

TUESDAY AFTERNOON, JULY 29

12:30 PM – 2:00 PM
SESSION 24

MCC, Grand Ballroom

CONTRIBUTED POSTERS: All Societies

ABLS/ BRYOLOGICAL AND LICHENOLOGICAL SECTION, BSA

- 24-1 WASHBURN, STEPHEN J.* and THERESA M. CULLEY. *University of Cincinnati, Cincinnati, OH*. Impact of ambient ozone levels on lichen flora in the greater Cincinnati area: Computer analysis of ambient ozone concentrations.
- 24-2 ATWOOD, JOHN J.* and CARL F. CHUEY. *Youngstown State University, Youngstown, OH*. Additional records and confirmations to the moss flora of Ohio.
- 24-3 RUSHING, ANN E. *Baylor University, Waco, TX*. Thallus growth and branching of the lichen *Ramalina stenospora*.

AFS / PTERIDOLOGICAL SECTION, BSA

- 24-4 GOLA, EDYTA* and JUDY JERNSTEDT. *University of California, Davis*. Detachment of *Huperzia* propagules: Letting go and leaving home.
- 24-5 HAUK, WARREN D.*; LARKIN F. KENNEDY; and HEATHER M. HAWKE. *Denison University, Granville, OH*. Phylogenetic relationships among species of *Botrychium* s.s. (Ophioglossaceae) based on three plastid DNA sequence data sets.
- 24-6 TOWILL, LESLIE*. *Arizona State University, Tempe*. Effect of fungi on rhizoid and root growth of the fern *Ceratopteris richardii*.
- 24-7 WOLF, PAUL G.*¹; CAROL A. ROWE¹; ROBERT B. SINCLAIR²; and MITSUYASU HASEBE³. ¹*Utah State University, Logan*; ²*The Jackson Laboratory, Bar Harbor, ME*; and ³*National Institute for Basic Biology, Okazaki, Japan*. Complete nucleotide sequence of the chloroplast genome from a leptosporangiate fern, *Adiantum capillus-veneris* L.

DEVELOPMENTAL AND STRUCTURAL SECTION, BSA

- 24-8 GHOSH, NABARUN¹*; RENE CAMACHO¹; ELIZABETH SCHNIEDERJEN¹; DON SMITH²; C. SAADEH³; and MICHAEL GAYLOR³. ¹*West Texas A&M University, Canyon*; ²*University of North Texas*; and ³*Allergy A.R.T.S., Amarillo, TX*. The aeroallergen index and meteorological condition in the Texas panhandle.
- 24-9 SHERMAN, TIMOTHY D.¹*; T. WAYNE BARGER²; JOHN C. HOFFMAN³; and KEVIN C. VAUGHN³. ¹*University of South Alabama, Mobile*; ²*University of West Georgia, Carrollton*; and ³*USDA-ARS, Stoneville, MS*. The unusual role of the Dodder (*Cuscuta pentagona*) seedling root.

