



Appendix 1. Species, average snout vent length (SVL: mm), brain size (mm³) and volume of different brain structures (mm³). Spawning habitat experienced by different species. Spawning habitats were classified on a three-point scale: 1 = Arboreal and terrestrial; 2 = Lentic aquatic; 3 = Lotic aquatic. bs=brain size, bo=bulbus olfactorium, p=prosencephalon, t=telencephalon, ot=optic tectum, c=cerebellum, bh=breeding habitat

Species	SVL	bs	bo	p	t	ot	c	bh
<i>Nanorana venbtripunctata</i>	35.49	14.0276	0.0458	0.1906	6.9238	2.7675	0.1554	2
<i>Nanorana parkeri</i>	54.74	17.8613	0.1560	0.7388	7.2289	3.3396	0.2335	2
<i>Chaparana quadrana</i>	71.12	33.5973	0.4232	0.4342	12.3531	7.4851	0.4760	3
<i>Amolops lifanensis</i>	52.77	28.8418	0.5412	0.4476	9.0696	5.2913	0.4826	3
<i>Amolops mantzorum</i>	53.80	29.7288	0.3275	0.8912	10.4675	5.3331	0.3945	3
<i>Amolops loloensis</i>	52.41	35.8118	0.2747	1.3829	14.268	6.8188	0.6448	3
<i>Amolops granulosis</i>	32.58	13.3697	0.0119	0.2236	3.5316	3.6634	0.6708	3
<i>Bombina maxima</i>	58.09	23.5934	0.2706	1.0496	13.1624	2.5877	0.2708	2
<i>Branchytarsophrys chuannanensis</i>	101.86	43.2319	1.3656	0.9354	19.6204	6.5546	0.7426	3
<i>Branchytarsophrys feae</i>	95.61	23.1125	1.2565	1.7266	7.2831	3.4631	0.4741	3
<i>Megophrys shapingensis</i>	72.58	22.5454	0.6084	0.7395	9.5114	3.2846	0.4018	3
<i>Scutigera muliensis</i>	62.96	33.8584	1.1291	1.8348	14.4517	3.9824	0.3336	3
<i>Kaloula verrucosa</i>	39.18	20.0159	0.3753	0.7668	9.2315	3.0174	0.3504	2
<i>Kaloula rugifera</i>	38.91	8.1836	0.0754	0.7146	4.2096	1.0966	0.2966	2
<i>Rana omeimontis</i>	48.00	39.4239	0.8662	1.2849	13.1420	10.989	0.7668	2
<i>Rana chaochiaoensis</i>	50.38	22.8737	0.2487	0.7360	7.5290	5.3775	0.3406	2
<i>Rana kukunoris</i>	45.59	21.1072	0.1547	1.1038	8.2372	3.5075	0.2187	2

Appendix 2. The phylogenetic tree of the 43 anurans species used in the comparative analysis following Pyron and Wiens (2011).

