Boehmeria in Thailand. Acta Phytotax. Geobot. 32: 1-12.

3

Yahara, T. 1983. A biosystematic study on the local populations of some species of the genus Boehmeria with special reference to apomixis. J. Fac. Sci. Univ. Tokyo III, 13: 217-261.

4

Yahara, T. 1983. *Boehmeria nakashimae* Yahara, sp. nov. J. Jap. Bot. 58: 82–89.

5

Watanabe, K. and Yahara, T. 1984. Studies on the Asian Eupatoria II. Cytogeography of *Eupatorium chinense* subsp. *sachalinense* var. *oppositifolium*. Bot. Mag. Tokyo 97: 87–105.

6

Yahara, T. 1984. Note on nomenclature and infraspecific classification of *Boehmeria japonica* (L.f.) Miq. and *B. spicata* (Thunb.) Thunb. (Urticaceae). J. Jap. Bot. 59: 129–142.

7

Yahara, T. 1984. *Pellionia* and *Elatostema* in Thailand. Taxonomic studies of Urticaceae II. J. Fac. Sci. Univ. Tokyo III, 13: 483–499 .

8

Okada, H., Fujishama, H., and Yahara, T. 1985. A cytotaxonomic study of *Ranunculus yaegatakense* Masamune, an endemic species in Yakushima Island. J. Jap. Bot. 296–302.

9

Murata, J. and Yahara, T. 1985. *Tripterospermum distylum* J. Murata et Yahara (Gentianaceae), a new species from Yakushima Island, Japan. Acta Phytotax. Geobot. 36: 162–166.

10

Yahara, T., Yamaguchi, H., and Yumoto, T. 1986. Biology of hybridization between *Farfugium japonicum* and *F. hiberniflorum* (Compositae). In: Modern Aspects of Species, [Iwatsuki, K., Raven, P.H., and Bock, W.J. eds.], University of Tokyo Press, Tokyo, pp. 183–193.

11

Yahara, T. 1986. Distribution of sexual and agamospermous populations of *Boehmeria*

*syvestrii* and its three relatives (Urticaceae). Mem. Natl. Sci. Mus. 19: 121–132.

12

Yahara, T. and Sullivan, V.I. 1986. Peroxidase phenotypes of *Eupatorium mohrii* and *E. scabridum* (Compositae), widespread all-agamospermous "species" in the southeastern United States. Pl. Spec. Biol. 1: 27–34.

13

Yahara, T., Ohba, H., Murata, J., and Iwatsuki, K. 1987. Taxonomic review of vascular plants endemic to Yakushima Is., Japan. J. Fac. Sci. Univ. Tokyo III, 14: 69–119.

14

Tanaka, H., and Yahara, T. 1987. Self-pollination of *Asarum caulescens* Maxim. (Aristolochiaceae) in Japan. Pl. Spec. Biol. 2: 133–136.

15

Hori, Y., Yokoi, T., and Yahara, T. 1988. Size structure and critical plant size for the flowering of *Ainsliaea apiculata* in Yakushima Island, Japan. J. Phytogeogr. Tax. 36: 45–50.

16

Yahara, T. 1989. Phytogeographical problems in the temperate flora in Japan. In: Current Aspects of Biogeography in West Pacific and East Asian Regions, [Ohba, H., Hayami, I., and Mochizuki, K. eds], University Museum, the University of Tokyo, pp. 99–113.

17

Kawahara, T., Yahara, T. and Watanabe, K. 1989. Distinction in morphology and esterase isozyme between *Eupatorium glehni* (= *E. chinense* subsp. *sachalinense*) and *E. chinense* var. *oppositifolium* (Compositae). Bot. Mag. Tokyo 102: 165–179.

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Yahara, T., Kawahara, T., Crawford, D.J., Ito, M., and Watanabe, K. 1989. Extensive gene duplications in diploid *Eupatorium* (Asteraceae). Amer. J. Bot. 76: 1247–1253.

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Kawahara, T., Yahara, T. and Watanabe, K. 1989. Distribution of sexual and agamospermous populations of *Eupatorium* (Compositae) in Asia. *Pl. Spec. Biol.* 4: 37–46.

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Yamaguchi, H. and Yahara, T. 1989. Analysis on pollen flow in hybridizing population between *Farfugium hiberniflorum* and *F. japonicum* (Asteraceae: Senecioneae): derivation of an empirical equation describing frequency of hybridization as a function of interspecific plant distance. *Pl. Spec. Biol.* 4: 101–106.

