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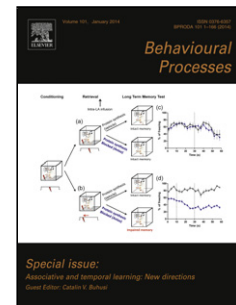
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Highlights

- Behavioural responses to repeated trials in captivity can be driven by many factors including rearing environment, population of origin, habituation to captivity/trial conditions and an individual's behavioural type (e.g., bold versus shy).
- We tested the effect of rearing environment and population origin (range-edge versus range front) on responses to repeated behavioural trials in invasive cane toads (*Rhinella marina*).
- Responses to repeated exposure to identical behavioural trials were complex and unpredictable.

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