

Nathan McIntyre

BSc Hons

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Summary

Previous molecular studies of *Cracticus tibicen* have identified distinct genetic divergences between eastern and western populations, as well as between Tasmanian and mainland populations. While we know a little about the genetic structure and gene flow among magpie populations, their demographic history has not been examined in any detail. With the advent of next-generation sequencing technology, it is possible to obtain high-resolution genomic data that can be used to obtain more accurate estimates of the timing of population divergences and expansion events. By studying the demographic history of a widespread species like *C. tibicen*, we may obtain insight into the effect of Pleistocene arid cycles on Australian biota.

Research Expertise

- Population Genetics
- Molecular Ecology