

*The Australian National University*

*Curriculum Vitae*

**Michael Douglas CRISP**

Position: Professor of Plant Systematics (tenured)  
College of Medicine, Biology and Environment  
School of Biology, Botany and Zoology (BoZo)  
<<http://www.anu.edu.au/BoZo/Crisp/>>

**Date of birth:** 9 February 1950

**Academic qualifications:**

1970: B. Sc., University of Adelaide

1971: B. Sc. (Hons), First Class, University of Adelaide

1976: Ph. D., University of Adelaide

**PhD thesis title:**

“Long term change in arid zone vegetation at Koonamore, South Australia”.

**Main Research Interests:**

My research in systematics investigates the evolutionary origins and patterns of diversification of organisms, especially plants, in time and space. I use DNA sequences to construct phylogenies (evolutionary trees) as a framework for testing evolutionary hypotheses, and for classifying and naming organisms.

**Present Appointment with the ANU:**

Professor from January 2004 until retirement.

**Previous Appointments:**

2000-2003: Head, School of Botany and Zoology, ANU

1993 to present: Honorary Research Associate, Centre for Plant Biodiversity Research (CPBR), CSIRO, Canberra

1990-2003: Lecturer, Senior Lecturer and Reader in BoZo, ANU

November 1990: Research Scientist, Australian National Botanic Gardens, Canberra (ANBG)

August 1981 to September 1982: Australian Botanical Liaison Officer, Royal Botanic Gardens, Kew, United Kingdom

July 1975 to October 1990: Science 2 (Botanist), ANBG

**Academic Awards and Distinctions:**

1967: South Australian Leaving Bursary, providing University fees and a maintenance grant, (awarded 1965 to top 5% of students).

1969: Ernest Ayers Scholarship in Botany, 1969 (University of Adelaide).

1971: Australian Wool Board Postgraduate Research Scholarship, providing living allowance and research grant for PhD studies.

## Research

### Ten career-best publications

1. **Crisp, M.D.**, Arroyo, M.T.K., Cook, L.G., Gandolfo, M.A.G., Jordan, J., McGlone, M.S., Weston, P.H., Westoby, M., Wilf, P. and Linder, H.P. (2009) Phylogenetic biome conservatism on a global scale. *Nature* **458**, 754-756. (We demonstrated phylogenetic niche conservatism in 97% of transitions between biomes and southern hemisphere land masses, using a sample of 11,000 species.)
2. **Crisp, M.D.** and Cook, L.G. (2009) Explosive radiation or mass extinction? Interpreting signatures in molecular phylogenies. *Evolution* **63**, 2257-2265. (Teasing out changes to extinction and speciation rates in molecular phylogenies has been a major challenge for evolutionary biology. Using simulated and real data, we showed that mass extinction has a distinctive molecular signature.)
3. **Crisp, M.D.**, Cook, L.G. and Steane, D.A. (2004) Radiation of the Australian flora: what can comparisons of molecular phylogenies across multiple taxa tell us about the evolution of diversity in present-day communities? *Philosophical Transactions of the Royal Society of London B, Biological Sciences* **359**, 1551-1571. (A comprehensive review of molecular phylogenies of Australian flora, with comparison of the timing of diversification among dominant taxa, showing correlated pattern that has led to the present project.)
4. **Crisp, M.D.**, Laffan, S., Linder, H.P. and Monro, A. (2001). Endemism in the Australian flora. *Journal of Biogeography* **28**, 183-198. (A GIS analysis of 8000 species found hotspots later used by the Australian government for implementing legislation for protecting threatened species.)
5. Cook, L.G. and **Crisp, M.D.** (2005). Directional asymmetry of long-distance dispersal and colonisation could mislead reconstructions of biogeography. *Journal of Biogeography* **32**, 741-754. (As mounting evidence shows that long-distance dispersal accounts for many trans-oceanic disjunctions in distributions, this paper reveals a bias needing attention in current biogeographic methods.)
6. **Crisp, M.D.** and Cook, L.G. (2005). Do early branching lineages signify ancestral traits? *Trends in Ecology and Evolution* **20**, 122-128. (This paper corrects a frequent misinterpretation of phylogenies in terms of character evolution.)
7. **Crisp, M.D.** and Cook, L.G. (2007). A congruent molecular signature of vicariance across multiple plant lineages. *Molecular Phylogenetics and Evolution* **43**, 1106-1117. (The first evidence from molecular dating for multiple speciation events linked to an ancient geo-climatic event, 15 Myr ago.)
8. **Crisp, M.D.**, Linder, H.P. and Weston, P.H. (1995). Cladistic biogeography of plants in Australia and New Guinea: congruent pattern reveals two endemic tropical tracks. *Systematic Biology* **44**, 457-473. (The first Australia-wide cladistic biogeographic analysis of the flora showed that the rainforest and monsoonal flora have different histories.)
9. Linder, H.P. and **Crisp, M.D.** (1995). *Nothofagus* and Pacific biogeography. *Cladistics* **11**, 5-32. (*Nothofagus* is considered a key taxon to understanding southern hemisphere biogeography: we showed that this group is only partly congruent with the Gondwana vicariance hypothesis.)
10. **Crisp, M.D.** and Weston, P.H. (1987). Cladistics and legume systematics, with an analysis of the Bossiaceae, Brongniartieae and Mirbelieae. In 'Advances in Legumes Systematics, Part 3'. (Ed. C. H. Stirton.) pp. 65-130. (Royal Botanic Gardens: Kew.) (One of the first cladistic analyses of plants, it included a comprehensive review of the methods.)

