Organization of the root apical meristem in angiosperms

CHARLES HEIMSCH and JAMES L. SEAGO, JR.

Special Invited Paper

Anatomy and Morphology

Patterns and development of floral asymmetry in Senna (Leguminosae, Cassiinae)

BRIGITTE MARAZZI and PETER K. ENDRESS

Effects of cell number and cell size on petiole length variation in a stoloniferous herb

JELMER WEUSCHENDE, KOEN ANTONISE, HANNE DE CALUWE, HANS DE KROON, and HEIDRUN HUBER

Ecology

Origins, distribution, and local co-occurrence of polyploid cytotypes in Solidago altissima (Asteraceae)

KRISTY HALVERSON, STEPHEN B. HEARD, JOHN D. NASON, and JOHN O. STIREMAN, III

Population differentiation for plasticity to light in an annual herb: Adaptation and cost

DANIELA L. BELL and LAURA F. GALLOWAY

Genetics

Ecological genetics and seed transfer guidelines for Pinus albicaulis (Pinaceae)

ANDREW D. BOWER and SALLY N. AITKEN

Paleobotany

Phytolaccaceae infructescence from Cerro del Pueblo Formation, Upper Cretaceous (late Campanian), Coahuila, Mexico

SERGIO R. S. CEVALLOS-FERRIZ, EMILIO ESTRADA-ROJAS, and BALAM RODRIGO PÉREZ-HERNÁNDEZ

Reproductive Biology

Resistance and tolerance to herbivory changes with inbreeding and ontogeny in a wild gourd (Cucurbitaceae)

DAOLIN DU, JAMES A. WINSOR, MATTHEW SMITH, ANDREW DENICCO, and ANDREW G. STEPHENSON

Systematics and Phytogeography

High mycorrhizal specificity in a widespread mycoheterotrophic plant, Eulophia zollingeri (Orchidaceae)

YUKI OGURA-TSUJITA and TOMOHISA YUKAWA

Genetic variation and phylogeography of Stauracanthus (Fabaceae, Genistae) from the Iberian Peninsula and northern Morocco assessed by chloroplast microsatellite (cpSSR) markers

CRISTINA PARDO, PALOMA CUBAS, and HIKMAT TAHIRI
Abbreviations

Miscellaneous: AFLP, amplified fragment length polymorphisms; a.s.l., above sea level; bp, base pair; BP, before present; BSA, bovine serum albumin; cpDNA, chloroplast DNA; CTAB, hexadecyltrimethylammonium bromide; cv., cultivar; ddH2O, double-distilled water; dNTP, deoxyribonucleotides; E.C., Enzyme Commission; EDTA, ethylene diamine tetra-acetic acid; f. sp., forma specialis; indels, insertions and deletions; ITS, internal transcribed spacer; LM, light microscopy; mya, million years ago; PAGE, polyacrylimide gel electrophoresis; PCR, polymerase chain reaction; RAPD, random amplified polymorphic dimorphism; SDS, sodium dodecyl sulfate; SEM, scanning electron microscopy; s.l., sensu lato; s.s., sensu stricto; subsp., subspecies; TEM, transmission electron microscopy

Genetics: A, mean number of alleles per locus; D, mean genetic distance; CI, consistency index; F, fixation index; F_{IT}, total inbreeding; F_{ST}, genetic diversity among populations; F_{IS}, inbreeding within populations; G_{ST}, total genetic diversity within populations; H_{E}, Hardy–Weinberg expected heterozygosity; H_{O}, observed heterozygosity; MP, most parsimonious tree; n, individual chromosome number; N_{m}, mean number of migrants; RI, retention index; x, base chromosome number

Statistics and math: ANOVA, analysis of variance; CV, coefficient of variation; df, degrees of freedom; N, number of individuals; p, probability; P, level of significance; P_{P}, percentage of polymorphic loci; PCA, principal components analysis; r, coefficient of correlation; SE, standard error; SD, standard deviation