

	D	J S		P	H	C o l u m n s	R e f e r e n c e	Eukaryotes
No.	D D D D D D D D K K K K K K K K K K 1	U U O O C C O O ORDER	FAMILY	GENUS	PhyCoS(TAP)	HerColP_Euks		
1	Eubacteria							
2	Archaea							
3	Eukarya							
4	SAR Group							
5	Heterokonta/ Stramenopiles							
6		#Oomycetes (#Water #Moulds)			0.744	0.335		
7				£Phytophthora				
8				£Pythium				
9				£Saprolegnia				
10		#Phaeophyceae (#Brown #Algae)			0.694	0.122		
11				£Fucus				
12				£Pelvetia				
13				£Ascophyllum				
14				£Laminaria				
15				£Sargassum				
16		#Bacillariophyceae (#Diatoms)			0.622	0.121		
17	Alveolata							
18		€!Dinoflagellata			0.694	0.174		
19		€!Ciliophora			0.678	0.542		
20				£Paramecium				
21		€!Apicomplexa			0.650	0.358		
22				£Toxoplasma				
23				£Plasmodium				
24	€Rhizaria				0.622	0.373		
25	€Haptista				0.678	0.509		
26				£Coccolithus				
27	€Excavata				0.694	1.041		
28				£Euglena				
29				£Trypanosoma				
30				£Naegleria				
31				£Giardia				
32				£Trichomonas				
33	Archeplastida							
34		!Glaucophyta				1.360		
35				€£Cyanophora	0.916			
36				€£Glaucocystis	0.866			
37				€£Cyanoptyches^	0.944			
38				€£Gloeochaete^	0.900			
39	I Rhodophyta (Red Algae)					0.880		
40		~Eurhodophytina						
41		#Bangiophyceae	%Bangiales					
42				€&Bangiaceae	0.724			
43				€&Granuliaceae	0.789			
44			%Goniotracheales					
45				€£Goniotrichum	0.828			
46		#Florideophyceae						
47			€%Hildenbrandiales		0.606			
48			€%Acrochaetiales		0.590			
49			€%Balbianiales		0.691			
50			%Balliales					
51				€£Ballia	0.699			
52			€%Batrachospermales		0.606			
53			%Colaenematales					
54				€£Colaenema	0.671			
55			€%Nematiales		0.626			
56			€%Palmariales		0.699			
57			%Entwisleiales					
58				€£Entwisleia^	0.791			
59			€%Thoreales		0.726			
60			€%Corallinales (€%Coralline €%Algae)		0.531			
61								

62			€%Corallinapetrales	0.671
63			€%Rhodogorgonales	0.763
64			€%Sporolithales	0.634
65			€%Ahnfeltiales	0.682
66			€%Pihelliales	0.791
67			€%Bonnemaisionales	0.643
68			€%Ceramiales	0.492
69			€%Gelidiales	0.595
70			€%Gigartinales	0.515
71			€%Gracilariales	0.578
72			€%Halymeniales	0.590
73			€%Nemastomatales	0.648
74			€%Peyssonneliales	0.626
75			€%Plocamiales	0.620
76			€%Rhodymeniales	0.562
77			€%Acrosymphytales	0.735
78			€%Atractophorales	0.726
79			€%Catenellopsidales	0.763
80			€%Sebdeniales	0.643
81		~Proteorhodophytina		
82		#Compsopogonophyceae		
83			%Compsopogonales	
84			€&Boldiaceae	0.756
85			€&Compsopogonaceae	0.719
86			%Erythropeltidales	
87			€&Erythropeltidaceae	0.657
88			€&Erythrotrichiaceae	0.784
89			€%Rhodochaetales	0.856
90		#Porphyridiophyceae		
91			€€Erythrobolus	0.763
92			€€Porphyridium	0.763
93			€€Timsipurckia^	0.856
94		€#Rhodellophyceae		0.771
95		#Stylonematophyceae		
96			€%Rufusiales	0.844
97			€%Stylonematales	0.724
98		~Cyanidiophytina		
99		#Cyanidiophyceae		
100			&Cyanidiaceae	
101			€€Cyanidioschyzon^	0.872
102			€€Cyanidium	0.828
103			€€Pluto	0.872
104			€€Rhodococcus	0.701
105			&Galdieriaceae	
106			€€Galdieria	0.872
107	Viridiplantae			
108	!(para) Chlorophyta (Green Algae)			0.357
109		#Chlorodendrophyceae		
110			&Chlorodendraceae	
111			€€Prasinocladus^	0.832
112			€€Scherffelia	0.711
113			€€Tetraselmis	0.667
114			€&Halosphaeraceae	0.755
115		#Chloropicophyceae		
116			€€Chloropicon	0.832
117			€€Chloroparvula	0.848
118		#Mamiellophyceae		
119			€%Dolichomastigales	0.859
120			%Mamiellales	
121			€€Bathycoccus^	0.795
122			€€Ostreococcus	0.750
123			€€Mamiella^	0.750
124			€€Mantoniella	0.739
125			€€Micromonas	0.739
126			%Monomastigales	
127			€€Monomastix	0.859
128		#Nephrophyceae		

129					€€Anticomonas	0.807
130					€€Argillamonas	0.807
131					€€Bipedinomonas	0.807
132					€€Fluitomonas	0.807
133					€€Hiemalomonas	0.807
134					€€Myochloris	0.807
135					€€Nephroselmis	0.698
136					€€Prototractomonas	0.807
137					€€Pseudopedinomonas	0.807
138					€€Sennia	0.807
139					€€Sinamonas	0.807
140		#Palmophyllophyceae/ #Prasinophyceae				
141			%Palmophyllales			
142					€€Palmoclathrus^	0.832
143					€€Palmophyllum	0.767
144					€€Verdigellas	0.767
145			%Prasinococcales			
146					€€Prasinococcus^	0.876
147		#Pedinophyceae				
148			%Marsupiomonadales			
149				&Marsupiomonadaceae		
150					€€Marsupiomonas^	0.804
151					€€Protoeuglena	0.804
152				&Resultomonadaceae		
153					€€Resultomonas^	0.832
154			%Pedinomonadales			
155					€€Anisomonas	0.795
156					€€Chlorochytridion	0.795
157					€€Dioriticamonas	0.795
158					€€Pedinomonas	0.767
159					€€Resultor^	0.795
160			%Scourfieldiales			
161					€€Scourfieldia	0.832
162		#Picocystophyceae				
163					€€Picocystis^	0.904
164		#Pyramimonadophyceae				
165			%Pseudoscourfieldiales			
166					€€Crassosphaera	0.832
167					€€Pseudoscourfieldia	0.832
168					€€Pycnococcus	0.832
169					€%Pyramimonadales	0.723
170		#Ulvophyceae				
171			€%Bryopsidales			0.546
172			%Chlorocystidiales			
173					€€Chlorocystis	0.704
174					€€Desmochlons	0.732
175			€%Cladophorales			0.574
176			%Dasycladales			
177				€&Dasycladaceae		0.639
178				€&Polyphysaceae		0.646
179			%Ignatiales			
180					€€Ignatius^	0.776
181					€€Pseudocharacium	0.776
182			€%Oltmannsiellopsidales			0.739
183			€%Receptaculitales			0.711
184			€%Scotinosphaerales			0.776
185			%Sykidiales			
186					€€Sykidion	0.759
187			€%Trentepohliales			0.618
188			€%Ulotrichales			0.639
189			€%Ulvaes			0.618
190		#Trebouxiophyceae				
191			%Chlorellales			
192				€&Chlorellaceae		0.563
193				€&Eremosphaeraceae		0.711
194				€&Leptosiraceae		0.655
195				€&Oocystaceae		0.615