## External grants

17. Australian Research Council (ARC) Discovery scheme: \$280,000 in 2009-11 for “Distinguishing among patterns of extinction and speciation through geological and climatic change: a molecular modelling approach”, with L.G. Cook.
16. Australian Research Council (ARC) Discovery scheme: \$295,000 in 2006-8 for “Australia's monsoon tropical flora: invader or relict?”
15. Australian Research Council (ARC) Network scheme: \$2.5 million in 2004-9 for Australia-New Zealand Vegetation Function Network (Mark Westoby et al.)
14. Royal Society of London: UK£700 in 2004 to attend a meeting on “Plant phylogeny and the origin of major biomes”.
13. Grains Research and Development Corporation (GRDC): \$259,064 in 2003-7 for “Lectureship in Plant-Microbe Interactions”.
12. Australian Research Council (ARC) Discovery scheme: \$240,572 in 2003-5 for “Were the Tertiary radiations of the Australian flora synchronous? A molecular phylogenetic approach”.
11. Australian Biological Resources Study (ABRS): \$82,500 in 2003-5 for “Phylogeny and biogeography of *Pouteria* (Sapotaceae) in Malesia and Australia”, supporting postgraduate research by Teguh Triono.
10. ABRS: \$60,300 in 2002-4 for “An investigation of generic level relationships in *Syzygium*”, supporting postgraduate research by Ed Biffin.
9. ABRS: \$66,000 in 2001-4 for “Systematics of *Rhodanthe* and allies (Asteraceae: Gnaphalieae)”, supporting postgraduate research by Ed Cross.
8. ABRS: \$50,000 in 2001-3 for “Taxonomic revision and phylogenetic analysis of *Aotus* and related genera (Leguminosae, Mirbelieae)”, with J.A. Chappill.
7. ARC Large Grant: \$97,000 in 2000-2 for “Evolutionary history and biogeography of the Australian bitter peas (*Daviesia*: Fabaceae)”.
6. ABRS: \$27,500 in 1997-2000 for “Revision of *Gastrolobium* (Fabaceae)”, supporting postgraduate research by Greg Chandler.
5. ARC large grant: \$165,000 in 1996-8 for “Molecular systematics of an Australian legume group”.
4. ABRS: \$58,124 in 1996-7 for “Revision of *Daviesia* (Fabaceae)”.
3. ABRS: \$75,267 in 1994-7 for “Systematics and biogeography of Pittosporaceae”, supporting postgraduate research by Lindy Cayzer.
2. Royal Society of London: UK£500 in 1992 to attend the Third International Legume Conference.
1. ABRS: \$107,551 in 1991-4 for “Revision of *Jacksonia* (Fabaceae: Mirbelieae)”, with J.A. Chappill.

## Research Group

### Staff

*Lindsay Popple*, an ARC-funded Postdoctoral Research Associate, works with me on molecular phylogenetics and macro-evolution of the Australian flora and fauna, and supervises students' lab work. He also does his own research on the evolutionary ecology of cicadas.