- 24-10** PARSLEY, LARISSA C.^{1*} and ANN E. RUSHING². ¹*William Carey College, Hattiesburg, MS* and ²*Baylor University, Waco, TX*. The sequence of development of leaf propagules in *Bryophyllum daigremontianum*.
- 24-11** SCHMIDT, RACHEL E.* and GREGORY K. BROWN. *University of Wyoming, Laramie*. Systematic Leaf Anatomy in Bromeliaceae subfamily Bromelioideae.
- 24-12** DARNOWSKI, DOUGLAS W.*; SARAH LIND; MEGAN MCMAHON; and SHAUNA BOLDEN. *Washington College, Chestertown, MD*. Vegetative Propagation in Australian Tuberous and Pygmy Sundews (*Drosera*; Droseraceae).
- 24-13** DOTY, KAREN F.*; AMY M. BETZELBERGER; and MARTHA E. COOK. *Illinois State University, Normal*. Microtubule dynamics in the charophycean alga *Chaetosphaeridium* (Charophyceae).
- 24-14** RUEHLE, JON. *University of Central Arkansas, Conway*. The *Petunia* inflorescence pattern results from iterating cycles of axillary meristem initiation and identity.
- 24-15** KIRCHOFF, BRUCE K.^{1*} and ROSS CANGELOSI². *University of North Carolina, Greensboro* and ²*Raleigh, NC*. Visual data presentation techniques for the study of flower development.
- 24-16** TRUMAN, PATRICIA A. and W. JOHN HAYDEN*. *University of Richmond, Richmond, VA*. *Acalypha deamii*: Distribution East of the Appalachians and comparative studies of reproductive anatomy.
- 24-17** SEVENER, HEATHER C.^{1*}; ELIZABETH A. KELLOGG²; and BARBARA A. SCHAAL¹. ¹*Washington University, St. Louis, MO* and ²*University of Missouri, St. Louis*. Molecular evolution of *APETALA1* homologs in Poaceae.
- 24-18** TIAN, HUI QIAO¹; SCOTT D. RUSSELL^{2*}; and TONG YUAN². ¹*Xiamen University, Fujian, China* and ²*University of Oklahoma, Norman*. Cell cycle synchronization in the male and female gametes of *Nicotiana tabacum*.

ECOLOGICAL SECTION, BSA

- 24-19** MARTINE, CHRISTOPHER T.*¹; DAVID LUBERTAZZI¹; and ANDREW DUBRUL². ¹*University of Connecticut, Storrs* and ²*Florence Memorial High School, NJ*. A long-term study on the reproductive biology of the endangered dioecious shrub *Corema conradii* (Empetraceae): Preliminary notes on post-fire seedling recruitment.
- 24-20** KALLER, MATTHEW* and MARK HESTER. *University of New Orleans, LA*. Effects of herbivory, nutrient addition, and disturbance in a reciprocal transplant study between an oligohaline and mesohaline marsh in southeastern Louisiana.
- 24-21** SMITH, BRENT* and PAT CALIE. *Eastern Kentucky University, Richmond*. High resolution GIS mapping of *Solidago shortii* (Asteraceae), a Kentucky endemic species.
- 24-22** CLAERBOUT, A. E.*¹ and J.M COONS². *University of Illinois, Urbana* and ²*Eastern Illinois University, Charleston*. Comparison of *Physaria ludoviciana* (Silvery Bladderpod) Populations across their range.