196			%Microthamniales		
197				€€Fusochloris^	0.804
198				€€Microthamnion^	0.776
199			€%Phyllosiphonales		0.767
200			%Prasiolales		
201				€&Koliellaceae	0.743
202				€&Prasiolaceae	0.704
203				€&Stichococcaceae	0.715
204			%Trebouxiales		
205				€&Botryococcaceae	0.723
206				€&Choricystidaceae	0.695
207				€&Trebouxiaceae	0.602
208			€%Watanabeales		0.732
209		#Chlorophyceae			
210			%Chaetopeltidales		
211				€&Chaetopeltidaceae	0.755
212				&Dicranochaetaceae	
213				€€Dicranochaete	0.811
214			€%Chaetophorales		0.761
215			€%Chlamydomonadales		0.674
216			%Oedogoniales		
217				€€Bulbochaete	0.767
218				€€Oedocladium	0.795
219				€€Oedogonium^	0.646
220			€%Sphaeropleales		0.702
221	Streptophyta				
222		!(para) Charophyta			0.357
223		#Mesostigmatophyceae			
224				€€Mesostigma	0.928
225		#Chlorokybophyceae			
226				€€Chlorokybus	0.928
227		€#Klebsormidiophyceae			0.819
228		€#Charophyceae			0.687
229		#Coleochaetophyceae			
230			€%Chaetosphaeridiales		0.835
231			€%Coleochaetales		0.791
232		#Zygnematophyceae			
233			€%Zygnematales		0.747
234			€%Desmidiates		0.780
235			€%Spirogyrales		0.798
236			€%Serritales		0.863
237			€%Spirogloiales		0.863
238	Embryophyta (Land Plants)				
239	(para) Bryophytes+				
240		!Marchantiophyta (Liverworts)			0.374
241		#Haplomitriopsida			
242			%Calobryales		
243				€€Haplomitrium	0.900
244			€%Treubiales		0.884
245		#Marchantiopsida			
246			€%Blasiales		0.798
247			%Lunulariales		
248				€€Lunularia^	0.891
249			€%Marchantiales		0.634
250			%Neohodgsoniales		
251				€€Neohodgsonia^	0.891
252			€%Sphaerocarpaceae		0.847
253		#Jungermannioptida			
254			€%Fossombroniales		0.766
255			€%Jungermanniales		0.534
256			€%Metzgeriales		0.715
257			€%Pallaviciniales		0.780
258			€%Pelliales		0.807
259			%Pleuroziales		
260				€€Pleurozia	0.872
261			€%Porellales		0.687
262			€%Ptilidiales		0.659

263	!Bryophyta (Mosses)					0.364
264		#Takakiopsida				
265				€€Takakia	0.916	
266		#Sphagnopsida				
267			%Sphagnales			
268				€€Ambuchanania^	0.861	
269				€€Eosphagnum^	0.861	
270				€€Flatbergium	0.861	
271				€€Sphagnum	0.639	
272		#Andreaeopsida				
273				€€Acroschisma^	0.888	
274				€€Andreaea	0.752	
275		#Andreaeobryopsida				
276				€€Andreaebryum^	0.916	
277		#Oedipodiopsida				
278				€€Oedipodium^	0.916	
279		€#Polytrichopsida			0.675	
280		#Tetraphidopsida				
281				€€Tetraphis	0.861	
282				€€Tetradontium	0.844	
283		#Bryopsida				
284			!Buxbaumiidae			
285				€€Buxbaumia^	0.729	
286			!Diphysciidae			
287				€€Diphyscium^	0.773	
288			€!Gigaspermidae		0.838	
289			!Timmiidae			
290				€€Timmia^	0.766	
291			€!Funariidae		0.746	
292			€!Dicranidae		0.625	
293			€!Bryidae		0.560	
294	!Anthocerotophyta (Hornworts)					0.412
295		#Leiosporocerotopsida				
296				€€Leiosporoceros^	0.972	
297		#Anthocerotopsida				
298			€%Anthocerotales		0.759	
299			€%Dendrocerotales		0.780	
300			€%Notothyladales		0.861	
301			%Phymatocerotales			
302				€€Phymatoceros^	0.916	
303	Tracheophytes (Vascular Plants)					
304	(para) Pteridophytes+					
305	!(para) Lycophytes					0.305
306			%Isoetales (%Quillworts)			
307				€€Isoetes	0.744	
308			€%Lycopodiales (€%Clubmosses, €%Firmosses)		0.715	
309			%Selaginellales (%Spikemosses)			
310				€€Selaginella	0.692	
311	Euphyllophytes					
312	!Monilophyta (Ferns)					0.324
313			%Equisetales (%Horsetails)			
314				€€Equisetum	0.835	
315			€%Marattiales €%Ophioglossales (€%Adder's €%Tongues)		0.768	
316			%Psilotales (%Whisk %Ferns)			
317				€€Psilotum	0.888	
318				€€Tmesipteris	0.872	
319						
320	Spermatophytes (Seed Plants)					
321	!Angiospermae (Flowering Plants)					0.080
322		~(Basal Angiosperms)				
323			%Amborellales			
324				€€Amborella^	0.928	
325			%Nymphaeales			
326				€&Cabombaceae &Hydatellaceae	0.819	
327						

328					€€Trithuria	0.795
329					€&Nymphaeaceae	0.707
330				%Austrobaileyales		
331					&Austrobaileyaceae	
332					€€Austrobaileya^	0.884
333					€&Schisandraceae	0.726
334					&Trimeniaceae	
335					€€Trimenia	0.800
336			~(Core Angiosperms)			
337				%Chloranthales		
338					€€Ascarina	0.816
339					€€Chloranthus	0.789
340					€€Hedyosmum	0.735
341					€€Sarcandra	0.844
342				%Ceratophyllales		
343					€€Ceratophyllum	0.872
344				{Magnoliids		
345				%Canellales		
346					€&Canellaceae	0.733
347					€&Winteraceae	0.663
348				€%Laurales		0.650
349				€%Magnoliales		0.643
350				%Piperales		
351					€&Aristolochiaceae	0.578
352					€&Piperaceae	0.522
353					€&Saururaceae	0.756
354				{Monocots		
355				%Acorales		
356					€€Acorus	0.804
357				€%Alismatales		0.626
358				€%Asparagales		0.517
359				%Dioscoreales		
360					€&Burmanniaceae	0.595
361					€&Dioscoreaceae	0.516
362					€&Nartheciaceae	0.644
363				€%Liliales		0.554
364				€%Pandanales		0.543
365				%Petrosaviales		
366					€€Japonolirion^	0.804
367					€€Petrosavia	0.759
368				%Arecales		
369					€&Arecaceae	0.489
370					€&Dasypogonaceae	0.748
371				€%Commelinales		0.568
372				€%Poales		0.437
373				€%Zingiberales		0.526
374				{Eudicots		
375				}(Basal Eudicots)		
376				%Buxales		
377					€&Buxaceae	0.608
378					&Didymelaceae	
379					€€Didymeles	0.772
380					&Haptanthaceae	
381					€€Haptanthus^	0.800
382				%Proteales		
383					&Nelumbonaceae	
384					€€Nelumbo	0.761
385					&Platanaceae (&Plane &Trees)	
386					€€Platanus	0.710
387					€&Proteaceae	0.489
388					€&Sabiaceae	0.603
389				€%Ranunculales		0.530
390				%Trochodendrales		
391					€€Tetracentron^	0.816
392					€€Trochodendron	0.816
393				}(Core Eudicots)		
394				%Dilleniales		