### Current students

*Bee Gunn*, Ph.D., Phylogeography, population genetics and domestication of the coconut (*Cocos nucifera*), co-supervised by Rod Peakall and Matt

- Prebble (ANU) and Joe Miller (CPBR).
- James Ingham*, Ph.D., Systematics and evolution of the Australian cycad *Macrozamia*, based at UQ and co-supervised by Lyn Cook and Paul Forster.
- Melita Baum*, Ph.D., Phylogeography of *Telopea* and *Lomatia* species (Proteaceae), co-supervised by Maurizio Rossetto and Peter Weston (RBG, Sydney).
- Richard Carter*, Ph.D., Biogeography and radiation of the *Brachychiton* clade (Sterculiaceae), co-supervised by Pete Lockhart (Massey Univ, NZ), Lyn Cook (UQ) and Bernard Pfeil (CPBR).
- Robert Edwards*, Ph.D., Contemporary or ancient gene flow? Consequences for biological control, ecological theory and taxonomy in a complex of long-lived tropical trees (*Melaleuca leucadendra* group), based at UQ and co-supervised by Lyn Cook.
- Roberta Hitchcock*, Ph.D., Clarifying the taxonomy of the lightbrown apple moth group: revision of the genus *Epiphyas*, co-supervised by Marianne Horak (CSIRO), Andrew Mitchell (NSW Govt) and John Trueman (BoZo).
- Andrew Thornhill*, Ph.D., Pollen morphology of Myrtaceae and its significance for the systematics of extant and fossil taxa, co-supervised by Geoff Hope (ANU), Lyn Craven (CSIRO).
- Senilolia Tuiwawa*, M.Phil., Systematics and Biogeography of *Syzygium* (Myrtaceae) in Vanuatu, co-supervised by Lyn Craven (CPBR).

#### Past Students (year of completion)

- Ed Biffin*, Ph.D. (2008), Systematics and evolution *Syzygium* and Myrtaceae, co-supervised by Lyn Craven (CPBR) and Paul Gadek (JCU).
- Melita Baum*, B.Sc. (Hons) (2007), Variation within the monotypic genus, *Howittia trilocularis*, using morphological and molecular data, co-supervised by Linda Broadhurst and Lyn Craven (CSIRO).
- Teguh Triono*, Ph.D. (2007), Systematics of Sapotaceae in Australia and Indonesia, co-supervised by Judy West (CPBR). Now employed as a botanist by the Indonesian government.
- Andrea Leigh*, Ph.D. (2007), Comparative evolution of leaves of Proteaceae in Australia and South Africa, co-supervised by Adrienne Nicotra (BoZo) and William Stock (University of Cape Town). Now an academic at UTS Sydney.
- Robert Edwards*, B.Sc. (Hons) (2006), A phylogenetic study of the Melaleuceae alliance (Myrtaceae) using morphological and molecular data, co-supervised with Lyn Cook (BoZo) and Lyn Craven (CPBR). Now a PhD student.
- Ed Cross*, Ph.D. (2006), Systematics of the *Rhodanthe* (Asteraceae: Gnaphalieae: Angianthinae), a combined molecular and morphological approach, co-supervised by Randy Bayer (CPBR) and Chris Quinn (UNSW). Sadly deceased.
- Anna Monro*, Ph.D. (2004), Systematics of the Australian Polygalaceae sens. lat. Now employed at CPBR.
- Lindy Orthia*, B.Sc. (Hons) (2003), Systematics of *Pultenaea* (Fabaceae) – University Medallist, co-supervised by Lyn Cook (BoZo) and Judy West (CPBR). Now a PhD student in science communication at ANU.
- Scot Kelchner*, Ph.D. (2003), Phylogenetic structure, biogeography, and

