

**Appendix 5.** Comparison pairs with branch lengths (BL) and body size (BS) measurements in millimeters (geometric mean unless otherwise stated), together with log ratios, for “Big” and “Little” species included in the analysis. Geometric means for the Gastropoda (excluding slugs) and Bivalvia are calculated for body size area (in squared millimeters). Where either branch length was zero, the log ratio is undefined. References in parentheses indicate sources of independent phylogenies. For gene abbreviations see *Materials and Methods* in the main text.

Data set	Big species	Little species	BL big	BL little	BS big	BS little	ln (BS <sub>Big</sub> /BS <sub>Little</sub> )	ln ( $\lambda_{Big}/\lambda_{Little}$ )
<b>Lepidoptera (1-8)</b>								
COII	<i>Allancastris cerisyi</i>	<i>Zerynthia rumina</i>	0.15161	0.09962	28.0	25.3	0.10140	0.41995
	<i>Anartia fatima</i>	<i>Anartia amanthea</i>	0.05316	0.06811	28.5	26.0	0.09181	-0.24782
	<i>Anartia lytrea</i>	<i>Anartia jatrophae</i>	0.20015	0.16367	30.5	20.0	0.42199	0.20121
	<i>Arhopala muta</i>	<i>Plebeius argus</i>	0.07641	0.05761	16.5	14.0	0.16430	0.28242
	<i>Dione juno</i>	<i>Dione glycera</i>	0.23316	0.23944	38.4	35.0	0.09271	-0.02658
	<i>Dryas julia</i>	<i>Podotricha telesiphe</i>	0.15708	0.08633	43.5	38.0	0.13517	0.59858
	<i>Eueides lineata</i>	<i>Eueides lybia</i>	0.24145	0.15716	34.5	31.5	0.09097	0.42940
	<i>Eueides procula</i>	<i>Eueides vibilia</i>	0.07023	0.14920	34.5	32.0	0.07522	-0.75351
	<i>Eueides tales</i>	<i>Eueides aliphera</i>	0.17339	0.14225	35.5	30.0	0.16834	0.19796
	<i>Heliconius burneyi</i>	<i>Heliconius wallacei</i>	0.11838	0.05209	46.0	40.0	0.13976	0.82093
	<i>Heliconius charithonia</i>	<i>Heliconius ricini</i>	0.06705	0.08291	40.0	34.4	0.15082	-0.21232
	<i>Heliconius demeter</i>	<i>Heliconius antiochus</i>	0.08012	0.05347	34.5	33.0	0.04445	0.40440
	<i>Heliconius egeria</i>	<i>Heliconius xanthocles</i>	0.05114	0.07304	46.0	38.5	0.17798	-0.35644
	<i>Heliconius eleuchia</i>	<i>Heliconius sapho</i>	0.20896	0.12728	39.0	37.0	0.05264	0.49575
	<i>Heliconius ethilla</i>	<i>Heliconius besckei</i>	0.03169	0.03013	42.0	34.5	0.19671	0.05048
	<i>Heliconius hecalasia</i>	<i>Heliconius erato</i>	0.12328	0.10275	46.5	40.5	0.13815	0.18216
	<i>Heliconius hecale</i>	<i>Heliconius atthis</i>	0.04862	0.01714	44.0	40.5	0.08289	1.04262
	<i>Heliconius heurippa</i>	<i>Heliconius melpomene</i>	0.07263	0.02024	44.0	38.0	0.14660	1.27772
	<i>Heliconius ismenius</i>	<i>Heliconius numata</i>	0.03767	0.07482	43.5	40.0	0.08388	-0.68622
	<i>Heliconius leucadia</i>	<i>Heliconius sara</i>	0.14395	0.07419	38.0	33.0	0.14108	0.66284
	<i>Heliconius telesiphe</i>	<i>Heliconius clysonymus</i>	0.07711	0.10179	42.0	39.5	0.06137	-0.27768
	<i>Japonica saepestriata</i>	<i>Wagimo signatus</i>	0.25345	0.03124	21.0	15.5	0.30368	2.09347
	<i>Maculineaalcon</i>	<i>Celastrina argiolus</i>	0.05050	0.02929	17.5	14.5	0.18805	0.54473
	<i>Maculinea arion</i>	<i>Maculinea nausithous</i>	0.01189	0.05480	19.9	16.7	0.17531	-1.52799
	<i>Neruda metharme</i>	<i>Neruda aoede</i>	0.19352	0.13902	41.5	36.5	0.12838	0.33076
	<i>Papilio anchisiades</i>	<i>Papilio thoas</i>	0.36346	0.09661	52.5	48.5	0.07925	1.32499
	<i>Papilio clytia</i>	<i>Papilio alexanor</i>	0.14576	0.13349	52.0	42.0	0.21357	0.08793

Data set	Big species	Little species	BL big	BL little	BS big	BS little	ln (BS <sub>Big</sub> /BS <sub>Little</sub> )	ln ( $\lambda_{Big}/\lambda_{Little}$ )
	<i>Papilio dardanus</i>	<i>Papilio demoleus</i>	0.20440	0.14585	46.9	41.0	0.13445	0.33750
	<i>Papilio paris</i>	<i>Papilio indra</i>	0.09466	0.03717	48.5	38.5	0.23091	0.93479
	<i>Parides photinus</i>	<i>Iphiclides podalirius</i>	0.15115	0.17684	47.5	39.5	0.18443	-0.15697
	<i>Pieris napi</i>	<i>Pyrgus communis</i>	0.44714	0.06053	22.5	13.5	0.51083	1.99958
	<i>Polyommatus icarus</i>	<i>Polyommatus thersites</i>	0.22928	0.07023	15.2	14.0	0.08224	1.18317
	<i>Serinicus montela</i>	<i>Luehdorfia japonica</i>	0.22382	0.43755	37.0	31.0	0.17693	-0.67035
	<i>Siproeta stelenes</i>	<i>Junonia evarete</i>	0.09147	0.09461	46.5	27.5	0.52527	-0.03375
	<i>Speyeria idalia</i>	<i>Acraea encedon</i>	0.46920	0.31306	41.5	29.5	0.34130	0.40463
	<i>Thyridia psidii</i>	<i>Apodemia mormo</i>	0.24898	0.30243	41.5	15.5	0.98485	-0.19448
	<i>Tirumala hamata</i>	<i>Coenonympha tullia</i>	0.27296	0.30463	41.0	18.9	0.77441	-0.10977
	<i>Troides helena</i>	<i>Atrophaneura alcinous</i>	0.34436	0.16656	81.0	54.0	0.40547	0.72633
<b>ND5</b>	<i>Colias palaeno</i>	<i>Eurema hecabe</i>	0.14701	0.17933	25.0	22.5	0.10536	-0.19873
	<i>Aporia crataegi</i>	<i>Anthocharis cardamines</i>	0.10849	0.10617	32.3	21.0	0.43054	0.02162
	<i>Curetis acuta</i>	<i>Zizina otis</i>	0.12224	0.16003	22.8	10.5	0.77539	-0.26937
	<i>Troides hypolitus</i>	<i>Troides amphrysus</i>	0.08830	0.07602	87.5	77.0	0.12783	0.14974
	<i>Atrophaneura polyeuctes</i>	<i>Pachliopta aristolochiae</i>	0.09336	0.10249	57.0	48.0	0.17185	-0.09330
	<i>Pharmacophagus antenor</i>	<i>Cressida cressida</i>	0.11993	0.14624	68.5	50.5	0.30486	-0.19834
	<i>Battus polydamas</i>	<i>Papilio machaon</i>	0.12307	0.12107	48.0	40.0	0.18232	0.01638
	<i>Graphium leonidas</i>	<i>Graphium eurypylus</i>	0.08273	0.06216	47.5	38.0	0.22314	0.28587
	<i>Graphium antiphates</i>	<i>Graphium aristeus</i>	0.12425	0.09251	55.0	39.6	0.32850	0.29498
	<i>Graphium sarpedon</i>	<i>Artopoetes pryeri</i>	0.0000	0.00442	24.5	23.0	0.68222	
	<i>Luehdorfia longicaudata</i>	<i>Luehdorfia puziloi</i>	0.02108	0.05018	35.0	29.5	0.17096	-0.86729
	<i>Archon apollinus</i>	<i>Hypermnestra helios</i>	0.05891	0.11341	28.3	26.9	0.05074	-0.65500
	<i>Parnassius szechenyii</i>	<i>Parnassius acco</i>	0.04935	0.01050	33.0	27.9	0.16788	1.54756
	<i>Parnassius imperator</i>	<i>Parnassius acdestis</i>	0.05735	0.03844	40.1	28.5	0.34147	0.40007
	<i>Parnassius autocrator</i>	<i>Parnassius loxias</i>	0.03124	0.03352	36.0	33.5	0.07197	-0.07044
	<i>Parnassius maximinus</i>	<i>Parnassius delphius</i>	0.00315	0.00074	36.0	31.0	0.14953	1.44851
	<i>Parnassius ariadne</i>	<i>Parnassius mnemosyne</i>	0.03042	0.02098	34.5	30.8	0.11344	0.37153
	<i>Parnassius nordmanni</i>	<i>Parnassius simo</i>	0.04477	0.03440	33.0	24.5	0.29783	0.26348
	<i>Parnassius glacialis</i>	<i>Parnassius stubbendorfi</i>	0.03099	0.03904	37.3	32.5	0.13775	-0.23092
	<i>Parnassius apollonius</i>	<i>Parnassius hardwickii</i>	0.02953	0.06800	39.5	29.1	0.30556	-0.83410
	<i>Parnassius tianschanicus</i>	<i>Parnassius epaphus</i>	0.01785	0.01524	39.5	27.0	0.38046	0.15808

