

CURRICULUM VITAE

Jonathan Davies

NCEAS
University of California, Santa Barbara
735 State Street, Suite 300
Santa Barbara, CA 93101-3351, USA

Tel. (805) 892 2523
E-mail. davies@nceas.ucsb.edu

PROFESSIONAL PREPARATION

Postdoctoral Fellow	NCEAS, University of California, Santa Barbara, 2007-present.
Postdoctoral Associate	University of Georgia, Athens, Georgia, 2006-2007.
Postdoctoral Associate	University of Virginia, Charlottesville, Virginia, 2004-2006.
Ph.D.	Imperial College, London (England), Biology, 2004
M.Sc.	University of Cape Town (South Africa), Conservation Biology (with distinction), 1997
B.Sc	University of Nottingham (England), Zoology (with honours), 1995

GRADUATE AND POSTDOCTORAL ADVISORS

Graduate: T. G. Barraclough & V. Savolainen
Postdoctoral: J. L. Gittleman

PUBLICATIONS

- Davies, T. J.** and Barraclough T. G. (in press) The diversification of flowering plants through time and space: key innovations, climate and chance. In *Towards the Tree of Life: the taxonomy and systematics of large and species rich groups* (T. Hodkinson, J. Parnell and S. Waldren, eds). CRC Press.
- Davies, T. J.**, Meiri, S., Barraclough, T. G. and Gittleman, J. L. (2007) Species coexistence and character divergence across carnivores. *Ecology Letters* 10 146-152.
- Forest, F., Grenyer, R., Rouget, M., **Davies, T. J.**, Cowling, R. M., Faith, D. P., Balmford, A., Manning, J. C., Proches, S., van der Bank, M., Reeves, G., Hedderson, T. A. J. and Savolainen, V. (2007) Preserving the evolutionary potential of floras in biodiversity hotspots. *Nature* 445 757-760.
- Grenyer, R., Orme, C. D. L., Jackson, S. F., Thomas, G. H., Davies, R. G., **Davies, T. J.**, Jones, K. E., Olson, V. A., Ridgely, R., Rasmussen, P., Ding, T.-S., Bennett, P. M., Blackburn, T. M., Gaston, K. J., Gittleman, J. L. and Owens, I. P. F., (2006) The global distribution and conservation of rare and threatened vertebrates. *Nature* 444 93-96.
- Davies, T. J.** (2006). When relatives cannot live together. *Current Biology* 16, R645-R647.
- Davies, T. J.** and Savolainen, V. (2006) Neutral theory, phylogenies, and the relationship between phenotypic change and evolutionary rates. *Evolution* 60 476-483.