- evolution of the Myoporaceae. Now an assistant professor at the Department of Biological Sciences, Idaho State University, USA.
- Bernard Pfeil*, Ph.D. (2002), Systematics of the Hibisceae (Malvaceae) in Australia. Now a post-doc with Jeff Doyle at Cornell University, USA.
- Rose Andrew*, B.Sc.(Hons) First Class (2001), The genetics and maintenance of morphological diversity in *Acacia aneura*. Now a Ph.D. student in the Foley lab, BoZo.
- Ed Biffin*, B.Sc.(Hons) First Class and University Medal (2001), Biogeography of *Flindersia* (Rutaceae) in the Australian wet tropics. Now a Ph.D. student with me.
- Simone Louwhoff*, Ph.D. (2000), The lichen genera *Hypotrachyna* and *Parmotrema* in the Pacific Islands: taxonomy, phytochemistry and distribution. Now a tenured curator at the Natural History Museum, London.
- Greg Chandler*, Ph.D. (2001), Systematic studies in *Gastrolobium* (Fabaceae: Mirbelieae). B.Sc. (Hons.) First Class (1995), A revision of the *Daviesia ulicifolia* Andr. species complex. Now a tenure-track academic at University of North Carolina, USA.
- Lina Juswara*, M.Phil. (2000), Systematics of *Goodyera* R.Br. sect. *Otosepalum* Schltr. and related taxa (Orchidaceae). Now working as a curator at the Indonesian National Herbarium, Bogor.
- Emma Lumb*, B.Sc.(Hons) 2A (2000), Is *Podolobium ilicifolium* (Fabaceae: Mirbelieae) a species complex? Now working at the Australian Institute of Environmental Health, Canberra.
- Scott Gilmore*, B.Sc.(Hons) First Class (1999). Is *Dicranoloma robustum* conspecific with *D. billardierii*? Now a Ph.D. student at Research School of Biological Sciences, ANU.
- Jim Mant*, B.Sc.(Hons) First Class (1998). A phylogeny of *Triodia* R.Br. and related genera (Poaceae: Triodieae). Now a post-doc at the University of Zurich, Switzerland.
- Lindy Cayzer*, Ph.D. (1997). Revision of the family Pittosporaceae in Australia. B.Sc. (Hons.) 2A (1993). The investigation of phenotypic variation within and between three eucalypt taxa occurring in the A.C.T. Now working at the Australian National Botanic Gardens.
- Andrew Lyne*, Grad. Dip Sci. (1997). Analysis of the geographic variation exhibited by *Leptospermum brevipes* F. Muell. Now working at the Australian National Botanic Gardens.
- Ian Telford*, Grad. Dip Sci. (1997). Morphological variation in the *Sicyos australis* Endl. complex (Cucurbitaceae) and a preliminary investigation of the sectional classification of the genus. Now a Ph.D. student at the University of New England.
- Anna Monro*, B.Sc. (Hons.) First Class (1997). Phylogeny and biogeography of the *Mirbelia spinosa* group (Fabaceae: Mirbelieae). Now enrolled in a Ph.D. with myself.
- Belinda Alvarez de Glasby*, Ph.D. (1996). The phylogenetic relationships of the family Axinellidae (Porifera: Demospongiae). Now working at the Northern Territory Museum.
- Susan Hoebee*, B.Sc. (Hons.) First Class (1996). Ecological and evolutionary aspects of a *Daviesia* (Fabaceae) hybrid zone. Now a post-doc at the Swiss Federal Institute WSL, Birmensdorf.

*Tracey Parrish*, B.Sc. (Hons.) First Class (1994). The systematics of two species of Waratah, *Telopea mongaensis* F. Muell. and *T. oreades* Cheel (Proteaceae). Ph.D., Netherlands Institute of Ecology, Utrecht University (2002).

*Pam Flood*, B.Sc. (Hons) 2A (1994). Characterisation of a hybrid zone between *Daviesia leptophylla* and *D. mimosoides*. Now working in the Public Service.

#### Visiting fellows on sabbatical leave

*Kevin Omland*, University of Maryland, Baltimore County (2007)

*Sara Hoot*, University of Wisconsin (2002)

*Susan Moyle Studlar*, West Virginia University (2001)

*Peter Linder*, University of Cape Town (1994, 2000)

*Gerry Allen*, University of Victoria, Canada (1998-9)

*David Morrison*, University of Technology, Sydney (1994)

## Teaching

### Undergraduate courses

#### Courses taught 2000-9:

- “*Australian Plant Diversity*” (BIOL2122), 2<sup>nd</sup> year (2000-9). 15-25 students.
- “*Evolution of Biodiversity*” (BIOL2154), 2<sup>nd</sup> year (2008-9). 50-65 students.
- “*Ecology, Evolution and Genetics*” (BIOL1003), 1<sup>st</sup> year (2005-7). 250-350 students.
- “*Biodiversity and Systematics*” (BIOL3134), 3rd year (2000-7). 30-50 students.
- “*Botanical Internship*” (BIOL3124/3138), 3rd year inter-semester. (Course run by CPBR/CSIRO; my contribution is mainly administration and marking). 1-4 students.

