

## Supplementary Information

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## Appendix S1

### GenBank accession numbers (16S)

GenBank accession numbers (GBAN) of specimens used for genetic analyses with 16S mitochondrial gene for each voucher (institutional acronyms follow Sabaj Pérez, 2014).

Specimen indicated with <sup>1</sup> is currently BYU 47941.

Country	Specimen	GBAN
	LJAMM-CNP 5047 <sup>1</sup>	MF278828
Argentina	LJAMM-CNP 10495	MF278829
	LJAMM-CNP 10576	MF278830
	MNHNP 11873	MF278831
Paraguay	MNHNP 12238	MF278832
	SMF 101984	MF278833

## Appendix S2

### Localities of specimens used for genetic analyses

Codes for countries are: ARG (Argentina), BRA (Brazil), CHI (Chile), PAR (Paraguay), and PER (Peru). Locality information is provided from the major political division of the country to the most specific location data. References to routes are RP (Provincial Route) and RN (National Route). Elevation is given in meters above sea level. Coordinates given with only one decimal are approximately, in which case elevation is not provided. Species treated as “*Homonota* sp. A” and “*Homonota* sp. B” were formerly referred as *H. fasciata*. Specimens with superindexes (<sup>1-3</sup>) are currently in BYU: 1- BYU 47960, 2- BYU 47941, 3- 47931.

Species	Voucher	Country	Specific locality	Lat/Long	Elevation
<i>H. andicola</i>	LJAMM-CNP 12490	ARG	Mendoza, Las Heras, RP 39, 3 km S from limit San Juan-Mendoza	-32.098°, -69.371°	2231
	LJAMM-CNP 12493	ARG	Mendoza, Las Heras, RP 39, 3 km S from limit San Juan-Mendoza	-32.098°, -69.371°	2231
	LJAMM-CNP 12494	ARG	Mendoza, Las Heras, RP 39, 3 km S from limit San Juan-Mendoza	-32.098°, -69.371°	2231
	LJAMM-CNP 12495	ARG	Mendoza, Las Heras, RP 39, 3 km S from limit San Juan-Mendoza	-32.098°, -69.371°	2231
<i>H. borellii</i>	LJAMM-CNP 5842 <sup>1</sup>	ARG	La Rioja, Anillaco	-28.814°, -66.933°	1362
	LJAMM-CNP 12116	ARG	Santiago del Estero, Ojo de Agua, Sierra de Ambargasta	-29.249°, -63.920°	314
	LJAMM-CNP 12125	ARG	Santiago del Estero, Ojo de Agua, Sierra de Ambargasta	-29.249°, -63.920°	314
<i>H. darwini</i>	LJAMM-CNP 9266	ARG	Santa Cruz, RP 45, E of Estancia El Cerrito	-46.263°, -71.378°	640
	LJAMM-CNP 9813	ARG	Santa Cruz, 4 km NE of Puerto Deseado	-47.715°, -65.839°	16
	LJAMM-CNP 10638	ARG	Santa Cruz, RP 77, ~500 m from detour to Estancia La María	-48.498°, -68.864°	214
	LJAMM-CNP 11424	ARG	Santa Cruz, RN 3, 5 km N of Estancia El Rancho	-46.781°, -67.354°	266
	LJAMM-CNP 11432	ARG	Santa Cruz, NR 3, 12 km S of detour to Cerro Vanguardia	-48.512°, -67.731°	85
<i>Homonota</i> sp. A	LJAMM-CNP 5047 <sup>2</sup>	ARG	Mendoza, RP 190, 2 km S (on road) from Punta del Agua	-35.538°, -68.080°	795
	LJAMM-CNP 10495	ARG	Mendoza, RP 190, 2 km S (on road) from Punta del Agua	-35.538°, -68.080°	795
	LJAMM-CNP 10505	ARG	La Pampa, RP 27, 4 km N of intersection with RP 14	-36.668°, -68.022°	767

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Cacciali P, Morando M, Medina CD, Köhler G, Motte M, Avila LJ - PeerJ 5:e3523; DOI 10.7717/peerj.3523

Species	Voucher	Country	Specific locality	Lat/Long	Elevation
	LJAMM-CNP 10528	ARG	La Pampa, RP 16, 23 km W of intersection with RN 151	-37.075°, -67.785°	538
	LJAMM-CNP 10576	ARG	Mendoza, Secondary road 88 m from RP 190, 2.3 km S (on road) from Punta del Agua	-35.541°, -68.079°	786
	LJAMM-CNP 10577	ARG	Mendoza, Secondary road 88 m from RP 190, 2.3 km S (on road) from Punta del Agua	-35.541°, -68.079°	786
	LJAMM-CNP 12415	ARG	Neuquén, Secondary road, 80 m from RP 7, 13 km NW of Añelo	-38.264°, -68.891°	477
	MNHNP 11406	PAR	Boquerón, Parque Nacional Teniente Enciso	-21.209°, -61.655°	253
	MNHNP 11409	PAR	Boquerón, Parque Nacional Teniente Enciso	-21.209°, -61.655°	253
<i>Homonota</i> sp. B	MNHNP 11873	PAR	Boquerón, Cruce San Miguel, in front to Parque Nacional Teniente Enciso	-21.203°, -61.662°	254
	MNHNP 12238	PAR	Boquerón, Fortín Mayor Infante Rivarola	-21.679°, -62.401°	277
	SMF 101984	PAR	Boquerón, Fortín Mayor Infante Rivarola	-21.679°, -62.401°	277
<i>H. rupicola</i>	RUPI-1	PAR	Cordillera, Cerro Pedregal	-25.515°, -57.042°	288
	RUPI-2	PAR	Cordillera, Cerro Pedregal	-25.515°, -57.042°	288
<i>H. taragui</i>	LJAMM-CNP 14419	ARG	Corrientes, Paraje Tres Cerros, Cerro Capará	-29.112°, -56.919°	147
	LJAMM-CNP 14420	ARG	Corrientes, Paraje Tres Cerros, Cerro Capará	-29.112°, -56.919°	147
<i>H. underwoodi</i>	LJAMM-CNP 10923	ARG	San Juan, Baños del Salado, 5 km N of Baños de la Laja	-31.313°, -68.446°	641
	LJAMM-CNP 10931	ARG	San Juan, 5.5 km E of Caucete	-31.662°, -68.209°	580
	UFRGS 1568	BRA	Rio Grande do Sul, Rosário do Sul	-30.2°, -54.9°	
	UFRGS 2139	BRA	Rio Grande do Sul, Rosário do Sul	-30.2°, -54.9°	
<i>H. uruguayensis</i>	UFRGS 2140	BRA	Rio Grande do Sul, Rosário do Sul	-30.2°, -54.9°	
	UFRGS 2579	BRA	Rio Grande do Sul, Rosário do Sul	-30.2°, -54.9°	
	UFRGS 2580	BRA	Rio Grande do Sul, Rosário do Sul	-30.2°, -54.9°	
	UFRGS 3929	BRA	Rio Grande do Sul, Rosário do Sul	-30.2°, -54.9°	
<i>H. whitii</i>	LJAMM-CNP 12110	ARG	Catamarca, W of Animán	-29.358°, -63.949°	410
	LJAMM-CNP 12111	ARG	Catamarca, W of Animán		

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Species	Voucher	Country	Specific locality	Lat/Long	Elevation
	LJAMM-CNP 14387	ARG	Córdoba, Tulumba, RP 18, 9.5 km N of intersection with RP 16	-30.332°, -64.207°	907
	LJAMM-CNP 14388	ARG	Córdoba, Tulumba, RP 18, 9.5 km N of intersection with RP 16	-30.332°, -64.207°	907
<i>H. williamsii</i>	LJAMM-CNP 4467 <sup>3</sup>	ARG	Buenos Aires, Tornquist, Parque Provincial Ernesto Tornquist	-38.055°, -62.014°	822
	LJAMM-CNP 6517	ARG	Buenos Aires, Tornquist, Parque Provincial Ernesto Tornquist	-38.136°, -61.986°	589
	LJAMM-CNP 6518	ARG	Buenos Aires, Tornquist, Parque Provincial Ernesto Tornquist	-38.136°, -61.986°	589
<i>Garthia</i>	IBE-G1(1)	CHI	Unknown locality		
<i>gaudichaudi</i>	IBE-G1(2)	CHI	Unknown locality		
<i>Gymnodactylus</i>	LG 911	BRA	Alagoas, Xingo		
<i>geckoides</i>	LG 1050	BRA	Sergipe, Barra dos Coqueiros	-10.9°, -37.0°	
<i>Phyllodactylus</i>	TG 266	PER	Chongoyape, Lambayeque	-6.7°, -79.9°	
<i>kofordi</i>					
<i>Phyllopezus</i>	CHUNB 57388	BRA	Ceara, Tianguá	-3.7°, -40.9°	
<i>pollicaris</i>					
<i>Phyllopezus</i>	LJAMM-CNP 12089	ARG	Chaco, Fuerte Esperanza	-25.160°, -61.844°	169
<i>przewalskii</i>					

### Appendix S3

#### GenBank accession numbers (multi-genes)

GenBank accession numbers for each gene, and numbers of new sequences highlighted in bold. MD indicates missing data. Specimens with superindexes (<sup>1-3</sup>) are currently in BYU: 1- BYU 47960, 2- BYU 47941, 3- 47931.