Data set	Big species	Little species	BL big	BL little	BS big	BS little	ln (BS <sub>Big</sub> /BS <sub>Little</sub> )	ln ( $\lambda_{Big}/\lambda_{Little}$ )
	<i>Parnassius apollo</i>	<i>Parnassius jaquemontii</i>	0.02315	0.01294	39.5	33.5	0.16476	0.58167
	<i>Seriginus montela</i>	<i>Zerynthia rumina</i>	0.09955	0.13583	37.0	25.3	0.38011	-0.31074
	<i>Idea leuconoe</i>	<i>Euploea mulciber</i>	0.13944	0.07283	61.0	51.5	0.16929	0.64951
	<i>Lethe diana</i>	<i>Mycalesis gotama</i>	0.07869	0.22765	27.0	25.5	0.05716	-1.06229
	<i>Minois dryas</i>	<i>Aglais urticae</i>	0.23917	0.12092	32.7	23.8	0.31769	0.68205
	<i>Limenitis populi</i>	<i>Limenitis camilla</i>	0.09605	0.07450	40.0	28.0	0.35667	0.25407
	<i>Argyreus hyperbius</i>	<i>Argynnis paphia</i>	0.06988	0.05083	39.0	33.0	0.16705	0.31829
<b>COI</b>	<i>Heliconius hecale</i>	<i>Heliconius atthis</i>	0.00000	0.00966	44.0	40.5	0.08289	
	<i>Heliconius ethilla</i>	<i>Heliconius besckei</i>	0.03683	0.05085	42.0	34.5	0.19671	-0.32257
	<i>Heliconius telesiphe</i>	<i>Heliconius clysonymus</i>	0.06678	0.10601	42.0	39.5	0.06137	-0.46213
	<i>Heliconius egeria</i>	<i>Heliconius xanthocles</i>	0.03228	0.07948	46.0	38.5	0.17798	-0.90106
	<i>Heliconius burneyi</i>	<i>Heliconius wallacei</i>	0.04317	0.05413	46.0	40.0	0.13976	-0.22624
	<i>Neruda metharme</i>	<i>Neruda aoede</i>	0.07631	0.09355	41.5	36.5	0.12838	-0.20369
	<i>Erebia palarica</i>	<i>Erebia meolans</i>	0.01667	0.01726	26.7	22.9	0.15353	-0.03478
	<i>Erebia triaria</i>	<i>Erebia cassioides</i>	0.03485	0.06068	24.5	18.4	0.28632	-0.55456
	<i>Charaxes castor</i>	<i>Bicyclus anynana</i>	0.09387	0.10300	52.5	21.2	0.90681	-0.09282
	<i>Allancastris cerisyi</i>	<i>Zerynthia rumina</i>	0.08975	0.13841	28.0	25.3	0.10140	-0.43319
	<i>Seriginus montela</i>	<i>Luehdorfia japonica</i>	0.08513	0.09046	37.0	31.0	0.17693	-0.06073
	<i>Papilio anchisiades</i>	<i>Papilio thoas</i>	0.10778	0.13194	52.5	48.5	0.07925	-0.20226
	<i>Papilio clytia</i>	<i>Papilio alexanor</i>	0.14196	0.20086	52.0	42.0	0.21357	-0.34706
	<i>Iphiclides podalirius</i>	<i>Apodemia mormo</i>	0.12195	0.12485	39.5	15.5	0.93546	-0.02350
	<i>Euphydryas phaeton</i>	<i>Euphydryas maturna</i>	0.03008	0.07064	28.0	21.0	0.28768	-0.85374
	<i>Melitaea deione</i>	<i>Melitaea britomartis</i>	0.03189	0.03556	20.9	17.0	0.20654	-0.10893
	<i>Chlosyne nycteis</i>	<i>Phyciodes tharos</i>	0.05752	0.09351	20.5	17.6	0.15253	-0.48594
	<i>Anartia fatima</i>	<i>Anartia amanthea</i>	0.02001	0.0464	28.5	26.0	0.09181	-0.84107
	<i>Anartia lytrea</i>	<i>Anartia jatrophae</i>	0.08046	0.08867	30.5	20.0	0.42199	-0.09716
	<i>Hamadryas februa</i>	<i>Sallya boisduvali</i>	0.13755	0.16781	36.0	23.3	0.43507	-0.19884
	<i>Apatura iris</i>	<i>Asterocampa leilia</i>	0.11933	0.15837	37.5	24.1	0.44213	-0.28304
	<i>Heliconius ismenius</i>	<i>Heliconius numata</i>	0.04195	0.03647	43.5	40.0	0.08388	0.13999
	<i>Heliconius heurippa</i>	<i>Heliconius melpomene</i>	0.02356	0.00741	44.0	38.0	0.14660	1.15672
	<i>Heliconius eleuchia</i>	<i>Heliconius congener</i>	0.0737	0.04755	39.0	37.0	0.05264	0.43822
	<i>Heliconius leucadia</i>	<i>Heliconius sara</i>	0.08211	0.01177	38.0	33.0	0.14108	1.94251
	<i>Heliconius hecalasia</i>	<i>Heliconius erato</i>	0.09599	0.07414	46.5	40.5	0.13815	0.25829
	<i>Heliconius charithonia</i>	<i>Heliconius ricini</i>	0.06298	0.05822	40.0	34.4	0.15082	0.07859