395				€&Dilleniaceae	0.603
396				&Paeoniaceae (&Peonies)	
397				€€Paeonia	0.704
398			%Gunnerales		
399				€€Gunnera	0.696
400				€€Myrothamnus	0.816
401			\Superasterids		
402			%Berberidopsidales		
403				&Aextoxicaceae	
404				€€Aextoxicon	0.780
405				&Berberidopsidaceae	
406				€€Berberidopsis	0.724
407				€€Streptothamnus^	0.752
408			€%Santalales		0.502
409			€%Caryophylliales		0.431
410			€%Cornales		0.558
411			€%Ericales		0.446
412			Lamiids		
413			%Icacinales		
414				&Icacinaceae	
415				&Oncothecaceae	
416				€€Oncotheca	0.705
417			€%Metteniusales		0.603
418			%Garryales		
419				&Garryaceae	
420				€€Garrya	0.568
421				€€Aucuba	0.621
422				&Eucommiaceae	
423				€€Eucommia^	0.705
424			€%Gentianales		0.344
425			€%Solanales		0.390
426			€%Boraginales		0.427
427			%Vahliales		
428				€€Vahlia	0.661
429			€%Lamiales		0.328
430			Campanulids		
431			€%Aquifoliales		0.509
432			€%Escalloniales		0.570
433			€%Asterales		0.362
434			%Bruniales		
435				€&Bruniaceae	0.565
436				&Columelliaceae	
437				€€Columellia	0.682
438				€€Desfontainia	0.710
439			€%Apiales		0.392
440			%Paracryphiales		
441				€€Paracryphia^	0.682
442				€€Quintinia	0.579
443				€€Sphenostemon	0.638
444			%Dipsacales		
445				€&Adoxaceae	0.497
446				€&Caprifoliaceae	0.439
447			\Superrosids		
448			€%Saxifragales		0.530
449			€%Vitales		0.567
450			Fabids		
451			%Zygophyllales		
452				€&Zygophyllaceae	0.508
453				&Krameriaceae	
454				€€Krameria	0.617
455			%Celastrales		
456				€&Celastraceae (staff-vine)	0.443
457				&Lepidobotryaceae	
458				€€Lepidobotrys^	0.705
459				€€Ruptilocarpon^	0.705
460			€%Oxalidales		0.443
461			€%Malpighiales		0.371

462			%Fabales			
463				€&Fabaceae (€&Legumes)	0.307	
464				&Quillajaceae		
465					€€Quillaja	0.677
466				€&Polygalaceae (€&Milkworts)	0.427	
467				€&Surianaceae	0.640	
468			€%Rosales		0.401	
469			€%Cucurbitales		0.487	
470			€%Fagales		0.472	
471			!Malvids			
472			%Geraniales			
473				€&Geraniaceae	0.464	
474				€&Francoaceae	0.562	
475			€%Myrtales		0.386	
476			€%Crossosomatales		0.596	
477			%Picramniales			
478				€€Aenigmanu^	0.705	
479				€€Alvaradoa	0.633	
480				€€Nothotalisia	0.705	
481				€€Picramnia	0.562	
482			€%Sapindales		0.411	
483			%Huerteales			
484				€&Dipentodontaceae	0.677	
485				&Gerrardinaceae		
486				€€Gerrardina	0.705	
487				&Peteneaceae		
488				€€Peteneae^	0.705	
489				€&Tapisciaceae	0.640	
490			€%Malvales		0.427	
491			€%Brassicales		0.422	
492	Gymnosperms					
493	!Pinophyta					0.240
494			%Araucariales			
495				€&Araucariaceae	0.767	
496				€&Podocarpaceae	0.713	
497			%Cupressales			
498				€&Sciadopityaceae (€&Umbrella	0.916	
499				€&Pines)	0.718	
500				€&Cupressaceae (€&Cypresses)	0.810	
501			€%Taxaceae (€%Yews)		0.727	
502	!Cycadophyta		€%Pinaceae (€%Pines and €%Relatives)			0.224
503				&Cycadaceae		
504				€€Cycas	0.781	
505			€&Zamiaceae		0.761	
506	!Gnetophyta					0.235
507			&Gnetaceae			
508				€€Gnetum	0.819	
509			&Welwitschiaceae			
510				€€Welwitschia^	0.956	
511			&Ephedraceae			
512				€€Ephedra	0.785	
513	!Gingkoophyta					0.280
514				€€Gingko^	1.000	
515	Amorphea					
516	!Amoebozoa					0.937
517		~Tubulinea				
518			€%Trichosida		0.907	
519			€%Echinamoebida		0.843	
520			€%Leptomyxida		0.815	
521			€%Euamoebida		0.722	
522			€%Arcellinida		0.602	
523		~(poly) Mycetozoa				
524		#Protostelia				
525			€%Protosteliida		0.780	
526		#Myxogastria				
527			€%Liceida		0.726	

528			€%Echinosteliida	0.819	
529			€%Trichiida	0.706	
530			€%Stemonitida	0.699	
531			€%Physarales	0.650	
532		#Dictyostelia			
533			€%Dictyosteliida	0.726	
534	Ophisthokonta				
535	Fungi				
536		!Rozellomycota			0.703
537			€€Rozella	0.907	
538		!Microsporidia			0.604
539			€%Paramicrosporidiales	0.956	
540			€%Morellosporales	0.956	
541			€%Nucleophagales	0.956	
542		#Chytridiopsida			
543			€%Hesseida	0.928	
544			€%Chytridiopsida	0.715	
545		#Metchnikovellea			
546			€%Metchnikovellida	0.863	
547		#Microsporidea			
548			€%Neoperezziida	0.891	
549			€%Ovavesiculida	0.891	
550			€%Amblyosporida	0.891	
551			€%Glugeida	0.706	
552			€%Nosematida	0.743	
553		!Aphelidiomycota			0.709
554					
555			€€Amoebaphelidium	0.900	
556			€€Aphelidium	0.900	
557			€€Paraphelidium	0.916	
558			€€Pseudaphelidium	0.944	
559	Eumycota	€!Neocallimastigomycota		0.880	0.440
560		!Chytridiomycota			0.663
561		#Chytridiomycetes			
562			€%Chytridiales	0.662	
563			€%Cladochytriales	0.717	
564			€%Rhizophydiales	0.663	
565			€%Polychytriales	0.819	
566			€%Spizellomycetales	0.686	
567			€%Rhizophlyctidales	0.754	
568			€%Lobulomycetales	0.763	
569			€%Synchytriales	0.713	
570			€%Polyphagales	0.738	
571		#Mesochytriomycetes			
572			€%Gromochytriales	0.907	
573			€%Mesochytriales	0.829	
574		#Monoblepharidomycetes			
575			€%Monoblepharidales	0.787	
576			€%Harpochytriales	0.843	
577		#Hyaloraphidiomycetes			
578			%Hyaloraphidiales		
579			€€Hyaloraphidium^	0.935	
580		#Sanchytriomycetes			
581			€%Sanchytriales	0.891	
582		!Blastocladiomycota			0.637
583		#Physodermatomycetes			
584			€%Physodermatales	0.852	
585		#Blastocladiomycetes			
586			€%Blastocladales	0.793	
587	(para) Zygomycota				
588		!Basidiobolomycota			0.604
589			€€Drechsleosporium	0.956	
590			€€Schizangiella	0.956	
591			€€Basidiobolus	0.878	
592		!Entomophthoromycota			0.533
593		€#Basidiobolomycetes		0.878	
594		€#Neozygitomycetes		0.850	

