

## SUPPORTING INFORMATION

### The combined role of dispersal and niche evolution in the diversification of Neotropical lizards

#### SUPPORTING TABLES

**Table S2. Primers used for amplification and sequencing of the six loci used in this study.** Each primer presented contains the source of origin and the annealing temperature (T) in degrees Celsius (° C).

| Locus        | Primers  | Source                                       | T  |
|--------------|--|--|----|
| cyt <i>b</i> | IgCytb_F2 5' CCA CCG TTG TTA TTC AAC TAC 3'<br>CB3-H 5' GGC AAA TAG GAA RTA TCA TTC 3'                 | Palumbi et al., (1991)                       | 46 |
| 16S          | 16SL 5' CGC CTG TTT ATC AAA AAC AT 3'<br>16SH 5' CCG GTC TGA ACT CAG ATC ACG T 3'                      | Palumbi et al., (1991)                       | 54 |
| SNCAIP       | SNCAIP_F10 5' CGC CAG YTG YTG GGR AAR GAW AT 3'<br>SNCAIP_R13 5' GGW GAY TTG AGD GCA CTC TTR GGR CT 3' | Townsend et al., (2008)                      | 57 |
| DNH3         | DNH3_f1 5' GGT AAA ATG ATA GAA GAY TAC TG-3'<br>DNH3_r6 5' CTK GAG TTR GAH ACA ATK ATG CCAT 3'         | Townsend et al., (2008)                      | 54 |
| RP40         | RP40f 5' ATG TGG TGG ATG YTG GCT CGT 3'<br>RP40r 5' GCT TCT CAG CWG CRG CCT GC 3'                      | Tod Reeder, from Oliveira et al., (2015)     | 57 |
| R35          | R35f 5' CCA GTG AGC ATG ATA TGGG 3'<br>R35r 5' GTT TCT GAC CAA AYT CCA CAGT 3'                         | Frank Burbrink, from Oliveira et al., (2015) | 50 |

7 The final volume used for 15 µL, containing: 6,7 µL of ddH<sub>2</sub>O; 1,5 µL of MgCl<sub>2</sub> (25mM); 1,5 µL dNTP (10 mM); 2 µL 10X Buffer  
8 (100mM Tris-HCl, 500mM KCl); 1 µL F primer (10 µM); 1 µL R primer (10 µM); 0,3 µL of Taq DNA Polimerase (5 U/µl) e 1µl de of the  
9 genomic DNA.

10

## 11 REFERENCES

- 12 Palumbi, S., Martin, A., Romano, S., McMillan, W., Stick, L. and Grabowski, G. (1991): The Single Tools Guide to PCR. Marine Version  
13 Honolulu, Hawaii
- 14 Oliveira, E. F., M. Gehara, V. a São-Pedro, X. Chen, E. a Myers, F. T. Burbrink, D. O. Mesquita, A. a Garda, G. R. Colli, M. T. Rodrigues,  
15 F. J. Arias, H. Zaher, R. M. L. Santos, and G. C. Costa. 2015. Speciation with gene flow in whiptail lizards from a Neotropical xeric  
16 biome. Mol. Ecol. 24:5957–75.
- 17 Townsend, T. M., Alegre, R. E., Kelley, S. T., Wiens, J. J. and Reeder, T. W. (2008). Rapid developmental of multiple nuclear loci for  
18 phylogenetic analysis using genomic resources: an example from squamate reptiles. Molecular Phylogenetics and Evolution, 47, 129–  
19 142.