#### Courses taught 1991-2000:

- “*Comparative Biology and Systematics*” (C21, BIOL3021), 3rd year. Contact: 18 hours lecturing; 18 hours practicals; 8 hours field trip. 30-40 students.
- “*Evolution*” (C12), 3rd year seminar course, 2 weeks per annum. Contact: 18 hours supervision of seminars and discussions (evenings); 12 hours tutorials (rehearsing student seminars). 30 students (quota).
- “*Plant Reproduction and Systematics*” (B22, B23, BIOL2023), 2nd year, 7 weeks per annum. Contact: 18 hours lecturing; 18 hours practicals; 1 weekend field trip. 20-30 students.

### Honours and postgraduate supervision

I supervise research students (listed above) in my main areas of interest (plant systematics, biogeography and comparative biology) and also in related areas with specialist co-supervisors (ecology and systematics of non-plant organisms). I also run (with Lyn Cook) an annual one-week retreat of our joint labs, and organise occasional short postgraduate courses in systematics.

## University administration

### Specific roles and responsibilities

#### Head, School of Botany and Zoology, 2000-3.

I was responsible for a large department with more than 100 staff and research students, including 15 tenured academic staff, 15 postdoctoral and research fellows, 13 university-funded general staff providing technical and administrative support, a large number of grant-funded support staff.

#### Curator of the GAUBA herbarium, ANU, 1991-present.

This museum collection is internationally recognised and listed in 'Index Herbariorum'.

#### Single course coordination

At different times I have coordinated all of the semester courses in which I teach.

#### Student advising, coordinating and enrolling

Departmental student advisor, 1997-9.

#### Whole program coordination

BoZo Honours course coordinator, 1993-5; 2005-7.

#### Specific contributions to the administration of the department

- Convener of seminar program, 1991-3; 2005-6.
- Selection committees for the appointment of academic staff, 1994, 1999 and 2000.

## Professional links to the wider community

### Sabbatical leave

- 2008 based at UQ with Lyn Cook.
- 2004 based at ANU with visits to the UK and Switzerland, and extensive field work in western and northern Australia.
- 1996-7 at CSIRO Plant Industry with Judy West, and at the University of Cape Town with Peter Linder, research in biogeography.
- 1981-2 as Australian Botanical Liaison Officer, Royal Botanic Gardens, Kew, United Kingdom; research in legume systematics.

### Editorships and peer reviews

- *Systematic Biology*, member of the Editorial Board, 1999-2007.
- Edited special issue of *Australian Systematic Botany*, vol. 16, no. 1 (2003), 'Biology of *Acacia*. Advances in Legume Systematics Part 11'.
- Edited special issue of *Journal of Biogeography*, vol. 28, no. 2 (2001), 'Historical biogeography and patterns of diversity in plants, algae and fungi'.
- Edited 'Advances in Legume Systematics, Part 7, Phylogeny' (1995), with J.J. Doyle.
- Reviews of manuscripts for a wide range of systematics and biogeography journals, including *Annals of Botany*, *Australian Systematic Botany*, *International Journal of Plant Sciences*, *Journal of Biogeography*, *Molecular Phylogenetics and Evolution*,

*New Zealand Journal of Botany, Plant Systematics and Evolution, Proceedings of the Royal Society of London B, Systematic Biology, Taxon.*

- Referee of grant applications for Australian Biological Resources Study, Australian Research Council, South African National Research Foundation, and National Science Foundation (USA).

### **Conference participation/organisation (highlights)**

- I have been invited to organise international conferences and symposia, e.g. a plenary symposium at the International Botanical Congress (1999), International Legume Conferences (1992, 1999, 2001), IBCC (2004), Southern Connections (2007), and I have edited proceedings from these. I have been invited to present keynote addresses at international conferences, e.g. at the Royal Society (London, 2004), the Darwin Conference (Darwin, 2009) and Southern Connections (Argentina, 2010). By invitation, I have participated in seven ARC network-funded workshops from 2005-8 ('Environmental Futures' and 'Vegetation Function' networks), resulting in the paper in *Nature* (2009) on biome evolution and a presentation at INTECOL (Brisbane, 2009). I have also spoken to community groups.