Species	Voucher	ANL-19b	ANL-30b	RBMX	NKTR	SINCAIP	MXRA5	ACA4	DMXL1	PRLR	12S	Cytb
<i>H. andicola</i>	LJAMM-CNP 12490	KJ484255	KJ484235	KJ484346	KJ484394	KJ484369	KJ484348	KJ484324	KJ484298	KJ484274	MD	MD
	LJAMM-CNP 12493	MD	MD	MD	MD	MD	MD	MD	MD	MD	KJ484211	KJ484188
	LJAMM-CNP 12494	MD	MD	MD	MD	MD	MD	KJ484325	MD	MD	MD	MD
	LJAMM-CNP 12495	KJ484256	KJ484236	KJ484347	KJ484395	MD	KJ484349	MD	KJ484299	KJ484275	KJ484212	KJ484189
<i>H. borellii</i>	LJAMM-CNP 5842 <sup>1</sup>	MD	MD	MD	MD	KJ484370	MD	MD	MD	MD	MD	MD
	LJAMM-CNP 12116	KJ484257	KJ484237	KJ484411	KJ484396	MD	KJ484350	KJ484326	KJ484300	KJ484276	KJ484213	KJ484205
	LJAMM-CNP 12125	KJ484258	KJ484238	KJ484412	KJ484397	KJ484393	KJ484351	KJ484327	KJ484301	KJ484277	KJ484214	KJ484206
<i>H. darwinii</i>	LJAMM-CNP 9266	KJ484260	KJ484240	KJ484414	KJ484409	KJ484372	KJ484352	KJ484329	KJ484303	MD	MD	KJ484191
	LJAMM-CNP 9813	MD	MD	MD	MD	MD	MD	MD	MD	KJ484278	MD	MD
	LJAMM-CNP 10638	MD	MD	MD	MD	MD	MD	MD	MD	KJ484295	MD	MD
	LJAMM-CNP 11424	MD	KJ484239	KJ484413	KJ484408	KJ484371	KJ484367	KJ484328	KJ484302	MD	KJ484215	KJ484190
	LJAMM-CNP 11432	KJ484259	MD	MD	MD	MD	MD	MD	MD	MD	KJ484216	MD
<i>Homonota</i> sp. A	LJAMM-CNP 5047 <sup>2</sup>	KJ484262	KJ484242	KJ484416	MD	KJ484374	KJ484354	MD	KJ484305	KJ484280	KJ484218	KJ484192
	LJAMM-CNP 10505	MD	MD	MD	MD	KJ484373	MD	KJ484330	MD	MD	MD	MD
	LJAMM-CNP 10528	MD	MD	MD	KJ484399	MD	MD	KJ484331	MD	MD	MD	MD
	LJAMM-CNP 10577	KJ484261	KJ484241	KJ484415	KJ484398	MD	KJ484353	MD	KJ484304	MD	KJ484217	KJ484208
	LJAMM-CNP 12415	MD	MD	MD	MD	MD	MD	MD	MD	KJ484279	MD	MD

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Species	Voucher	ANL-19b	ANL-30b	RBMX	NKTR	SINCAIP	MXRA5	ACA4	DMXL1	PRLR	12S	Cytb
<i>Homonota</i> sp. B	MNHNP 11406	MF278837	MF278839	MF278851	MF278847	MF278853	MF278845	MF278841	MD	MF278849	MF278835	MF278843
	MNHNP 11409	MF278838	MF278840	MF278852	MF278848	MF278854	MF278846	MF278842	MF535517	MF278850	MF278836	MF278844
<i>H. rupicola</i>	RUPI-1	KJ484263	KJ484243	KJ484426	MD	KJ484375	MD	MD	KJ484306	KJ484281	KJ484219	KJ484193
	RUPI-2	KJ484264	KJ484244	KJ484427	KJ484410	KJ484376	MD	MD	KJ484320	KJ484282	KJ484220	KJ484194
<i>H. taragui</i>	LJAMM-CNP 14419	KJ484265	KJ484245	KJ484428	MD	KJ484377	MD	KJ484332	KJ484321	KJ484283	KJ484221	KJ484195
	LJAMM-CNP 14420	KJ484266	KJ484246	KJ484429	KJ484400	KJ484378	MD	KJ484333	KJ484322	KJ484284	KJ484222	KJ484196
<i>H. underwoodi</i>	LJAMM-CNP 10923	KJ484269	KJ484249	MD	KJ484402	KJ484381	KJ484356	KJ484335	KJ484308	KJ484286	MD	KJ484197
	LJAMM-CNP 10931	KJ484270	KJ484250	MD	KJ484403	KJ484382	KJ484357	MD	KJ484309	KJ484297	MD	KJ484198
<i>H. uruguayensis</i>	UFRGS 1568	KJ484267	KJ484247	KJ484430	KJ484401	KJ484381	KJ484358	KJ484334	KJ484307	KJ484285	KJ484223	MD
	UFRGS 2139	MD	MD	MD	MD	KJ484382	MD	MD	MD	KJ484296	MD	MD
	UFRGS 2140	MD	MD	MD	MD	MD	MD	MD	MD	MD	KJ484224	MD
	UFRGS 2579	KJ484268	KJ484248	KJ484359	MD	MD	MD	MD	MD	MD	MD	MD
	UFRGS 2580	MD	MD	MD	MD	MD	MD	MD	MD	MD	MD	KJ484202
	UFRGS 3929	MD	MD	MD	MD	MD	MD	MD	KJ484323	MD	MD	MD
<i>H. whitii</i>	LJAMM-CNP 12110	MD	KJ484251	KJ484360	MD	KJ484383	KJ484359	KJ484336	MD	MD	MD	MD
	LJAMM-CNP 12111	KJ484271	MD	MD	MD	MD	KJ484360	KJ484337	MD	MD	MD	MD
	LJAMM-CNP 14387	MD	MD	MD	KJ484404	MD	MD	MD	KJ484310	MD	KJ484225	KJ484203
	LJAMM-CNP 14388	MD	KJ484252	KJ484432	KJ484405	KJ484384	MD	MD	KJ484311	MD	KJ484226	KJ484204
<i>H. williamsii</i>	LJAMM-CNP 4467 <sup>3</sup>	KJ484272	KJ484253	KJ484417	MD	KJ484385	KJ484360	KJ484338	KJ484312	KJ484287	KJ484227	KJ484205
	LJAMM-CNP 6517	KJ484273	KJ484254	KJ484418	KJ484407	KJ484386	KJ484361	KJ484339	KJ484313	KJ484288	KJ484228	KJ484206
	LJAMM-CNP 6518	MD	MD	MD	KJ484406	MD	MD	MD	MD	MD	MD	MD
<i>Garthia</i>	IBE-G1(1)	MD	MD	KJ484419	MD	KJ484387	KJ484362	MD	KJ484314	KJ484289	KJ484229	MD
<i>gaudichaudi</i>	IBE-G1(2)	MD	MD	KJ484420	MD	MD	MD	KJ484340	MD	MD	KJ484230	MD
<i>Gymnodactylus</i>	LG 911	MD	MD	KJ484421	MD	KJ484389	KJ484364	KJ484342	KJ484316	KJ484291	KJ484232	KJ484210
	<i>geckoides</i>	LG 1050	MD	MD	KJ484431	MD	KJ484388	KJ484363	KJ484341	KJ484315	KJ484290	KJ484231

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Species	Voucher	ANL-19b	ANL-30b	RBMX	NKTR	SINCAIP	MXRA5	ACA4	DMXL1	PRLR	12S	Cytb
<i>Phyllodactylus kofordi</i>	TG 266	MD	MD	KJ484422	MD	KJ484390	KJ484368	KJ484343	KJ484317	KJ484292	KJ484233	KJ484207
<i>Phyllopezus pollicaris</i>	CHUNB 57388	MD	MD	KJ484424	MD	KJ484392	KJ484366	KJ484345	KJ484319	KJ484294	KJ484234	KJ484204
<i>Phyllopezus przewalskii</i>	LJAMM-CNP 12089	MD	MD	KJ484423	MD	KJ484391	KJ484365	MD	KJ484318	KJ484293	MD	KJ484203



### Appendix S4

#### Primers used for genetic analyses

Primers' sequences for each gene, used for analyses. For every primer we indicate the author, and the full reference is provided below the table. We maintain the original name of the primers, providing an indication for forward (F) and reverse (R) primers in square brackets when not specified in the original name.

Gene	Primer	Sequence (5' -> 3')	Author
16S	L2510 [F]	GCCTGTTTAACAAAAACAT	Miya & Nishida 1996
	H3056 [R]	CGGTCTG AACTCAGATCACGT	Miya & Nishida 1996
12S	tPhe [F]	AGCACRGCCTGA	Wiens et al. 1999
	12e [R]	RCGCTTACCWTGTTAC	Wiens et al. 1999
Cytb	CB3	GGCAAATAGGAARTATCATTC	Palumbi 1996
	CB3R	CATATTAACCCGAATGATAYTT	Palumbi 1996
ANL-19b	Homo19b_F	CCTAAGAAAAGAGAAGGCAATTCA	Morando et al. 2014
	Homo19b_R	TGCATGCTACTCAGATTCCTG	Morando et al. 2014
ANL-30b	Homo30b_F	CAATCCAGTCGAAGGAAGGA	Morando et al. 2014
	Homo30b_R	AAACTTGGTTGGGTGCAGAG	Morando et al. 2014
RBMX	HNRNP1F	CCACGAGATTATGCCTACCG	Gamble et al. 2011
	HNRNP1R	CATCATAKCGACTGCTTCCA	Gamble et al. 2011
	RBMX-F1	TCCTCTTACAGTGAYCGTGATG	Gamble et al. 2011

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	RBMX-R1	TCCCGTAATCATCATAGCGACT	Gamble et al. 2011
NKTR	NTKRf1	AGTAAATGGGAYTCKGARTCAAA	Townsend et al. 2011
	NKTRr3	KCGTGCGYGTCTTYCTWACTTCA	Townsend et al. 2011
SINCAIP	SNCAIP_f10	CGCCAGYTGYYTGGGARGAWAT	Townsend et al. 2008
	SNCAIP_r13	GGWGAYTTGAGDGCCTCTTRGGRCT	Townsend et al. 2008
MXRA5	MXRA5_F1	YATTTTGGCAAARGTCCGTGGGAARA	Portik et al. 2012.
	MXRA5_F2	KGCTGAGCCTKCCTGGGTGA	Portik et al. 2012.
	MXRA5_R1	WTGTGCTGCATATGCTGTWATCTCWGGT	Portik et al. 2012.
	MXRA5_R2	YCTMCGGCCYTCTGCAACATTK	Portik et al. 2012.
ACA4	ACA4 [F]	GAGCGTGGCTAYTCCTTTGT	Waltari & Edwards 2002
	ACA4 [R]	GTGGCCATTTTCATTCTCAA	Waltari & Edwards 2002
DMXL1	DMXL1(F2)	GTCTAGGGAGGATGGTTCACATA	Werneck et al. 2012
	DMXL1(R2)	GAATGAAGCAAGTGACSAGAAAGA	Werneck et al. 2012
PRLR	PRLR_f1	GACARYGARGACCAGCAACTRATGCC	Townsend et al. 2008
	PRLR_r3	GACYTTGTGRACTTCYACRTAATCCAT	Townsend et al. 2008

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## Appendix S5

### Examined specimens for morphology

Specimens used for morphological comparison. Specimens marked with “[H]” and “[P]” indicate holotype and paralectotypes of *Gymnodactylus horridus* respectively. Codes for countries are: ARG (Argentina), BOL (Bolivia), and PAR (Paraguay). Locality information is provided from the major political division of the country to the most specific location data. References to routes are RP (Provincial Route) and RN (National Route). Coordinates given with only one decimal are approximately, in which case elevation is not provided.

