

### Book Chapters:

**Melville J**, Coventry AJ (2006) Frogs, Freshwater turtles, Lizards and Snakes(Chapters: 14-17). In: *Wildlife of Melbourne*. CSIRO Publishing, Melbourne.

### Refereed Journal Articles:

Edwards DL, and **Melville J**. (2010). Extensive phylogeographic and morphological diversity in *Diporiphora nobbi* (Agamidae) leads to a taxonomic review and a new species description. *Journal of Herpetology* (in review).

Smith KL, Harmon LJ, Shoo LP, **Melville J**. (2010). Evidence that stabilizing selection constrains phenotypic evolution in a cryptic species complex of agamid lizards. *Evolution* (in review).

Wagner P, **Melville J**, Wilms TM, and Schmitz A. (2010). Opening a box of cryptic taxa – The first review of the North African desert lizards in the *Trapelus mutabilis* Merrem, 1820 complex (Squamata: Agamidae). *Zoological Journal of the Linnean Society* (in review).

**Melville J**, Ritchie E, Chapple SNJ, Glor RE, and Schulte, JA II (2010). Taxonomic revision of Australian agamid lizards from the genera *Amphibolurus* and *Lophognathus* (Lacertilia: Agamidae). *Zootaxa* (in review).

**Melville J**, Ritchie E, Chapple SNJ, Glor RE, and Schulte, JA II (2010). Evolutionary origins and diversification of dragon lizards in Australia's tropical savannah woodlands. *Molecular Phylogenetics and Evolution* (in review).

Edwards D, **Melville J** (2010) Phylogeographic analysis detects congruent biogeographic patterns between a woodland agamid and Australian wet tropics taxa despite disparate evolutionary trajectories. *Journal of Biogeography* (in press).

**Melville J**, Hale JM, Mantziou G, Ananjeva NB, Milto K, Clemann N (2009) Historical biogeography, phylogenetic relationships and intraspecific diversity of agamids lizards in the Central Asian deserts of Kazakhstan and Uzbekistan. *Molecular Phylogenetics and Evolution* 53: 99-112.

**Melville J**, Hale JM (2009) Length variation in the in the N-terminal domain of the recombination-activating gene 1 (RAG1) across squamates. *Molecular Phylogenetics and Evolution* 52: 898-903.

Harmon LJ, **Melville J**, Larson A, Losos JB (2008) The Role of Geography and Ecological Opportunity in the Diversification of Day Geckos (*Phelsuma*). *Systematic Biology* 57(4): 562–573.

Byrne M, Yeates DK, Joseph L, Kearney M, Bowler J, Williams MA, Cooper S, Donnellan SC, Keogh JS, Leys R, **Melville J**, Murphy DJ, Porch N, Wyrwoll K-H (2008) Birth of a biome: insights into the assembly and maintenance of the Australian arid zone biota. *Molecular Ecology* 17: 4398-4417.

**Melville J**, Shoo LP, Doughty P (2008) Phylogenetic relationships of the heath dragons (*Rankinia adelaidensis* and *R. parviceps*) from the southwestern Australian biodiversity hotspot. *Australian Journal of Zoology* 56: 159-171.

Shoo LP, Rose R, Doughty P, Austin JJ, **Melville J** (2008) Diversification patterns of pebble-mimic dragons are consistent with historical disruption of important habitat corridors in arid Australia. *Molecular Phylogenetics and Evolution* 48: 528–542. \

Clemann N, **Melville J**, Scroggie MP, Milto K, Ananjeva NB (2008) Microhabitat occupation and functional morphology of four species of sympatric agamid lizards in the Kyzylkum Desert, central Uzbekistan. *Animal Biodiversity and Conservation* 31.2: 1-12.

**Melville J** (2007) Evolutionary correlations between microhabitat specialisation and locomotor capabilities in the lizard genus *Niveoscincus*. *Australian Journal of Zoology* 55, 351–355.

Doughty P, Maryan B, **Melville J**, Austin JJ (2007) A new species of *Ctenophorus* (Lacertilia: Agamidae) from Lake Disappointment, Western Australia. *Herpetologica* 63(1): 72-86.