21

Fujishima, H., Okada, H., Horio, Y. and Yahara, T. 1990. The cytotaxonomy and origin of *Ranunculus yaegatakensis*, an endemic taxon of Yakushima Island. *Bot. Mag. Tokyo* 103: 49–56.

22

Watanabe, K., Ito, M., Yahara, T., Sullivan, V.I., Kawahara, T. and Crawford, D.J. 1990. Numerical analyses of karyotypic diversity in the genus *Eupatorium* (Compositae, Eupatorieae). *Pl. Syst. Evol.* 170: 215–228.

23

Yahara, T. 1990. Evolution of agamospermous races in *Boehmeria* and *Eupatorium*. *Pl. Spec. Biol.* 5: 183–196.

24

Yahara, T., Ito, M., Watanabe, K., and Crawford, D.J. 1991. Very low genetic heterozygosities in sexual and agamospermous populations of *Eupatorium altissimum* (Asteraceae). *Amer. J. Bot.* 78: 706–710.

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Yahara, T. 1992. Evolutionarily stable mating system in plants. *Evolution* 46: 557–561.

26

Masuda, M. and T. Yahara. 1992. Dispersal of chasmogamous and cleistogamous seeds in *Viola hondoensis* W. Backer et H. Boiss. *Bot. Mag. Tokyo* 105: 323–326.

27

Watanabe, K., T. Yahara, and H. Kadota. 1992. Natural hybrid populations between chasmogamous and cleistogamous species, *Ainsliaea faurieana* and *A. apiculata* (Asteraceae; Mutisieae): morphology, cytology, reproductive mode and allozyme variation. *Pl. Spec. Biol.* 7: 49–59

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Oyama, K., M. Ito, and T. Yahara. 1993. Genetic diversity in the clonal plant *Arabis flagellosa* Miq. (Brassicaceae). *J. Jpn. Bot.* 68: 211–214.

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Oyama, K., M. Ito, T. Yahara, and M. Ono. 1993. Low genetic differentiation among populations of *Arabis serrata* (Brassicaceae) along an altitudinal gradient. *J. Pl. Res.* 106: 143–148.

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Yahara, T. and M. Maki. 1993. Effects of biparental inbreeding on the evolution of gynodioecy. *J. Pl. Res.* 106: 279–281.

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Yahara, T., and K. Oyama. 1993. Effects of virus infection on demographic traits of an agamosperous population of *Eupatorium chinense* (Asteraceae). *Oecologia* 96: 310–315.

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Masuda, M. and T. Yahara. 1994. Reproductive ecology of the cleistogamous annual, *Impatiens noli-tangere* L., occurring under different environmental conditions. *Ecol. Res.* 9: 67–75.

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Watanabe, K., R. King, T. Yahara, M. Ito, J. Yokoyama, T. Suzuki and D.J. Crawford. 1995. Cytological studies in the tribe Eupatorieae (Asteraceae). *Ann. Missouri Bot. Gard.* 82: 581–592.

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Yahara, T., K. Watanabe, and T. Kawahara. 1995. *Eupatorium*. In: K. Iwatsuki, T. Yamazaki, D.E. Boufford, and H. Ohba, eds., *Flora of Japan* vol. IIIb. pp. 110–114, Kodansha Scientific, Tokyo.

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Yahara, T. and A. Soejima. 1996. A new species of *Stevia* from Mexico. *Phytologia* 79: 35–37.

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Watanabe, K., T. Denda, Y. Suzuki, K. Kosuge, M. Ito, P.S. Short and T. Yahara. 1996. Chromosomal and molecular evolution in the genus *Brachyscome* (Asteraceae). In D.J.N. Hind and H.J. Beentje eds, *Compositae: Systematics*, pp. 705–722. *Royal Bot. Gard. Kew.*

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Funayama, T., K. Hikosaka, and T. Yahara. 1997. Effects of virus infection and growth irradiance on fitness components and photosynthetic properties of *Eupatorium makinoi*

(Compositae). *American Journal of Botany* 84: 823–829.

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Yahara, T. and K. Ooi. 1997. Virus infection and the evolution of sex in flowering plants. *J. Rep. Dev.* 43 (Suppl.): 9–10.

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Konuma, A. and T. Yahara. 1997. Temporally changing male reproductive success and resource allocation strategy in protandrous *Helacleum lanatum* (Apiaceae). *J. Pl. Res.* 110: 227–234.