Data set	Big species	Little species	BL big	BL little	BS big	BS little	ln (BS <sub>Big</sub> /BS <sub>Little</sub> )	ln ( $\lambda_{Big}/\lambda_{Little}$ )
	<i>Eueides procula</i>	<i>Eueides vibilia</i>	0.05896	0.03491	34.5	32.0	0.07522	0.52409
	<i>Eueides lineata</i>	<i>Eueides aliphera</i>	0.09150	0.02224	34.5	30.0	0.13976	1.41445
	<i>Dione juno</i>	<i>Dione glycera</i>	0.17557	0.12805	38.4	35.0	0.09271	0.31562
	<i>Dryas julia</i>	<i>Dryadula phaetusa</i>	0.19253	0.15179	43.5	40.5	0.07146	0.23775
	<i>Arhopala muta</i>	<i>Plebeius argus</i>	0.12743	0.04054	16.5	14.0	0.16430	1.14528
	<i>Japonica saepestriata</i>	<i>Wagimo signatus</i>	0.16207	0.02139	21.0	15.5	0.30368	2.02510
	<i>Polyommatus icarus</i>	<i>Polyommatus thersites</i>	0.07806	0.06556	15.2	14.0	0.08224	0.17451
	<i>Erebia ligea</i>	<i>Erebia epiphron</i>	0.05056	0.04222	24.3	17.5	0.32828	0.18027
	<i>Maniola jurtina</i>	<i>Aphantopus hyperantus</i>	0.11073	0.10222	25.8	21.2	0.19637	0.07997
	<i>Papilio paris</i>	<i>Papilio indra</i>	0.07933	0.05212	48.5	38.5	0.23091	0.42007
	<i>Papilio demodocus</i>	<i>Papilio demoleus</i>	0.06537	0.05254	46.0	41.0	0.11507	0.21849
	<i>Troides helena</i>	<i>Atrophaneura alcinous</i>	0.11368	0.08844	81.0	54.0	0.40547	0.25106
	<i>Erynnis tristis</i>	<i>Pyrgus communis</i>	0.19379	0.14537	18.9	13.5	0.33647	0.28749
	<i>Melitaea didyma</i>	<i>Melitaea aurelia</i>	0.06586	0.0656	22.0	16.5	0.28768	0.00396
	<i>Junonia evarete</i>	<i>Junonia coenia</i>	0.04575	0.03567	27.5	25.5	0.07551	0.24888
	<i>Speyeria idalia</i>	<i>Argynnis paphia</i>	0.11986	0.09996	41.5	33.0	0.22919	0.18155
	<i>Cercyonis pegala</i>	<i>Lasiommata megera</i>	0.13555	0.12058	29.8	22.4	0.28545	0.11703
	<i>Hipparchia semele</i>	<i>Hipparchia azorina</i>	0.00766	0.00000	26.8	24.1	0.10619	0.00000
	<i>Acraea encedon</i>	<i>Anthocharis cardamines</i>	0.18089	0.09497	29.5	21.0	0.33987	0.64433
	<i>Vanessa atalanta</i>	<i>Aglais urticae</i>	0.09214	0.05033	30.0	23.8	0.23151	0.60471
	<i>Acrodipsas illidgei</i>	<i>Paralucia pyrodiscus</i>	0.08523	0.08243	13.9	12.5	0.10616	0.03340
	<i>Luehdorfia longicaudata</i>	<i>Luehdorfia puziloi</i>	0.05292	0.00947	35.0	29.5	0.17096	1.72065
	<i>Colias croceus</i>	<i>Eurema lisa</i>	0.24165	0.17847	25.5	17.0	0.40547	0.30307
	<i>Gonepteryx cleobule</i>	<i>Gonepteryx rhamni</i>	0.04628	0.02071	37.0	28.1	0.27515	0.80409
	<i>Limenitis populi</i>	<i>Limenitis reductis</i>	0.06384	0.05985	40.0	25.3	0.45808	0.06454
	<i>Coenonympha tullia</i>	<i>Coenonympha pamphilus</i>	0.05281	0.07741	18.9	16.6	0.12976	-0.38242
	<i>Amnosia decora</i>	<i>Eurytela dryope</i>	0.15645	0.23972	24.5	28.5	0.42286	-0.42674
	<i>Antanartia schaeneia</i>	<i>Araschnia levana</i>	0.07306	0.08642	26.2	18.0	0.37539	-0.16794
	<i>Nymphalis antiopa</i>	<i>Nymphalis polychloros</i>	0.04238	0.04301	33.8	30.5	0.10273	-0.01476
	<i>Polygonia interrogationis</i>	<i>Polygonia progne</i>	0.02532	0.04181	29.0	25.5	0.12862	-0.50154
	<i>Polygonia faunus</i>	<i>Polygonia c-album</i>	0.04309	0.04338	27.5	23.3	0.16573	-0.00671
	<i>Crudaria leroma</i>	<i>Chrysoritis zeuxo</i>	0.09140	0.10747	15.6	13.4	0.15202	-0.16197
	<i>Tylopaedia sardonix</i>	<i>Trimenia argyroplaga</i>	0.08518	0.09717	22.0	17.6	0.22314	-0.13170

