

TABLE S3 | Genetic distances (in %) for the concatenated mitochondrial and nuclear dataset based on the mean Kimura-2 parameter model of evolution. Pair-wise comparisons are between the main lineages of *Mollienesia* (see Fig. 2). LG = La Gloria population of *Poecilia sulphuraria*; BDA = Banos del Azufre population of *P. sulphuraria*.

	ltpcnt	pt	lat	vel	Tip	chica	sph_2	cat	mar	sph	hn	orr	but	nel	pet	lm	LG	BD	ther	sp2	sal	sp3	Mx_1
pt	4.07																						
lat	5.43	5.62																					
vel	4.75	4.95	3.86																				
Tipita	10.78	10.79	9.83	9.31																			
chica	9.80	9.82	9.58	8.85	7.65																		
sph_2	10.50	10.52	10.03	9.87	8.00	4.39																	
cat	11.14	11.15	10.13	10.15	8.16	5.61	4.02																
marc	9.70	10.19	9.70	9.31	8.12	3.86	2.72	3.92															
sph	9.64	9.94	9.32	9.10	7.68	3.77	2.39	3.39	0.96														
hn	10.03	10.34	9.31	8.97	7.34	7.44	9.21	8.91	8.35	8.29													
orr	9.90	9.97	8.44	8.16	6.87	8.14	8.48	8.30	7.93	8.01	4.58												
but	11.06	11.13	9.69	9.35	7.66	9.53	10.0	9.45	9.31	8.93	5.87	4.00											
nel	10.81	11.14	10.07	9.84	8.16	10.11	10.5	10.4	9.82	9.66	6.12	4.18	4.25										
pet	10.30	10.07	9.01	9.19	7.87	9.11	9.57	9.38	9.12	9.08	5.63	3.35	4.31	4.26									
lm	10.57	10.47	9.36	9.15	7.97	9.24	9.62	9.51	9.45	9.42	5.72	3.61	4.34	4.79	1.31								
LG	9.56	9.79	8.90	9.03	7.83	8.61	9.41	9.10	8.85	8.82	5.16	3.52	4.60	4.64	1.67	1.75							
BDA	9.60	9.83	8.94	9.07	7.87	8.64	9.45	9.14	8.89	8.85	5.20	3.56	4.63	4.68	1.70	1.78	0.16						
ther	9.62	9.83	8.96	8.85	7.77	8.66	9.46	9.16	8.90	8.87	5.21	3.58	4.44	4.70	1.72	1.80	0.18	0.21					
sp2	11.04	10.94	9.32	9.68	8.24	9.48	9.71	9.46	9.15	9.34	5.45	3.80	4.88	5.13	2.55	2.43	2.51	2.55	2.57				
sal	10.26	10.27	8.99	9.34	7.91	9.50	9.26	9.18	8.70	8.89	5.51	3.07	4.93	4.79	2.25	2.15	2.38	2.42	2.43	1.56			
sp3	10.54	9.96	8.95	9.30	8.16	9.69	9.69	9.67	9.12	9.31	5.85	3.45	4.99	4.79	2.42	2.30	2.48	2.52	2.54	1.73	0.89		
Mx_1	11.00	11.01	9.69	10.05	8.60	9.74	9.99	9.68	9.46	9.65	5.90	3.61	5.09	5.28	2.67	2.57	2.95	2.98	3.00	2.14	1.38	1.50	
Mx_2	10.89	10.87	9.71	9.67	8.31	9.44	9.59	9.28	9.18	9.22	6.00	3.44	4.99	5.28	2.59	2.47	2.89	2.92	2.94	2.13	1.28	1.39	0.88



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