595		€#Entomophthoromycetes			0.731	
596	!Kickxellomycota					0.461
597			€%Ramicandelaberales		0.888	
598			€%Dimargaritales		0.833	
599			€%Barbatosporales		0.916	
600			€%Spiromycetales		0.916	
601			€%Orphellales		0.872	
602			€%Aseliariales		0.828	
603			€%Kickxellales		0.758	
604			€%Harpellales		0.697	
605	!Mortierellomycota					0.398
606				€€Aquamortierella^	0.928	
607				€€Dissophora	0.900	
608				€€Gamsiella^	0.928	
609				€€Lobosporangium^	0.928	
610				€€Modicella	0.884	
611				€€Mortierella	0.746	
612	!Calcarisporiellomycota					0.437
613				€€Calcarisporiella^	0.972	
614				€€Echinochlamydosporium^	0.972	
615	!Mucoromycota					0.349
616			€%Mucorales		0.715	
617			€%Endogonales		0.835	
618	Symbiomycota					
619	!Glomeromycota					0.388
620			€%Archaeosporales		0.809	
621			€%Diversisporales		0.780	
622			€%Glomerales		0.798	
623			€%Paraglomerales		0.880	
624	Dikarya					
625	!Entorrhizomycota					0.378
626			%Entorrhizales			
627				€€Entorrhiza	0.916	
628				€€Juncorrhiza	0.944	
629			%Talbotiomycetales			
630				€€Talbotiomyces	0.972	
631	!Basidiomycota					0.448
632		~Agaricomycotina				
633		#Agaricomycetes				
634			€%Auriculariales		0.563	
635			€%Catharellales		0.646	
636			€%Corticiales		0.559	
637			€%Gloeophylliales		0.618	
638			%Hymenochaetales			
639				€&Hymenochaetaceae	0.482	
640				€&Repetobasidiaceae	0.620	
641				€&Schizoporaceae	0.555	
642			€%Polyporales		0.484	
643			€%Russulales		0.498	
644			%Sebacinales			
645				€&Sebacinaceae	0.617	
646				€&Serendipitaceae	0.642	
647				€€Serendipita	0.660	
648			%Stereopsidales			
649				€€Clavulicium	0.670	
650				€€Stereopsis	0.704	
651			%Theleporales			
652				€&Bankeraceae	0.614	
653				€&Theleporaceae	0.546	
654			€%Trechisporales		0.591	
655			%Tremellodendropsidales			
656				€€Tremellodendropsis	0.720	
657			[Agaricomycetidae]			
658			€%Agaricales		0.442	
659			€%Amylocorticiales		0.651	
660			€%Atheliales		0.589	
661			€%Boletales		0.487	

662			%Jaapiales		
663				€€Jaapia	0.776
664			%Lepidostromatales		
665				€€Ertzia	0.732
666				€€Lepidostroma	0.732
667				€€Sulzbacheromyces	0.704
668			[Phallomycetidae]		
669			€%Geastrales		0.581
670			%Gomphales		
671				€&Clavariadelphaceae	0.620
672				€&Gomphaceae	0.583
673				€&Lentariaceae	0.687
674			€%Hysterangiales		0.623
675			%Phallales		
676				€&Claustulaceae	0.651
677				€&Phallaceae	0.573
678		#Bartheletiomycetes			
679				€€Bartheletia^	0.900
680		#Dacrymycetes			
681				&Cerinomycetaceae	
682					
683				&Dacrymycetaceae	
684				€€Calocera	0.657
685				€€Dacryopinax	0.701
686				€€Dendrodacrys	0.738
687				€€Ditiola	0.694
688				€€Guepinopsis	0.694
689				€€Femsjonia	0.766
690				€€Heterotextus	0.710
691				&Dacryonaemataceae	
692				€€Dacryonaema	0.844
693				&Unilacrymaceae	
694				€€Unilacryma	0.844
695		#Tremellomycetes			
696			€%Chionasterales		0.828
697			%Cystofilobasidiales		
698				&Cystofilobasidiaceae	
699				€€Cystofilobasidium	0.744
700				€&Mrakiaceae	0.772
701			%Filobasidiales		
702				&Filobasidiaceae	
703				€€Filobasidium	0.626
704				€€Goffeauzyma	0.691
705				€€Naganishia	0.657
706				€€Syzygospora	0.643
707				€€Zyzygomycetes	0.735
708					
709				&Piskurozymaceae	
710				€€Piskurozyma	0.743
711				€€Solicoccozyma	0.647
712			%Holtermanniales		
713				€€Holtermannia	0.708
714				€€Holtermanniella	0.717
715			%Tremellales		
716				€&Bulleraceae	0.639
717				€&Bulleribasidiaceae	0.732
718				&Carcinomycetaceae	
719				€€Carcinomyces	0.732
720				€&Cryptococcaceae	0.530
721				€&Cuniculitremaeae	0.639
722				€&Naemateliaceae	0.732
723				€&Phaeotremellaceae	0.660
724				€&Rhynchogastremaceae	0.732
725				€&Sirobasidiaceae	0.595
726				€&Tremellaceae	0.518
727				€&Trimorphomycetaceae	0.632
728			%Trichosporonales		
				&Tetragonomycetaceae	

729				€€Bandonia	0.717
730				€€Cryptotrichosporon	0.744
731				€€Takashimella	0.744
732				€€Tetragonomycetes	0.744
733				&Trichosporonaceae	
734				€€Apiotrichum	0.619
735				€€Cutaneotrichosporon	0.635
736				€€Effuseotrichosporon	0.728
737				€€Haglerozyma	0.728
738				€€Trichosporon	0.635
739				€€Vanrija	0.728
740		~Pucciniomycotina			
741		€#Agaricostilbomycetes			0.706
742		€#Atractiellomycetes			0.752
743		#Classiculomycetes			
744				€€Classicula	0.747
745				€€Jaculispora	0.807
746		#Cryptomycocolacomycetes			
747				€€Colacosiphon	0.771
748				€€Cryptomycocolax	0.747
749		#Cystobasidiomycetes			
750			€%Buckleyzymales		0.734
751			€%Cystobasidiales		0.726
752			€%Erythrobasidiales		0.798
753			%Naohideales		
754				€€Naohidea^	0.798
755			€%Sakaguchiales		0.754
756		#Microbotryomycetes			
757			€%Curvibasidiales		0.735
758			€%Heitmaniales		0.780
759			€%Heterogastridiales		0.724
760			€%Kriegeriales		0.701
761			€%Leucosporidiales		0.752
762			€%Microbotryales		0.735
763			€%Rosettozymales		0.622
764			€%Sporidiobolales		0.701
765		#Mixiomycetes			
766				€€Mixia^	0.819
767		#Pucciniomycetes			
768			€%Helicobasidiales		0.798
769			%Pachnocybales		
770				€€Pachnocybe	0.743
771			€%Platyglloeales		0.771
772			€%Pucciniales		0.726
773			€%Septobasidiales		0.734
774		#Spiculogloeomycetes			
775				€€Phyllozyma	0.835
776				€€Spiculogloea	0.807
777		#Tritirachiomycetes			
778				€€Tritirachium	0.699
779				€€Paratritirachium	0.771
780		~Ustilaginomycotina			
781		#Exobasidiomycetes			
782			%Ceraceosorales		
783				€€Ceraceosorus^	0.704
784			€%Doassansiales		0.656
785			€%Entylomatales		0.613
786			€%Exobasidiales		0.650
787			€%Georgefischeriales		0.648
788			€%Microstromatales		0.670
789			€%Tilletiales		0.610
790		#Ustilaginomycetes			
791			€%Urocystales		0.703
792			€%Ustilaginales		0.575
793		#Malasseziomycetes			
794			%Malasseziales		
795				€€Malassezia	0.775