Data set	Big species	Little species	BL big	BL little	BS big	BS little	ln (BS <sub>Big</sub> /BS <sub>Little</sub> )	ln ( $\lambda_{Big}/\lambda_{Little}$ )
	<i>Pieris rapae</i>	<i>Pieris napi</i>	0.03271	0.11349	24.5	22.5	0.08516	-1.24403
	<i>Parnassius apollo</i>	<i>Parnassius phoebus</i>	0.01782	0.04322	39.5	36.0	0.09278	-0.88598
	<i>Danaus plexippus</i>	<i>Danaus gilippus</i>	0.04929	0.08638	45.8	33.5	0.31274	-0.56103
<b>Arachnida (9)</b>								
<b>COI</b>	<i>Phlegra fasciata</i>	<i>Neon nelli</i>	0.12605	0.15157	7.5	2.6	1.04692	-0.18437
	<i>Nephila clavata</i>	<i>Tegenaria saeva</i>	0.15219	0.15931	22.9	13.3	0.54646	-0.04572
	<i>Dysdera labradaensis</i>	<i>Dysdera ambulotenta</i>	0.11056	0.13458	18.1	14.2	0.24362	-0.19660
	<i>Dysdera enghoffi</i>	<i>Dysdera rugichelis</i>	0.08531	0.14463	15.3	11.8	0.26315	-0.52789
	<i>Dysdera chioensis</i>	<i>Dysdera guayota</i>	0.09680	0.12056	8.9	7.0	0.24168	-0.21950
	<i>Dysdera verneau</i>	<i>Dysdera paucispinosa</i>	0.05072	0.09714	11.6	4.9	0.85745	-0.64983
	<i>Dysdera insulana</i>	<i>Dysdera unguimmanis</i>	0.05649	0.16581	25.3	9.6	0.96750	-1.07678
	<i>Dysdera brevisetae</i>	<i>Dysdera esquiveli</i>	0.04917	0.10653	8.3	4.8	0.54175	-0.77314
	<i>Hypochilus thorelli</i>	<i>Evarcha hoyi</i>	0.43764	0.23411	14.0	5.4	0.95575	0.62561
	<i>Bolyphantes alticeps</i>	<i>Erigone dentipalpis</i>	0.22836	0.11443	4.0	2.2	0.60677	0.69096
	<i>Linyphia triangularis</i>	<i>Neriene radiata</i>	0.10993	0.09655	5.7	4.8	0.18597	0.12978
	<i>Dysdera crocota</i>	<i>Dysdera erythina</i>	0.16468	0.12215	12.9	9.5	0.30307	0.29875
	<i>Dysdera aleganzaensis</i>	<i>Dysdera spinidorsum</i>	0.12775	0.10109	16.0	10.8	0.39427	0.23406
	<i>Dysdera longa</i>	<i>Dysdera sanborondon</i>	0.17971	0.07981	17.8	9.6	0.61792	0.81170
	<i>Dysdera ramblae</i>	<i>Dysdera calderensis</i>	0.13062	0.04671	19.1	8.2	0.84555	1.02833
	<i>Dysdera arabisenen</i>	<i>Dysdera yguanirae</i>	0.11837	0.05486	20.2	8.2	0.90568	0.76903
<i>Dysdera levipes</i>	<i>Dysdera gollumi</i>	0.08568	0.07088	6.2	5.3	0.15978	0.18963	
<b>16S</b>	<i>Linyphia triangularis</i>	<i>Lepthyphantes minutus</i>	0.11851	0.15475	5.7	3.7	0.42873	-0.26681
	<i>Tegenaria saeva</i>	<i>Neon nelli</i>	0.18633	0.24302	13.3	2.6	1.61948	-0.26562
	<i>Schizocosa crassipes</i>	<i>Pardosa milvina</i>	0.07739	0.07981	7.3	5.7	0.25417	-0.03079
	<i>Araneus diadematus</i>	<i>Nesticus barri</i>	0.26957	0.49426	11.4	4.7	0.88620	-0.60623
	<i>Dysdera labradaensis</i>	<i>Dysdera ambulotenta</i>	0.01729	0.05612	18.1	14.2	0.24362	-1.17736
	<i>Dysdera chioensis</i>	<i>Dysdera guayota</i>	0.03071	0.03400	8.9	7.0	0.24168	-0.10177
	<i>Dysdera verneau</i>	<i>Dysdera paucispinosa</i>	0.03124	0.06317	11.6	4.9	0.85745	-0.70413
	<i>Dysdera insulana</i>	<i>Dysdera cribellata</i>	0.03897	0.04437	25.3	8.7	1.07367	-0.12977
	<i>Dysdera ramblae</i>	<i>Dysdera calderensis</i>	0.02108	0.03539	19.1	8.2	0.84555	-0.51810
	<i>Dysdera arabisenen</i>	<i>Dysdera yguanirae</i>	0.03827	0.04652	20.7	8.2	0.90568	-0.19522
	<i>Dysdera levipes</i>	<i>Dysdera gollumi</i>	0.04418	0.05663	6.2	5.3	0.15978	-0.24827
	<i>Dysdera crocota</i>	<i>Dysdera lancerotensis</i>	0.16357	0.30484	12.9	9.8	0.27059	-0.62255
	<i>Habronattus viridipes</i>	<i>Habronattus calcaratus</i>	0.01237	0.00463	6.2	5.0	0.21589	0.98272

Data set	Big species	Little species	BL big	BL little	BS big	BS little	ln (BS <sub>Big</sub> /BS <sub>Little</sub> )	ln ( $\lambda_{Big}/\lambda_{Little}$ )
	<i>Phlegra fasciata</i>	<i>Synemosyna formica</i>	0.21989	0.14813	7.5	5.2	0.36866	0.39504
	<i>Nesticus holsingeri</i>	<i>Nesticus mimus</i>	0.08238	0.07139	4.5	3.4	0.28030	0.14318
	<i>Nesticus brimleyi</i>	<i>Nesticus stupkai</i>	0.09374	0.05383	4.5	3.7	0.19574	0.55469
	<i>Nesticus carteri</i>	<i>Nesticus sheari</i>	0.07989	0.04705	3.2	1.8	0.57536	0.52944
	<i>Nesticus jonesi</i>	<i>Nesticus reclusus</i>	0.04929	0.03574	5.0	2.7	0.61619	0.32145
	<i>Dysdera erythrina</i>	<i>Harpactea hombergi</i>	0.23800	0.06237	9.5	6.5	0.38107	1.33919
	<i>Dysdera alegranzaensis</i>	<i>Dysdera spinidorsum</i>	0.05947	0.02282	16.0	10.8	0.39427	0.95783
	<i>Dysdera longa</i>	<i>Dysdera sanborondon</i>	0.05228	0.02176	17.8	9.6	0.61792	0.87654
	<i>Dysdera brevisetae</i>	<i>Dysdera esquiveli</i>	0.04148	0.04048	8.3	4.8	0.54175	0.02440
<b>Cephalopoda (10)</b>								
<b>COI</b>	<i>Vitreledonella richardi</i>	<i>Amphitretus pelagicus</i>	0.09828	0.19492	110.0	100.0	0.09531	-0.68477
	<i>Graneledone boreopacifica</i>	<i>Graneledone antarctica</i>	0.01254	0.01930	90.0	40.0	0.81093	-0.43118
	<i>Bathypolypus valdiviae</i>	<i>Bathypolypus arcticus</i>	0.01535	0.05370	450.0	100.0	1.50408	-1.25230
	<i>Tremoctopus violaceus</i>	<i>Grimptoteuthis sp.</i>	0.09908	0.16839	180.0	115.0	0.44802	-0.53036
	<i>Euprymna stenodactyla</i>	<i>Euprymna morsei</i>	0.11037	0.12843	190.0	40.0	1.55814	-0.15155
	<i>Euprymna berryi</i>	<i>Euprymna tasmanica</i>	0.09222	0.09780	50.0	35.0	0.35667	-0.05875
	<i>Rossia pacifica</i>	<i>Rossia palpebrosa</i>	0.09126	0.11025	80.0	45.0	0.57536	-0.18904
	<i>Loligo pealei</i>	<i>Loligo plei</i>	0.06705	0.15160	500.0	350.0	0.35667	-0.81581
	<i>Loligo gahi</i>	<i>Loligo opalescens</i>	0.12131	0.14288	280.0	190.0	0.38777	-0.16366
	<i>Loligo vulgaris</i>	<i>Loligo reynaudi</i>	0.02931	0.03354	640.0	400.0	0.47000	-0.13481
	<i>Sepioteuthis australis</i>	<i>Sepioteuthis lessoniana</i>	0.14260	0.18752	400.0	360.0	0.10536	-0.27384
	<i>Haliphron atlanticus</i>	<i>Argonauta nodosa</i>	0.12780	0.22376	400.0	100.0	1.38629	-0.56011
	<i>Octopoteuthis nielsenii</i>	<i>Brachioteuthis beanii</i>	0.12082	0.14820	200.0	150.0	0.28768	-0.20426
	<i>Architeuthis sp.</i>	<i>Cycloteuthis sirventi</i>	0.10919	0.15327	6000.0	40.0	5.01064	-0.33911
	<i>Spirula spirula</i>	<i>Chtenopteryx sicula</i>	0.11771	0.13897	200.0	40.0	1.60944	-0.16603
	<i>Ancistrocheirus lesueuri</i>	<i>Pyroteuthis addolux</i>	0.13611	0.19445	390.0	20.0	2.97041	-0.35671
	<i>Enoploteuthis reticulata</i>	<i>Abralia sp.</i>	0.11937	0.12787	130.0	70.0	0.61904	-0.06879
	<i>Nautilus pompilius</i>	<i>Hapalochlaena maculosa</i>	0.80300	0.27603	200.0	50.0	1.38629	1.06785
	<i>Megaleledone senoi</i>	<i>Pareledone charcoti</i>	0.06272	0.02342	250.0	43.0	1.76026	0.98509
	<i>Octopus vulgaris</i>	<i>Octopus bimaculoides</i>	0.10295	0.08879	250.0	140.0	0.57982	0.14797
	<i>Eledonella pygmaea</i>	<i>Japetella diaphana</i>	0.08369	0.03192	200.0	100.0	0.69315	0.96389
	<i>Sepia aculeata</i>	<i>Sepia robsoni</i>	0.06430	0.00000	230.0	20.0	2.44235	

