



Program of East Asian Botany: International Symposium 2011

Japanese Society for Plant Systematics

East Asian Botany: International Symposium 2011 19 March (Sat)

*Presenter, ☺ Person seeking an academic position

9:00 **Opening and Welcome Address.**
 –9:10 Hiroshi Tobe (President of the Japanese Society for Plant Systematics)

9:10–12:00 Oral Session 1: Phylogeography of East Asian Plants

Chairman: Noriaki Murakami (Tokyo Metropolitan Univ.)

9:10 **S1 Phylogeny and biogeography of Oleaceae.**
 –9:35 Ki-Joong Kim* (Korea Univ.)
 9:35 **S2 Phylogeny and distributed patterns of a cosmopolitan greenbrier family Smilacaceae (Liliales).**
 –10:05 Chengxin Fu* (Zhejiang Univ.)
 10:05 **S3 Chloroplast DNA phylogeography of *Pedicularis* around the Japanese Islands.**
 –10:30 Noriyuki Fujii* (Kumamoto Univ.)

— Coffee Break 10:30–10:45 —

Chairman: Tadashi Kajita (Chiba Univ.)

10:45 **S4 Comparative phylogeography of Japanese deciduous broad-leaved trees.**
 –11:00 Takaya Iwasaki* ☺ (Grad. Sch. Sci., Chiba Univ.)
 11:00 **S5 Phylogeography and genetic diversity of East Asian *Neolitsea sericea* (Lauraceae) using chloroplast DNA sequence variation.** Jung-Hyun Lee* (Inha Univ.)
 –11:15
 11:15 **S6 Range-wide microsatellite analysis and ecological niche modeling of *Kalopanax septemlobus*, a tree species across three temperate regions in Eastern Asia.** Shota Sakaguchi* (Grad. Sch. Agr., Kyoto Univ.)
 –11:30
 11:30 **S7 Phylogeography of Japanese broadleaved evergreen forests: parallel histories of *Castanopsis* and its phytophagous insect populations.** Kyoko Aoki* (Grad. Sch. Global Environ. Stud., Kyoto Univ.)
 –11:45
 11:45 **S8 Plant biogeography in the Ryukyu Archipelago and Taiwan.**
 –12:00 Koh Nakamura* (Biodiv. Res. Center, Acad. Sinica, Taiwan)

— Lunch Break 12:00–13:00 —

13:00–16:20 Oral Session 2: Diversity and Evolution of East Asian Plants

Chairman: Minoru N. Tamura (Kyoto Univ.)

13:00 **S9 Phylogenetic and conservation status of the endangered terrestrial orchid *Nervilia nipponica* (Orchidaceae) in Korea.** Nam-Sook Lee* (Ewha Womans Univ.)
 –13:15
 13:15 **S10 Ecological differentiation of the aquatic plant species *Chara braunii* (Charales) in Japan.**
 –13:30 Syou Kato* ☺ (Grad. Sch. Life Environ. Sci., Univ. of Tsukuba)
 13:30 **S11 Bryophyte evolution: a molecular phylogeny of bryophytes.**
 –13:45 Hiromi Tsubota* (Hiroshima Univ.)
 13:45 **S12 Phylogeny of genus *Lilium* (Liliaceae) based on cpDNA matK sequences, with special emphasis on Korean species.** Chang-Shook Lee* (Ewha Womans Univ.)
 –14:00

- 14:00 **S13 Complete chloroplast genome sequences of *Eleutherococcus senticosus*, *Abeliophyllum distichum* and *Sesamum***
 –14:15 ***indicum*, and phylogenetic analyses to other Asterids.** Dong-Keun Yi* (Korea Univ.)

— Coffee Break 14:15–14:30 —

Chairman: Yasuyuki Watano (Chiba Univ.)

- 14:30 **S14 Genetic linkage mapping in *Osmunda*: towards identification of molecular markers associated with**
 –14:45 **adaptive traits.** Yoko Kakugawa-Yatabe* (Bot. Gard., Grad. Sch. Sci., Univ. of Tokyo)
- 14:45 **S15 Hybridization in *Aconitum* subgenus *Aconitum* (Ranunculaceae) at Mt. Jiri in Korea.**
 –15:00 Tae-Kwon Noh* (Natn. Inst. Biol. Res.)
- 15:00 **S16 Evolution of lichens and the relationship with photobionts.**
 –15:15 Yoshihito Ohmura* (Natl. Mus. Nat. Sci.)
- 15:15 **S17 Positive interactions among the cushion species and other plant species at the high elevations of**
 –15:30 **Sino-Himalaya.** Yang Yang* (Kunming Institute of Botany, CAS)
- 15:30 **S18 Origin and evolution of obligate pollination mutualism in the tribe Phyllanthae (Phyllanthaceae).**
 –15:55 Atsushi Kawakita* (Kyoto Univ.)
- 15:55 **S19 DNA analysis identifies roots infiltrating the lava tubes in Jeju World Natural Heritage of Korea.**
 –16:20 Sang-Tae Kim* (Sungshin Univ.)