Specimen	Country	Specific locality	Lat/Long	Elevation
IZH-R 1 [H]	ARG	Mendoza, Canyons of the Sierra del Challao	-32.9°, -68.9°	
IZH-R 2 [P]	ARG	Mendoza, Canyons of the Sierra del Challao	-32.9°, -68.9°	
IZH-R 3 [P]	ARG	Mendoza, Canyons of the Sierra del Challao	-32.9°, -68.9°	
LJAMM-CNP 6520	ARG	Río Negro, Villa Regina, fosa del tiro federal	-39.096°, -67.051°	214
LJAMM-CNP 6530	ARG	Río Negro, Villa Regina, bardas	-39.092°, -67.076°	261
LJAMM-CNP 6532	ARG	Río Negro, Villa Regina, bardas	-39.092°, -67.076°	261
LJAMM-CNP 6533	ARG	Río Negro, Villa Regina, bardas	-39.092°, -67.076°	261
LJAMM-CNP 6535	ARG	Río Negro, Villa Regina, bardas	-39.092°, -67.076°	261
LJAMM-CNP 6967	ARG	Neuquén, Villa El Chocón, N margin of Limay river	-39.254°, -68.781°	469
LJAMM-CNP 6968	ARG	Neuquén, Villa El Chocón	-39.254°, -68.781°	469

**Taxonomic analysis of Paraguayan samples of *Homonota fasciata* Duméril & Bibron (1836) with the revalidation of *Homonota horrida* Burmeister (1861) (Reptilia: Squamata: Phyllodactylidae) and the description of a new species**

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Specimen	Country	Specific locality	Lat/Long	Elevation
LJAMM-CNP 7670	ARG	Río Negro, Avellaneda, Chimpay	-39.145°, -66.145	157
LJAMM-CNP 7674	ARG	Río Negro, Avellaneda, Chimpay	-39.145°, -66.145	157
LJAMM-CNP 7804	ARG	Neuquén, RP 5, 10 km N from RP 7	-37.906°, -69.174°	555
LJAMM-CNP 8713	ARG	Neuquén, RP 7, 41 km NW Punta Carranza	-37.656°, -69.472°	662
LJAMM-CNP 10493	ARG	Mendoza, RP 190, 1 km S Punta de Agua	-35.541°, -68.079°	789
LJAMM-CNP 10496	ARG	Mendoza, RP 190, 1 km S Punta de Agua	-35.541°, -68.079°	789
LJAMM-CNP 10523	ARG	La Pampa, RP 1, 23.6 km W intersection with RN 151	-37.075°, -67.785°	542
LJAMM-CNP 10526	ARG	La Pampa, RP 1, 23.6 km W intersection with RN 151	-37.075°, -67.785°	542
LJAMM-CNP 10576	ARG	Mendoza, RP 190, 1 km S Punta de Agua	-35.541°, -68.079°	789
LJAMM-CNP 10577	ARG	Mendoza, RP 190, 1 km S Punta de Agua	-35.541°, -68.079°	789
LJAMM-CNP 10578	ARG	La Pampa, RP 27, 37.7 km S intersection with RP 14	-36.668°, -68.022°	766
LJAMM-CNP 10579	ARG	La Pampa, RP 27, 37.7 km S junction with RP 14	-36.668°, -68.022°	766
LJAMM-CNP 10584	ARG	La Pampa, RP 1, 23.6 km W intersection with RN 151	-37.075°, -67.785°	542
LJAMM-CNP 13948	ARG	Neuquén, RN 237, 6 km SW Picun Leufu	-39.555°, -69.301°	431
LJAMM-CNP 14551	ARG	Neuquén, Mina La Casualidad	-37.904°, -68.488°	462
MNHNP 2821	PAR	Boquerón, Parque Nacional Teniente Enciso	-21.209°, -61.655	253

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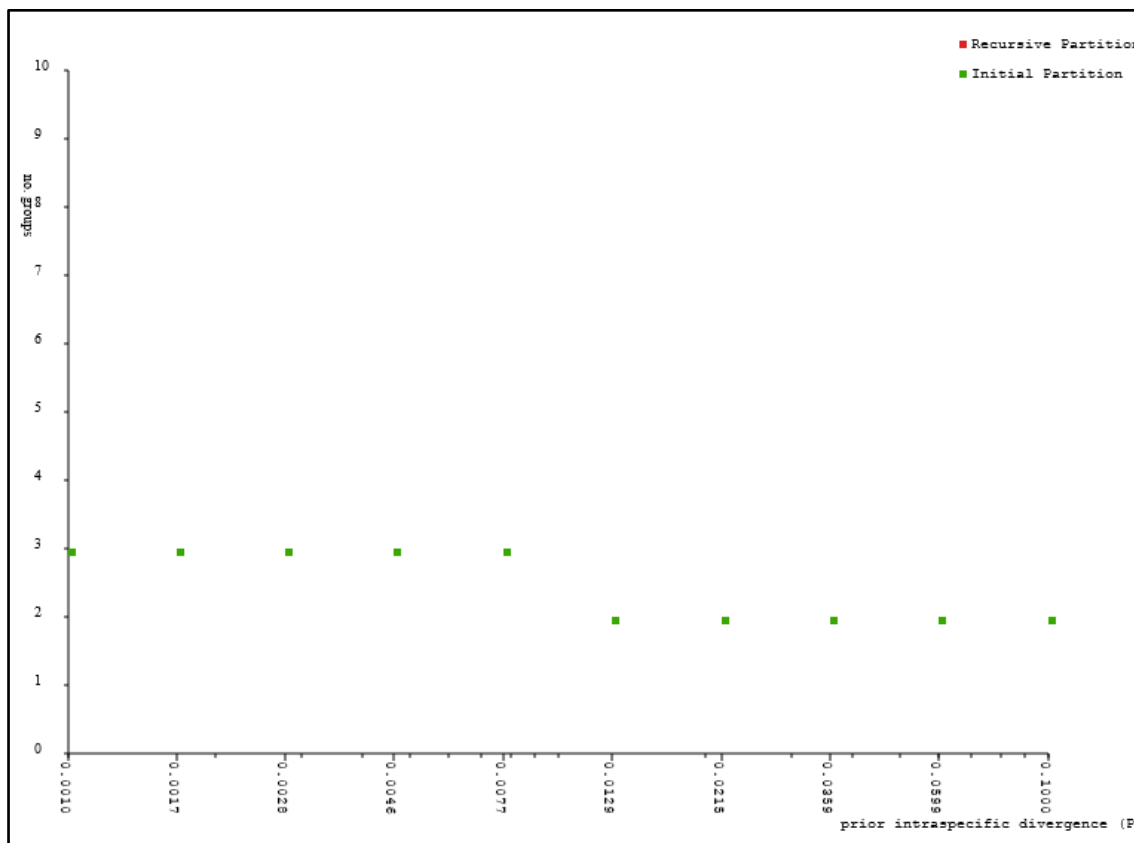
Cacciali P, Morando M, Medina CD, Köhler G, Motte M, Avila LJ - PeerJ 5:e3523; DOI 10.7717/peerj.3523

Specimen	Country	Specific locality	Lat/Long	Elevation
MNHNP 9037	PAR	Boquerón, Parque Nacional Teniente Enciso	-21.209°, -61.655	253
MNHNP 9038	PAR	Boquerón, Parque Nacional Teniente Enciso	-21.209°, -61.655	253
MNHNP 9131	PAR	Boquerón, Parque Nacional Teniente Enciso	-21.209°, -61.655	253
MNHNP 11406	PAR	Boquerón, Parque Nacional Teniente Enciso	-21.209°, -61.655	253
MNHNP 11410	PAR	Boquerón, Parque Nacional Teniente Enciso	-21.209°, -61.655	253
MNHNP 11419	PAR	Boquerón, Parque Nacional Teniente Enciso	-21.209°, -61.655	253
MNHNP 11421	PAR	Boquerón, Parque Nacional Teniente Enciso	-21.209°, -61.655	253
MNHNP 11423	PAR	Boquerón, Parque Nacional Teniente Enciso	-21.209°, -61.655	253
MNHNP 11850	PAR	Boquerón, Cruce San Miguel, in front of Parque Nacional Teniente Enciso	-21.203°, -61.662°	254
MNHNP 11855	PAR	Boquerón, Cruce San Miguel, in front of Parque Nacional Teniente Enciso	-21.203°, -61.662°	254
MNHNP 11860	PAR	Boquerón, Cruce San Miguel, in front of Parque Nacional Teniente Enciso	-21.203°, -61.662°	254
MNHNP 11872	PAR	Boquerón, Cruce San Miguel, in front of Parque Nacional Teniente Enciso	-21.203°, -61.662°	254
MNHNP 12238	PAR	Boquerón, Fortín Mayor Infante Rivarola	-21.679°, -62.401°	277
SMF 29277	BOL	Tarija, Villamontes	-21.266°, -63.451°	398
SMF 101984	PAR	Boquerón, Fortín Mayor Infante Rivarola	-21.679°, -62.401°	277

## Appendix S6

### Results of ABGD analysis

Number of groups according to the prior intraspecific divergence. Color of “Initial Partitions” were modified from original for a better contrast. Under the graphic, is presented the list of partitions with suggested grouping and each maximal intraspecific divergence.