Data set	Big species	Little species	BL big	BL little	BS big	BS little	ln (BS <sub>Big</sub> /BS <sub>Little</sub> )	ln ( $\lambda_{Big}/\lambda_{Little}$ )
	<i>Sepia pipara</i>	<i>Idiosepius pygmaeus</i>	0.24111	0.20451	150.0	20.0	2.01490	0.16464
	<i>Sepiola robusta</i>	<i>Sepiola affinis</i>	0.12125	0.04952	30.0	25.0	0.18232	0.89548
	<i>Loligo forbesi</i>	<i>Loligo subulata</i>	0.10648	0.09186	900.0	200.0	1.50408	0.14769
	<i>Uroteuthis duvauceli</i>	<i>Loliolus japonica</i>	0.13119	0.08396	290.0	120.0	0.88239	0.44631
	<i>Cirrothauma murrayi</i>	<i>Stauroteuthis syrtensis</i>	0.13700	0.13423	220.0	90.0	0.89382	0.02043
	<i>Ommastrephes bartramii</i>	<i>Sthenoteuthis oualaniensis</i>	0.14605	0.10636	500.0	350.0	0.35667	0.31712
	<i>Chiroteuthis veranyi</i>	<i>Valbyteuthis danae</i>	0.11524	0.08271	77.0	20.0	1.34807	0.33168
	<i>Pholidoteuthis adami</i>	<i>Mastigoteuthis magna</i>	0.19727	0.07434	160.0	70.0	0.82668	0.97592
	<i>Histioteuthis hoylei</i>	<i>Psychroteuthis glacialis</i>	0.11620	0.11528	130.0	20.0	1.87180	0.00795
	<i>Gonatus berryi</i>	<i>Gonatus californiensis</i>	0.06164	0.03181	350.0	190.0	0.61091	0.66153
	<i>Gonatus onyx</i>	<i>Gonatus fabricii</i>	0.06367	0.05029	330.0	110.0	1.09861	0.23591
	<i>Gonatopsis borealis</i>	<i>Thysanoteuthis rhombus</i>	0.15391	0.14884	270.0	40.0	1.90954	0.03350
<b>16S</b>	<i>Megaleledone senoi</i>	<i>Pareledone charcoti</i>	0.00000	0.00408	250.0	43.0	1.76026	
	<i>Cistopus indicus</i>	<i>Octopus wolfi</i>	0.02287	0.04353	180.0	15.0	2.48491	-0.64362
	<i>Eledone moschata</i>	<i>Eledone massyae</i>	0.03114	0.12483	150.0	80.0	0.62861	-1.38846
	<i>Euprymna berryi</i>	<i>Euprymna scolopes</i>	0.01758	0.04685	50.0	30.0	0.51083	-0.98019
	<i>Loligo pealei</i>	<i>Loligo plei</i>	0.00496	0.01040	500.0	350.0	0.35667	-0.74040
	<i>Loligo gahi</i>	<i>Loligo opalescens</i>	0.00000	0.01202	280.0	190.0	0.38777	
	<i>Loligo vulgaris</i>	<i>Loligo reynaudi</i>	0.00000	0.04041	640.0	400.0	0.47000	
	<i>Loligo forbesi</i>	<i>Loligo subulata</i>	0.02224	0.05987	900.0	200.0	1.50408	-0.99028
	<i>Uroteuthis duvauceli</i>	<i>Loliolus japonica</i>	0.00575	0.02487	290.0	120.0	0.88239	-1.46446
	<i>Sepioteuthis lessoniana</i>	<i>Sepioteuthis sepioidea</i>	0.05222	0.15060	360.0	200.0	0.58779	-1.05916
	<i>Cirrothauma murrayi</i>	<i>Stauroteuthis syrtensis</i>	0.02025	0.04399	220.0	90.0	0.89382	-0.77581
	<i>Enoplateuthis reticulata</i>	<i>Abralia trigonura</i>	0.02649	0.02668	130.0	40.0	1.17865	-0.00715
	<i>Nautilus belauensis</i>	<i>Nautilus stenomphalus</i>	0.03485	0.00000	210.0	170.0	0.21131	
	<i>Nautilus pompilius</i>	<i>Hapalochlaena lunulata</i>	0.78029	0.04018	200.0	50.0	1.38629	2.96630
	<i>Octopus vulgaris</i>	<i>Octopus bimaculoides</i>	0.02624	0.01560	250.0	140.0	0.57982	0.52001
	<i>Octopus mototi</i>	<i>Octopus areolatus</i>	0.06258	0.05652	100.0	50.0	0.69315	0.10185
	<i>Octopus maorum</i>	<i>Octopus pallidus</i>	0.03891	0.01033	300.0	150.0	0.69315	1.32620
	<i>Tremoctopus violaceus</i>	<i>Japetella diaphana</i>	0.11090	0.09317	180.0	100.0	0.58779	0.17420
	<i>Cirroctopus glacialis</i>	<i>Grimpoteuthis sp.</i>	0.07327	0.02778	170.0	115.0	0.39087	0.96983
	<i>Sepia orbignyana</i>	<i>Sepia elegans</i>	0.06057	0.00000	120.0	90.0	0.28768	
	<i>Sepia pharaonis</i>	<i>Sepia esculenta</i>	0.04399	0.03435	430.0	180.0	0.87083	0.24736