16:30–18:30 Poster Session (1)

Core time: 16:30–17:30 for posters with odd numbers; 17:30–18:30 for posters with even numbers

- P0 Phylogeography of *Aster spathulifolius* Maxim. (Asteraceae) based on intergenic sequences between *trnK5'*
 and *matK* gene.** Krishna Prasad Dhakal*, Cho Seong-Ho, Pak Jae-Hong (Kyungpook Natl. Univ.)
- P1 Molecular phylogenetics of Nepenthaceae based on Internal Transcribed Spacer (ITS) DNA sequences.**
 Firman Alamsyah*, Motomi Ito (Univ. of Tokyo)
- P2 Two types of fruit with different seed dispersal mode in *Scaevola taccada*.**
 Naoko Emura*, Keisuke Ueda (Rikkyo Univ.)
- P3 Dimorphic chloroplasts in the epidermis of the unique aquatic angiosperm Family Podostemaceae.** Rieko
 Fujinami* ☺ (Japan Women's Univ.), Isao Yoshihama (Tokyo Medical Univ.), Ryoko Imaichi (Japan Women's Univ.)
- P4 Taxonomic relationship between *Saxifraga fusca* and *S. purpurascens* (Saxifragaceae).** Tomoko Fukuda* ☺
 (Natl. Mus. Nat. Sci.), Alexandr A. Taran (Sakhalin Bot. Gard.), Viktor M. Okrugin (IVS FEB RAS), Hideki
 Takahashi (Hokkaido Univ.), Hiroshi Ikeda (Univ. of Tokyo)
- P5 Unique adaxial-abaxial patterning and acropetal development in pitcher-shaped leaves of *Sarracenia purpurea*.**
 Kenji Fukushima*, Takahiro Yamaguchi, Mitsuyasu Hasebe (Grad. Univ. Adv. Stud.)
- P6 The DNA barcoding study of Korean gymnosperms.** Hye-Woo Shin*, Ki-Joong Kim (Korea Univ.)
- P7 Phylogenetic analysis of *Asarum* sect. *Heterotropa* based on *trnK*, *trnL-F* of chloroplast DNA and PISTILLATA
 of nuclear DNA sequence.** Nana Goto* (Tokyo Metro. Univ.), Yudai Okuyama (Natl. Mus. Nat. Sci.), Takashi
 Sugawara (Tokyo Metro. Univ.)
- P8 Range expansion history after the LGM in *Schizocodon soldanelloides* based on cpDNA haplotyping and
 ecological niche modeling.** Hiroyuki Higashi* (Kyoto Univ.), Hajime Ikeda (Univ. of Tokyo), Shota Sakaguchi,
 Yuji Isagi, Hiroaki Setoguchi (Kyoto Univ.)
- P9 A comparative pollination biology : *Swertia bimaculata* and *S. diluta* (Gentianaceae).** Sachiko Hori* (Gifu Univ.),
 Hiroshi Takahashi (Gifu Univ.)
- P10 Biosystematic studies on *Pteris cretica*: the phylogenetic relationship of the species in the *Pteris cretica* group
 (Pteridaceae - Pteridophyta).** Tassanai Jaruwattanaphan* ☺ (Chiba Univ.), Sadamu Matsumoto (Natl. Mus. Nat. Sci.),
 Yasuyuki Watano (Chiba Univ.)
- P11 Evidence for local adaptation of the dwarf morphology of *Lysimachia japonica* var. *minutissima* (Myrsinaceae)
 to alpine region in Yakushima.** Akihiro Kakezawa*, Hiroshi Kudoh, Hiroshi Tobe, Wataru Shinohara (Kyoto Univ.)
- P12 Asymmetrical hybridization between monocarpic mass-flowering shrub and polycarpic perennial herb in
Strobilanthes.** Satoshi Kakishima*, Jin Murata (Univ. of Tokyo)
- P13 Taxonomic reevaluation of the *Geastrum triplex* complex (Geastraceae, Geastrales, Fungi) based on**