- 24-23** COLEMAN, CHRISTINA* and ROBERT S. BOYD. *Auburn University, AL*. Herbivore defense as an explanation for hyperaccumulation: Relative heavy metal toxicity to diamond back moth (*Plutella xylostella*).
- 24-24** BOSWELL, GANTT. *Tulane University, New Orleans, LA*. Changes in leaf morphology and biomass allocation reflect soil nitrogen availability in a carnivorous plant.
- 24-25** LEY, COURTNEY¹; MICHELLE ZJHRA²; and ROBERT RAGUSO*³. ¹*Keene State College, NH*; ²*Georgia State University, Statesboro*; and ³*University of South Carolina, Columbia*. How do red, yeasty Pawpaw flowers attract their pollinators?
- 24-26** GOODRICH, K. R.*¹; M. L. ZJHRA²; and R. A. RAGUSO. ¹*University of South Carolina, Columbia* and ²*Keene State College, NH*. Sex- and time-specific scent production in Pawpaw (*Asimina triloba*: Annonaceae) flowers.
- 24-27** CARTER, GREGORY A.*¹; ALAN K. KNAPP²; MELINDA D. SMITH³; GREG HOCH²; and JIM E. ANDERSON⁴. ¹*University of Southern Mississippi, Ocean Springs*; ²*Kansas State University, Manhattan*; ³*National Center for Ecological Analysis and Synthesis, Santa Barbara, CA*; and ⁴*NASA, Stennis Space Center, MS*. Indicators of phytodiversity in hyperspectral imagery of the Konza Prairie, Kansas.
- 24-28** YAGER, LISA Y.*¹ and STEVE LEONARD². ¹*Camp Shelby, MS* and ²*Wiggins, MS*. Results of Louisiana Quillwort (*Isoetes louisianensis*) monitoring on Camp Shelby training site, MS.
- 24-29** JHEE, EDWARD M.*; ROBERT S. BOYD; and MICKY D. EUBANKS. *Auburn University, AL*. Nickel hyperaccumulation defends *Streptanthus polygaloides* (Brassicaceae) against an oligophagous herbivore.
- 24-30** SMITH-HUERTA, NANCY L. *Miami University, Oxford, OH*. Nectar production in *Clarkia unguiculata* (Onagraceae) as affected by nutrient supply.
- 24-31** ZHANG, SULI*¹ ; HUIBIN TU¹; and JIANHUA LI². ¹*Bureau of Environmental Protection, Xinxiang, Henan, China* and ²*Arnold Arboretum of Harvard University, Jamaica Plain, MA*. Characteristics of floristics and vegetation of Yellow River Old Course Avian Nature Reserve in northern Henan, China.
- 24-32** STANFORD, ALICE M.* and TIMOTHY DELSOL. *University of the Virgin Islands, St. Thomas, VI*. Genetic diversity of *Bastardiopsis eppersii* (Malvaceae), a rare Virgin Islands endemic.
- 24-33** JOHNSON, SANDRA L. *Middle Tennessee State University, Murfreesboro*. Trends in the abundance of cedar glade plants following prescribed burn.
- 24-33a** BOYD, ROBERT. *Auburn University, AL*. Factors affecting seed production by the endangered chaparral shrub *Fremontodendron californicum* ssp. *decumbens* (Sterculiaceae).
- 24-34** KIL, BONG-SEOP*¹; HYUN-GYEONG YOO¹; and JI-HYUN KIL². ¹*Wonkwang University, Iksan, Chonbuk, S Korea* and ²*National Institute of Environmental Research, Incheon, S Korea*. Allelopathic effects of *Artemisia lavandulaefolia*.
- 24-35** FRAZIER, CHRISTOPHER K. and TIMOTHY K. LOWREY*. *University of New Mexico, Albuquerque*. Combined natural history collections web-accessible database for New Mexico.

- 24-36** MOFFETT, JR.*; J. MINCY; ROBERT S. BOYD; and MICHAEL C. WOOTEN. *Auburn University, AL*. Effects of post-hurricane sand-fencing and fertilizing restoration techniques on vegetation recovery along the Ft. Morgan Peninsula, Alabama.
- 24-37** STRIBLING, JUDITH*¹; JEFFREY CORNWELL²; AND OLIVIA GLAHN¹. ¹*Salisbury University, MD* and ²*University of Maryland Center for Environmental Science, Cambridge*. Microscale spatial variability in brackish marsh vegetation and associated patchiness of sediment biogeochemistry.
- 24-38** WELLS, TAMI*¹; GREGORY CARTER²; CYNTHIA MONCREIFF¹; and JOHN CALDWELL¹. ¹*The University of Southern Mississippi, Ocean Springs* and ²*Gulf Coast Geospatial Center, GCRL, Ocean Springs, MS*. Assessing aboveground primary productivity in Mississippi gulf coast tidal marshes by remote sensing.
- 24-39** MIDDLETON, BETH* and KAREN MCKEE. *National Wetlands Research Center, Lafayette, LA*. Latitudinal variation in primary production and carbon stores in baldcypress swamps of the Mississippi River Alluvial Plain: A surrogate for global climate change prediction.
- 24-40** SUSTACHE, JOSE¹; CARLA CORTES*¹; SOFIA OLIVERO³; ELVIA MELENDEZ²; SUSAN ARAGON²; MARIELY MORALES²; DENNY FERNANDEZ³; and MIGUEL GARCIA³. ¹*Department of Natural Resources and the Environment, San Juan, Puerto Rico*; ²*University of Puerto Rico, San Juan*; and ³*University of Puerto Rico, Humacao*. Characterization of the plant diet of introduced pigs and goats in Mona Island Reserve, Puerto Rico.