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Ooi, K., S. Oshita, I. Ishii and T. Yahara. 1997. Molecular phylogeny of geminivirus infecting wild plants in Japan. *J. Pl. Res.* 110: 247–257.

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Sharma, A., A. Maruyama, T. Osaki, K. Ooi, T. Yahara and M. Ikegami. 1997. Genotypic variability in AC1 ORF region of Tobacco Leaf Curl Geminivirus from naturally infected wild plants. *Ann. Phytopath. Soc. Jap.* 63: 298–303.

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Maki, M. and T. Yahara. 1997. Spatial structure of genetic variation in a population of the endangered plant *Cerastium fischerianum* var. *molle* (Caryophyllaceae). *Genes & Genetic Systems* 72: 239–242.

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Matsuda, H., T. Yahara, and Y. Uozumi. 1997. Is the tuna critically endangered? Extinction risk of a large and overexploited population. *Ecological Research* 12: 345–356.

47

Ohashi, K. and T. Yahara. 1998. Effects of variation in flower on pollinator visits in *Cirsium purpuratum* (Asteraceae). *American Journal of Botany* 85: 219–224.

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Yahara, T., K. Ooi, S. Oshita, I. Ishii and M. Ikegami. 1998. Molecular evolution of a host-range gene in geminiviruses infecting asexual populations of *Eupatorium makinoi*. *Genes & Genetic Systems* 73, 137–141.

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Miyake, T., R. Yamaoka, and T. Yahara. 1998. Floral scents of hawkmoth-pollinated flowers in Japan. *Journal of Plant Research* 111: 199–205.

50

Watanabe, K., T. Yahara, M. Ito and T. Kawahara. 1998. Phylogeny and phytogeography in the genus *Eupatorium* (Asteraceae). *Korean Journal of Plant Taxonomy* 28: 83–98.

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Matsuda, H., Y. Takenaka, T. Yahara, and Y. Uozumi. 1998. Extinction risk assessment of declining wild populations: The case of southern bluefin tuna. *Researches on Population Ecology* 40: 271–278.

52

Yahara, T., Kato, T., Inoue, K., Yokota, M., Kadono, Y., Serizawa, S., Takahashi, H., Kawakubo, N., Nagamasu, H., Suzuki, K., Ueda, K., and Kadota, Y. 1998. Red list of Japanese vascular plants: summary of methods and results. *Proceedings of Japanese Society of Plant Taxonomists* 13: 89–96.

53

Miyake, T. and T. Yahara. 1998. Why does the flower of *Lonicera japonica* open at dusk? *Canadian Journal of Botany* 76: 1806–1811.

54

Kinoshita M, Kasuya E, and Yahara T. 1998. More highly female-biased sex ratio in the fig wasp, *Blastophaga nipponica* Grandi (Agaonidae) *Researches in Population Ecology* 40: (2) 239–242.

55

Ooi, K. and T. Yahara. 1999. Genetic variation of geminiviruses: comparison between sexual and asexual host plant populations. *Molecular Ecology* 8: 89–97.

56

Watanabe, K., Yahara, T., Denda, T. and Kosuge, K. 1999. Chromosomal evolution in the genus *Brachyscome* (Asteraceae, Astereae): statistical tests regarding correlation between changes in karyotype and habitat using phylogenetic information. *Journal of Plant Research* 112: 145–161.

57

Denda, T., Watanabe, K., Kosuge K., Yahara, T., and Ito, M. 1999. Molecular phylogeny in *Brachyscome* Cass. (Asteraceae, Astereae). *Plant Systematics and Evolution*. 217: 299–311.

58

Miyake, T. and Yahara, T. 1999. Theoretical evaluation of pollen transfer by nocturnal and diurnal pollinators: when should a flower open? *OIKOS* 86: 233–240.

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Ohashi, K. and Yahara, T. 1999. How long to stay on, and how often to visit a flowering plant? – a model for foraging strategy when floral displays vary in size. *OIKOS* 86: 386–392.

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Sato, H. and Yahara, T. 1999. Trade-offs between flower number and investment to a flower in selfing and outcrossing varieties of *Impatiens hypophylla* (Balsaminaceae) . *American Journal of Botany* 86: 1699–1707.

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Masuda, M., Maki, M., and Yahara, T. 1999. Effects of salinity and temperature on seed germination in a Japanese endangered halophyte *Triglochin maritimum* (Juncaginaceae). *Journal of Plant Research* 112: 457–461.