- morphology, molecular phylogeny, and phylogeography.** Taiga Kasuya* (Univ. of Tsukuba), Kentaro Hosaka (Natl. Mus. Nat. Sci.), Makoto Kakishima (Univ. of Tsukuba)
- P14 *Mannia subpilosa* (Horik.) Horik. [Marchantiophyta: Aytoniaceae] is identical with *Cryptomitrium tenerum* (Hook.) Austin.** Tomoyuki Katagiri*, Hironori Deguchi (Hiroshima Univ.)
- P15 Development and origin of novel embryonic shoot meristem in Podostemaceae.** Natsu Katayama* (Kanazawa Univ.), Masahiro Kato (Natl. Mus. Nat. Sci.), Toshihiro Yamada (Kanazawa Univ.)
- P16 Conservation genetics of the endangered perennial herb, *Veronicastrum villosulum* (Plantaginaceae) analyzing all wild and cultivated individuals utilizing microsatellite markers.** Keiko Kato*, Shingo Kaneko, Yuji Isagi (Kyoto Univ.)
- P17 The diversity of "Antarctic *Bryum pseudotriquetrum*" (Musci, Bryaceae).** Kengo Kato* (Grad. Univ. Adv. Stud.), Satoshi Imura, Hiroshi Kanda (Natl. Inst. Polar Res.)
- P18 Phenological and molecular phylogenetic studies on the genus *Burmanna* in Japan.** Manami Kimura*, Hiromi Tsubota, Seiji Mukai, Mieko Mukai (Hiroshima Univ.), Shinji Nagatani (Kure City), Miho Nakahara-Tsubota (Nat. Hist. Mus. Inst., Chiba), Harumori Kubo, Katsunori Suzuki (Hiroshima Univ.)
- P19 Ecological differentiation between northern and southern populations of *Hibiscus perambuensis* suggested by Ecological Niche Modeling.** Masashi Kiuchi* (Chiba Univ.), Koji Takayama (Univ. of Vienna), Tadashi Kajita (Chiba Univ.)
- P20 Analysis of natural hybridization between *Rumex longifolius* and the invasive congeneric species in the Watarase wetland.** Taiki Kobayashi*, Kazuki Shiraishi (Tohoku Univ.), Shinji Fujii (Univ. of Human Environ.), Fumiko Ishihama (Natl. Inst. Environ. Stud.), Masayuki Maki (Tohoku Univ.)
- P21 Evolution of *WOX5* homologs in Podostemaceae.** Satoshi Koi* ☺ (NAIST), Masahiro Kato (Natl. Mus. Nat. Sci.), Keiji Nakajima (NAIST)
- P22 Comparative phylogeographical study of *Hosta sieboldiana* and *H. albomarginata* (Liliaceae) of Japan.** Sangryong Lee*, Masayuki Maki (Tohoku Univ.)
- P23 Taxonomic status of endemic plants, *Eranthis byunsanensis* and *E. pungdoensis* (Ranunculaceae) in Korea.** Chang-Shook Lee, Sung-Hee Yeau*, Nam-Sook Lee (Ehwa Womans Univ.)
- P24 Taxonomic revision of the type species of the genus *Chloromonas* (Volvocales, Chlorophyceae), *C. reticulata* and its related species, based on multigene phylogeny and comparative light and electron microscopy.** Ryo Matsuzaki* (Univ. of Tokyo), Takashi Nakada ☺ (Keio Univ.), Yoshiaki Hara (Yamagata Univ.), Hisayoshi Nozaki (Univ. of Tokyo)
- P25 Revision of *Veratrum* section *Veratrum* (Melanthiaceae) in Korea and Japan Based on Molecular Data.** Jin-Ohk Kim (Ewha Womans Univ.), Minoru N. Tamura (Kyoto Univ.), Shizuka Fuse (Mus. Nat. Human Act., Hyogo), Nam-Sook Lee* (Ewha Womans Univ.)
- P26 Increased genotypic diversity in back-crossed hybrids of *Taraxacum platycarpum* (sexual diploid) and *Taraxacum officinale* (agamosperrmous triploid).** Chika Mitsuyuki* (Kyushu Univ.), Hiroyuki Shibaie (Natl. Inst. Agro-Environ. Sci.), Akihiko Hoya (Univ. of Tokyo), Tetsukazu Yahara (Kyushu Univ.)
- P27 Phylogeographical study on *Viola grypoceras* var. *ripensis* (Violaceae) using cpDNA variatons.** Chiaki Miura* (Tohoku Univ.), Tadashi Yamashiro (Univ. of Tokushima), Jun Yokoyama (Yamagata Univ.), Hirokazu Tsukaya (Univ. of Tokyo), Yoshihisa Suyama, Masayuki Maki (Tohoku Univ.)
- P28 Chemotaxonomic and phylogenetic comparisons between *Iris sanguinea* var. *sanguinea* and var. *tobataensis*.** Takayuki Mizuno* (Ibaraki Univ.), Yudai Okuyama, Shinobu Akiyama, Tsukasa Iwashina (Natl. Mus. Nat. Sci.)
- P29 Phenylethanoids and flavonoids in the leaves of seven *Plantago* species in Japan.** Yoshinori Murai* (Keio Univ.), Tsukasa Iwashina (Natl. Mus. Nat. Sci.)
- P30 Systematic significance of leaf micromorphology and petiole anatomy in tribes *Forsythieae* and *Fontanesieae* (Oleaceae).** Jun-Ho Song*, Suk-Pyo Hong (Kyung Hee Univ.)
- P31 Variation of floral morphology in *Aster hispidus* var. *tubulosus*: its relationship to microhabitat.** Sayaka Nakagawa*, Motomi Ito (Univ. of Tokyo)
- P32 Cytotaxonomic study and molecular phylogeny of *Galium* L. (Rubiaceae) using chloroplast DNA sequences.** Keum-Seon Jeong* (Kyungpook Natn. Univ.), Masayuki Maki (Tohoku Univ.), Jae-Hong Pak (Kyungpook Natn. Univ.)
- P33 Molecular phylogeny and taxonomic reexamination of *Dioscorea* (Dioscoreaceae) from Japan and the other**