796		#Monilielliomycetes			
797			%Moniliellales		
798				€€Moniliella	0.819
799		#Peribolosporymycetes			
800			€%Peribolosporales		0.891
801	!Ascomycota				0.424
802		~Pezizomycotina			
803			[Triblidiales]		
804			[Vezdaaeales]		
805				€€Vezdaea	0.826
806			[Thelocarpaceae]		
807				€€Sarcosagium^	0.847
808				€€Thelocarpon	0.803
809			[Harpidiaceae]		
810				€€Euopsis	0.891
811				€€Harpidium	0.891
812		#Pezizomycetes			
813				€€Urceolaria	0.781
814				€&Ascobolaceae	0.642
815				€&Ascodesmidaceae	0.651
816				€&Caloscyphaceae	0.748
817				&Carbomycetaceae	
818				€€Carbomyces	0.748
819				€&Chorioactidaceae	0.692
820				€&Discinaceae	0.618
821				&Glaziellaceae	
822				€€Glaziella	0.748
823				€&Helvellaceae	0.577
824				€&Karstenellaceae	0.704
825				€&Morchellaceae	0.589
826				€&Pezizaceae	0.552
827				€&Pyronemataceae	0.498
828				€&Rhizaceae	0.748
829				€&Sarcoscyphaceae	0.585
830				€&Sarcosomataceae	0.603
831				€&Tuberaceae	0.539
832		#Leotiomycetes			
833			%Cytariales		
834				€€Cyttaria	0.635
835				€€Cyttariella	0.732
836			€%Erysiphales		0.486
837			€%Helotiales		0.417
838			%Lahmiales		
839				€€Lahmia^	0.759
840			€%Lauriomycetales		0.732
841			%Leotiales		
842				€€Bulgariaceae	0.660
843				€€Leotiaceae	0.463
844			€%Marthamycetales		0.732
845			%Medeolariales		
846				€€Medeolaria^	0.759
847			€%Micraspidales		0.715
848			€%Phacidiales		0.561
849			€%Rhytismatales		0.482
850			€%Thelebolales		0.602
851		#Geoglossomycetes			
852				€€Geoglossum	0.655
853				€€Glutinoglossum	0.732
854				€€Hemileucoglossum	0.748
855				€€Leucoglossum	0.748
856				€€Nothomitra	0.776
857				€€Sabuloglossum^	0.776
858				€€Sarcoleotia	0.748
859				€€Trichoglossum	0.664
860		#Sordariomycetes			
861			€ Diaporthomycetidae		0.484
862			€ Hypocreomycetidae		0.443

863			I Lulworthiomycetidae		
864			%Koralionastetales		
865				€€Koralionastes	0.737
866			€%Lulworthiales		0.596
867			I Pisorisporiomycetidae		
868				€€Achroceratosphaeria	0.753
869				€€Pisorisporium	0.753
870			€ Savoryellomycetidae		0.638
871			€ Sordariomycetidae		0.411
872			I Xylariomycetidae		
873				€&Amphisphaeriales	0.524
874				€&Delonicicolales	0.672
875				€&Xylariales	0.422
876		#Eurotiomycetes			
877			I Chaetothyriomycetidae		
878			€%Chaetothyriales		0.480
879			€%Pyrenulales		0.493
880			€%Verrucariales		0.465
881			I Coryneliomycetidae		
882				€&Coryneliaceae	0.660
883				&Eremascaceae	
884				€€Eremascus	0.695
885			I Cryptocaliciomycetidae		
886				€€Cryptocalicium^	0.787
887			€ Eurotiomycetidae		0.493
888			I Mycocaliciomycetidae		
889				€&Mycocaliciaceae	0.611
890				&Sphinctrinaceae	
891				€€Mycocaliciaceae	0.732
892				€€Sphinctrinaceae	0.732
893			€ Sclerococcomycetidae		0.787
894		#Dothideomycetes			
895			I Dothideomycetidae		
896			€%Aureoconidiellales		0.753
897			€%Capnodiales (€%Sooty €%Moulds)		0.475
898			€%Cladosporiales		0.496
899			€%Dothideales		0.475
900			€%Mycosphaerellales		0.431
901			€%Myriangiales		0.753
902			€%Phaeothecales		0.753
903			I Pleosporomycetidae		
904			€%Gloniales		0.776
905			€%Hysteriales		0.546
906			%Mytilinidiales		
907				€&Mytiliniaceae	0.748
908				€&Gloniaceae	0.748
909			€%Pleosporales		0.442
910			[Unplaced others]		
911		#Laboulbeniomycetes			
912			%Herpomycetales		
913				€€Herpomyces	0.815
914			%Laboulbeniales		
915				€&Ceratomycetaceae	0.771
916				€&Euceratomycetaceae	0.771
917				€&Laboulbeniaceae	0.485
918			%Pyxidiophorales		
919				€€Acariniola	0.727
920				€€Ascolanthanus	0.727
921				€€Gliocephalis	0.683
922				€€Mycorhynchidium	0.727
923				€€Mycorhynchus	0.662
924				€€Pleurocatena	0.727
925				€€Pyxidiophora	0.590
926				€€Rhynchonectria	0.655
927				€€Thaxteriola	0.699
928		#Orbiliomycetes			
929				€€Arthrobotrys	0.602

930				€€Brachyphoris	0.715
931				€€Dactylella	0.660
932				€€Dactylellina	0.759
933				€€Dicranidion	0.704
934				€€Duddingtonia^	0.759
935				€€Dwayaangam	0.759
936				€€Gamsylella	0.759
937				€€Hyalorbilia	0.759
938				€€Monacrosporium	0.574
939				€€Orbilia	0.546
940				€€Pseudorbilia^	0.759
941		#Lecanoromycetes			
942			€%Acarosporales		0.504
943			€%Caliciales		0.511
944			€%Lecanorales		0.363
945			€%Lecideales		0.455
946			€%Leprocaulales		0.604
947			€%Peltigerales		0.462
948			€%Rhizocarpales		0.532
949			€%Sporastatales		0.576
950			€%Teloschistales		0.470
951			€%Agryrales		0.488
952			€%Baeomycetales		0.541
953			€%Graphidales		0.405
954			€%Gyalectales		0.504
955			€%Odontotrematales		0.557
956			€%Ostropales		0.439
957			€%Pertusariales		0.504
958			€%Sarrameanales		0.641
959			%Schaereriales		
960				€€Schaereria	0.661
961			€%Thelenellales		0.733
962			€%Candelariales		0.520
963			€%Micropeltidales		0.569
964			€%Turquoiseomycetales		0.733
965			€%Umbilicariales		0.532
966		#Lichinomycetes			
967				&Gloeoheppiaceae	
968				€€Gloeoheppia	0.727
969				€€Gudelia	0.771
970				€€Pseudopeltula	0.715
971				€€Lichinaceae	0.602
972				&Peltulaceae	
973				€€Neoheppia	0.706
974				€€Peltula	0.570
975				€€Phyllopeltula	0.771
976		#Arthoniomycetes			
977			%Arthoniales		
978				&Andreiomycetaceae	
979				€€Andreimyces	0.753
980				€&Arthoniaceae	0.459
981				€&Chrysotrichaceae	0.589
982				€&Lecanographaceae	0.540
983				€&Opeggraphaceae	0.568
984				€&Roccellaceae	0.512
985				€&Roccellographaceae	0.644
986			%Lichenostigmatales		
987				€€Antarctolichenia	0.776
988				€€Etayoa	0.732
989				€€Lichenostigma	0.646
990				€€Phaeococcomyces	0.697
991		€~Saccharomycotina			0.662
992		~Taphrinomycotina			
993				€€Archaeorhizomyces^	0.928
994		#Taphrinomycetes			
995				&Protomycetaceae	
996				€€Buerenia	0.800

