

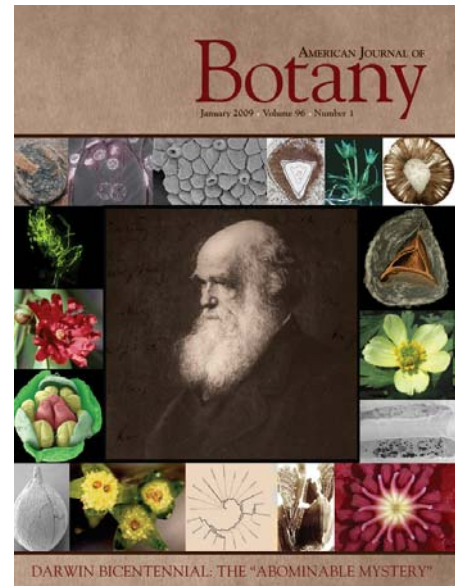
Botany 940 - Systematics Seminar

Darwin Bicentennial: "The Abominable Mystery"

Fall 2009

Tuesdays 12:05-12:55, Birge 348

Instructors: David Baum, Ken Cameron,
Eve Emshwiller, Bret Larget, Ken Sytsma



WEEKLY READINGS

Sept 8

Stockey, Ruth A., Sean W. Graham, & Peter R. Crane

Introduction to the Darwin special issue: the abominable mystery Am J. Bot. 2009
96: 3-4.

William E. Friedman

The meaning of Darwin's 'abominable mystery' Am. J. Bot. 2009 96: 5-21.

Sept 15

Peter K. Endress and James A. Doyle

Reconstructing the ancestral angiosperm flower and its initial specializations Am. J.
Bot. 2009 96: 22-66.

Sept 22

Paula J. Rudall, Margarita V. Remizowa, Gerhard Prenner, Christina J. Prychid, Renee E.
Tuckett, and Dmitry D. Sokoloff

**Nonflowers near the base of extant angiosperms? Spatiotemporal arrangement of
organs in reproductive units of Hydatellaceae and its bearing on the origin of the
flower** Am. J. Bot. 2009 96: 67-82.

Lena C. Hileman and Vivian F. Irish

**More is better: the uses of developmental genetic data to reconstruct perianth
evolution** Am. J. Bot. 2009 96: 83-95.

Sept 29

David A. Rasmussen, Elena M. Kramer, and Elizabeth A. Zimmer

One size fits all? Molecular evidence for a commonly inherited petal identity program in Ranunculales *Am. J. Bot.* 2009 96: 96-109.

Pamela S. Soltis, Samuel F. Brockington, Mi-Jeong Yoo, Ana Piedrahita, Maribeth Latvis, Michael J. Moore, Andre S. Chanderbali, and Douglas E. Soltis

Floral variation and floral genetics in basal angiosperms *Am. J. Bot.* 2009 96: 110-128.

Oct 6

William E. Friedman and Kirsten C. Ryerson

Reconstructing the ancestral female gametophyte of angiosperms: Insights from *Amborella* and other ancient lineages of flowering plants *Am. J. Bot.* 2009 96: 129-143.

Joseph H. Williams

***Amborella trichopoda* (Amborellaceae) and the evolutionary developmental origins of the angiosperm progamic phase** *Am. J. Bot.* 2009 96: 144-165.

Oct 13

Leonard B. Thien, Peter Bernhardt, Margaret S. Devall, Zhi-duan Chen, Yi-bo Luo, Jian-Hua Fan, Liang-Chen Yuan, and Joseph H. Williams

Pollination biology of basal angiosperms (ANITA grade) *Am. J. Bot.* 2009 96: 166-182.

Oct 20

Tammy L. Sage, Katerina Hristova-Sarkovski, Veronica Koehl, Joelle Lyew, Vincenza Pontieri, Peter Bernhardt, Peter Weston, Shaheen Bagha, and Greta Chiu

Transmitting tissue architecture in basal-relictual angiosperms: Implications for transmitting tissue origins *Am. J. Bot.* 2009 96: 183-206.

Sherwin Carlquist, Edward L. Schneider, and C. Barre Hellquist

Xylem of early angiosperms: *Nuphar* (Nymphaeaceae) has novel tracheid microstructure¹ *Am. J. Bot.* 2009 96: 207-215.

Oct 27

Sean W. Graham and William J. D. Iles

Different gymnosperm outgroups have (mostly) congruent signal regarding the root of flowering plant phylogeny *Am. J. Bot.* 2009 96: 216-227.

Nov 3

Sarah Mathews

Phylogenetic relationships among seed plants: Persistent questions and the limits of molecular data *Am. J. Bot.* 2009 96: 228-236.

Nov 10

Edith L. Taylor and Thomas N. Taylor

Seed ferns from the late Paleozoic and Mesozoic: Any angiosperm ancestors lurking there? Am. J. Bot. 2009 96: 237-251.

Nov 17

Else Marie Friis, Kaj Raunsgaard Pedersen, and Peter R. Crane

Early Cretaceous mesofossils from Portugal and eastern North America related to the Bennettitales-Erdtmanithecates-Gnetales group Am. J. Bot. 2009 96: 252-283.

Peter R. Crane and Patrick S. Herendeen

Bennettitales from the Grisetorpe Bed (Middle Jurassic) at Cayton Bay, Yorkshire, UK Am. J. Bot. 2009 96: 284-295.

Nov 24

Gar W. Rothwell, William L. Crepet, and Ruth A. Stockey

Is the anthophyte hypothesis alive and well? New evidence from the reproductive structures of Bennettitales Am. J. Bot. 2009 96: 296-322.

Ruth A. Stockey and Gar W. Rothwell

Distinguishing angiosperms from the earliest angiosperms: A Lower Cretaceous (Valanginian-Hauterivian) fruit-like reproductive structure Am. J. Bot. 2009 96: 323-335.

Dec 1

Douglas E. Soltis, Victor A. Albert, Jim Leebens-Mack, Charles D. Bell, Andrew H. Paterson, Chunfang Zheng, David Sankoff, Claude W. dePamphilis, P. Kerr Wall, Pamela S. Soltis
Polyploidy and angiosperm diversification Am. J. Bot. 2009 96: 336-348.

Dec 8

Susana Magallón and Amanda Castillo

Angiosperm diversification through time Am. J. Bot. 2009 96: 349-365.

Dec 15

William L. Crepet and Karl J. Niklas

Darwin's second 'abominable mystery': Why are there so many angiosperm species? Am. J. Bot. 2009 96: 366-381.