ECONOMIC BOTANY SECTION, BSA

- 24-41** MORNINGSTAR, DAWN*¹; PENELOPE A. PERKINS-VEAZIE²; and STANLEY A. RICE¹. ¹*Southeastern Oklahoma State University, Durant* and ²*USDA South Central Agricultural Research Laboratory, Lane OK*. Lycopene extraction from freeze-dried tomatoes.
- 24-42** CHIKARMANE, SONA; TANIA REHSE*; and KATHLEEN PRYER. *Duke University, Durham, NC*. Tracing the cultural and botanical origins of turmeric (*Curcuma longa* L.).

GENETICS SECTION, BSA

- 24-43** CALIE, PATRICK* and CHRISTINA SHACKLEFORD. *Eastern Kentucky University*. Variability of seed germination within and between populations of the Kentucky endemic, Short's goldenrod (*Solidago shortii* - Asteraceae).
- 24-44** DANE, FENNY* and PING LANG. *Auburn University, AL*. Phylogenetic relationships of *Citrullus* (Cucurbitaceae) using DNA sequences from several coding and noncoding chloroplast DNA regions: implications for evolution of watermelon.
- 24-45** DEPAMPHILIS, C.; H. MA; D. SOLTIS; P. SOLTIS; J. CARLSON; S. TANKSLEY; J. LEEBENS-MACK; W. FARMERIE; M. FROHLICH; D. FIELD; L. ZAHN; S. KIM; M. BUZGO; H. KONG*; and J. ARRINGTON. *Penn State University; University of Florida; Cornell University, NY; and British Museum of Natural History, UK*. The Floral Genome Project: Comparative analysis of sequence and expression of florally expressed genes.

- 24-46 DUAN, FAPING; SHUGUO FAN*; YUANQING LI; and CHENGYE LIANG. *Cornell University, NY and Chinese Academy of Sciences, China*. Effects of liberty and bar-transgenic rice residue on microorganisms and activity of soil enzyme.
- 24-47 DUAN, FAPING; SHUGUO FAN*; YUANQING LI; and CHENGYE LIANG. *Cornell University, NY and Chinese Academy of Sciences, China*. Poisonous mechanism of gulfosinate and resistant mechanism of bar-transgenic rice.
- 24-48 DUAN, FAPING; SHUGUO FAN*; YUANQING LI; and CHENGYE LIANG. *Cornell University, NY and South China Institute of Botany, the Chinese Academy of Sciences, China*. Studies on resistant inheritance of bar-transgenic rice and expression of bar gene
- 24-49 ELLER, MICHELE* and HALINA KNAP. *Clemson University, SC*. Genomics of polyamine biosynthesis genes in soybean.
- 24-50 LIU, XIANAN; GINGER SWIRE-CLARK; and WM. VANCE BAIRD*. *University of Illinois and Clemson University, SC*. Differential expression of genes regulated in response to abiotic-stress in sunflower.
- 24-51 LIU, XIANAN and WM. VANCE BAIRD*. *University of Illinois and Clemson University, SC*. Identification of a novel gene, HaABRC5, up-regulated in response to drought, salinity and exogenous abscisic acid from *Helianthus annuus* (Asteraceae).
- 24-52 MEEROW, ALAN*; MICHAEL GIDEON; and JASON CLAYTON. *USDA-ARS-SHRS, National Germplasm Repository, FL*. Microsatellite DNA variation in *Iris hexagona* Walter.
- 24-53 MYLECRAINE, KRISTIN*; JOHN KUSER; GEORGE ZIMMERMANN; PETER SMOUSE; and LENA STRUWE. *Rutgers University, NJ*. Varietal status of *Chamaecyparis thyoides* var. *henryae* supported by allozyme and morphological data.
- 24-54 TERCEK, MICHAEL*; DONALD HAUBER; and STEVEN DARWIN. *Tulane University, LA*. Ecology and evolution of geothermally adapted *Agrostis* of North American and the Kamchatka Peninsula.