997					€€Protomyces	0.691
998					€€Protomycopsis	0.800
999					€€Saitoella	0.772
1000					€€Taphridium	0.744
1001					€€Volkartia	0.800
1002				&Taphrinaceae		
1003					€€Lalaria	0.816
1004					€€Taphrina	0.659
1005		#Schizosaccharomycetes				
1006					€€Hasegawaea	0.872
1007					€€Schizosaccharomyces	0.807
1008		#Pneumocystidomycetes				
1009					€€Pneumocystis	0.844
1010		#Neoelectomycetes				
1011					€€Neoelecta	0.900
1012	Holozoa					
1013	Choanoflagellata					
1014	Metazoa (Animalia)					
1015	IPorifera (Sponges)					0.474
1016		#Calcarea				
1017			{Calcinea			
1018			%Clathrinida			
1019				€&Clathrinidae		0.659
1020				&Dendyidae		
1021					€€Dendya	0.768
1022					€€Soleneiscus	0.752
1023				&Levinellidae		
1024					€€Burtonulla	0.752
1025					€€Levinella	0.752
1026					€€Sycettaga	0.780
1027				€&Leucaltidae		0.671
1028				&Leucascidae		
1029					€€Ascaltis	0.780
1030					€€Ascoleucetta	0.752
1031					€€Leuascus	0.752
1032			%Murrayonida			
1033				&Lelapiellidae		
1034					€€Lelapiella	0.844
1035				&Murrayonidae		
1036					€€Murrayona^	0.844
1037				&Paramurrayonidae		
1038					€€Paramurrayona	0.844
1039			{Calcaronea			
1040			%Baerida			
1041				&Baeriidae		
1042					€€Eilhardia	0.733
1043					€€Lamontia	0.777
1044					€€Leuconia	0.749
1045					€€Leucopsila	0.777
1046				&Lepidoleuconidae		
1047					€€Lepidoleucon^	0.833
1048				€&Petrobionidae		0.789
1049				&Trichogypsiidae		
1050					€€Kuarrhaphis	0.789
1051					€€Leucyssa	0.761
1052					€€Trichogypsia	0.761
1053				€%Leucosolenida / €%Sycettida		0.648
1054		#Demospongiae				
1055			{Heteroscleromorpha			
1056			€%Agelasida			0.601
1057			€%Axinellida			0.536
1058			€%Biemnida			0.643
1059			€%Bubarida			0.615
1060			€%Clonaida			0.557
1061			€%Desmacellida			0.601
1062			€%Haplosclerida			0.523
1063			€%Merliida			0.638

1064				€%Poecilosclerida		0.467
1065				€%Polymastiida		0.585
1066				€%Scopalinida		0.621
1067				€%Sphaerocladina		0.721
1068				€%Spongiillida		0.564
1069				€%Suberitida		0.560
1070				€%Tethyida		0.585
1071				€%Tetractinellida		0.529
1072				€%Trachycladida		0.621
1073			{Keratosa			
1074				%Dendroceratida		
1075					&Darwinellidae	
1076					€€Aplysilla	0.680
1077					€€Chelonaplysilla	0.744
1078					€€Darwinella	0.680
1079					€€Dendrilla	0.696
1080					&Dictyodendrillidae	
1081					€€Acanthodendrilla	0.761
1082					€€Dictyodendrilla	0.789
1083					€€Igemma	0.724
1084					€€Spongionella	0.689
1085				%Dictyoceratida		
1086					€&Dysideidae	0.637
1087					€&Irciniidae	0.629
1088					€&Spongiidae	0.622
1089					€&Thorectidae	0.585
1090					€&Verticillitidae	0.807
1091			{Verongimorpha			
1092				%Chondrillida		
1093					&Chondrillidae	
1094					€€Chondrilla	0.675
1095					€€Thymosia^	0.756
1096					€€Thymosiosis	0.784
1097					&Halisarcidae	
1098					€€Halisarca	0.756
1099				€%Chondrosiida		0.680
1100				%Verongida		
1101					€&Aplysinellidae	0.643
1102					€&Aplysinidae	0.615
1103					&Ernstiidae	
1104					€€Ernstilla^	0.791
1105					€&Ianthellidae	0.699
1106					&Pseudoceratinidae	
1107					€€Pseudoceratina	0.699
1108		#Hexactinellida				
1109			{Amphidiscophora			
1110				%Amphidiscosida		
1111					&Hyalonematidae	
1112					€€Chalaronema	0.800
1113					€€Composocalyx	0.800
1114					€€Composocalyx	0.800
1115					€€Hyalonema	0.643
1116					€€Lophophysema	0.800
1117					€€Tabachnickia	0.800
1118					&Monorhaphididae	
1119					€€Monorhaphis^	0.872
1120					&Pheronematidae	
1121					€€Hernandeziana	0.784
1122					€€Jimalophus	0.691
1123					€€Pheronema	0.647
1124					€€Pheronemoides	0.756
1125					€€Platylistrum	0.784
1126					€€Poliopegon	0.663
1127					€€Schulzeviella	0.784
1128					€€Semperella	0.719
1129					€€Sericolophus	0.728
1130			{Hexasterophora			