- Asian regions.** Hiroshi Noda* (Osaka City Univ.), Jun Yamashita (Okayama Univ.), Shizuka Fuse (Mus. Nat. Human Act., Hyogo), Minoru N. Tamura (Kyoto Univ.)
- P34 Molecular identification of mycorrhizal fungi in the mixotrophic plant *Chimaphila umbellata*.** Hiroshi Nojima*, Yuki Sakamoto (Tohoku Univ.), Jun Yokomyama (Yamagata Univ.), Maki Masayuki (Tohoku Univ.)
- P35 The variation of chloroplast *ycf2* gene region in the genus *Syringa* and *Ligustrum* (Oleaceae).** So-Yeong Yang*, Ki-Joong Kim (Korea Univ.)
- P36 Diversification of *Leucobryum boninense* (Leucobryaceae, Musci), endemic to the Bonin Islands.** Emiko Oguri* (Tokyo Metro. Univ.), Tomio Yamaguchi, Hiromi Tsubota, Hironori Deguchi (Hiroshima Univ.)
- P37 Phylogeny of Smilacaceae (Liliales) from Japan.** Yoshifumi Ohno*, Hiroshi Azuma, Minoru N. Tamura (Kyoto Univ.)
- P38 Genetic segregation observed in sporophytes and gametophytes of the apogamous fern *Cyrtomium fortunei*.** Ryo Ootsuki* ☺ (Tokyo Metro. Univ.), Sato Hirotohi (FFPRI), Narumi Nakato (Higashiyamato-city), Noriaki Murakami (Tokyo Metro. Univ.)
- P39 Molecular and evolutionary analysis on the sex-linked gene of *Aucuba japonica*.** Yusuke Saito*, Masayuki Maki (Tohoku Univ.)
- P40 Phylogeography of *Arabis serrata* (Brassicaceae) based on chloroplast and nuclear DNA variations.** Ayumi Satou*, Masayuki Maki (Tohoku Univ.)
- P41 What kind of barrier prevent gene flow between southwestern and northeastern populations of wild plant and animal species in Japan?** Akihiro Seo* ☺ (Res. Inst. Hum. Nat.), Noriaki Murakami (Tokyo Metro. Univ.), Takakazu Yumoto (Res. Inst. Hum. Nat.)
- P42 Flavonoid chemistry and evolution of floral color change in the genus *Weigela*.** Satoshi Shimokawa* (Tokyo Metro. Univ.), Tsukasa Iwashina (Natl. Mus. Nat. Sci.), Noriaki Murakami (Tokyo Metro. Univ.)
- P43 Interspecific gene flow by hybridization between the threatened species *Rumex longifolius* and the invasive congeneric species.** Kazuki Shiraishi*, Taiki Kobayashi (Tohoku Univ.), Shinji Fujii (Univ. of Human Environ.), Fumiko Ishihama (Natl. Inst. Environ. Stud.), Masayuki Maki (Tohoku Univ.)
- P44 Genetic diversity and differentiation of *Symplocos* (Symplocaceae) in the Bonin (Ogasawara) Islands.** Kyoko Sugai*, Noriaki Murakami, Hidetoshi Kato (Tokyo Metro. Univ.)
- P45 Speciation patterns and phylogeography of *Smilax china* complex in East Asia.** Zhongshuai Sun*, Xiaoxian Liu, Joogku Lee, Chengxin Fu (Zhejiang Univ.)
- P46 Systematic reassessment of Faucheaceae and Lomentariaceae (Rhodymeniales, Rhodophyta).** Masahiro Suzuki* ☺ (Tsuru Univ.), Tetsuo Hashimoto (Univ. of Tsukuba), Hisayoshi Nozaki (Univ. of Tokyo)
- P47 The evolution of flower color change: comparison between 'change' and 'non-change' species in *Weigela*.** Miki Suzuki* (Univ. of Tsukuba), Satoshi Shimokawa (Tokyo Metro. Univ.), Kazuharu Ohashi (Univ. of Tsukuba), Tsukasa Iwashina (Natl. Mus. Nat. Sci.), Noriaki Murakami (Tokyo Metro. Univ.)
- P48 Genetic boundary observed in the component species of deciduous forests in Chugoku and Kinki regions(Japan).** Akitaka Tono* (Tokyo Metro. Univ.), Akihiro Seo ☺ (Res. Inst. Hum. Nat.), Takaya Iwasaki ☺ (Chiba Univ.), Noriaki Murakami (Tokyo Metro. Univ.)
- P49 Chemotaxonomy of Japanese *Chrysanthemum* and related genera using foliar flavonoids.** Ayumi Uehara* (Tokyo Univ. of Agr. Tech.), Masashi Nakata (Bot. Gard. Toyama), Tsukasa Iwashina (Natl. Mus. Nat. Sci.)
- P50 Molecular phylogeny of the genus *Trachelospermum* in Japan based on RAPD analysis and the nucleotide sequences of cpDNA and nrDNA.** Azusa Uemachi* ☺, Takashi Shimomura (Kyoto Pref. Univ.)
- P51 Evolution of reproductive isolation in *Asplenium nidus* complex.** Kanako Yamada* (Tokyo Metro. Univ.), Yoko Yatabe-Kakugawa (Univ. of Tokyo), Hidetoshi Kato, Saeko Kato, Keigo Mori, Noriaki Murakami (Tokyo Metro. Univ.)
- P52 Do apogamous fern *Dryopteris erythrosora* have ability to cross with its related sexual species?** Kaoru Yamamoto* (Tokyo Metro. Univ.), Yoko Yatabe-Kakugawa (Univ. of Tokyo), Atsushi Ebihara (Natl. Mus. Nat. Sci.), Noriaki Murakami (Tokyo Metro. Univ.)
- P53 Embryology of the family Simaroubaceae (Sapindales): characteristics and character evolution.** Takenori Yamamoto*, Hiroshi Tobe (Kyoto Univ.)
- P54 iPis- plant identification system by analyzing leaf and stem morphology.** Wataru Yamane* (Shimane Univ.), Isao Mandai, Nobuhiro Maeda (T. R. Workers Co.), Junki Moriguchi, Dou Wei (Shimane Univ.), Jeong Yu Neung (Dong-A Univ.), Masahito Inoue (Shimane Nat. Mus. Mt. Sanbe), Su-Juan Lin, Takashi Akihiro (Shimane Univ.)