Partition 1 : found 3 groups (prior maximal distance P= 0.001000)

Partition 2 : found 3 groups (prior maximal distance P= 0.001668)

Partition 3 : found 3 groups (prior maximal distance P= 0.002783)

Partition 4 : found 3 groups (prior maximal distance P= 0.004642)

Partition 5 : found 3 groups (prior maximal distance P= 0.007743)

Partition 6 : found 2 groups (prior maximal distance P= 0.012915)

Partition 7 : found 2 groups (prior maximal distance P= 0.021544)

Partition 8 : found 2 groups (prior maximal distance P= 0.035938)

Partition 9 : found 2 groups (prior maximal distance P= 0.059948)

Partition 10 : found 2 groups (prior maximal distance P= 0.100000)

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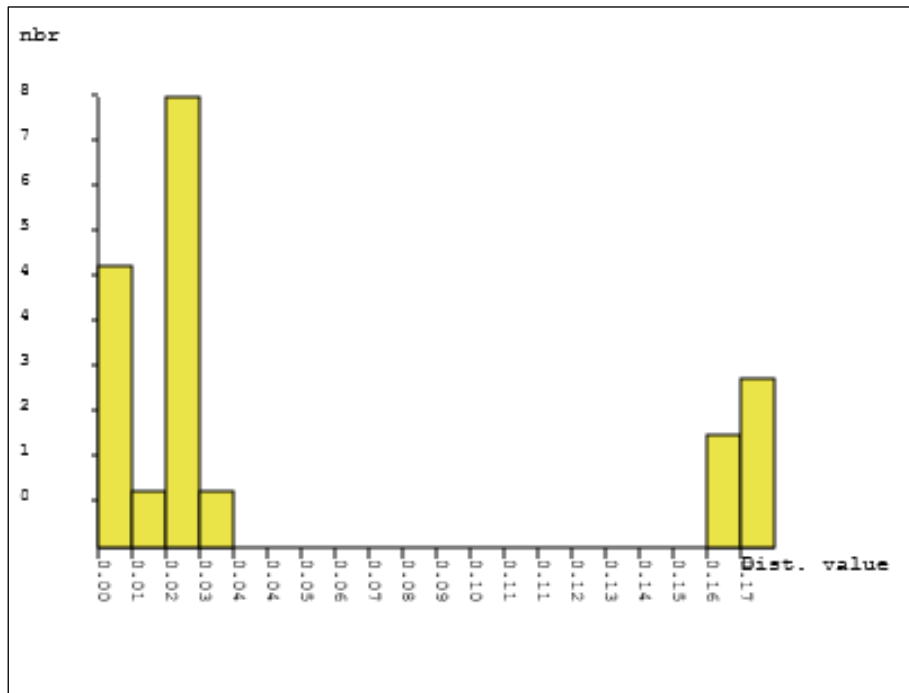
Groups detected when Initial Partition with prior maximal distance  $P=7.74e^{-03}$

**Group[ 1 ] n: 3 ;id: LJAMM-CNP\_10495 LJAMM-CNP\_10576 LJAMM-CNP\_5047**

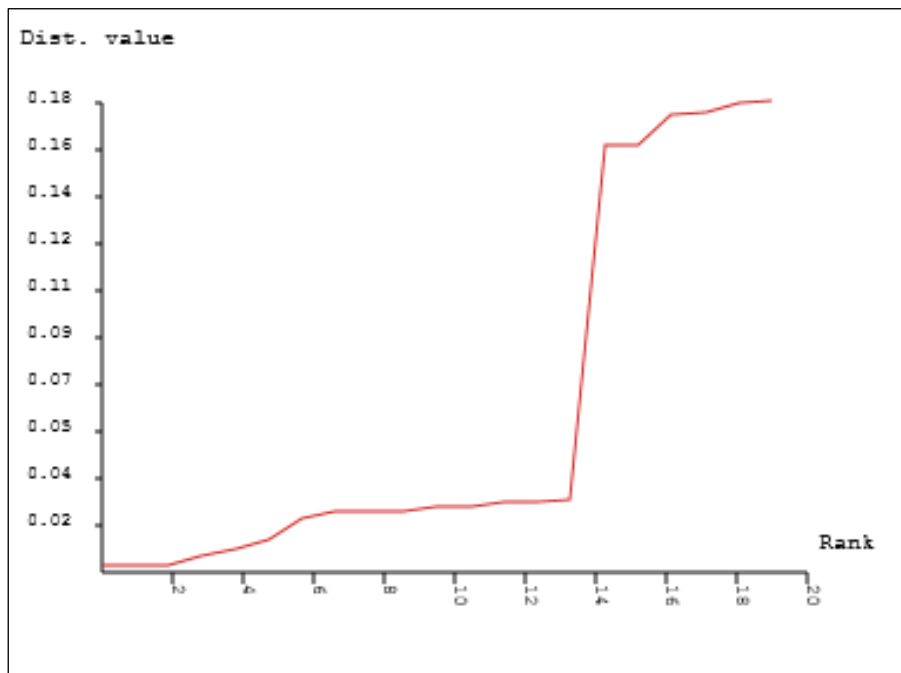
**Group[ 2 ] n: 3 ;id: MNHNP\_11873 MNHNP\_12238 SMF\_101984**