### **External collaborative links**

- Honorary research associate at the Centre for Plant Biodiversity Research (CPBR), CSIRO. My research students have full access to the facilities there, as well as co-supervision by leading systematists such as Curt Brubaker, Jeremy Burdon, Chris Cargill, Lyn Craven, Joe Miller and Judy West. Chris Cargill teaches in my undergraduate course "Australian Plant Diversity".
- Research on radiation of the flora, biome assembly and historical biogeography in Australia and the southern hemisphere with Lyn Cook (UQ), David Bowman (UTas), Yuji Isagi (Kyoto University), Shawn Laffan (UNSW), Peter Linder (University of Zurich), Mark Westoby (Macquarie University) and Peter Weston (Royal Botanic Gardens, Sydney).

### **Provision of advice and assistance to government agencies**

- CSIRO Entomology, Australian National Insect Collection Fund Board of Governors, 2005-7.
- Australian Biological Resources Study: chair of Flora editorial committee 1999-2001.

### **Membership of learned societies**

- Society of Australian Systematic Biologists: co-founder; President 1998-9; Councillor 2001-9.
- Australian Systematic Botany Society: President, 1992-5; Vice President, 1989-91; Associate Editor, "ASBS Newsletter", 1988-90; Public Officer, 1986-92; Councillor, 1985-9; Convener of Canberra Chapter, 1979-81.
- International Association for Plant Taxonomy.
- Society of Systematic Biologists. Member of the Editorial Board, 1999-present.
- American Society of Plant Taxonomists.
- Botanical Society of America.

## Publications

### Refereed articles

#### Submitted or in press

- Crisp, M.D.**, Isagi, Y., Kato, Y., Cook, L.G., Bowman, D.M.S. (in press). *Livistona* palms in Australia: ancient relics or opportunistic immigrants? *Molecular Phylogenetics and Evolution* doi:10.1016/j.ympev.2009.09.020.
- Bowman, D. M. J. S., Braby, M. F., Brown, G. K., Brown, J., Cook, L. G., **Crisp, M. D.**, Ford, F., Haberle, S. G., Hughes, J., Isagi, Y., Joseph, L., Ladiges, P. Y., McBride, J. and Nelson G. (in press). Biogeography of the Australian monsoon tropics. *Journal of Biogeography* doi:10.1111/j.1365-2699.2009.02210.x.
- Biffin, E., Craven, L. A., **Crisp, M. D.**, Gadek, P. A. and Harrington, M. A. (in press). Evolutionary relationships within *Syzygium* sens. lat. (Myrtaceae): molecular phylogeny and new insights on morphology. Proceedings 6th International Flora Malesiana Symposium, 2004.
- Biffin, E., Lucas, E., Craven, L., Ribeiro da Costa, I., Harrington, M. and **Crisp, M. D.** (submitted). Evolution of exceptional species richness amongst lineages of fleshy-fruited Myrtaceae. *Annals of Botany*.
- Edwards, R. D., Craven, L. A., **Crisp, M. D.** and Cook, L. G. (submitted). cpDNA data confirm that *Melaleuca* L. (Myrtaceae) is not monophyletic. *Taxon*.