Data set	Big species	Little species	BL big	BL little	BS big	BS little	ln (BS <sub>Big</sub> /BS <sub>Little</sub> )	ln ( $\lambda_{Big}/\lambda_{Little}$ )
	<i>Sepia papuensis</i>	<i>Idiosepius pygmaeus</i>	0.07676	0.05631	80.0	20.0	1.38629	0.30981
		<i>Nototodarus</i>						
	<i>Sthenoteuthis oualaniensis</i>	<i>hawaiiensis</i>	0.03456	0.02382	350.0	160.0	0.78276	0.37217
	<i>Spirula spirula</i>	<i>Chtenopteryx sicula</i>	0.06287	0.02968	200.0	40.0	1.60944	0.75060
	<i>Moroteuthis ingens</i>	<i>Moroteuthis knipovitchi</i>	0.00619	0.01750	940.0	350.0	0.98795	-1.03927
	<i>Leachia pacifica</i>	<i>Helicocranchia pfefferi</i>	0.05860	0.02326	50.0	17.0	1.07881	0.92400
<b>Gastropoda (11, 12)</b>								
28S	<i>Milax budapestensis</i>	<i>Deroceras reticulatum</i>	0.00989	0.01775	54.8	41.8	0.26950	-0.58486
	<i>Arion ater</i>	<i>Arion hortensis</i>	0.00308	0.00465	122.5	27.4	1.49787	-0.41194
	<i>Rumina decollata</i>	<i>Subulina striatella</i>	0.01391	0.02188	27.8	19.6	0.34787	-0.45296
	<i>Aplysia punctata</i>	<i>Acteon tornatilis</i>	0.07125	0.26992	300.0	25.0	2.48491	-1.33193
	<i>Trichia striolata</i>	<i>Trichia hispidae</i>	0.00000	0.00380	110.3	42.4	0.95551	
	<i>Chilostoma cingulatum</i>	<i>Chilostoma glaciale</i>	0.00285	0.01136	254.6	96.0	0.97518	-1.38278
	<i>Helix pomatia</i>	<i>Theba pisana</i>	0.00743	0.02628	1549.2	232.4	1.89712	-1.26328
	<i>Cochlicopa lubrica</i>	<i>Lauria cylindracea</i>	0.02307	0.02316	16.2	6.5	0.90437	-0.00389
	<i>Vallonia costata</i>	<i>Vallonia eccentrica</i>	0.00170	0.00348	3.0	2.2	0.32474	-0.71640
	<i>Cochlodina laminata</i>	<i>Azeca goodalli</i>	0.02225	0.03716	63.9	15.3	1.43025	-0.51289
	<i>Macrogaster rolphii</i>	<i>Clausilia bidentata</i>	0.00721	0.01365	43.4	25.9	0.51668	-0.63827
	<i>Geomachus maculosus</i>	<i>Arion silvaticus</i>	0.03008	0.00511	73.5	34.6	0.75204	1.77266
	<i>Lymnaea stagnalis</i>	<i>Physa fontinalis</i>	0.06939	0.00000	1250.0	80.5	2.74266	
	<i>Hygromia cinctella</i>	<i>Discus rotundus</i>	0.05087	0.02423	71.0	17.0	1.42980	0.74168
	<i>Cepaea nemoralis</i>	<i>Monacha cartusiana</i>	0.02197	0.01268	344.7	95.8	1.28021	0.54965
	<i>Perforatella incarnata</i>	<i>Perforatella bidentata</i>	0.00715	0.00591	143.5	88.7	0.48060	0.19047
	<i>Vitrina pellucida</i>	<i>Vitrea crystallina</i>	0.01759	0.01020	15.6	5.3	1.07053	0.54494
	<i>Oxychilus cellarius</i>	<i>Oxychilus alliaris</i>	0.02115	0.00321	52.0	18.4	1.04065	1.88537
	<i>Phytia myosotis</i>	<i>Carychium tridentatum</i>	0.04853	0.02941	22.5	1.6	2.63507	0.50085
	<i>Viviparus viviparus</i>	<i>Lacuna pallidula</i>	0.14239	0.05894	901.7	36.0	3.22080	0.88205
<i>Calliostoma zizyphinum</i>	<i>Gibbula cineraria</i>	0.07033	0.00000	900.0	240.0	1.32176		
<i>Littorina littorea</i>	<i>Littorina obtusata</i>	0.10716	0.00296	1120.0	255.0	1.47982	3.58913	
<i>Buccinum undatum</i>	<i>Ocenebra erinacea</i>	0.10219	0.02948	7480.0	1250.0	1.78909	1.24312	
COI	<i>Deroceras reticulatum</i>	<i>Deroceras laeve</i>	0.14880	0.33814	45.8	19.4	0.86138	-0.82086
	<i>Aplysia punctata</i>	<i>Philine aperta</i>	0.22247	0.39378	300.0	70.0	1.45529	-0.57100
	<i>Arion subfuscus</i>	<i>Arion circumscriptus</i>	0.50045	0.57015	59.2	34.6	0.53522	-0.13039
	<i>Helix aspersa</i>	<i>Cepaea nemoralis</i>	0.41769	0.87888	1060.7	439.9	0.88004	-0.74391



Data set	Big species	Little species	BL big	BL little	BS big	BS little	ln (BS <sub>Big</sub> /BS <sub>Little</sub> )	ln ( $\lambda_{Big}/\lambda_{Little}$ )
	<i>Arianta arbustorum</i>	<i>Perforatella incarnata</i>	0.56038	0.79144	487.4	143.5	1.22284	-0.34524
	<i>Capulus ungaricus</i>	<i>Calyptraea chinensis</i>	0.09417	0.44070	1000.0	75.0	2.59027	-1.54326
	<i>Rumina decollata</i>	<i>Onchidella celtica</i>	0.44111	0.36771	27.8	12.0	0.83829	0.18200
	<i>Helicella itala</i>	<i>Trochoidea geyeri</i>	0.61098	0.42647	116.2	26.5	1.47968	0.35952
	<i>Littorina littorea</i>	<i>Littorina obtusata</i>	0.11304	0.10989	800.0	255.0	1.14335	0.02826
	<i>Diodora graeca</i>	<i>Theodoxus fluviatilis</i>	0.78920	0.33086	400.0	66.0	1.80181	0.86932
	<i>Bithynia tentaculata</i>	<i>Melarhappe neritoides</i>	0.37416	0.31005	90.8	45.0	0.70150	0.18795
	<i>Hydrobia ulvae</i>	<i>Hydrobia acuta</i>	0.14247	0.10158	18.0	6.0	1.09861	0.33828
	<i>Neptunea antiqua</i>	<i>Nucella lapillus</i>	0.29336	0.27637	10000.0	924.0	2.38163	0.05966
<b>Echinodermata</b>								
<b>18S</b>	<i>Acrocnida brachiata</i>	<i>Amphipholis squamata</i>	0.01107	0.01499	12.0	5.0	0.87547	0.30314
	<i>Amphiura chiajei</i>	<i>Amphiura filiformis</i>	0.00000	0.00099	11.0	10.0	0.09531	
	<i>Ophiocomina nigra</i>	<i>Ophiocoma wendtii</i>	0.00000	0.01243	25.0	5.5	1.51828	
	<i>Paracentrotus lividus</i>	<i>Psammechinus miliaris</i>	0.00217	0.00232	70.0	50.0	0.33647	-0.06684
	<i>Sphaerechinus granularis</i>	<i>Lytechinus variegatus</i>	0.00000	0.04260	130.0	85.0	0.42488	
	<i>Bohadschia vitiensis</i>	<i>Holothuria edulis</i>	0.00253	0.00443	320.0	200.0	0.47000	-0.56018
	<i>Leptosynapta inhaerens</i>	<i>Actinopyga miliaris</i>	0.05875	0.08524	300.0	250.0	0.18232	-0.37218
	<i>Asterias amurensis</i>	<i>Aphelasterias japonica</i>	0.00884	0.00070	300.0	240.0	0.22314	2.53596
	<i>Echinaster sepositus</i>	<i>Porania pulvillus</i>	0.08240	0.00352	200.0	120.0	0.51083	3.15312
	<i>Dermasterias imbricata</i>	<i>Asterina gibbosa</i>	0.00388	0.00342	200.0	50.0	1.38629	0.12619
	<i>Echinocardium cordatum</i>	<i>Brissopsis lyrifera</i>	0.00557	0.00444	90.0	70.0	0.25131	0.22674
	<i>Neopentadactyla mixta</i>	<i>Cucumaria elongata</i>	0.02235	0.01114	250.0	150.0	0.51083	0.69628
<b>28S</b>	<i>Florometra serratissima</i>	<i>Antedon bifida</i>	0.00000	0.01839	141.4	70.7	0.69315	
	<i>Crossaster papposus</i>	<i>Asterina gibbosa</i>	0.00000	0.00368	350.0	50.0	1.94591	
	<i>Marthasterias glacialis</i>	<i>Asterias rubens</i>	0.00000	0.02231	700.0	500.0	0.33647	
	<i>Ophiocomina nigra</i>	<i>Amphipholis squamata</i>	0.01077	0.08153	25.0	5.0	1.60944	-2.02421
	<i>Sphaerechinus granularis</i>	<i>Lytechinus variegatus</i>	0.00000	0.00369	130.0	85.0	0.42488	
	<i>Spatangus purpureus</i>	<i>Echinocardium cordatum</i>	0.00000	0.00357	120.0	90.0	0.28768	
	<i>Leptosynapta inhaerens</i>	<i>Holothuria forskali</i>	0.05339	0.06733	300.0	200.0	0.40547	-0.23198
	<i>Echinus esculentus</i>	<i>Psammechinus miliaris</i>	0.01379	0.01768	180.0	50.0	1.28093	-0.24849
	<i>Luidia ciliaris</i>	<i>Astropecten irregularis</i>	0.01281	0.01058	600.0	200.0	1.09861	0.19126
	<i>Ophiura ophiura</i>	<i>Ophiura albida</i>	0.00560	0.00352	35.0	12.0	1.07044	0.46431