PALEOBOTANICAL SECTION, BSA

- 24-55 JOHNSON, TIMOTHY and WILSON A. TAYLOR. *University of Wisconsin, Eau Claire*. Ultrastructure of the patinate miospore *Cymbosporites echinatus* from the Lower Devonian of Herefordshire, England.
- 24-56 MICKLE, JAMES E. *North Carolina State University, Raleigh*. Conifer cones from the Late Cretaceous Tar Heel Formation of the Atlantic Coastal Plain of North Carolina, USA.

PHYSIOLOGICAL SECTION, BSA

- 24-57 CONSTABLE, J. V. H.¹*; B. PEFFER²; and D. DENICOLA². ¹*California State University, Fresno and* ²*Slippery Rock University, Slippery Rock, PA*. Light limitation and seasonal carbon phenology of Mayapple (*Podophyllum peltatum*).

- 24-58 TARPLEY, LEE* and TESHAMICHAEL H. KEBROM. *Texas A&M Agricultural Research and Extension Center, Beaumont*. Rice ratoon tiller initiation and early establishment: Responses to exogenous hormone applications.

PHYTOCHEMICAL SECTION, BSA

- 24-59 KURCHII, BOGDAN A. *Institute of Plant Physiology and Genetics, Kiev, Ukraine*. Serine, Threonine, Tyrosine and Histidine having opened functional reactive groups are sophisticated receptors.

ASPT / SYSTEMATICS SECTION, BSA

- 24-60 WARD, N. MISA* and PETRA UNGER. *EDAW Inc., Sacramento, CA*. Rare Plants of the Ione Formation in California.
- 24-61 FORD-WERNTZ, DONNA*¹ and PAUL HARMON². ¹*West Virginia University, Morgantown and* ²*West Virginia Division of Natural Resources, Elkins*. The West Virginia Vascular Flora Atlas.
- 24-62 ZARUCCHI, JAMES L. *Missouri Botanical Garden, St. Louis*. Challenges to Producing a Continental Flora.
- 24-63 CONTI, ELENA*; KARINA ARROYO; and FRANK RUTSCHMANN. *University of Zurich, Switzerland*. Phylogenetic relationships and molecular dating of the rare *Saxifraga florulenta* Moretti: Implications for biogeography and the evolution of monocarpy.
- 24-64 RUTSCHMANN, FRANK*¹; TORSTEN ERIKSSON²; and ELENA CONTI¹. ¹*University of Zurich, Switzerland and* ²*Royal Swedish Academy of Sciences, Stockholm, Sweden*. Testing the out-of-India dispersal of Crypteroniaceae by molecular dating.
- 24-65 ZHANG, WENHENG* and (JENNY) QIU-YUN XIANG. *North Carolina State University, Raleigh*. Eastern Asian-Eastern North American floristic disjunction-rates of molecular evolution after isolation.
- 24-65a GOTTSCHLING, MARC¹; JÖRG PLÖTNER²; HELMUT WILLEMS³; and HELMUT KEUPP¹. ¹*Freie Universität Berlin, Germany;* ²*Humboldt Universität, Berlin, Germany;* and ³*Universität Bremen, Germany*. Molecular phylogeny of Calciodinelloideae (Peridinales, Dinoflagellata) inferred from ITS1, 5.8S, and ITS2 sequence data.
- 24-66 WON, HYOSIG* and SUSANNE S. RENNER. *University of Missouri-St. Louis*. Horizontal gene transfer from flowering plants to *Gnetum*.
- 24-67 ARSENAULT, M.¹; J. PRESBY-GERMANO²; A. KLEIN²; W. WRIGHT¹; and C. CAMPBELL*¹. ¹*University of Maine, Orono and* ²*University of New Hampshire, Durham*. Incongruence between three genomes in phylogenetic relationships within *Picea* (Pinaceae).
- 24-68 MILLAM, KENDRA C.*¹; THOMAS J. GIVNISH¹; and THOMAS S. PATRICK². ¹*University of Wisconsin, Madison and* ²*Georgia Natural Heritage Program, Social Circle, GA*. Geographic patterns within the North American *Trillium erectum* complex: evidence from DNA sequence and morphometric analyses.
- 24-69 FARMER, S. B. *University of Tennessee, Knoxville*. Phylogenetic relationships of Trilliaceae.