#### Published

106. **Crisp, M. D.** and Cook, L. G. (2009). Explosive radiation or mass extinction? Interpreting signatures in molecular phylogenies. *Evolution* **63**, 2257-2265.
105. Rosauer, D., Laffan, S. W., **Crisp, M. D.**, Donnellan, S. C. and Cook, L. G. (2009). Phylogenetic endemism: a new approach for identifying geographical concentrations of evolutionary history. *Molecular Ecology* **18**, 4061-4072.
104. Wilkins, C. F., Orthia, L. A. and **Crisp, M. D.** (2009). A new species of *Pultenaea* (Mirbelieae: Fabaceae) from Kundip, Western Australia. *Nuytsia* **19**, 191-196.
103. Crisp, M. D., Arroyo, M. T. K., Cook, L. G., Gandolfo, M. A., Jordan, G. J., McGlone, M. S., Weston, P. H., Westoby, M., Wilf, P. and Linder, H. P. (2009.) Phylogenetic biome conservatism on a global scale. *Nature* **458**, 754-756.
102. Pfeil, B. E. and **Crisp, M. D.** (2008). The age and biogeography of *Citrus* and the orange subfamily (Rutaceae: Aurantioideae) in Australasia and New Caledonia. *American Journal of Botany* **95**, 1621-1631.
101. Omland, K. E., Cook, L. G. and **Crisp, M. D.** (2008). Tree thinking for all biology: the problem with reading phylogenies as ladders of progress. *Bioessays* **30**, 854-876.
100. Cook, L. G., Morris, D. C., Edwards, R. D. and **Crisp, M. D.** (2008). Reticulate evolution in the natural range of the invasive wetland tree species *Melaleuca quinquenervia*. *Molecular Phylogenetics and Evolution* **47**, 506-522.
99. Chappill, J. A., Wilkins, C. F. and **Crisp, M. D.** (2008). Taxonomic revision of *Gompholobium* (Leguminosae: Mirbelieae). *Australian Systematic Botany* **21**, 67-151.
98. Chappill, J. A., Wilkins, C. F. and **Crisp, M. D.** (2007). Taxonomic revision of *Jacksonia* (Leguminosae: Mirbelieae). *Australian Systematic Botany* **20**, 473-623..
97. **Crisp, M. D.** and Cook, L. G. (2007). A congruent molecular signature of vicariance across multiple plant lineages. *Molecular Phylogenetics and Evolution* **43**, 1106-1117.
96. Biffin, E., Harrington, M. G., **Crisp, M. D.**, Craven, L. A. and Gadek, P. A. (2007). Structural partitioning, paired-sites models and evolution of the ITS transcript in *Syzygium* and Myrtaceae. *Molecular Phylogenetics and Evolution* **43**, 124-139.
95. Cayzer, L. W., **Crisp, M. D.** and Donaldson, S. (2007). *Cheiranthra* (Pittosporaceae). *Australian Systematic Botany* **20**, 340-354.
94. Triono, T., Brown, A. H. D., West, J. G. and **Crisp, M. D.** (2007) A phylogeny of *Pouteria* (Sapotaceae) from Malesia and Australasia. *Australian Systematic Botany* **20**, 107-118.
93. **Crisp, M. D.** (2006). Biome assembly: what we know and what we need to know. *Journal of Biogeography* **33**, 1332-1333.
92. Biffin, E., Craven, L. A., **Crisp, M. D.** and Gadek, P. A. (2006). Molecular systematics of

- Syzygium* and allied genera (Myrtaceae): evidence from the chloroplast genome. *Taxon* **55**, 79-94.
- 91 Cook, L. G. and **Crisp, M. D.** (2005). Not so ancient: the extant crown group of *Nothofagus* represents a post-Gondwanan radiation. *Proceedings of the Royal Society of London, B. Biological Sciences* **272**, 2535-2544.
90. Biffin, E., Craven, L. A., Tuiawa, M., **Crisp, M. D.** and Gadek, P. A. (2005). South Pacific *Cleistocalyx* transferred to *Syzygium* (Myrtaceae). *Blumea* **50**, 383-388.
89. Cook, L. G. and **Crisp, M. D.** (2005). Directional asymmetry of long distance dispersal and establishment could mislead reconstructions of biogeography. *Journal of Biogeography* **32**, 741-754.
88. **Crisp, M. D.** and Cook, L. G. (2005). Do early branching lineages signify ancestral traits? *Trends in Ecology and Evolution* **20**, 122-126.
87. **Crisp, M. D.**, Cook, L. G. and Steane, D. A. (2005). Molecular dating and eucalypts: reply to Ladiges and Udovicic. *Australian Systematic Botany* **18**, 295-296.
86. Luckow, M., Hughes, C., Schrire, B., Winter, P., Fagg, C., Fortunato, R., Hurter, J., Rico, L., Breteler, F. J., Bruneau, A., Caccavari, M., Craven, L., **Crisp, M. D.**, S., A. D., Demissew, S., Doyle, J. J., Grether, R., Harris, S., Herendeen, P. S., Hernández, H. M., Hirsch, A. M., Jobson, R., Klitgaard, B. B., Labat, J.-N., Lock, J. M., MacKinder, B., Pfeil, B., Simpson, B. B., Smith, G. F., S., M. S., Timberlake, J., Maesen, J. G. v. d., Wyk, A. E. V., Vorster, P., Willis, C. K., Wieringa, J. J. & Wojciechowski, M. F. (2005). *Acacia*: the case against moving the type to Australia. *Taxon* **54**, 513-519.
85. Orthia, L. A., Cook, L. G. and **Crisp, M. D.** (2005). Generic delimitation and phylogenetic uncertainty: an example from a group that has undergone an explosive radiation. *Australian Systematic Botany* **18**, 41-47.
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