Data set	Big species	Little species	BL big	BL little	BS big	BS little	ln (BS <sub>Big</sub> /BS <sub>Little</sub> )	ln ( $\lambda_{Big}/\lambda_{Little}$ )
	<i>Strongylocentrotus purpuratus</i>	<i>Arbacia lixula</i>	0.00660	0.00000	100.0	50.0	0.69315	
<b>Platyhelminthes (13)</b>								
<b>18S</b>	<i>Echinostoma revolutum</i>	<i>Echinostoma caproni</i>	0.00068	0.00138	18.2	5.7	1.17141	-0.70775
	<i>Diphyllobothrium latum</i>	<i>Schistocephalus solidus</i>	0.00000	0.00462	25000.0	165.0	5.02069	
	<i>Taenia solium</i>	<i>Taenia crassiceps</i>	0.00000	0.01053	4500.0	140.0	3.47019	
	<i>Hymenolepis microstoma</i>	<i>Echinococcus granulosus</i>	0.02881	0.05397	80.0	5.0	2.77259	-0.62771
	<i>Triaenophorus nodulus</i>	<i>Dendrocoelum lacteum</i>	0.04809	0.26554	240.0	19.5	2.51022	-1.70869
	<i>Polycelis tenuis</i>	<i>Polycelis nigra</i>	0.00000	0.00144	10.0	9.8	0.02532	
	<i>Fasciola hepatica</i>	<i>Clonorchis sinensis</i>	0.02151	0.01655	25.0	15.0	0.51083	0.26213
	<i>Schistosoma japonicum</i>	<i>Schistosoma mansoni</i>	0.01089	0.00449	20.0	10.0	0.69315	0.88599
	<i>Schistosoma intercalatum</i>	<i>Schistosoma haematobium</i>	0.00140	0.00068	20.5	20.0	0.02469	0.72213
	<i>Schistosomatium douthitti</i>	<i>Clinostomum complanatum</i>	0.02910	0.02466	7.4	5.5	0.28995	0.16556
	<i>Hymenolepis diminuta</i>	<i>Hymenolepis nana</i>	0.01185	0.01086	950.0	30.0	3.45526	0.08724
<b>COI</b>		<i>Schistosomatium douthitti</i>						
	<i>Schistosoma japonicum</i>	<i>Schistosoma douthitti</i>	0.09400	0.40530	20.0	7.4	1.00103	-1.46133
	<i>Schistosoma intercalatum</i>	<i>Schistosoma mansoni</i>	0.15260	0.16024	20.5	10.0	0.71784	-0.04885
	<i>Taenia saginata</i>	<i>Taenia solium</i>	0.09214	0.11441	10500.0	4500.0	0.84730	-0.21648
	<i>Dendrocoelum lacteum</i>	<i>Polycelis tenuis</i>	0.12802	0.13332	19.5	10.0	0.66783	-0.04057
	<i>Fasciola hepatica</i>	<i>Echinostoma caproni</i>	0.14032	0.13349	25.0	5.7	1.48722	0.04990
	<i>Clonorchis sinensis</i>	<i>Apatemon gracilis</i>	1.21059	0.83641	15.0	0.7	3.02098	0.36974
	<i>Diphyllobothrium latum</i>	<i>Echinococcus granulosus</i>	0.17936	0.11031	25000.0	5.0	8.51719	0.48610
	<i>Ligula intestinalis</i>	<i>Schistocephalus solidus</i>	0.32002	0.16251	550.0	165.0	1.20397	0.67764
	<i>Hymenolepis diminuta</i>	<i>Hymenolepis nana</i>	0.21286	0.16999	950.0	30.0	3.45526	0.22490
<b>Hymenoptera (14)</b>								
<b>28S</b>	Gasteruptidae	Ceraphronidae	0.04176	0.12199	28.0	1.6	2.87406	-1.07200
	Chrysididae	Dryinidae	0.01203	0.03996	7.1	3.9	0.60199	-1.20048
	Ibaliidae	Figitidae	0.01004	0.07590	14.1	2.7	1.64171	-2.02284
	Pelecniidae	Roproniidae	0.03799	0.07627	42.4	8.9	1.55676	-0.69696
	Pteromalidae	Mymaridae	0.00877	0.18079	2.0	0.6	1.15129	-3.02600

Data set	Big species	Little species	BL big	BL little	BS big	BS little	ln (BS <sub>Big</sub> /BS <sub>Little</sub> )	ln ( $\lambda_{Big}/\lambda_{Little}$ )
	Scoliidae	Mutillidae	0.07012	0.02173	21.9	9.5	0.83699	1.17151
	Chalcididae	Torymidae	0.06599	0.04730	4.9	2.5	0.69315	0.33299
	Perilampidae	Aphelinidae	0.06606	0.03786	3.2	0.9	1.24245	0.55667
	Eucharitidae	Eulophidae	0.18259	0.04044	5.5	5.0	0.09116	1.50742
	Proctotrupidae	Vanhorniidae	0.16832	0.02869	6.9	6.0	0.14384	1.76932
	Monomachidae	Heloridae	0.15246	0.04727	12.4	7.0	0.57257	-1.17103
<b>COI</b>	Stephanidae	Ceraphronidae	0.17350	0.26085	12.7	1.6	2.07944	-0.40777
	Pelecniidae	Heloridae	0.14390	0.32516	42.4	7.0	1.80186	-0.81520
	Monomachidae	Diapriidae	0.17850	0.10724	12.4	6.7	0.61515	0.50952
	Pteromalidae	Mymaridae	0.14499	0.10313	2.0	0.6	1.15129	0.34067
	Leucospidae	Torymidae	0.15426	0.07936	5.7	2.5	0.83699	0.66465
	Chalcididae	Aphelinidae	0.15690	0.05288	4.9	0.9	1.65579	1.08758
	Vanhorniidae	Platygastridae	0.28693	0.21908	6.0	1.6	1.33361	0.26980
	Ibaliidae	Figitidae	0.16144	0.12589	14.1	2.7	1.64171	0.24873
<b>Annelida (15-17)</b>								
<b>18S</b>	Opheliidae	Syllidae	0.02346	0.13844	50.0	20.0	0.91629	-1.77514
	Sabellidae	Serpulidae	0.03062	0.22814	75.0	22.0	1.22645	-2.00831
	Chaetopteridae	Oweniidae	0.02183	0.07750	217.0	27.0	2.08406	-1.26699
	Lumbrineridae	Dorvilleidae	0.01695	0.12346	109.0	13.0	2.12640	-1.98565
	Onuphidae	Eunicidae	0.01891	0.03903	193.0	118.0	0.49201	-0.72464
	Glyceridae	Phyllodocidae	0.01675	0.03852	295.0	74.0	1.38291	-0.83278
	Nephtyidae	Nereididae	0.04311	0.16363	161.0	117.0	0.31923	-1.33385
	Arenicolidae	Maldanidae	0.09009	0.06118	107.0	51.0	0.74100	0.38699
	Terebellidae	Ampharetidae	0.07688	0.03604	151.0	30.0	1.61608	0.75762
	Pectinariidae	Protodrilidae	0.25079	0.10071	128.0	7.0	1.38629	0.91237
	Polynoidae	Sigalionidae	0.03600	0.01097	64.0	13.0	1.59393	1.18835
<b>H3</b>	Sabellariidae	Serpulidae	0.06007	0.19332	25.0	22.0	0.12783	-1.16884
	Polynoidae	Sigalionidae	0.03543	0.04967	64.0	13.0	1.59393	-0.33784
	Chaetopteridae	Oweniidae	0.06897	0.12203	217.0	27.0	2.08406	-0.57060
	Nephtyidae	Phyllodocidae	0.02524	0.14506	161.0	74.0	0.77734	-1.74872
	Terebellidae	Pectinariidae	0.06880	0.10143	151.0	28.0	1.68508	-0.38817
	Lumbricidae	Cirratulidae	0.16969	0.06937	219.0	35.0	1.83372	0.89452
	Nereidae	Spionidae	0.04656	0.15852	117.0	109.0	0.07083	-1.22514

