

## **PUBLICATION LIST**

### Peer-reviewed articles

- Chen IP, Symonds MRE, Hugall AF, **Melville J**, Stuart-Fox D. Natural and sexual selection on colours and patterns in Australian agamid lizards (Agamidae): a comparative study. *Evolutionary Ecology* (In review).
- Maldonado SP, **Melville J**, Peterson GNL, Sumner J. Human-induced versus historical habitat shifts: identifying the processes that shaped the genetic structure of the threatened grassland legless lizard, *Delma impar*. *Conservation Genetics* (In review).
- Melville J**, Ritchie E, Chapple SNJ, Glor RE, Schulte, JA II. Taxonomic revision of Australian agamid lizards from the genera *Amphibolurus* and *Lophognathus* (Lacertilia: Agamidae). *Zootaxa* (In review).
- Smith KL, Harmon LJ, Shoo LP, **Melville J**. (2011). Evidence that stabilizing selection constrains phenotypic evolution in a cryptic species complex of agamid lizards. *Evolution* 65: 976-992.
- Smith KL, Hale JM, Austin JJ, **Melville J**. (2011). Isolation and characterization of microsatellite markers for the *Litoria ewingii* complex and their use in conservation and hybridization studies. *Conservation Genetic Resources* 3:621–624.
- Edwards D, **Melville J** (2011). Extensive phylogeographic and morphological diversity in *Diporiphora nobbi* (Agamidae) leads to a taxonomic review and a new species description. *Journal of Herpetology* 45: 530-546.
- Melville J**, Ritchie E, Chapple SNJ, Glor RE, Schulte, JA II (2011). Evolutionary origins and diversification of dragon lizards in Australia's tropical savannah woodlands. *Molecular Phylogenetics and Evolution* 58: 257–270.
- Wagner P, **Melville J**, Wilms TM, Schmitz A. (2011). Opening a box of cryptic taxa – the first review of the North African desert lizards in the *Trapelus mutabilis* Merrem, 1820 complex (Squamata: Agamidae) with descriptions of new taxa. *Zoological Journal of the Linnean Society* 163: 884–912.
- Hale JM, Heard GW, Smith KL, Blacket MJ, Austin JJ, **Melville J**. (2011). Microsatellite loci for the endangered growling grass frog (*Litoria raniformis*), with cross amplification in other Australian frog species. *Conservation Genetics Resources* 3: 593–595.
- Byrne M, Steane D, Joseph L, Yeates D, Jordan GJ, Crayn D, Aplin K, Cantrill D, Cook LG, Crisp, MD, Keogh JS, **Melville J**, Moritz C, Porch N, Sniderman JMK, Sunnucks P, Weston PH. (2011). Decline of a biome: evolution, contraction, fragmentation, extinction and invasion of the Australian mesic zone biota. *Journal of Biogeography* 38: 1635–1656.
- 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* 37: 1543-1556.
- Melville J.**, J. M. Hale, G. Mantziou, N. B. Ananjeva, K. Milto and N. Clemann. 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.**, and J. M. Hale. 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.
- Clemann, N., **Melville, J.**, Ananjeva, N.B., Scroggie, M.P., Milto, K., Kreuzberg, E. 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.**, Shoo L. P., and P. Doughty. 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.
- Byrne M., D. K. Yeates, L. Joseph, M. Kearney, J. Bowler, M. A. Williams, S. Cooper, S. C. Donnellan, J. S. Keogh, R. Leys, J. **Melville**, D. J. Murphy, N. Porch, K-H. Wyrwoll. 2008. Birth of a biome: insights into the assembly and maintenance of the Australian arid zone biota. *Molecular Ecology* 17: 4398-4417.
- Harmon L. J, J. **Melville** , A. Larson A. and J. B. Losos. 2008. The Role of Geography and Ecological Opportunity in the Diversification of Day Geckos (*Phelsuma*). *Systematic Biology* 57(4): 562–573.
- Shoo L. P., R. Rose, P. Doughty, J.J. Austin and J. **Melville**. 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.
- 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., B. Maryan, J. **Melville**, and JJ. Austin. 2007. A new species of *Ctenophorus* (Lacertilia: Agamidae) from Lake Disappointment, Western Australia. *Herpetologica* 63(1): 72-86.
- Melville, J.**, S. Goebel, C. Starr, J.S. Keogh and J.J. Austin. 2006. Conservation genetics and species status of an endangered Australian dragon, *Tympanocryptis pinguicolla* (Reptilia: Agamidae). *Conservation Genetics* 7: 185-195.
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- Austin, J. J. and J. **Melville**. 2006. Incorporating historical museum specimens into molecular systematic and conservation genetics research. *Molecular Ecology Notes* 6: 1089-1092.
- Austin J. J., R. J Rose and J. **Melville**. 2006. Polymorphic microsatellite markers in the painted dragon lizard, *Ctenophorus pictus*. *Molecular Ecology Notes* 6: 194-196.
- Rose, R. J., and J. **Melville**. 2006. A New Technique for Measuring Body Color of Small Lizards in the Field. *Herpetological Review* 37 (2): 191-194.
- Rose, R. J., J. Ng and J. **Melville**. 2006. A New Technique for Measuring Lizards in the Field. *Herpetological Review* 37 (2): 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.
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- 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.
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- 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.

#### Non peer-reviewed articles

##### ***Popular science articles***

- Melville, J. 2005. Venomous Venture. *Museum Victoria Magazine*: Winter 2005.

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

***Book Chapters***

Melville, J. 2006. Frogs (Ch. 14); Freshwater turtles (Ch. 15); Lizards (Ch. 16); Snakes (Ch. 17). In: *Wildlife of Melbourne*, Museum Victoria Press, Melbourne.