

[10.1071/MF21302](https://doi.org/10.1071/MF21302)

Marine and Freshwater Research

Supplementary Material

Do opposites attack? Resource interactions between an alien and native crayfish from the Lake Eyre Basin Georgia King^{A,*}

Georgia King^{A,}, Stephen Balcombe^A, Samantha Capon^A and Bernie Cockayne^B*

^AAustralian Rivers Institute, Griffith University, Nathan, Qld 4111, Australia.

^BReef Catchments, Suite 1/85 Gordon Street, Mackay, Qld 4740, Australia.

*Correspondence to: Georgia King Australian Rivers Institute, Griffith University, Nathan, Qld 4111, Australia Email: georgia.king2@griffithuni.edu.au

Inter-specific analysis results

Table S1. Wilcoxon signed-rank test results of the inter-specific variables of dominance score and time spent with resource.

| | z-score | P-value |
|--------------------------|---------|---------|
| Dominance score | 2.276 | 0.023 |
| Time spent with resource | -1.334 | 0.182 |

Table S2. Paired t-test results of the inter-specific variable of behavioural intensity score.

| | z-score | P-value |
|-----------------------------|---------|---------|
| Behavioural intensity score | 4.723 | < 0.001 |

Table S3. Wilcoxon signed-rank test results of agonistic behaviour breakdown

| | z-score | P-value |
|-------------------------|---------|---------|
| Tail flip | -2.527 | 0.012 |
| Retreat | -2.083 | 0.037 |
| Ignore | -2.032 | 0.042 |
| Non-aggressive approach | -1.295 | 0.195 |
| Aggressive approach | -2.515 | 0.012 |
| Cheliped punch | -2.680 | 0.007 |
| Active strike | -2.955 | 0.003 |

Table S4. Table of individual crayfish pair id (inter, inter-specific pair; intra, intra-specific pair) sex (f, female; m, male), species (red, *C. quadricarinatus*; blue, *C. destructor*), size (OCL, mm) and comments

| Pair ID | Species | Size (OCL) (mm) | Sex | Comments |
|----------|---------|--------------------|-----|------------------------------|
| Inter 1 | Red | 40 | f | |
| Inter 2 | Red | 23 | f | |
| Inter 3 | Red | 24 | f | |
| Inter 4 | Red | 27 | f | |
| Inter 5 | Red | 28 | f | |
| Inter 6 | Red | 28 | f | |
| Inter 7 | Red | 28 | f | |
| Inter 8 | Red | 25 | m | |
| Inter 9 | Red | 25 | m | Shed 1/8/19 - pair excluded |
| Inter 10 | Red | 27 | m | Dead 20/8/19 - pair excluded |
| Inter 11 | Red | 27 | m | |
| Inter 12 | Red | 28 | m | |
| Inter 13 | Red | 28 | m | Sick 29/9/19 - pair excluded |
| Inter 14 | Red | 30 | m | |
| Inter 15 | Red | 27 | m | |
| Inter 16 | Red | 26 | f | |
| Inter 17 | Red | 24 | m | |
| Inter 18 | Red | 30 | f | |
| Inter 1 | Blue | 40 | f | |
| Inter 2 | Blue | 23 | f | shed 1/8/19 - pair excluded |
| Inter 3 | Blue | 25 | f | |
| Inter 4 | Blue | 27 | f | dead 18/8/19 - pair excluded |
| Inter 5 | Blue | 28 | f | |
| Inter 6 | Blue | 28 | f | shed 14/8/19 - pair excluded |
| Inter 7 | Blue | 29 | f | |
| Inter 8 | Blue | 26 | m | |
| Inter 9 | Blue | 25 | m | |
| Inter 10 | Blue | 27 | m | |
| Inter 11 | Blue | 26 | m | |
| Inter 12 | Blue | 27 | m | |
| Inter 13 | Blue | 29 | m | |
| Inter 14 | Blue | 31 | m | |

| Pair ID | Species | Size (OCL) (mm) | Sex | Comments |
|----------|---------|--------------------|-----|----------|
| Inter 15 | Blue | 28 | m | |
| Inter 16 | Blue | 26 | f | |
| Inter 17 | Blue | 24 | m | |
| Inter 18 | Blue | 30 | f | |
| Intra 1 | Blue | 23 | m | |
| Intra 2 | Blue | 28 | f | |
| Intra 3 | Blue | 28 | m | |
| Intra 4 | Blue | 30 | f | |
| Intra 5 | Blue | 25 | m | |
| Intra 6 | Blue | 32 | f | |
| Intra 7 | Red | 26 | f | |
| Intra 8 | Red | 26 | m | |
| Intra 9 | Red | 28 | m | |
| Intra 10 | Red | 28 | f | |
| Intra 11 | Red | 27 | m | |
| Intra 12 | Red | 25 | f | |
| Intra 1 | Blue | 23 | m | |
| Intra 2 | Blue | 28 | f | |
| Intra 3 | Blue | 28 | m | |
| Intra 4 | Blue | 30 | f | |
| Intra 5 | Blue | 25 | m | |
| Intra 6 | Blue | 32 | f | |
| Intra 7 | Red | 26 | f | |
| Intra 8 | Red | 26 | m | |
| Intra 9 | Red | 28 | m | |
| Intra 10 | Red | 28 | f | |
| Intra 11 | Red | 27 | m | |
| Intra 12 | Red | 25 | f | |