- Melville J, Goebel S, Starr C, Keogh JS, Austin JJ** (2006) Conservation genetics and species status of an endangered Australian dragon, *Tympanocryptis pinguicolla* (Reptilia: Agamidae). *Conservation Genetics* 7: 185-195.
- Melville J, Harmon L, Losos JB** (2006) Intercontinental community convergence in lizards. *Proceedings of the Royal Society of London B* 273: 557 – 563.
- Austin JJ, **Melville J** (2006) Incorporating historical museum specimens into molecular systematic and conservation genetics research. *Molecular Ecology Resources* (formerly *Molecular Ecology Notes*) 6: 1089-1092.
- Austin JJ, Rose RJ, **Melville J** (2006) Polymorphic microsatellite markers in the painted dragon lizard, *Ctenophorus pictus*. *Molecular Ecology Resources* (formerly *Molecular Ecology Notes*) 6: 194-196.
- Rose RJ, **Melville J** (2006) A New Technique for Measuring Body Color of Small Lizards in the Field. *Herpetological Review* 37: 191-194.
- Rose RJ, Ng J, **Melville J** (2006) A New Technique for Measuring Lizards in the Field. *Herpetological Review* 37: 194-195.
- Melville, J., J. A. Schulte II and A. Larson.** (2004). A molecular study of phylogenetic relationships and evolution of anti-predator strategies in Australian *Diplodactylus* geckos, subgenus *Strophurus*. *Biological Journal of the Linnean Society* 82: 123-138.
- Melville, J., and R. Swain.** (2003). Evolutionary correlations between escape behaviour and performance ability in eight species of snow skinks from Tasmania (*Niveoscincus*: Lygosominae). *Journal of Zoology (London)* 261: 79-89.
- Schulte II, J.A., J. **Melville** and A. Larson. (2003). Molecular phylogenetic evidence for ancient divergence of lizard taxa on either side of Wallace's Line. *Proceedings of the Royal Society of London B* 270: 597-603.
- Melville, J.** (2002). Competition and character displacement in two species of scincid lizards. *Ecology Letters* 5: 386-393
- Melville, J., J. A. Schulte II and A. Larson.** (2001). A molecular phylogenetic study of ecological diversification in the Australian lizard genus *Ctenophorus*. *Journal of Experimental Zoology (Molecular and Developmental Evolution)* 291: 339-353.
- Melville, J., and J. A. Schulte II.** (2001). Correlates of active body temperatures and microhabitat occupation in nine species of central Australian agamid lizards. *Austral Ecology* 26: 660-669.
- Melville, J., and R. Swain.** (2000). Evolutionary relationships between morphology, performance and habitat openness in the lizard genus *Niveoscincus* (Scincidae: Lygosominae). *Biological Journal of the Linnean Society* 70: 667-683.
- Melville, J., and R. Swain.** (2000). Mitochondrial dna-sequence based phylogeny and biogeography of the snow skinks (Squamata: Scincidae: *Niveoscincus*) of Tasmania. *Herpetologica* 56: 196-208.
- Melville, J. and R. Swain** (1999). Home Range Characteristics of an Alpine Lizard, *Niveoscincus microlepidotus* (Scincidae), on Mt Wellington, Southern Tasmania. *Wildlife Research* 26(3): 263-270.
- Melville, J., and R. Swain.** (1999). Habitat associations and natural history of the Tasmanian "snow skinks" (*Niveoscincus* spp.). *Papers and Proceedings of the Royal Society of Tasmania* 133 (1): 57-64.

**Melville, J., and R. Swain. (1998).** Evolutionary relationships within the snow skinks (Squamata: Scincidae: *Niveoscincus*) of Tasmania. IN: *Evolutionary Biology at High Southern Latitudes*. Australian Institute of Biology, Canberra.

**Melville, J., and R. Swain. (1997).** Spatial separation in two sympatric skinks, *Niveoscincus microlepidotus* and *N. metallicus*, from Tasmania. *Herpetologica* 53(1): 126-132.

**Melville, J., and R. Swain. (1997).** Daily and seasonal activity patterns in two species of high altitude skink, *Niveoscincus microlepidotus* and *N. metallicus*, from Tasmania. *Journal of Herpetology* 31(1): 29-37.

Other Publications:

**Melville J (2005)** Disappearing Dragons. *Australian Academy of Sciences Newsletter*: April-July 2005

**Melville J (2005)** Venomous Venture. *Museum Victoria Magazine*: Winter 2005.