- P55** Microsatellite analysis revealed the different genetic composition between wild and restored populations of a critically endangered herb *Polemonium kiushianum*. Masashi Yokogawa*, Shingo Kaneko (Kyoto Univ.), Yoshitaka Takahashi (NARO), Yuji Isagi (Kyoto Univ.)
- P56** Isolation and characterization of 10 microsatellite loci from *Leontopodium japonicum* (Asteraceae). Dong-Hyuk Lee, Jung-Hyun Lee, Byoung-Hee Choi (Inha Univ.)
- P57** Pollination biology of *Lilium japonicum* var. *abeanum* and var. *japonicum*: evidence of adaptation to different availability of diurnal and nocturnal pollinators. Shizuka Yokota*, Tetsukazu Yahara (Kyushu Univ.)

<< General poster presentation >>

- P58** Geographical variations of *Astilbe* (Saxifragaceae) in the Fossa Magna Region. Shinobu Akiyama* (Natl. Mus. Nat. Sci.)
- P59** Distribution of native polyploid dandelions in San'in district –Dandelions Survey 2010 in West Japan. Tomotsugu Arikawa* (Tottori Pref. Mus.), Masahito Inoue (Shimane Nat. Mus. Mt. Sanbe), Dai Nagamatsu (Tottori Univ.), Yukihiisa Kiyosue (Tottori Liaison Conf. Nat. Conser. Edu.), Tomoko Yonezawa (Tottori Pref. Mus.), Takeshi Suzuki (Mus. Nat. Human Act., Hyogo)
- P60** Molecular phylogeny of Japanese Apiaceae subfamily Apioideae. Haruka Komori, Keita Mochizuki, Hiroshi Azuma* (Kyoto Univ.)
- P61** Phylogeny of Nartheciaceae (Dioscoreales). Shizuka Fuse* (Mus. Nat. Human Act., Hyogo), Nam Sook Lee (Ewha Womans Univ.), Minoru N. Tamura (Kyoto Univ.)
- P62** Flowering phenology in two androdioecious trees, *Zanthoxylum ailanthoides* and *Z. schinifolium* (Rutaceae) from Hyogo, Japan. Kiyoharu Ushijima, Tomiko Ushijima (Soc. for Flora of Hyogo), Shizuka Fuse* (Mus. Nat. Human Act., Hyogo), Nobuhira Kurosaki (Shoei Junior College)
- P63** Taxonomic study of *Ctenidium* (Hypnaceae) based on molecular data and morphological characters. Tomotsugu Arikawa (Tottori Pref. Mus.), Naoki Nishimura (Okayama Univ. of Sci.), Masanobu Higuchi* (Natl. Mus. Nat. Sci.)
- P64** Two new species of truffle-like mushrooms from *Pandanus* stands, Ogasawara Islands. Kentaro Hosaka* (Natl. Mus. Nat. Sci.)
- P65** Phylogeographical study on *Veratrum maackii* (Melanthiaceae) using nuclear SSR markers. Satoshi Iijima* (Tohoku Univ.), Takahashi Hiroshi (Gihu Univ.), Jae-Hong Pak (Kyungpook Natl. Univ., Korea), Masayuki Maki (Tohoku Univ.)
- P66** Phylogeography of *Cassiope lycopodioides* (Ericaceae) based on multilocus nuclear sequences. Hajime Ikeda* (Univ. of Tokyo), Hiroyuki Higashi, Hiroaki Setoguchi (Kyoto Univ.)
- P67** Evaluation of the Sea of Japan side refugia for Japanese deciduous broad-leaved trees comparing phylogeographic and ecological niche model predictions. Takaya Iwasaki* ☺ (Chiba Univ.), Shota Sakaguchi (Kyoto Univ.), Ikutaro Tsuyama, Motoki Higa, Katsuhiko Nakao, Nobuyuki Tanaka (FFPRI)
- P68** Phytochemical comparison between *Hylotelephium sieboldii* var. *sieboldii* and var. *ettyuense* using flavonoid compounds. Tsukasa Iwashina* (Natl. Mus. Nat. Sci.), Masashi Nakata (Bot. Gard. Toyama), Ko Seto (Nara City)
- P69** The identification of *Cerasus* spp. in Japan using nucleus SSR markers. Toshio Katsuki*, Shuri Katoh, Asako Matsumoto, Kojiro Iwamoto, Takayuki Kawahara, Hiroshi Yoshimaru (FFPRI), Yoshiaki Tsuda (Uppsala Univ.), Yuzuru Mukai (Gifu Univ.)
- P70** Ecological and genetic characteristics of an endangered species, *Crataegus chlorosarca* and its conservation. Takayuki Kawahara* (FFPRI Hokkaido), Naoko Yamashita (FFPRI Kansai)
- P71** Population genetic structure of an endemic Japanese conifer, *Sciadopitys verticillata* (Sciadopityaceae). Daiju Kawase* ☺ (Nagoya Univ.), Nobuhiro Tomaru (Nagoya Univ.), Yoshihiko Tsumura (FFPRI), Akihiro Seo ☺, Takakazu Yumoto (Res. Inst. Hum. Nat.)
- P72** Comparisons of endangered plants between Japan and adjacent East Asian regions. Goro Kokubugata*, Masahiro Kato (Natl. Mus. Nat. Sci.)
- P73** Karyotype analysis in some species of *Allium* section *Allium* (Alliaceae) from Iran. Matin Miryeganeh* (Univ. of Tabriz), Ali Movafeghi (Univ. of Tabriz)
- P74** Introgressive hybridization between *Rubus grayanus* and *R. palmatus* var. *yakumontanus* (Rosaceae) in Yakushima Island. Misako Mishima*, Tetsukazu Yahara, Osamu Matsuda, Makiko Mimura (Kyushu Univ.)