**Group[ 3 ] n: 1 ;id: Phyllopezus\_SMF-100495**

Histogram of distances



Ranked distances

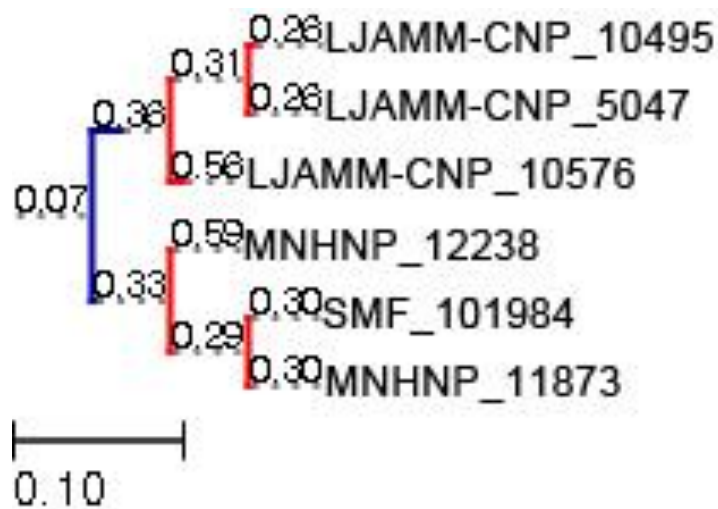




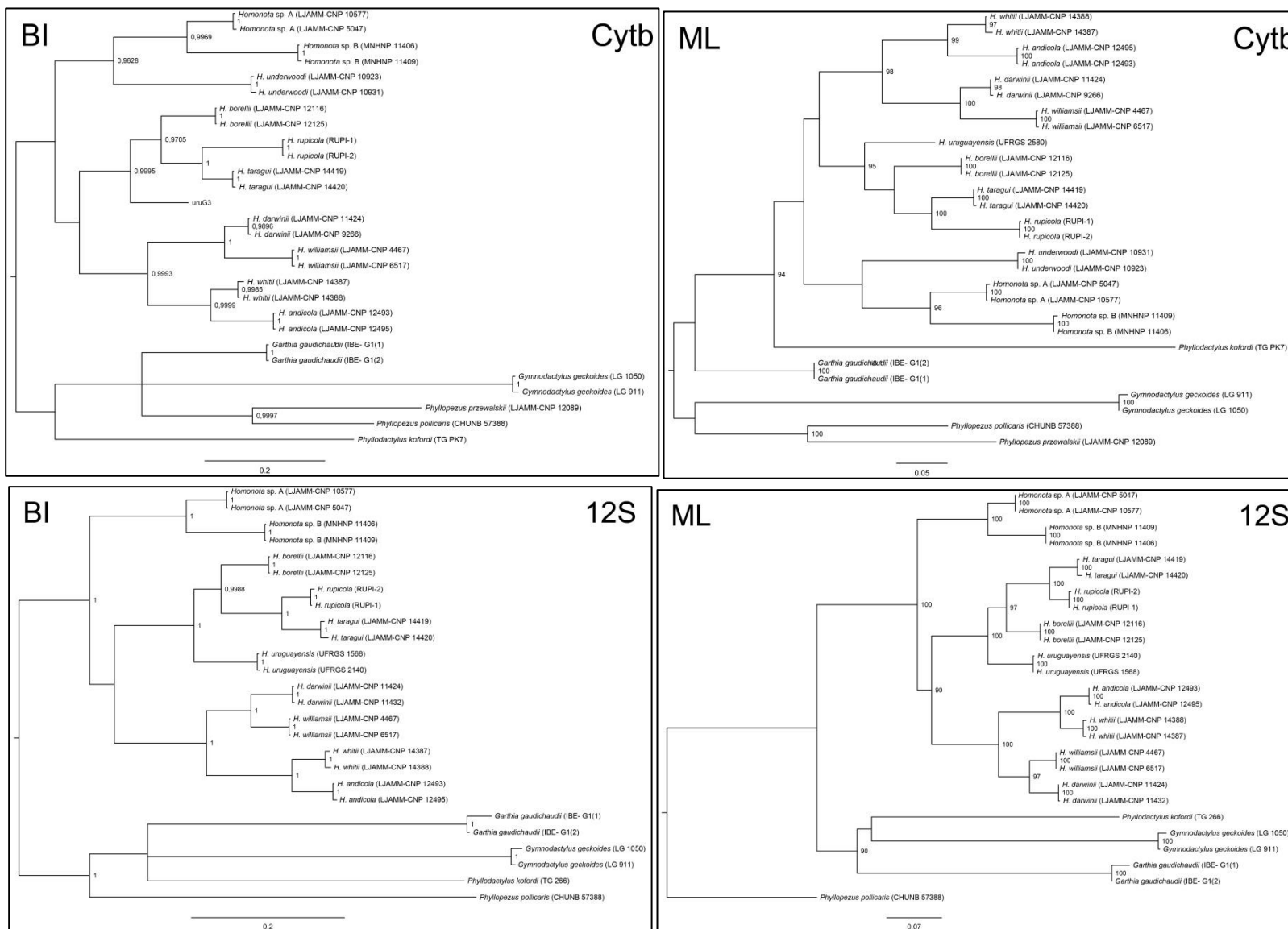
### Appendix S7

#### Results of PTP analysis

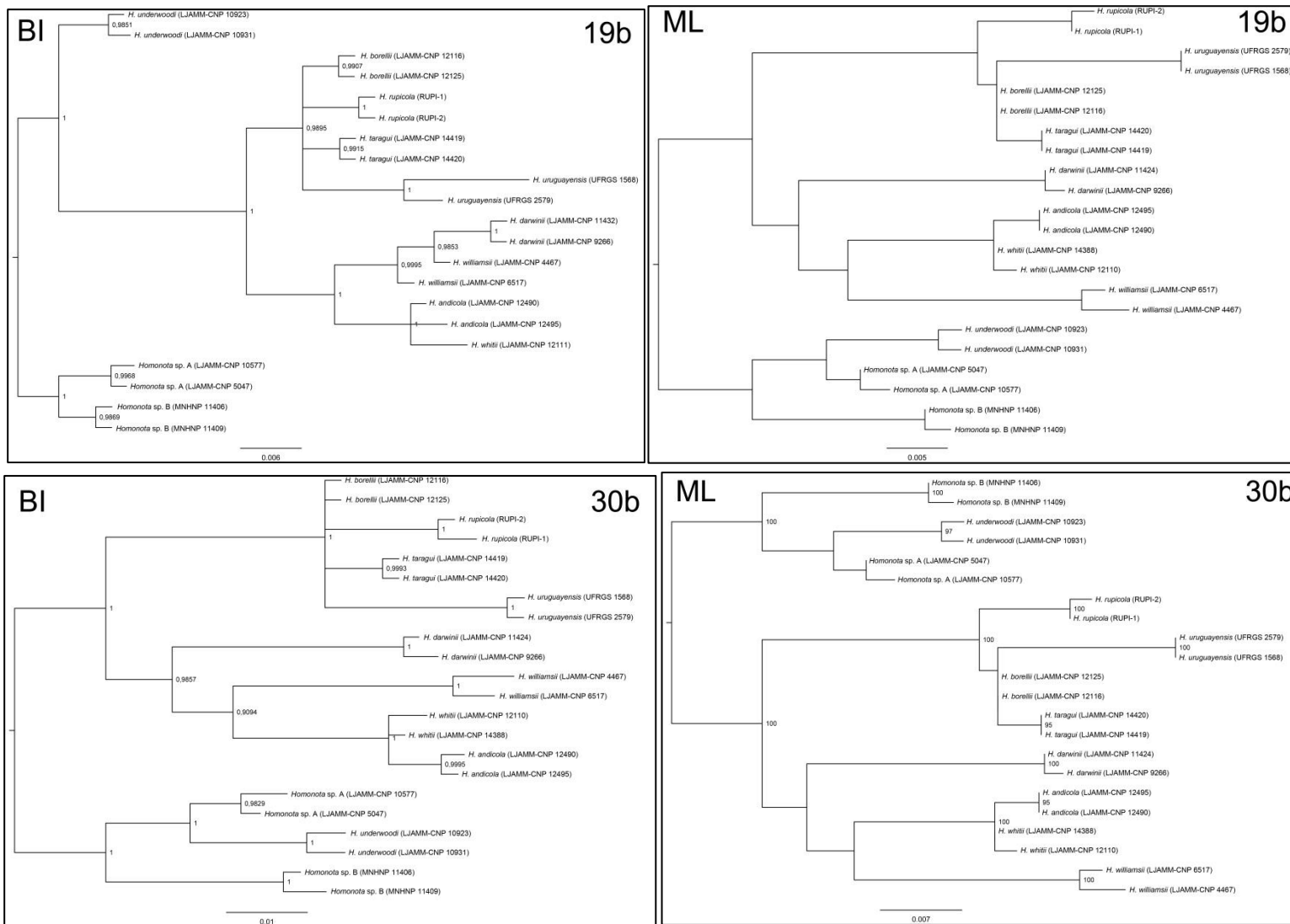
ML solution produced with PTP. Numbers on nodes indicate support values. The red clades represent putative species. In this case, one species is composed of Argentinean samples (LJAMM-CNP 5047, 10495, 10576), and the other of Paraguayan specimens (MNHNP 11873, 12238, SMF 101984).



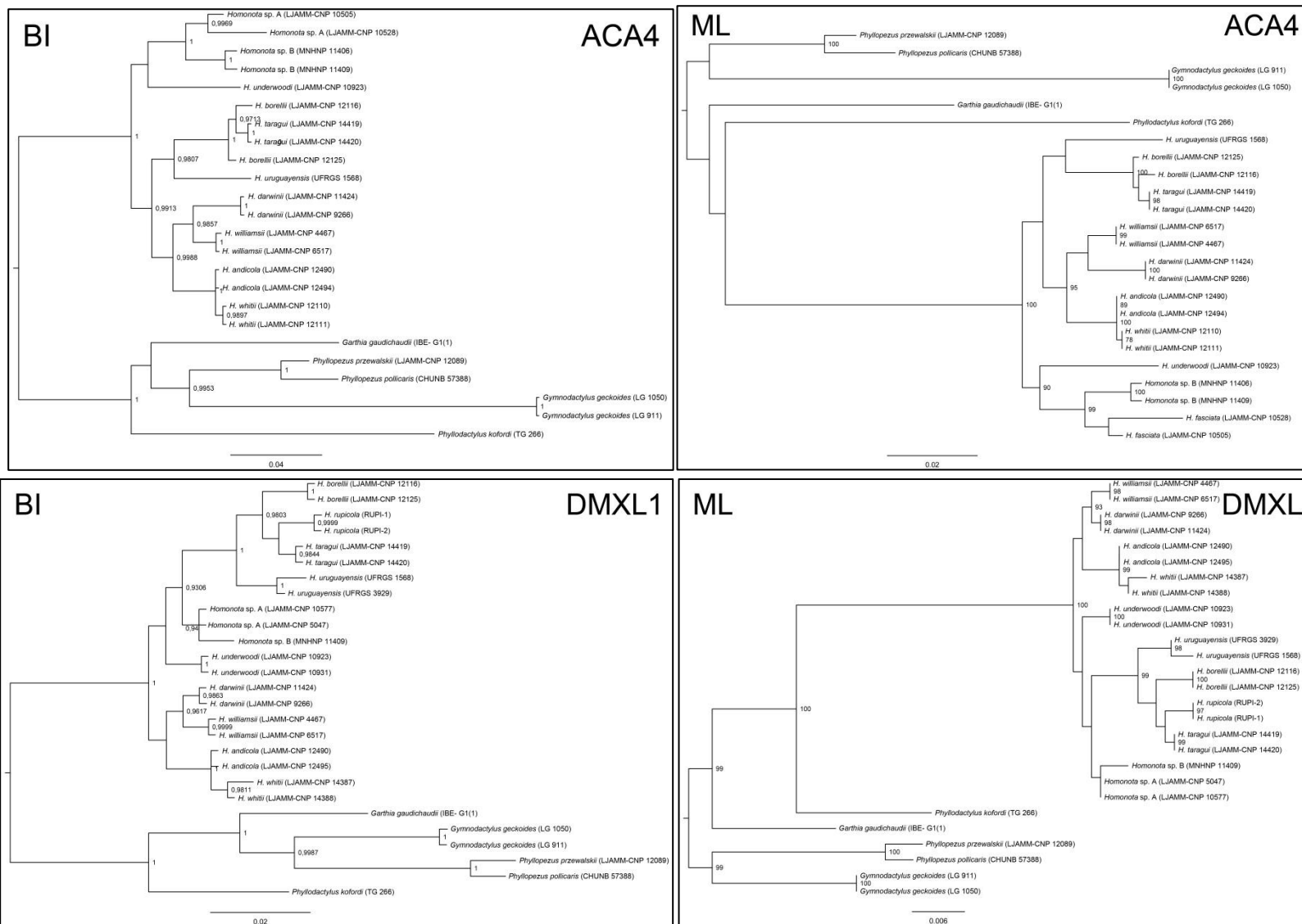
Appendix S8 - Individual gene trees (Explanations at the end)



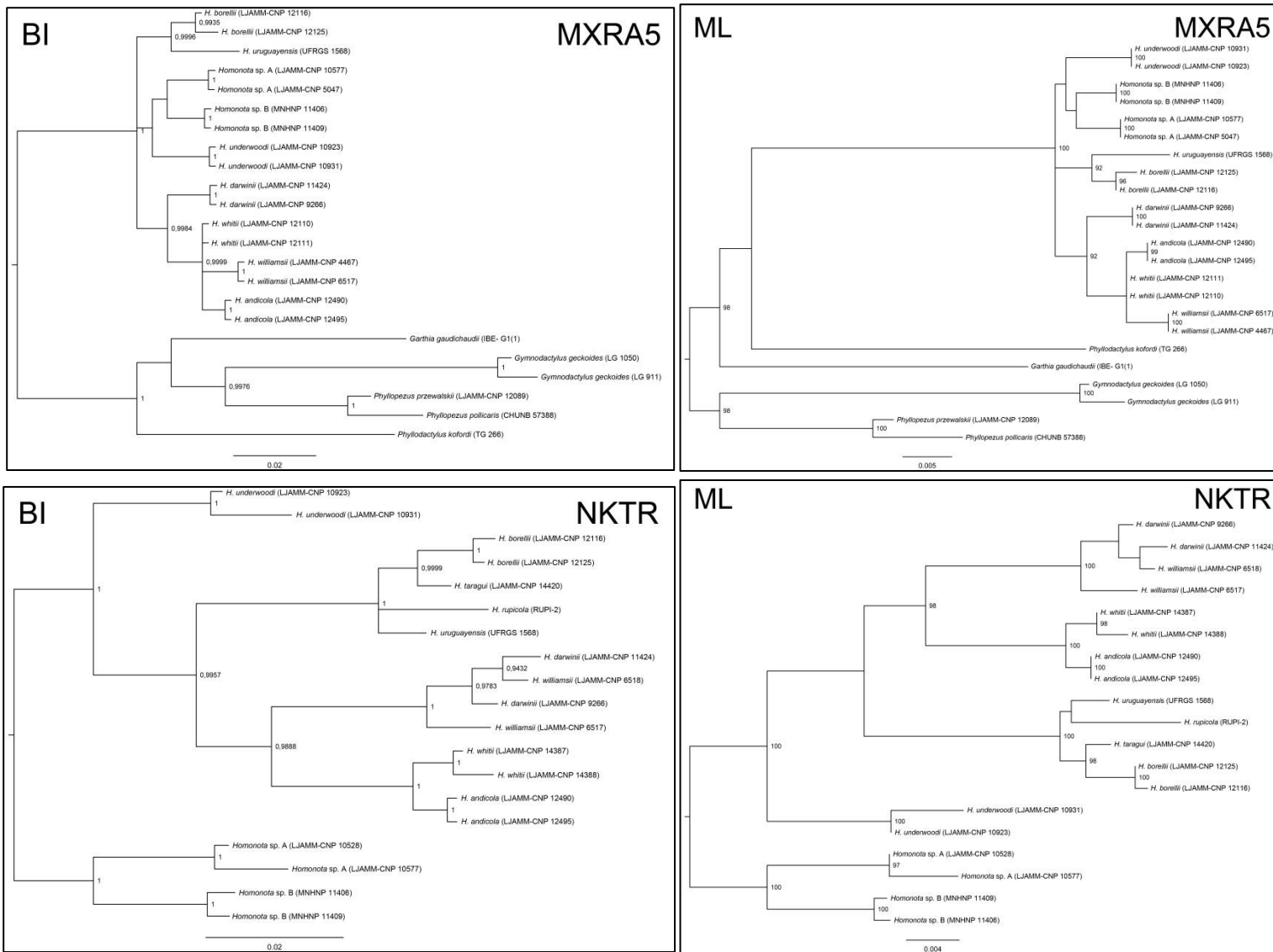
Appendix S8 (continuation)