- 24-70 JARRELL, DAVID and HAMED HOSSEIN*. *Mary Washington College, Fredericksburg, VA.* Molecular systematics of *Phalaenopsis* (Orchidaceae): A preliminary study.
- 24-71 JUSWARA, L. S. *Ohio State University, Columbus.* Towards a revision of *Goodyera* section *Otosepalum*.
- 24-72 HEANEY, J MICHAEL. *University of Florida, Gainesville.* Anatomy of *Polystachya* (Epidendreae-Orchidaceae).
- 24-73 WILLIAMS, NORRIS H. and MARK. W. WHITTEN. *Florida Museum of Natural History, Gainesville.* Molecular phylogenetics and generic concepts in the Maxillarieae (Orchidaceae).
- 24-74 GELLI DE FARIA, ANA PAULA¹; TÂNIA WENDT*¹; and GREGORY BROWN². ¹*Universidade Federal do Rio de Janeiro, Brazil* and ²*University of Wyoming, Laramie.* Morphological data and phylogenetic analysis of *Aechmea* (Bromeliaceae subfamily Bromelioideae) - a first approximation.
- 24-75 GAO, LIZHI. *University of Michigan, Ann Arbor.* Population genetic structure and conservation genetics of wild rice *Oryza rufipogon* (Poaceae) as detected by polymorphic microsatellite loci.
- 24-76 GAO, LIZHI. *University of Michigan, Ann Arbor.* Comparisons of microsatellite variability and population genetic structure of two endangered wild rice species, *Oryza rufipogon* and *O. officinalis*, and their conservation implications.
- 24-77 ~~WU, CHENG-CHIANG*¹; ELENA M. KRAMER²; HEATHER WATCHEL²; JER-MING HU¹. ¹*National Taiwan University, Taipei, China* and ²*Harvard University, Cambridge, MA.* Lower core Eudicot phylogeny based on combined analysis of *PISTILLATA*, *APETALA3*, 18S rDNA, *LEAFY*, *rbcL*, and *atpB* sequences.~~ CANCELLED
- 24-78 ARAKAKI, MONICA*¹; JOSE L. PANERO²; and BONNIE CROZIER². ¹*University of Florida, Gainesville* and ²*University of Texas, Austin.* Systematics of the genus *Weberbauerocereus* Backeb. (Cactaceae).
- 24-79 EDWARDS, ERIKA J.*¹; MIRIAM DIAZ²; and MICHAEL J. DONOGHUE¹. ¹*Yale University, New Haven, CT* and ²*Universidad Experimental Francisco de Miranda, Coro, Venezuela.* What can *Pereskia* really tell us about early cactus evolution?
- 24-80 KIM, SANG-TAE*¹; SONIA E. SULTAN²; and MICHAEL J. DONOGHUE¹. ¹*Yale University, New Haven, CT* and ²*Wesleyan University, Middletown, CT.* Phylogeny and evolution of *Polygonum* sect. *Persicaria* (Polygonaceae) in eastern North America.
- 24-81 KROSNICK, SHAWN E.* and JOHN V. FREUDENSTEIN. *The Ohio State University, Columbus.* Morphological and molecular patterns in the Old World species of *Passiflora* (subgenus *Decaloba* supersection *Disemma*).
- 24-82 ZHANG, LI-BING* and SUSANNE S. RENNER. *University of Missouri-St. Louis.* Phylogeny of Cucurbitales inferred from seven chloroplast and mitochondrial loci.
- 24-83 LANG, PING* and FENNY DANE. *Auburn University, AL.* Phylogeny of *Castanea* (Fagaceae) based on chloroplast noncoding sequence data.

