

Collaborative conservation genetics of cryptic reptile taxa from Northern Australia

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Project Description:

This project was part of a broader cross-cultural collaborative project: Warrakan'puy Djäma; towards a biocultural approach to conservation.

Here we apply collaborative sampling and genetic techniques with Indigenous rangers across poorly sampled East Arnhem Land to identify the species and lineages across three cryptic reptile genera. Using a reduced representation DNA sequencing approach, we identified 13 species within *Carlia*, *Ctenotus* and *Diporiphora* genera. We provide fine scale species distribution data, including 243 new records across 93 new locations and some range extensions to aid future collaborative surveys. We also provide evidence for a landscape barrier driving local population structure and genetic differentiation across *C. amax*, *C. munda*, *Ct. quirinus* and *D. bilineata*.

Project Notices



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