Data set	Big species	Little species	BL big	BL little	BS big	BS little	ln (BS <sub>Big</sub> /BS <sub>Little</sub> )	ln ( $\lambda_{Big}/\lambda_{Little}$ )
	Maldanidae	Opheliidae	0.05083	0.04254	51.0	50.0	0.01980	0.17804
<b>Bivalvia (18)</b>								
<b>18S</b>	Arcidae	Noetiidae	0.00060	0.00148	2163.6	1261.4	0.53952	-0.90287
	Cardiidae	Chamidae	0.12035	0.34775	3541.5	2712.7	0.26660	-1.06108
	Glycymerididae	Limopsidae	0.00551	0.00594	2098.1	515.3	1.40401	-0.07514
	Lyonsiidae	Cuspidariidae	0.01326	0.06972	1872.0	140.2	2.59155	-1.65974
	Pinnidae	Limidae	0.01854	0.05492	26684.4	535.9	3.90785	-1.08595
	Pteriidae	Isognomonidae	0.00915	0.01168	19754.0	3337.5	1.77813	-0.24412
	Gastrochaenidae	Teredinidae	0.06417	0.05439	322.0	70.2	1.52320	0.16536
	Matricidae	Corbiculidae	0.02807	0.01297	5401.2	1897.4	1.04612	0.77206
	Myidae	Corbulidae	0.00788	0.00351	4085.0	192.03	3.05743	0.80871
	Ostreoidae	Anomidae	0.15037	0.02058	12183.7	3616.6	1.21457	1.98878
	Sareptidae	Nuculidae	0.05118	0.00677	569.6	54.7	2.34271	2.02285
	Spondylidae	Pectinidae	0.01926	0.01342	20807.7	3232.2	1.86218	0.36128
Tellinidae	Donacidae	0.03662	0.0115	1113.6	886.1	0.22855	1.15825	
<b>28S</b>	Sareptidae	Nuculidae	0.02619	0.06352	569.6	54.7	2.34271	-0.88598
	Limopsidae	Philobryidae	0.00366	0.02413	515.3	52.0	2.29352	-1.88599
	Pinnidae	Limidae	0.01731	0.03599	26684.4	535.9	3.90785	-0.73196
	Spondylidae	Pectinidae	0.02098	0.02204	20807.7	3232.2	1.86218	-0.04929
	Tellinidae	Donacidae	0.02648	0.11554	1113.6	886.1	0.22855	-1.47323
	Myidae	Corbulidae	0.00000	0.05075	4085.0	192.0	3.05743	
	Arcidae	Noetiidae	0.04029	0.00232	2163.6	1261.4	0.53952	2.85454
	Pteriidae	Isognomonidae	0.07545	0.03674	19754.0	3337.5	1.77813	0.71960
	Chamidae	Lucinidae	0.55062	0.33341	2712.7	834.8	1.17856	0.50167
	Matricidae	Corbiculidae	0.07735	0.03622	5401.2	1897.4	1.04612	0.75873
	Galeommatidae	Lasaeidae (Erycinidae)	0.02819	0.00548	74.0	9.0	2.10684	1.63786
	Gastrochaenidae	Teredinidae	0.15893	0.02014	322.0	70.2	1.52320	2.06576
<b>COI</b>	Myidae	Corbulidae	0.30938	0.33050	4085.0	192.1	3.05743	-0.06604
	Arcidae	Noetiidae	0.35145	0.45308	2163.6	1261.4	0.53952	-0.25400
	Pinnidae	Ostreoidae	0.37051	0.51054	26684.4	12183.7	0.78398	-0.32059
	Spondylidae	Pectinidae	0.34795	0.49959	20807.7	3232.2	1.86218	-0.36173
	Pteriidae	Isognomonidae	0.25074	0.47778	19754.0	3337.5	1.77813	-0.64473
	Limopsidae	Philobryidae	0.14087	0.42147	515.3	52.0	2.29352	-1.09591
	Tellinidae	Donacidae	0.13982	0.07255	1113.6	886.1	0.22855	0.65608

Data set	Big species	Little species	BL big	BL little	BS big	BS little	ln (BS <sub>Big</sub> /BS <sub>Little</sub> )	ln ( $\lambda_{Big}/\lambda_{Little}$ )
	Cardiidae	Lucinidae	0.66028	0.49433	3541.5	834.8	1.44516	0.28946
	Matricidae	Corbiculidae	0.36885	0.20243	5401.2	1897.4	1.04612	0.60000
	Lyonsiidae	Cuspidariidae	0.85616	0.58970	1872.0	140.2	2.59155	0.37284
<b>Monogenea (19-21)</b>								
<b>18S</b>	Dactylogyridae	Diplectanidae	0.15216	0.07255	0.9	0.7	0.26663	0.74066
	Tetraonchidae	Gyrodactylidae	0.14734	0.16449	1.2	0.8	0.41804	-0.11011
	Capsalidae	Monocotylidae	0.19721	0.05826	7.2	3.9	0.61825	1.21935
	Polystomatidae	Sphyranuridae	0.03747	0.11447	3.9	2.6	0.40547	-1.11677
	Hexabothriidae	Mazocraeidae	0.05497	0.04384	6.5	4.1	0.45928	0.22624
	Neothoracocotylidae	Gotocotylidae	0.01375	0.00879	12.0	6.2	0.65393	0.44742
	Diclidophoridae	Plectanocotylidae	0.05030	0.03034	5.7	3.5	0.48946	0.50554
<b>28S</b>	Diclidophoridae	Discocotylidae	0.09619	0.05538	5.7	4.5	0.23150	0.55211
	Hexastomatidae	Plectanocotylidae	0.01482	0.15249	10.6	3.5	1.10715	-2.33112
	Heteraxinidae	Axinidae	0.06486	0.01252	5.0	4.2	0.16182	1.64490
	Hexabothriidae	Polystomatidae	0.16714	0.30938	6.5	3.9	0.50929	-0.61574
	Bothitrematidae	Diplectanidae	0.28911	0.35295	2.0	0.7	0.99633	-0.19952
	Capsilidae	Gyrodactylidae	0.39660	0.47829	7.2	0.8	2.20980	-0.18729
	Neothoracocotylidae	Allodiscocotylidae	0.05217	0.07129	12.0	2.1	1.76707	-0.31225

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