- 24-84** SLOTTA, T. A. B.* and D. M. PORTER. *Virginia Tech, Blacksburg*. Phylogeography of rare California bush mallows (*Malacothamnus*: Malvaceae).
- 24-85** DREHER, STEPHEN E. *Rancho Santa Ana Botanic Garden, Claremont, CA*. Systematics, ecology and hybridization patterns of the genus *Sphaeralcea* (Malvaceae).
- 24-86** GUGGISBERG, ALESSIA*¹; AUSTIN MAST¹; SYLVIA KELSO²; and ELENA CONTI¹. ¹*University of Zurich, Switzerland* and ²*Colorado College, Colorado Springs*. Polyploidy, biogeography and evolution of breeding systems in *Primula* sect. *Aleuritia* with special emphasis on an allotetraploid complex: an integrated phylogenetic, population genetic, and molecular cytogenetic approach.
- 24-87** OGUNWENMO, K. OLUSOLA. *Babcock University, Lagos, Nigeria*. Fruit and seed morphology, germination and seedling behaviour of some taxa of *Ipomoea* L. (Convolvulaceae).
- 24-88** OGUNWENMO, K. OLUSOLA* and A. IBIRIYIKE OBISANYA. *Babcock University, Lagos, Nigeria*. Comparative phytochemical analysis of *Ipomoea triloba* L. complex (Convolvulaceae) in Nigeria.
- 24-89** BENNETT, JONATHAN*¹ and ROBERT SCOTLAND². ¹*University of Missouri, Columbia* and ²*Oxford University, UK*. Pollen Morphology of the Strobilantheae.
- 24-90** MORAWETZ, JEFFERY J.* and ANDREA D. WOLFE. *Ohio State University, Columbus*. Preliminary phylogenetic analysis of the parasitic plant genus *Alectra* (Orobanchaceae).
- 24-91** CHUNG, KUO-FANG*¹ and BARBARA A.SCHAAL². ¹*Missouri Botanical Garden, St. Louis* and ²*Washington University, St. Louis, MO*. Phylogenetic biogeography of *Oreomyrrhis*: a trans-Pacific distributed Apiaceae.
- 24-92** YI, TINGSHUANG* and JUN WEN. *Field Museum of Natural History, Chicago, IL*. Chromosomal evolution in Araliaceae.
- 24-93** LIU, H.*³; J. TRUSTY³; R. OVIEDO¹; A. ANDERBERG²; and J. FRANCISCO-ORTEGA³. ¹*Ministerio de Ciencia, La Habana, Cuba*; ²*Swedish Museum of Natural History, Stockholm, Sweden*; and ³*Florida International University, Miami*. Molecular systematics of the Caribbean sunflower genera *Rhodogeron* Griseb. and *Sachsia* Griseb.
- 24-94** KARAMAN, VESNA* and LOWELL E. URBATSCH. *Louisiana State University, Baton Rouge*. Preliminary results on the phylogeny of the *Hinterhubera* and *Novenia* groups (Hinterhuberinae: Asteraceae) based on ETS and ITS sequence data.

TEACHING SECTION, BSA

- 24-95** KARPOFF, ARNOLD J. and ANDREW C KEMP. *University of Louisville, Louisville, KY*. A collaboration in teacher education: Experimental botany for teachers.

TROPICAL BIOLOGY SECTION, BSA

- 24-96** TRUSTY, JENNIFER L.¹; HERBERT C. KESLER²; and JAVIER FRANCISCO-ORTEGA¹. ¹*Florida International University, University Park* and ²*Fairchild Tropical Garden, Coral Gables, FL*. A floristic inventory of Isla del Coco, Costa Rica.