1131				&Dactylocalycidae		
1132				€€Dactylocalyx	0.780	
1133				€€Exanthesis	0.844	
1134				€€Iphiteon	0.816	
1135				€€Moretiella	0.844	
1136				€€Ophrystoma	0.844	
1137				€€Paraplocia	0.844	
1138			%Lychniscosida			
1139				&Aulocystidae		
1140				€€Lychnocystis	0.816	
1141				€€Neoaulocystis	0.816	
1142				&Diapleuridae		
1143				€€Scleroplegma^	0.816	
1144			%Lyssacinosida			
1145				€€Clathrochone	0.844	
1146				€€Hyaloplacoida	0.844	
1147				€&Aulocalycidae	0.680	
1148				€€Euplectellidae	0.624	
1149				&Leucopsacidae		
1150				€€Chaunoplectella	0.708	
1151				€€Leucopsacus	0.772	
1152				€€Oopsacas	0.772	
1153				€&Rossellidae	0.603	
1154			%Sceptrulophora			
1155				€€Coronete	0.816	
1156				€€Cyrtaulon	0.772	
1157				€€Lefroyella	0.816	
1158				€€Verrucoeloidea	0.816	
1159				€&Aphrocallistidae	0.719	
1160				€&Auloplacidae	0.784	
1161				€&Craticulariidae	0.784	
1162				€&Cribrospongiidae	0.784	
1163				€€Euretidae	0.691	
1164				€&Farreidae	0.647	
1165				€&Fieldingiidae	0.784	
1166				€&Tretodictyidae	0.663	
1167				€&Uncinateridae	0.784	
1168			#Homoscleromorpha			
1169				&Plakinidae		
1170				€€Aspiculophora^	0.838	
1171				€€Corticium	0.838	
1172				€€Placinolopha	0.838	
1173				€€Plakina	0.735	
1174				€€Plakinastrella	0.773	
1175				€€Plakortis	0.701	
1176				€€Tetralophophora^	0.838	
1177				&Oscarellidae		
1178				€€Oscarella	0.782	
1179				€€Pseudocorticium^	0.888	
1180	Eumetazoa					
1181		!Placozoa [4]				0.741
1182			#Polyplacotomia			
1183				€€Polyplacotomia^	0.972	
1184			#Uniplacotomia			
1185			%Trichoplacea			
1186				€€Trichoplax^	0.928	
1187			€%Cladhexea		0.928	
1188			%Hoi lungea			
1189				&Cladtertiidae		
1190				€€Cladtertia^	0.900	
1191				&Hoi lungidae		
1192				€€Hoi lungia^	0.900	
1193		!Ctenophora (Comb Jellies)				0.512
1194			#Tentaculata			
1195			%Cestida			
1196				€€Cestum^	0.888	
1197				€€Velamen^	0.888	

1198			%Cambojida			
1199				€€Cambodgia	0.916	
1200			%Cryptolobiferida			
1201				€€Cryptolobata	0.888	
1202				€€Lobocrypta	0.888	
1203			€%Cydippida		0.746	
1204			%Ganeshida			
1205				€€Ganeshia	0.916	
1206			€%Lobata		0.743	
1207			€%Platyctenida		0.780	
1208			%Thalassocalycida			
1209				€€Thalassocalyce^	0.916	
1210		€#Nuda			0.824	
1211	!Cnidaria					0.514
1212		[Anthozoa]				
1213		#Octocorallia				
1214			€%Alcyonacea (€%Soft €%Corals)		0.567	
1215			%Helioporacea			
1216				&Helioporidae		
1217				€€Heliopora	0.835	
1218				&Lithotelestidae		
1219				€€Epiphaxum	0.807	
1220				€€Nanipora	0.807	
1221			€%Pennatulacea (€%Sea €%Pens)		0.650	
1222		#Hexacorallia				
1223			€%Actiniaria (€%Sea €%Anemones)		0.558	
1224			€%Antipatharia (€%Black €%Corals)		0.621	
1225			%Corallimorpharia			
1226				€&Corallimorphidae	0.634	
1227				€&Discosomidae	0.694	
1228				&Ricordeidae		
1229				€€Ricordea	0.759	
1230				€&Sideractinidae	0.787	
1231			€%Scleractinia (€%Stony €%Corals)		0.549	
1232			€%Zoantharia		0.605	
1233		#Ceriantharia				
1234			%Spirularia			
1235				€&Botrucnidiferidae	0.852	
1236				€&Cerianthidae	0.722	
1237			%Penicillaria			
1238				€€Anactinia	0.787	
1239				€€Arachnactis	0.787	
1240				€€Arachnanthus	0.787	
1241				€€Dactylactis	0.787	
1242				€€Isapiactis	0.787	
1243				€€Isarachnactis	0.787	
1244				€€Isarachnanthus	0.787	
1245				€€Isovactis	0.787	
1246				€€Ovactis	0.787	
1247				€€Paranactinia	0.787	
1248		[Medusozoa]				
1249		#Cubozoa (#Box #Jellyfish)				
1250			%Carybdeida			
1251				&Alatinidae		
1252				€€Alatina	0.726	
1253				€€Manokia^	0.771	
1254				€€Keesingia^	0.771	
1255				€&Carukiidae	0.694	
1256				&Carybdeidae		
1257				€€Carybdea	0.759	
1258				&Tamoyidae		
1259				€€Tamoya	0.771	
1260				&Tripedaliidae		
1261				€€Copula	0.787	
1262				€€Tripedalia	0.759	
1263			%Chirodropida			
1264				&Chirodropidae		

1265					€€Chirodectes^	0.791
1266					€€Chirodropus	0.735
1267					€€Chironex	0.747
1268				&Chiropsalmidae		
1269					€€Chiropsalmus	0.735
1270					€€Chiropsoides	0.807
1271				&Chiropsellidae		
1272					€€Chiropsella	0.763
1273					€€Meteorona^	0.807
1274		#Hydrozoa				
1275			[Hydroidolina]			
1276				€%Anthoathecata		0.594
1277				€%Leptothecata		0.558
1278				€%Siphonophorae		0.621
1279			[Trachylinae]			
1280			%Actinulida			
1281				&Halammohydridae		
1282					€€Halammohydra	0.773
1283				&Otohydridae		
1284					€€Otohydra	0.801
1285			%Limnomedusae			
1286				€&Armoryhydridae		0.773
1287				€&Microhydrulidae		0.746
1288				€&Monobrachiidae		0.773
1289				€&Olindiidae		0.673
1290				€%Narcomedusae		0.672
1291				€%Tatalidae		0.801
1292		#Polypodiozoa				
1293					€€Polypodium^	0.907
1294		#Scyphozoa (#True #Jellyfish)				
1295			[Coronamedusae]			
1296			%Coronatae			
1297				&Atollidae		
1298					€€Atolla	0.699
1299				&Atorellidae		
1300					€€Atorella	0.763
1301				€&Linuchidae		0.747
1302				€&Nausithoidae		0.735
1303				&Paraphyllinidae		
1304					€€Paraphyllina	0.763
1305					€&Periphyllidae	0.699
1306			[Discomedusae]			
1307			%Rhizostomeae			
1308				€&Catostylidae		0.634
1309				€&Lobonematidae		0.706
1310				€&Lychnorhizidae		0.726
1311				€&Rhizostomatidae		0.618
1312				€&Stomolophidae		0.743
1313				€&Cassiopeidae		0.671
1314				€&Cepheidae		0.699
1315				€&Mastigiidae		0.678
1316				€&Thysanostomatidae		0.715
1317				€&Versurigidae		0.771
1318			%Semaestomeae			
1319				&Cyaneidae		
1320					€€Cyanea	0.682
1321					€€Desmonema	0.743
1322				&Drymonematidae		
1323					€€Drymonema	0.771
1324				€&Pelagiidae		0.669
1325				&Phacellophoridae		
1326					€€Phacellophora^	0.798
1327				€&Ulmaridae		0.678
1328		#Staurozoa (#Stalked #Jellyfish)				
1329			%Stauromedusae			
1330				&Craterolophidae		
1331					€€Craterolophus	0.835