CURRICULUM VITAE

Jonathan Davies

- M. W. Chase, M. F. Fay, D. S. Devey, O. Maurin, N. Rønsted, **T. J. Davies**, Y. Pillon, G. Petersen, O. Seberg, M. N. Tamura, C. B. Asmussen, K. Hilu, T. Borsch, J. I. Davies, D. W. Stevenson, J. C. Pires, T. J. Givnish, K. J. Sytsma, M. A. McPherson, S. W. Graham & H. S. Rai. (2006). Multigene analyses of monocot relationships: a summary. *Aliso* 22: 63–75.
- Davies, T. J.**, V. Savolainen, M. W. Chase, P. Goldblatt, and T. G. Barraclough. (2005). Environment, area and diversification in the species-rich flowering plant family Iridaceae. *American Naturalist* 166: 418-425.
- Davies, T. J.**, R. Grenyer, and J. L. Gittleman. (2005). Phylogeny can make the mid-domain effect an inappropriate null model. *Biology Letters* 1: 143-146.
- Barraclough T. G. and **T. J. Davies**. (2005) Predicting future speciation. In *Phylogeny and Conservation* (A. Purvis, J. L. Gittleman, and T. M. Brooks, eds), pp.400-418. Cambridge University Press.
- Goldblatt, P., T. J. **Davies**, J. C. Manning, M. v. d. Bank, and V. Savolainen. (2005). Phylogeny of Iridaceae subfamily Crocoideae based on plastid DNAs. In *Monocots: comparative biology and evolution* (J. T. Columbus, E. A. Friar, J. M. Porter, L. M. Prince and M. G. Simpson, eds). Rancho Santa Ana Botanic Garden, Claremont, CA.
- Davies, T. J.**, T. G. Barraclough, M. W. Chase, P. S. Soltis, D. E. Soltis, and V. Savolainen. (2004). Darwin's abominable mystery: insights from a supertree of the angiosperms. *Proceedings of the National Academy of Sciences, USA* 101: 1904-1909.
- Davies, T. J.**, T. G. Barraclough, V. Savolainen, and M. W. Chase. (2004). Environmental causes for plant biodiversity gradients. *Philosophical Transactions of the Royal Society B: Biological Sciences* 359: 1645-1656.
- Davies, T. J.**, V. Savolainen, M. W. Chase, J. Moat, and T. G. Barraclough. (2004). Environmental energy and evolutionary rates in flowering plants. *Proceedings of the Royal Society of London B: Biological Sciences* 271: 2195-2200.
- Salamin, N., and **T. J. Davies**. (2004). Using supertrees to investigate species richness in grasses and flowering plants. In *Phylogenetic supertrees: combining information to reveal the Tree of Life* (Bininda-Emonds, O.R.P., ed.), pp.461-486. Computational Biology, Kluwer Academic Publishers.
- Goldblatt, P. Manning, J. C., **Davies, T. J.** and Savolainen, V. (2004) Cyanixia, a new genus for the Socotran endemic, *Babiana socotrana* (Iridaceae subfamily Corocoideae). *Edinburgh Journal of Botany* 60: 517-532.
- Savolainen, V., S. B. Heard, M. P. Powell, **T. J. Davies**, and A. Ø. Mooers. (2002). Is cladogenesis heritable? *Systematic Biology* 51:1-9.

CURRICULUM VITAE

Jonathan Davies

LABORATORY & COMPUTATIONAL SKILLS

- DNA extraction, PCR & sequencing
- Primer design
- Amplified Fragment Length Polymorphism (AFLPs)
- ArcGIS: Geographical Information System tools
- R statistical environment package
- Phylogenetic software: PAUP, NONA, Phylip, MacClade, Winclada, R8s, PAML, MrBayes, other miscellaneous packages
- DNA Sequence/AFLP editing software: Sequence Navigator, Autoassembler, Sequencher, Genotyper
- Programming: Visual Basic for Applications, C++

PRESENTATIONS

- 3rd Biennial meeting of the Systematics Association, London, 2001.
- Third Congress of the Southern African Society for Systematic Biology, South Africa, 2002.
- Application of Molecular Markers in studies on plants, Poland, 2002.
- The VIII Latin-American Botanical Congress, Colombia, 2002.
- 4th Biennial meeting of the Systematics Association, Ireland, 2003.
- American Society of Naturalists, Society for the study of Evolution, Society of Systematic Biologists, annual meeting 2004 Colorado.
- Plant phylogeny and the origin of major biomes, The Royal Society, London, UK, 2004.
- Deep Time, Washington DC, 2004
- American Society of Naturalists, Society for the study of Evolution, Society of Systematic Biologists, annual meeting 2005, Alaska.

TEACHING EXPERIENCE

- Designed and led course on dating molecular phylogenies, Rand Afrikaans University, South Africa, Universidad de los Andes, Colombia.
- Tutor/demonstrator, Biodiversity and Conservation Biology, undergraduate course, Department of Biology, Imperial College.
- Tutor, MSc in Taxonomy and Biodiversity, Natural History Museum, London.
- Tutor, Ecology, Behaviour and Evolution, undergraduate course, Department of Biology, Imperial College.
- Mentor, MSc Dissertation on AFLP analysis, Cranfield partnered with Kew.
- Lecture on Conservation Genetics (Biol. 345, University of Virginia).
- Lecture on Supertrees (Macroevolution: Biol. 401-701, University of Virginia).
- Lecture on Speciation (Macroevolution: Biol. 401-701, University of Virginia).

ACADEMIC SERVICES

Reviewer for: *American Naturalist*, *Animal Conservation*, *Diversity and Distributions*, *Ecology Letters*, *Evolution*, *Global Ecology and Biogeography*, *Journal of Biogeography*, *Molecular Phylogenetics and Evolution*, *Nature*, *Philosophical Transactions of the Royal Society B*, *PLoS Biology*, *Proceedings of the Royal Society B*, *Science*.