- P75 Genetic variation of endangered taxa of *Lilium*, *Swertia*, *Shortia* and *Veronicastrum* in Amami Islands, Japan.**
Junko Miyamoto*, Yoshiyuki Maeda (Kagoshima Univ.), Kemrio Ozaki (Natl. Hist. Mus. Inst., Chiba), Mitsuru Moriguchi (Okinawa Univ.)
- P76 Bioindicators for the health of pine forest at “Niji-no-Matsubara” in Saga Prefecture, Japan considering the possibility of air pollution damage.** Hiromi Miyawaki* (Saga Univ.), Hideyuki Shimizu (Natl. Inst. Environ. Stud.)
- P77 *Chlamydomonas neoplanconvexa* nom. nov. and its unique phylogenetic position within Volvocales (Chlorophyceae).** Takashi Nakada* ☺, Masaru Tomita (Keio Univ.)
- P78 Molecular phylogenetics and floral diversification of the genus *Lonicera* (Caprifoliaceae) occurring in Japan.**
Masayoshi Nakaji*, Takashi Sugawara (Tokyo Metro. Univ.)
- P79 Dissecting the Japanese hotspot: Refining evaluation of biodiversity in forests at different scales in the Japanese landscape.** Nodoka Nakamura*, Martin R. Speight, William D. Hawthorne (Univ. of Oxford)
- P80 Pollen behaviour explains the different intensity of reproductive interference between *Taraxacum* relatives.**
Sachiko Nishida*, Masahiro M. Kanaoka (Nagoya Univ.), Koh-Ichi Takakura (Osaka City Inst. Pub. Health Environ. Sci.), Takayoshi Nishida (Univ. Shiga Pref.), Takashi Matsumoto (Natl. Inst. Livestock Grassland Sci.)
- P81 Genetic diversity of the endangered endemic species *Aster rugulosus* growing in two different habitats, acidic swamps and a serpentine area.** Takako Nishino*, Riko Okubo, Mihoko Nishiuchi, Asako Matsuo, Yuichiro Nakayama (Osaka Pref. Univ.), Shinji Fujii (Univ. of Human Environ.)
- P82 Revolution in evolutionary studies by next-generation sequencers.** Tomoaki Nishiyama* (Kanazawa Univ.)
- P83 Peculiar mycorrhizal symbiosis in a rare orchid, *Nervilia nipponica*.** Naofumi Nomura* ☺ (Natl. Mus. Nat. Sci.), Yuki Tsujita-Ogura (Japan Women's Univ.), Stephan Gale (KFBG), Ayako Maeda (Makino Bot. Gar.), Hidetaka Umata (Kagoshima Univ.), Kentaro Hosaka, Tomohisa Yukawa (Natl. Mus. Nat. Sci.)
- P84 Importance of the introduction of *Toxicodendron vernicifluum* into Japan during the Jomon period.**
Shuichi Noshiro* (FFPRI)
- P85 A taxonomic study of *Volvox* (sect. *Merrillosphaera*) *ovalis* sp. nov. (Chlorophyceae) from Texas.**
Hisayoshi Nozaki* (Univ. of Tokyo), Annette W. Coleman (Brown Univ.)
- P86 Molecular phylogeny and evolution of fruit morphology in *Tripterospermum* (Gentianaceae).** Tetsuo Ohi-Toma* (Univ. of Tokyo), Xiaofeng Jin (Zhejiang Normal Univ.), Koji Takayama (Univ. of Vienna), Kana Watanabe-Toma (Musashi Senior & Junior High Sch.), Chengxin Fu (Zhejiang Univ.), Sugong Wu (Kunming Inst. Bot., CAS), Jin Murata (Univ. of Tokyo)
- P87 Where are the hotspots? -Local scale plant diversity based on FLORA OF KANAGAWA-**
Wataru Ohnishi*, Norihisa Tanaka, Teruo Katsuyama (Kanagawa Pref. Mus. Nat. Hist.)
- P88 Thirty years trends in phenology of mushroom-forming fungi in a warm temperate forest in Japan.** Hirotoshi Sato* (FFRI, JSPS Researcher), Tsutomu Hattori (FFRI)
- P89 Genetic diversity and population structure of *Nuphar submersa* (Nymphaeaceae), an endangered aquatic plant endemic to Japan, and its conservation implications.** Takashi Shiga* (Osaka Mus. Nat. Hist.), Masashi Yokogawa, Shingo Kaneko, Yuji Isagi (Kyoto Univ.)
- P90 Evolution of apolar sporocytes in marchantialean liverworts: implications from molecular phylogeny.** Masaki Shimamura* (Hiroshima Univ.), Misao Itouga (RIKEN Plant Sci. Center), Hiromi Tsubota (Hiroshima Univ.)
- P91 Dioecy derived from distyly in *Morinda villosa* (Rubiaceae) occurring in Hukaung Valley, Kachin State, Myanmar.**
Takashi Sugawara* (Tokyo Metro. Univ.), Nobuyuki Tanaka (Kochi Pref. Makino Bot. Gard), Jin Murata (Univ. of Tokyo)
- P92 Is the sister group of the monocots really eudicots?** Minoru N. Tamura* (Kyoto Univ.), Jun Yamashita (Okayama Univ.), Shizuka Fuse (Mus. Nat. Human Act., Hyogo)
- P93 Phylogeny and genetic structure of *Zostera japonica* (Zosteraceae), a seagrass distributed over a wide water-temperature range.** Norio Tanaka* (Natl. Mus. Nat. Sci.), Yu Ito (Univ. of West Hungary), Yumiko Hirayama (Natl. Mus. Nat. Sci.), Kenji Saitoh (Fisheries Res. Agency), Masahiro Nakaoka (Hokkaido Univ.)
- P94 Floral structure of *Saccifolium*: evidence for placing the genus in the Gentianaceae.**
Hiroschi Tobe* (Kyoto Univ.), Mitsuyasu Hasebe (NIIB)
- P95 A molecular phylogenetic study on the Sematophyllaceae with special reference to Bornean endemic moss *Taxitheliella richardsii*.** Hiromi Tsubota* (Hiroshima Univ.), Haji Mohamed Abdul Majid (Universiti Brunei), Yong