62

Ito, M., Watanabe, K., Kita, Y., Kawahara, T., Crawford, D.J. and Yahara, T. 2000. Phylogeny and phytogeography of *Eupatorium* (Eupatorieae, Asteraceae): Insights from sequence data of the nrDNA ITS region and cpDNA RFLP. *Journal of Plant Research* 113: 79–89.

63

Ito, M., Yahara, T., King, R.M., Watanabe, K., Oshita, S., Yokoyama, J., and Crawford, D.J. 2000. Molecular phylogeny of Eupatorieae (Asteraceae) estimated from cpDNA RFLP and its implication for the polyploid origin hypothesis of the tribe. *Journal of Plant Research* 113: 91–96.

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Ohashi K, and Yahara T. 2000. Effects of flower production and predispersal seed predation on reproduction in *Cirsium purpuratum*. *Canadian Journal of Botany* 78: 230–236.

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Matsuda, H., Yahara, T., and Kaneko, Y. 2000. Extinction risk assessment of threatened species. *Population Ecology* 42: 3–4.

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Sakisaka, Y., Yahara, T., Miura, I., and Kasuya, E. 2000. Maternal control of sex ratio in *Rana rugosa*: evidence from DNA sexing. *Molecular Ecology* 9: 1711–1715.

67

Funayama, S., Terashima I., and Yahara T. 2001. Effects of virus infection and light environment on population dynamics of *Eupatorium makinoi* (Asteraceae). *American Journal of Botany* 88(4): 616–622.

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Masuda, M., Yahara, T. and Maki, M. 2001. The ESS model for the mixed production of cleistogamous and chasmogamous flowers in a facultative cleistogamous plant. *Evolutionary*

Ecology Research 3: (4) 429–439.

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Ishida, Y., Kasuya, E. and Yahara, T. 2001. Female control of paternity during copulation: inbreeding avoidance in feral cats. *Behaviour* 138: 235–250.

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Ohashi, K. and Yahara, T. 2001. Behavioral responses of pollinators to variation in floral display size and their influences on the evolution of floral traits. In: Chittka, L. & Thomson J. D. eds., *Cognitive Ecology of Pollination*. Cambridge University Press, New York, pp. 274–296.

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Watanabe, K., Soejima A., Yahara, T., and Ito M. 2001. Mexican species of the genus *Stevia* (Eupatorieae, Asteraceae). Chromosome numbers and geographical distribution. *Plant Species Biology* 16, 49–68.

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Soejima, A., Yahara, T. and Watanabe, K. 2001. Distribution and variation of sexual and agamosperous populations of *Stevia* (Compositae: Eupatorieae) from Mexico. *Plant Species Biology* 16, 91–105.

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Soejima, A., Yahara, T. and Watanabe, K. 2001. Thirteen new species and two new combinations of *Stevia* (Asteraceae : Eupatorieae) from Mexico. *Brittonia* 53: 377–395.

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Yahara, T. 2001. Conservation of forest and biodiversity in new campus area. *Kyudai News* 7: 7–8.

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Mishima, M., Ohmido, N., Fukui, K. and Yahara, T. 2002. Trends in site-number change of rDNA loci during polyploid evolution in *Sanguisorba* (Rosaceae). *Chromosoma* 110:

550–558.

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Kinoshita M, Kasuya E, Yahara T. 2002. Effects of time-dependent competition for oviposition sites on clutch sizes and offspring sex ratios in a fig wasp. *Oikos* 96 (1): 31–35.

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Yamaguchi N, Yahara T. 2002. Factors causing variation in flock size: Decision making to join a foraging flock. *Ecological Research* 17 (3): 361–371.

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Saunders, K., Bedford, I. D., Yahara, T., and Stanley, J. 2003. The earliest recorded plant virus disease. *Nature* 422: 831.

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Yamaguchi N, Kawano KK, Eguchi K, Yahara T. 2004. Facultative sex ratio adjustment in response to male tarsus length in the Varied Tit *Parus varius*. *Ibis* 146 (1): 108–113.

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Murayama K, Yahara T, Terachi T. 2004. Variation of female frequency and cytoplasmic male-sterility gene frequency among natural gynodioecious populations of wild radish (*Raphanus sativus* L.). *Molecular Ecology* 13 (8): 2459–2464.

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Ohtsuka, A., Watanabe, M., Yahara, T. 2005. Inbreeding coefficients in six species of *Ainsliaea* and two species of *Pertya* (Asteraceae). *Plant Systematics and Evolution* 251: 143–151.

84.

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