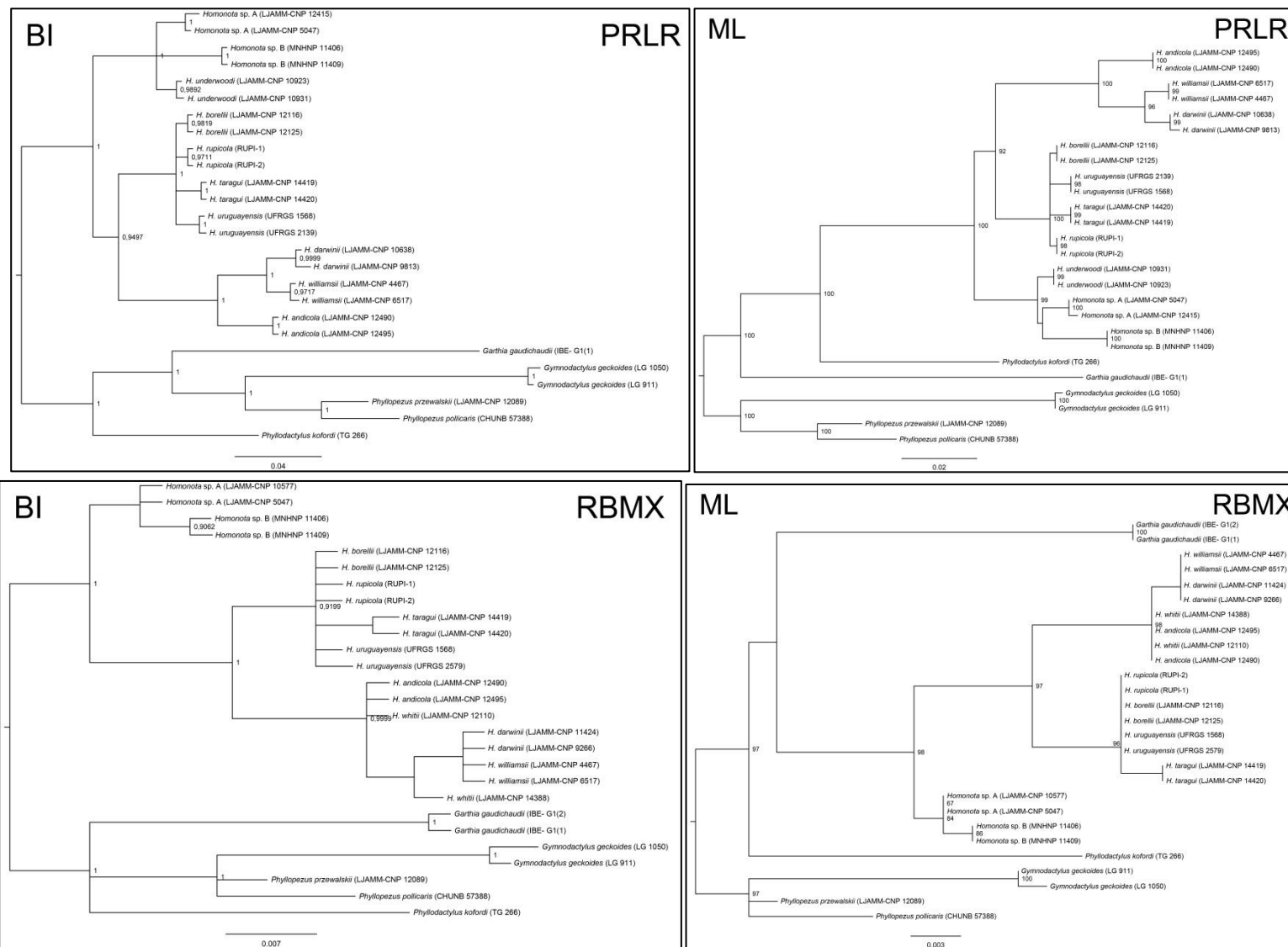
Appendix S8 (continuation)



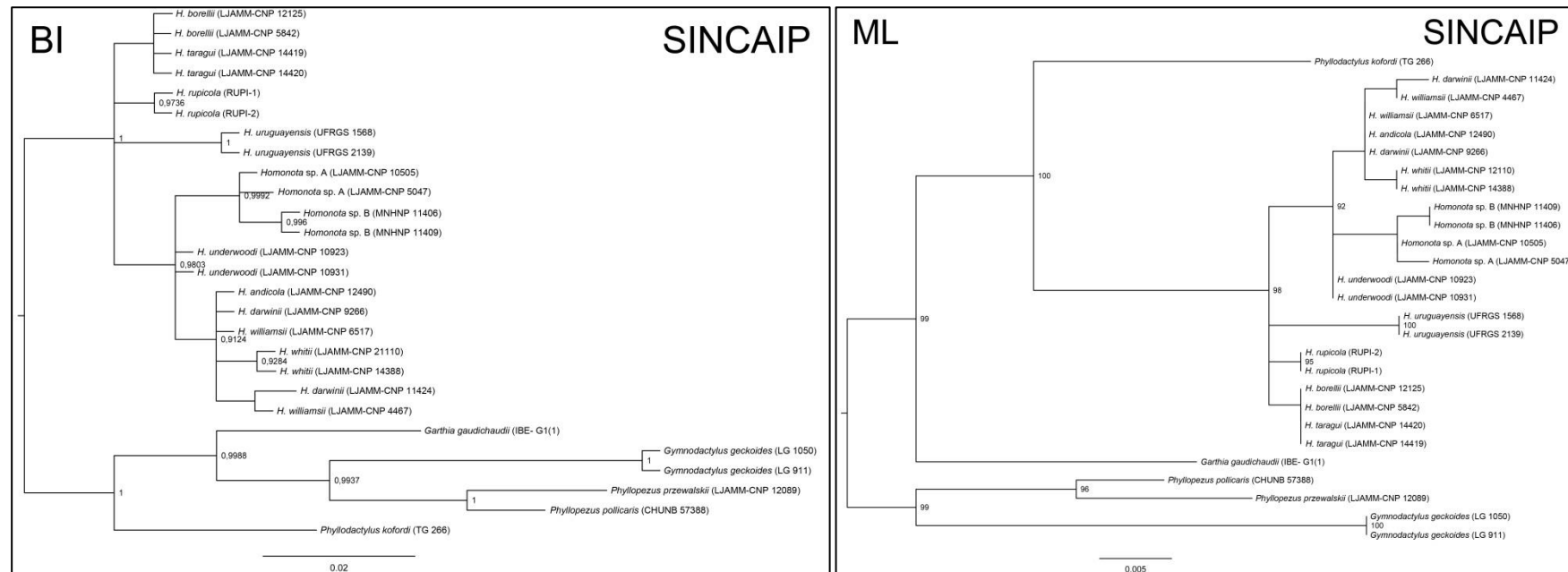
Appendix S8 (continuation)



Appendix S8 (continuation)



Appendix S8 (continuation)

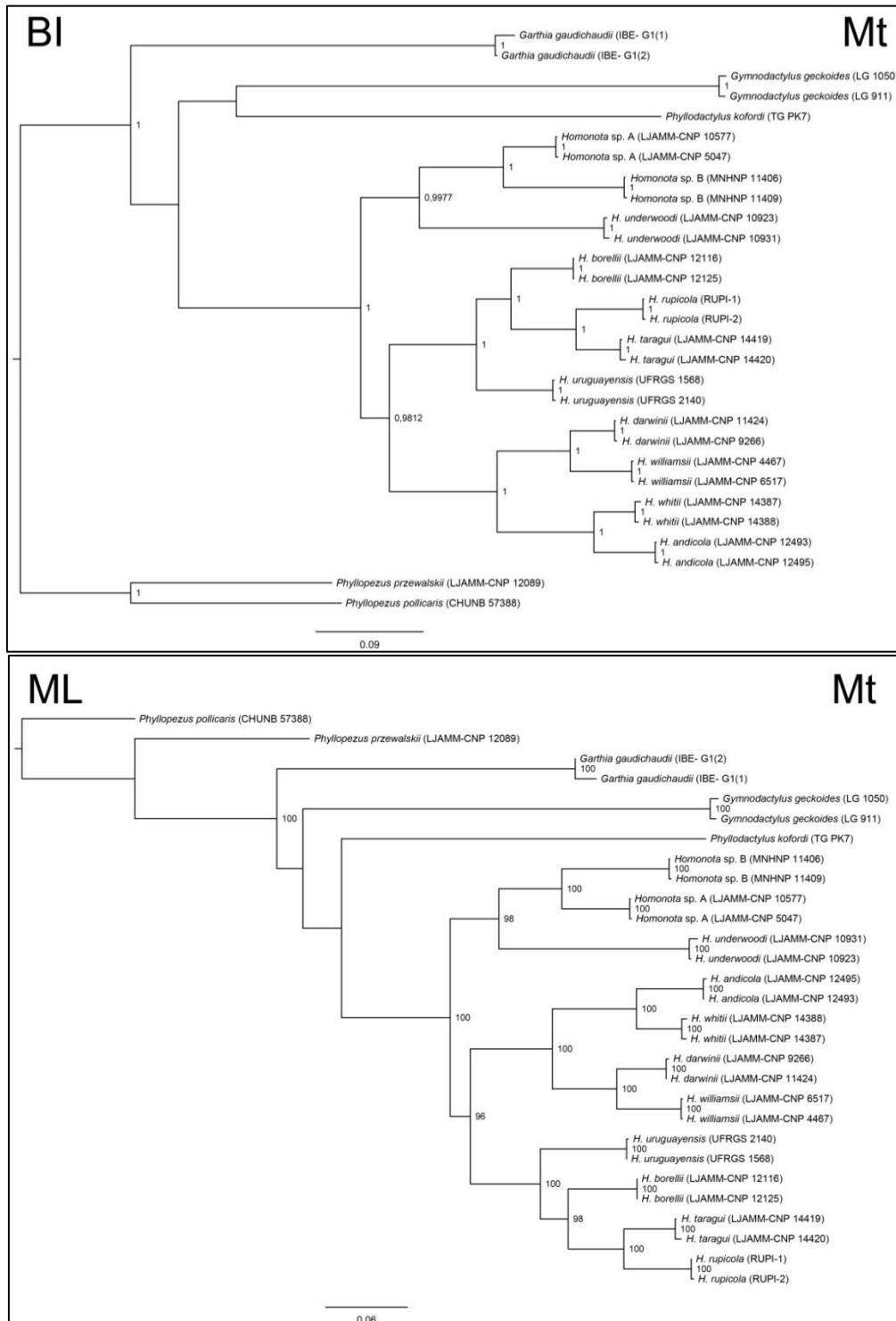


Individual gene trees generated by Bayesian analysis (BI) and Maximum Likelihood (ML). Acronyms for genes are *cytb* (cytochrome *b*), 12S (small ribosomal subunit), ACA4 (alpha-cardiac actin intron 4), DMXL1 (dmX-like protein 1), MXRA5 (encoding matrix remodeling associated intron 5), NKTR (natural killer-tumor recognition sequence), PRLR (prolactin receptor), RBMX (intron 8 and flanking exon regions of RNA binding motif protein), SINCAIP (synuclein alpha interacting protein), 19b and 30b (anonymous nuclear loci). The two first genes are mitochondrial, and the remaining nine are nuclear. Only values of  $\geq 0.90$  (for BI) and  $\geq 90$  (for ML) are shown.

