

**Supplementary Material to “Cytogenetic and genetic data support *Crossodactylus aeneus* Müller, 1924 as a new junior synonym of *C. gaudichaudii* Duméril and Bibron, 1841 (Amphibia, Anura)”**

**Table S2** - Specimens included in our analysis. Their localities and identification (ID) numbers, and GenBank numbers of their DNA sequences are indicated. **ZUEC:** Museum of Zoology “Professor Adão José Cardoso” of the University of Campinas, **SMRP:** Shirlei Maria Recco-Pimentel tissue collection, University of Campinas.

<b>Species</b>	<b>Family</b>	<b>Locality</b>	<b>ID number</b>	<b>GenBank</b>	<b>Citation</b>
<i>Crossodactylus gaudichaudii</i>	Hylodidae	Parque Lage, Rio de Janeiro, Rio de Janeiro, Brazil	ZUEC 17569 SMRP 186.4	MT893617	This work
<i>Crossodactylus gaudichaudii</i>	Hylodidae	Parque Lage, Rio de Janeiro, Rio de Janeiro, Brazil	ZUEC 17570 SMRP 186.5	MT893618	This work
<i>Crossodactylus gaudichaudii</i>	Hylodidae	Parque Lage, Rio de Janeiro, Rio de Janeiro, Brazil	ZUEC 17571 SMRP 186.6	MT893619	This work
<i>Crossodactylus aeneus</i>	Hylodidae	Parque Municipal do Taquara, Duque de Caxias, Rio de Janeiro, Brazil	ZUEC 17578 SMRP 374.1	MT893620	This work
<i>Crossodactylus aeneus</i>	Hylodidae	Parque Municipal do Taquara, Duque de Caxias, Rio de Janeiro, Brazil	ZUEC 17579 SMRP 374.2	MT893621	This work
<i>Crossodactylus aeneus</i>	Hylodidae	Parque Municipal do Taquara, Duque de Caxias, Rio de Janeiro, Brazil	ZUEC 17580 SMRP 374.3	MT893622	This work
<i>Crossodactylus aeneus</i>	Hylodidae	Barreira, Guapimirim, Rio de Janeiro, Brazil	ZUEC 20459 SMRP 374.12	MT893623	This work

Species	Family	Locality	ID number	GenBank	Citation
<i>Crossodactylus aeneus</i>	Hylodidae	Cachoeiras de Macacu, Rio de Janeiro, Brazil	vnbj99	Not deposited	Amaral et al. (2019)
<i>Crossodactylus aeneus</i>	Hylodidae	Cachoeiras de Macacu, Rio de Janeiro, Brazil	vbj100	Not deposited	Amaral et al. (2019)
<i>Crossodactylus aeneus</i>	Hylodidae	Cachoeiras de Macacu, Rio de Janeiro, Brazil	-	KM390791	Chaves et al. (Unpublished)
<i>Crossodactylus schmidti</i>	Hylodidae	Aristobulo del Valle, Misiones, Argentina	-	HQ290948	Santos and Cannatella (2011)
<i>Crossodactylus schmidti</i>	Hylodidae	Aristobulo del Valle, Misiones, Argentina	-	AY843579	Faivovich et al. (2005)
<i>Megaelosia goeldii</i>	Hylodidae	Rio Beija Flor, Teresópolis, Rio de Janeiro, Brazil	-	DQ283072	Frost et al., (2006)
<i>Hylodes phylodes</i>	Hylodidae	Picinguaba, Ubatuba, São Paulo, Brazil	-	DQ283096	Frost et al., (2006)
<i>Eupsophus roseus</i> (outgroup)	Alsodidae	Huiliches, Neuquen, Argentina	-	JX204217	Blotto et al. (2012)
<i>Eupsophus emiliopugini</i> (outgroup)	Alsodidae	La Picada, Chile	-	JX204205	Blotto et al. (2012)
<i>Eupsophus septentrionlis</i> (outgroup)	Alsodidae	Los Queules, Chile	-	JX204218	Blotto et al. (2012)
<i>Eupsophus vertebralis</i> (outgroup)	Alsodidae	Queule, Chile	-	JX204220	Blotto et al. (2012)
<i>Eupsophus calcaratus</i> (outgroup)	Alsodidae	Chiloe, Chile	-	JX204200	Blotto et al. (2012)

<b>Species</b>	<b>Family</b>	<b>Locality</b>	<b>ID number</b>	<b>GenBank</b>	<b>Citation</b>
<i>Eupsophus migueli</i> (outgroup)	Alsodidae	Mehuín, Chile	-	JX204209	Blotto et al. (2012)
<i>Eupsophus insularis</i> (outgroup)	Alsodidae	Isla Mocha, Chile	-	JX204207	Blotto et al. (2012)
<i>Eupsophus nahuelbutensis</i> (outgroup)	Alsodidae	Piedra del Águila, Chile	-	JX204212	Blotto et al. (2012)
<i>Alsodes vanzolinii</i> (outgroup)	Alsodidae	Ramadillas, Chile	-	JX204189	Blotto et al. (2012)
<i>Alsodes verrucosus</i> (outgroup)	Alsodidae	Puyehue, Chile	-	JX204192	Blotto et al. (2012)
<i>Alsodes neuquensis</i> (outgroup)	Alsodidae	Alumine, Neuquén, Argentina	-	JX204173	Blotto et al. (2012)
<i>Alsodes nodosus</i> (outgroup)	Alsodidae	Valparaíso, Petorca, Zapallar, Chile	-	JX204174	Blotto et al. (2012)
<i>Alsodes valdiviensis</i> (outgroup)	Alsodidae	Cordillera Pelada, Chile	-	JX204187	Blotto et al. (2012)
<i>Alsodes gargola</i> (outgroup)	Alsodidae	Futaleufú, Chile	-	JX204165	Blotto et al. (2012)
<i>Alsodes pehuenche</i> (outgroup)	Alsodidae	Mendoza, Valle Pehuenche, Argentina	-	JX204177	Blotto et al. (2012)
<i>Alsodes barrioi</i> (outgroup)	Alsodidae	Rucapehuen, Chile	-	JX204154	Blotto et al. (2012)
<i>Alsodes tumutuosus</i> (outgroup)	Alsodidae	Región Metropolitana, Santiago, La Parva, Chile	-	JX204185	Blotto et al. (2012)

## References

- Amaral C, Chaves A, Borges JV, Pereira F, Silva BM, Silva DA, Amorim A, Carvalho EF and Rocha C (2019) Amphibians on the hotspot: Molecular biology and conservation in the South American Atlantic Rainforest. PLoS One 14:e0224320.
- Blotto BL, Nuñez JJ, Basso NG, Úbeda CA, Wheeler WC and Faivovich J (2013) Phylogenetic relationships of a Patagonian frog radiation, the *Alsodes* + *Eupsophus* clade (Anura: Alsodidae), with comments on the supposed para-phyly of *Eupsophus*. Cladistics 29:113-131.
- Faivovich J, Haddad CFB, Garcia PCA, Frost DR, Campbell JA and Wheeler W (2005) Systematic review of the frog family Hylidae, with special reference Hylinae: Phylogenetic analysis and taxonomic revision. Bull Am Mus Nat Hist 294:1-240.
- Frost DR, Grant T, Faivovich J, Bain RH, Haas A, Haddad CFB, Sá RO, Channing A, Wilkinson M, Donnellan SC *et al.* (2006) The Amphibian Tree of Life. Bull Am Mus Nat Hist 297:1-291.
- Santos JC and Cannatella DC (2011) Phenotypic integration emerges from aposematism and scale in poison frogs. PNAS 108:6175-6180.