Kien Thai (Univ. Malaya)

P96 Polyembryony observed in two moss species.

Mihoko Uzawa* (Ibaraki Nat. Mus.), Masanobu Higuchi (Natl. Mus. Nat. Sci.)

P97 Taxonomic study on the genus *Nephroselmis* (Nephroselmidophyceae, Chlorophyta) with proposal for subgenus *Fsteinia*, subgen. nov. Haruyo Yamaguchi*, Takeshi Nakayama, Isao Inouye (Univ. of Tsukuba)

P98 Origin of Hawaiian endemic species of *Canavalia* (Fabaceae) from pantropical species with sea-drifted seeds.

Mohammad Vatanparast* (Chiba Univ.), Koji Takayama (Univ. of Vienna), Mario S. Sousa (Univ. Nacional Autonomade Mexico), Yoichi Tateishi (Univ. of the Ryukyus), Tadashi Kajita (Chiba Univ.)

P99 Floral polymorphism of *Psychotria manillensis* in Ryukyu Island.

Kenta Watanabe* (Okinawa Natl. Coll. Tech.), Takashi Sugawara (Tokyo Metro. Univ.)

P100 Cretaceous flower hunting in Eastern Asia. Masamichi Takahashi* (Niigata Univ.), Patrick S. Herendeen (Chicago

Bot. Gard.), Niiden Ichinnorov (Mongolian Acad. Sci.), Xianghui Xiao (APS, Argonne), Peter R. Crane (Yale Univ.)

20 March (Sun)

10:00–12:00 Guided Tour of Tsukuba Botanical Garden for Foreigners

13:30–15:00 Poster Session (2)

(Core time: 13:30–14:15 for posters with even numbers; 14:45–15:00 for posters with odd numbers)

18:30–20:30 Symposium Party

日本植物分類学会第10回大会

3月19日(土)

ポスター発表(日本語での発表)