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**Appendix S9 – Concatenated trees**



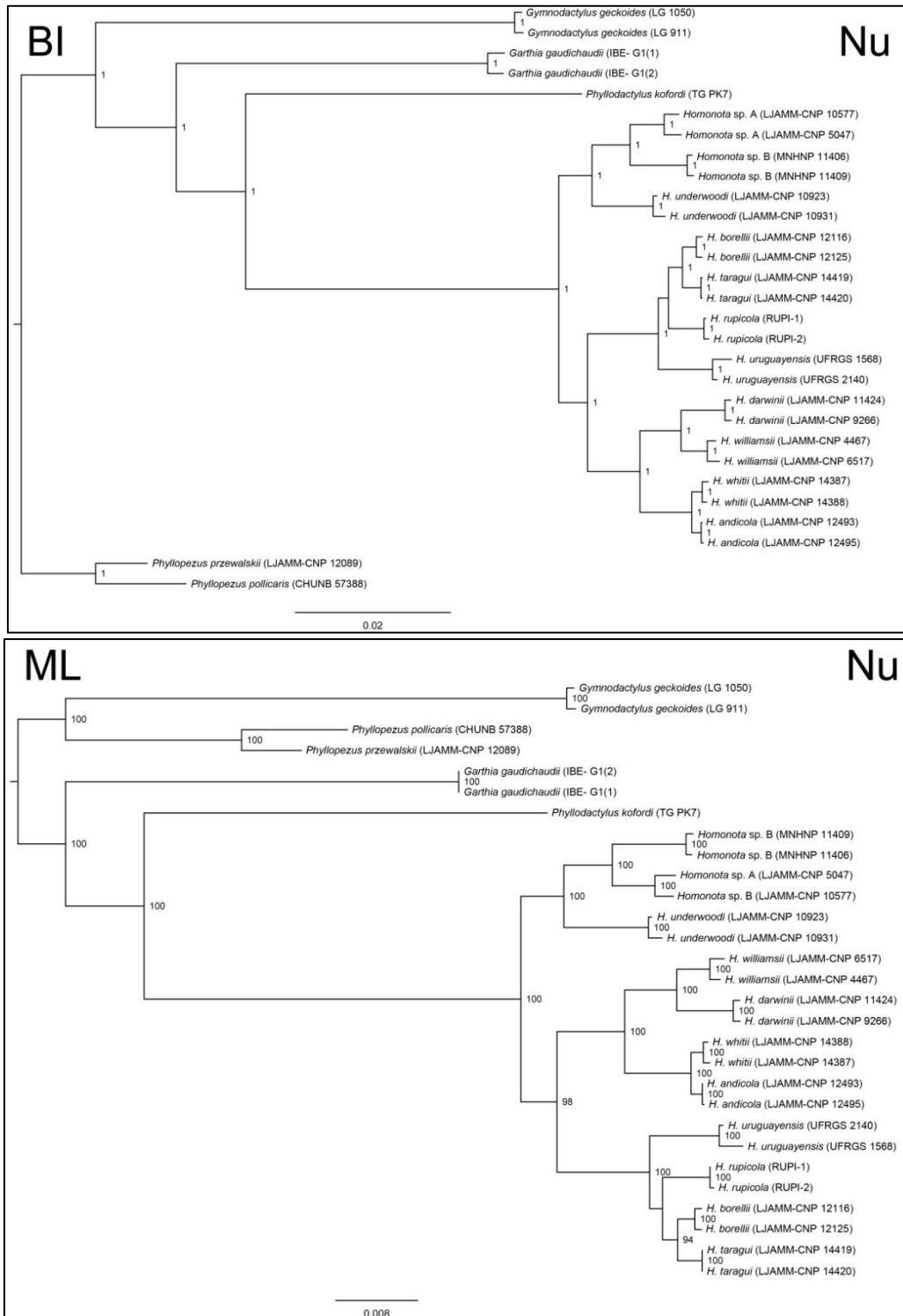
Bayesian (above) and Maximum Likelihood (below) trees inferred from concatenated mitochondrial genes. See Materials and Methods for indication of mitochondrial genes. Only values of  $\geq 0.90$  (for BI) and  $\geq 90$  (for ML) are shown.



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**Appendix S9 (continuation)**

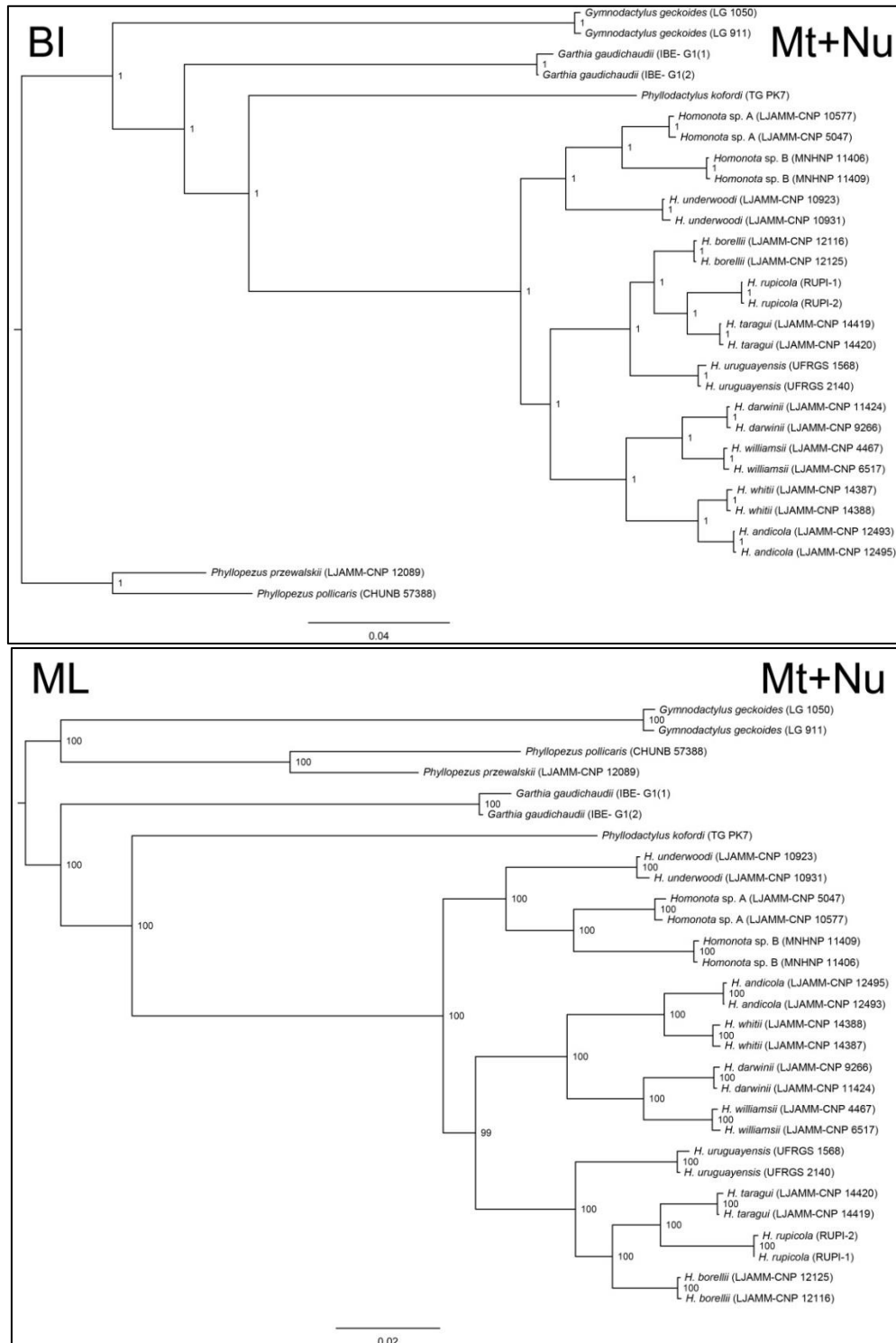


Bayesian (above) and Maximum Likelihood (below) trees inferred from concatenated nuclear genes. See Materials and Methods for indication of nuclear genes. Only values of  $\geq 0.90$  (for BI) and  $\geq 90$  (for ML) are shown.

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Cacciali P, Morando M, Medina CD, Köhler G, Motte M, Avila LJ - PeerJ 5:e3523; DOI 10.7717/peerj.3523

**Appendix S9 (continuation)**



Bayesian (above) and Maximum Likelihood (below) trees inferred from concatenated mitochondrial and nuclear genes. Only values of  $\geq 0.90$  (for BI) and  $\geq 90$  (for ML) are shown.

**Taxonomic analysis of Paraguayan samples of *Homonota fasciata* Duméril & Bibron (1836) with the revalidation of *Homonota horrida* Burmeister (1861) (Reptilia: Squamata: Phyllodactylidae) and the description of a new species**

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## Appendix S10

### Most contributing variables for DA

#### A- Continuous variables

Contribution values for the three principal axes of the discriminant function analysis of continuous variables. Most highly contributing variables in bold. Abbreviations: AL (arm length), EMD (eye–meatus distance), END (eye–nostril distance), ESD (eye–snout distance), FL (foot length), HH (head height), HL (head length), HW (head width), ID (interorbital distance), IND (internostril distance), SVL (snout–vent length), TL (tibial length), TrL (trunk length). See “Morphological Approach” in the Materials and Methods section for details about measurements.

Variables	Axis 1	Axis 2	Axis 3
SVL	<b>-0.25403</b>	<b>2.77550</b>	<b>0.40997</b>
TrL	<b>-0.45427</b>	<b>1.26620</b>	0.25683
FL	-0.09004	0.50099	-0.07282
TL	0.06197	0.43801	0.05459
AL	0.03385	0.50497	<b>0.39286</b>
HL	-0.21662	0.47604	<b>0.37498</b>
HW	-0.21465	0.32961	0.33726
HH	-0.23825	0.11503	0.23913
END	-0.08492	0.14669	0.02613
ESD	-0.11675	0.25690	0.20150
EMD	0.02475	0.24455	0.21194
ID	-0.01922	0.17126	0.20578
IND	-0.06752	0.06858	0.05570

#### B- Discrete variables

Contribution values for the three principal axes of the discriminant function analysis of discrete variables. Most highly contributing variables in bold. Abbreviations: 3FL (third finger lamellae), 4TL (fourth toe lamellae), DT (dorsal tubercles), LVS (longitudinal rows of ventral scales), TVS (transversal rows of ventral scales). See “Morphological Approach” in the Materials and Methods section for details about counts.

Variables	Axis 1	Axis 2	Axis 3
DT	<b>1.08450</b>	0.23782	1.22050
TVS	0.67569	<b>-1.77600</b>	-0.65160
LVS	-0.34039	-0.87093	<b>1.46070</b>
4TL	0.59106	0.39061	0.33669
3FL	0.84406	-0.14672	0.42342

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**Appendix S11**

**Matrix of metric data**

Raw metric data (in mm) used for analyses. See Materials and Methods section for explanation of the characters. Missing data indicated with “?”. Argentinean populations belong to LJAMM-CNP collection, whereas Paraguayan specimens are housed in the MNHNP and SMF.

Specimen	SVL	TrL	FL	TL	AL	HL	HW	HH	END	ESD	EMD	ID	IND	Sex
LJAMM-CNP 6520	57	24	10	9.2	12.2	12.8	8.6	6.7	4.3	5.3	4.8	3.8	1.7	F
LJAMM-CNP 6530	63	29	11	12.5	15.4	14.6	10.4	7.6	4.7	6.3	5.3	4.8	1.7	F
LJAMM-CNP 6532	55	23	9	9.6	?	13.5	10.5	6.9	4.6	5.8	5.2	5.2	1.8	M
LJAMM-CNP 6533	59	25	?	11.2	13.4	13.9	11.1	7.1	4.8	6.1	4.9	4.9	2.3	F
LJAMM-CNP 6535	52	20	11	9.6	?	?	?	?	?	?	?	?	?	M
LJAMM-CNP 6967	41	18	7	8.3	11.9	10.5	10.4	5.8	3.5	4.1	4.4	4.5	1.7	M
LJAMM-CNP 6968	45	18	9	9.0	13.7	?	8.9	?	?	?	?	4.6	1.6	M
LJAMM-CNP 7670	55	22	11	11.3	?	10.5	8.6	5.8	4.2	4.9	4.6	4.5	1.8	F
LJAMM-CNP 7674	50	23	9	9.9	11.9	11.8	8.3	6.3	4.1	4.8	4.7	4.5	1.6	F
LJAMM-CNP 7804	52	20	11	10.2	12.1	9.8	10.1	6.1	2.9	3.6	4.7	5.3	2.3	F
LJAMM-CNP 8713	56	25	8	10.5	?	?	10.6	?	?	?	?	4.8	2.2	M

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Specimen	SVL	TrL	FL	TL	AL	HL	HW	HH	END	ESD	EMD	ID	IND	Sex
LJAMM-CNP 10493	53	21	10	10.4	14.4	11.7	8.7	?	3.7	4.6	4.5	4.5	2.0	M
LJAMM-CNP 10496	51	23	9	9.4	12.9	12.5	9.9	5.5	4.0	4.8	5.1	4.4	1.8	F
LJAMM-CNP 10523	57	22	?	10.3	14.5	14.5	12.4	6.7	4.8	6.0	5.9	5.8	1.8	F
LJAMM-CNP 10526	64	27	12	12.0	16.8	14.3	10.8	6.3	4.9	6.1	5.5	5.2	1.9	F
LJAMM-CNP 10576	51	18	9	10.1	12.7	13.2	10.8	6.1	4.5	5.8	5.3	4.6	1.8	M
LJAMM-CNP 10577	42	16	8	8.3	11.8	10.6	8.5	4.9	3.7	4.2	4.2	4.1	1.2	F
LJAMM-CNP 10578	47	17	9	9.5	14.2	14.1	9.2	6.7	4.8	6.0	5.5	4.4	2.2	F
LJAMM-CNP 10579	53	20	?	10.4	13.1	13.4	9.9	6.4	4.1	5.3	5.3	4.1	2.0	F
LJAMM-CNP 10584	59	23	9	11.4	14.7	16.1	10.4	7.8	5.0	6.6	6.5	5.1	2.3	M
LJAMM-CNP 13948	44	19	9	8.9	12.8	10.7	8.2	5.5	3.2	4.3	4.4	4.1	1.7	M
LJAMM-CNP 14551	51	24	9	9.9	12.8	12.0	10.0	?	3.9	5.0	4.7	4.8	1.5	M
MNHNP 2821	61	28	12	9.9	14.6	14.4	11	7.7	4.5	5.9	5.3	4.8	2.4	F
MNHNP 9037	65	28	12	11.3	15	17.3	12.4	8.6	5.8	6.8	6.0	5.2	2.5	F
MNHNP 9038	51	23	9	9.8	13.1	13.1	10.2	7.1	4.3	5.1	4.9	4.4	2	M
MNHNP 9131	41	20	9	8.4	11.8	11.4	9.5	6.4	3.9	3.6	4.4	4.2	1.4	M
MNHNP 11406	47	18	7	8.3	11.5	11.4	8.8	6.3	3.7	5	3.6	4.1	1.8	?

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Specimen	SVL	TrL	FL	TL	AL	HL	HW	HH	END	ESD	EMD	ID	IND	Sex
MNHNP 11410	39	15	8	7.2	10.2	10.7	8.1	5.8	3.7	4.4	3.6	3.7	1.7	M
MNHNP 11419	40	17	8	7.6	9.4	10.5	8.1	6.6	3.4	4.3	3.6	3.5	1.5	?
MNHNP 11421	45	17	9	8.1	11	10.9	9.2	6.7	3.7	5	3.9	3.8	1.7	M
MNHNP 11423	45	19	9	9.1	11.6	11.6	9	6.4	3.4	4.5	4.0	4	1.6	M
MNHNP 11850	53	25	9	9.8	12.2	13.3	10.6	7.9	4.7	5.9	4.5	5.1	2.5	M
MNHNP 11855	58	28	11	11.1	13.6	13.7	11.2	8.4	4.6	6.4	5.6	5.3	2.3	F
MNHNP 11860	51	23	10	9.4	13.1	12.9	9.7	6.8	4.9	5.8	4.6	4.6	1.9	F
MNHNP 11872	48	20	9	8.4	11.8	11.5	8.9	6.4	4.5	4.9	3.8	3.8	1.9	M
MNHNP 12238	60	26	11	10.8	14.1	14.8	13.3	7.9	4.6	6.6	5.1	5.5	2.5	F
SMF 29277	37	16	6	7.1	9.9	9.8	7.8	6.4	2.8	4.2	3.6	3.6	1.9	?
SMF 101984	53	24	9	9.8	13.2	13.4	10.4	6.7	4.1	5.2	4.6	4.6	1.9	?

**Taxonomic analysis of Paraguayan samples of *Homonota fasciata* Duméril & Bibron (1836) with the revalidation of *Homonota horrida* Burmeister (1861) (Reptilia: Squamata: Phyllodactylidae) and the description of a new species**

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**Appendix S12**

**Matrix of meristic data**

Raw meristic data used for analyses. See Materials and Methods section for explanation of the characters. Missing data indicated with “?”. Argentinean populations belong to LJAMM-CNP collection, whereas Paraguayan specimens are housed in the MNHNP and SMF.

<b>Specimen</b>	<b>DT</b>	<b>TVS</b>	<b>LVS</b>	<b>SL</b>	<b>IF</b>	<b>4TL</b>	<b>3FL</b>	<b>Sex</b>
LJAMM-CNP 6520	30	43	19	9	7	19	16	F
LJAMM-CNP 6530	28	45	15	9	7	20	14	F
LJAMM-CNP 6532	33	48	16	7	6	18	13	M
LJAMM-CNP 6533	31	36	15	8	7	19	14	F
LJAMM-CNP 6535	34	44	18	8	7	21	17	M
LJAMM-CNP 6967	34	42	17	9	7	16	15	M
LJAMM-CNP 6968	30	42	18	8	8	17	15	M
LJAMM-CNP 7670	35	47	14	8	6	20	14	F
LJAMM-CNP 7674	35	40	13	8	6	20	14	F
LJAMM-CNP 7804	34	43	17	8	7	20	16	F
LJAMM-CNP 8713	32	48	17	8	6	20	16	M

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Specimen	DT	TVS	LVS	SL	IF	4TL	3FL	Sex
LJAMM-CNP 10493	32	39	14	8	6	17	14	M
LJAMM-CNP 10496	33	39	16	8	6	18	15	F
LJAMM-CNP 10523	32	41	15	8	6	19	14	F
LJAMM-CNP 10526	34	39	13	8	6	21	16	F
LJAMM-CNP 10576	33	46	20	8	7	22	17	M
LJAMM-CNP 10577	34	42	16	7	7	20	16	F
LJAMM-CNP 10578	36	42	19	9	7	21	15	F
LJAMM-CNP 10579	37	42	15	8	7	?	16	F
LJAMM-CNP 10584	33	43	16	9	6	20	15	M
LJAMM-CNP 13948	29	42	14	8	6	18	14	M
LJAMM-CNP 14551	36	45	16	9	8	21	14	M
MNHNP 2821	29	42	17	8	6	20	14	F
MNHNP 9037	34	42	16	7	6	19	15	F
MNHNP 9038	31	40	12	7	6	17	12	M
MNHNP 9131	29	40	17	8	6	17	13	M
MNHNP 11406	32	?	?	8	6	19	13	?



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Specimen	DT	TVS	LVS	SL	IF	4TL	3FL	Sex
MNHNP 11410	28	?	?	9	6	?	13	M
MNHNP 11419	29	43	15	8	6	18	11	?
MNHNP 11421	28	41	15	9	7	17	13	M
MNHNP 11423	32	41	19	8	6	19	14	M
MNHNP 11850	31	39	18	8	6	18	12	M
MNHNP 11855	28	43	17	8	6	16	12	F
MNHNP 11860	31	37	19	6	7	18	12	F
MNHNP 11872	32	47	16	8	7	18	13	M
MNHNP 12238	32	42	19	9	6	17	13	F
SMF 29277	34	42	15	8	6	17	11	?
SMF 101984	33	39	17	7	7	20	13	?