- P101** デジタル植物標本館の構築 森口淳樹, 山根渉(島根大), 萬代功, 前田修宏(株)T.R.Workers, 位多(島根大), Jeong Yu Neung (Dong-A Univ.), 井上雅仁(島根自然博サヒメル), 林蘇娟, 秋廣高志*(島根大)
- P102** 西日本に生育する低地性2倍体タンポポの遺伝的特性—予報— 梅田育実*, 竹内花織(愛教大), 和食敦子(高知大), 藤川和美(牧野植物園), 芹沢俊介, 渡邊幹男(愛教大)
- P103** 日本産ザゼンソウ属植物の発熱現象 大塚孝一*(長野環境保全研, 金沢大), 浜田崇(長野環境保全研), 植田邦彦(金沢大)
- P104** ヤブカラシ(ブドウ科)の種内遺伝的多様性と種内構造 石川直子, 塚谷裕一(東大), 岡田博*(京田辺市)
- P105** アソタイゲキの実態を探る~タカトウダイ群の阿蘇での変異~ 石崎将悟*・藤井紀行(熊本大・院・自然科学)
- P106** 日本産スゲ属ハリスゲ節の瘦果微細形態 織田二郎*, 永益英敏(京大)
- P107** エピセマ(イワタバコ科)の比較形態形成 —一葉植物体制の進化をさぐる— 加藤静*, 中嶋理絵, 今市涼子(日本女子大)
- P108** 標本とデータベースを利用した国・地方レッドデータブック調査支援システム 黒沢高秀*(福島大)
- P109** ノキンノブは4種に分かれる? 芹沢俊介*, 阿萬朱未(愛知教育大)
- P110** 西日本における在来二倍体タンポポの分布~タンポポ調査・西日本2010~ 鈴木武*(兵庫県博), 狩山俊悟(倉敷市博), 小川誠(徳島県博), 木村進, 高島耕一郎(大阪自然環境保全協会), 布谷知夫(琵琶湖博)
- P111** 複合種ニガナ(*Ixeridium dentatum*)の遺伝的多型解析 田中啓介*, 高原美規(長岡技術科学・院)
- P112** 本邦におけるツツジ科根内生息菌類の多様性とそのパターン 広瀬大*(日大)
- P113** 高知県におけるタンポポ属植物の分類と分布~タンポポ調査2010・西日本~ 藤川和美*(牧野植物園), 小幡友也, 堀田健志, 和食敦子(高知大), 坂本彰(高知県自然観察指導員連絡会)
- P114** 画像および生体計測情報に基づく植物種同定支援システムの構築 1) 植物調査情報の集積と共用化に向けた仕組みづくり 松田修*, 高野茂, 三島美佐子(九大)
- P115** ラン科植物における菌根菌共生関連受容体型キナーゼSYMRK 相同遺伝子の単離とその解析 丸川祐佳*(東大), 野村尚史, 遊川知久(科博), 伊藤元己(東大)
- P116** 西日本に生育する低地性2倍体タンポポの形態的特徴 和食敦子*(高知大), 藤川和美(牧野植物園),

渡邊幹男, 芹沢俊介 (愛教大), 鈴木武 (兵庫県立人と自然の博物館)

P117 金門島 (台湾) に生育するナガバノイシモチソウの形態および遺伝的特徴 渡邊幹男*, 竹内花織 (愛教大), 中村剛, 彭鏡毅 (台湾中央研), 芹沢俊介 (愛教大)

3 月 20 日 (日)

9:30–12:30 日本菌学会共同シンポジウム「植物と菌類：地下に展開する共生の世界」 (共催：日本菌学会)

9:30–10:00 根圏の生物学 山田明義 (信州大・農)

10:00–10:30 アーバスキュラー菌根共生から根粒共生への進化 齊藤勝晴 (信州大・農)

10:30–11:00 植物の根に潜む共生関係 (菌と植物、菌とバクテリア-エンドファイトを例に-) 成澤才彦 (茨大・農)

11:00–11:30 「菌」によって育まれる花～知られざるラン科植物の菌根共生～ 谷亀高広 (鳥取大・農・菌類きのこ
遺伝資源研究センター)

11:30–12:00 植物の系統と菌根共生～ラン科シュンラン属に見られた菌根共生のシフト現象 辻田有紀 (日本女子大)

12:00–12:30 外生菌根菌における隠蔽種と隠された植物との相性について～DNA 情報を活用して～
佐藤博俊 (日本学術振興会特別研究員PD (森林総研関西支所))

13:30–15:00 ポスター発表 (日本植物分類学会第10 回大会のみでの発表)

15:00–16:00 総会

16:00–18:00 受賞記念講演 (筑波大学大学会館)

学会賞 熱帯の植物研究と分類学のインフラ 永益英敏 (京大・博物館)

奨励賞 植食性昆虫の塩基配列情報を用いた照葉樹林の分布変遷の解明 青木京子 (京大・地球環境)

奨励賞 分類学の「知の集積」を活用した研究を目指して 海老原 淳 (科博・植物)

奨励賞 カワゴケソウ科の形態進化 厚井 聡 (奈良先端大・バイオ)

18:30–20:30 懇親会 (筑波大学第2 学群食堂)

3 月 21 日 (月・祝)

9:30–12:00 植物分類学会第10 回大会記念シンポジウム「日本の固有植物」

9:30–9:55 日本の固有植物、その全貌 海老原淳・加藤雅啓 (科博・植物)

9:55–10:20 海洋島である小笠原諸島における多数の固有植物種とその形成 常木静河 (首都大学東京・牧野標本館)

10:20–10:45 チャルメルソウ類を通して見る日本固有種の多様化 奥山雄大 (科博・植物)

10:45–11:10 日本列島におけるテンナンショウ属の多様性研究～ マムシグサ群の交雑現象に注目して～
柿嶋聡 (東京大学・院・理)

11:10–11:35 日本の第四紀層に含まれる日本固有種の植物化石 百原新 (千葉大・院・園芸)

13:00–15:10 公開シンポジウム「植物の30 億年の歩み」 (後援：国立科学博物館, つくば市教育委員会)

13:00–13:40 「藻類：一兆倍の生態系を生み出したもの」 井上勲 (筑波大学)

13:40–14:20 「Telomes come true? -枝からたねへの物語」 山田敏弘 (金沢大学)

14:30–15:10 「全ての植物図鑑は間違っていた。次は何が起こるのか」 長谷部光泰 (基礎生物学研究所)