1332					&Kishinouyeidae			
1333					€€Calvadosia		0.807	
1334					&Halicystidae			
1335					€€Depastromorpha		0.771	
1336					€€Depastrum		0.771	
1337					€€Halicystus		0.687	
1338					€€Halimocyathus		0.771	
1339					€€Manania		0.743	
1340					&Kyopodiidae			
1341					€€Kyopoda^		0.835	
1342					&Lipkeidae			
1343					€€Lipkea		0.835	
1344					&Lucernariidae			
1345					€€Lucernaria		0.735	
1346					€€Stylocoronella		0.807	
1347		[Myxozoa]						
1348		#Myxosporea						
1349				%Bivalvulida				
1350					€&Myxobolidae		0.490	
1351					&Sphaeromyxidae			
1352					€€Sphaeromyxa		0.681	
1353					€&Auerbachidae		0.773	
1354					€&Alatasporidae		0.746	
1355					€&Ceratomyxidae		0.606	
1356					&Chloromyxidae			
1357					€€Chloromyxum		0.630	
1358					€&Coccomyxidae		0.729	
1359					€&Fabesporidae		0.773	
1360					€&Myxidiidae		0.630	
1361					€&Myxobolidae		0.718	
1362					&Ortholineidae			
1363					€€Ortholinea		0.773	
1364					€&Parvicapsulidae		0.630	
1365					€&Sinuolineidae		0.718	
1366					&Sphaerosporidae			
1367					€€Sphaerospora		0.612	
1368				%Multivalvulida				
1369					&Kudoidae			
1370					€€Kudoa		0.645	
1371					&Spinavaculidae			
1372					€€Octospina		0.835	
1373					&Trilosporidae			
1374					€€Trilospora		0.807	
1375					€€Unicapsula		0.780	
1376			#Malacosporea					
1377					€€Buddenbrockia		0.880	
1378					€€Tetracapsuloides^		0.880	
1379	Bilateria							
1380		Xenacoelomorpha [116]					0.435	
1381			~Xenoturbellida					
1382					€€Xenoturbella		0.900	
1383			~Acoelomorpha					
1384			€#Acoela				0.703	
1385			#Nemertodermatida					
1386					&Ascopariidae			
1387					€€Ascoparia		0.888	
1388					€€Flagellophora^		0.888	
1389					&Nemertodermatidae			
1390					€€Meara^		0.833	
1391					€€Nemertinoidea		0.861	
1392					€€Nemertoderma		0.833	
1393					€€Sterreria		0.789	
1394	Deuterostomia							
1395		!Chordata					0.341	
1396			#Cephalocordata (#Lancelets)					
1397					€€Asymmetron		0.867	
1398					€€Branchiostoma		0.731	

1399					€€Epigonichthys	0.823
1400		#Tunicata				
1401			{(poly) Ascidiacea (Sea Squirts)			
1402				€%Aplousobranchia		0.573
1403				€%Phlebobranchia		0.610
1404				%Stolidobranchia		
1405					€&Molgulidae	0.594
1406					€&Pyuridae	0.578
1407					€&Styelidae	0.529
1408			{Thaliacea			
1409			%Pyrosomida			
1410					€€Pyrosoma	0.768
1411				€%Salpida		0.659
1412				€%Doliolida		0.694
1413			{Appendicularia (Larvaceans)			
1414					&Kowalevskiidae	
1415					€€Kowalevskia	0.823
1416					&Fritillariidae	
1417					€€Appendicularia	0.614
1418					€€Tectillaria	0.751
1419					€€Fritillaria	0.659
1420					€&Oikopleuridae	0.666
1421		#Cyclostomi				
1422			{Myxini (Hagfishes)			
1423					€€Rubicundus	0.812
1424					€€Eptatretus	0.663
1425					€€Myxine	0.675
1426					€€Nemamyxine	0.784
1427					€€Neomyxine	0.812
1428					€€Notomyxine	0.812
1429			{Hyperoartia (Lampreys)			
1430					&Geotriidae	
1431					€€Geotria	0.812
1432					&Mordaciidae	
1433					€€Mordacia	0.795
1434					€&Petromyzontidae	0.691
1435		#Chondrichthyes				
1436			{Elasmobranchii			
1437			[Selachimorpha]			
1438				€%Carcharhiniformes		0.543
1439				€%Lamniformes (€%Mackerel €%Sharks)		0.663
1440				€%Orectolobiformes (€%Carpel		
				€%Sharks)		0.624
1441				%Heterodontiformes (%Bullhead		
1442				%Sharks)		
1443					€€Heterodontus	0.684
1444				€%Squaliformes		0.580
1445				%Squatiniiformes (%Angel %Sharks)		
1446					€€Squatina	0.648
1447				€%Pristiophoriformes (€%Saw		0.689
1448				€%Hexanchiformes		0.700
1449			[Batoidea (Rays)]			
1450				€%Myliobatiformes		0.629
1451				€%Rajiformes		0.571
1452				€%Rhinopristiformes		0.639
1453				€%Torpediniformes (€%Electric €%Rays)		0.635
1454			{Holocephali (Chimaeras)			
1455					&Callorhynchidae	
1456					€€Callorhynchus	0.795
1457					&Chimaeridae	
1458					€€Chimaera	0.654
1459					€€Hydrolagus	0.682
1460					&Rhinochimaeridae	
1461					€€Harriotta	0.768
1462					€€Neoharriotta	0.795
1463					€€Rhinochimaera	0.751
1463		(para) "#Bony #Fishes"				

1464		{Actinopterygii (Ray-Finned Fish)		
1465		[Cladistia (Bichirs)]		
1466			€€Erpetoichthys^	0.856
1467			€€Polypterus	0.744
1468		[Actinopteri]		
1469		[Chondrostei (Sturgeon and Paddlefish)]		
1470			&Acipenseridae	
1471			€€Acipenser (paraphyletic)	0.671
1472			€€Huso	0.772
1473			€€Scaphirhynchus	0.756
1474			€€Pseudoscaphirhynchus	0.772
1475			&Polyodontidae	
1476			€€Polyodon^	0.856
1477		[Neopterygii]		
1478		[Holostei (Bowfin and Gars)]		
1479		%Amiiformes		
1480			€€Amia	0.741
1481		%Lepisosteiformes		
1482			€€Atractosteus	0.669
1483			€€Lepisosteus	0.657
1484		[Teleostei]		
1485		€%Hiodontiformes (mooneyes)		0.713
1486		€%Osteoglossiformes (bonytongues, elep hantfishes)		0.524
1487		€%Elopiformes (tenpounders, tarpons)		0.669
1488		€%Albuliformes (€%Japanese gissus and bonefishes)		0.641
1489		€%Notacanthiformes (deep sea spiny eels)		0.598
1490		€%Anguilliformes (true eels)		0.472
1491		€%Clupeiformes (herrings)		0.500
1492		€%Alepocephaliformes (slickheads)		0.560
1493		€%Gonorynchiformes (milkfish)		0.592
1494		€%Cypriniformes (minnows, carps, loach es)		0.419
1495		€%Characiformes (tetras, piranhas)		0.442
1496		€%Gymnotiformes (knifefish and electric eels)		0.528
1497		€%Siluriformes (catfish)		0.419
1498		€%Lepidogalaxiiformes (salamanderfish)		0.741
1499		€%Argentiniformes (marine smelts)		0.583
1500		€%Galaxiiformes (whitebait, mudfishes)		0.620
1501		€%Esociformes (pike)		0.648
1502		€%Salmoniformes (salmon, trout)		0.573
1503		€%Stomiiformes (dragonfish)		0.498
1504		€%Osmeriformes (smelt)		0.556
1505		€%Ateleopodiformes (jellynoses)		0.648
1506		€%Aulopiformes (lizardfish)		0.526
1507		€%Myctophiformes (lanternfish)		0.519
1508		€%Lampriformes (oarfish, opah, ribbonfish)		0.620
1509		€%Percopsiformes (troutperches)		0.648
1510		€%Zeiformes (dories)		0.598
1511		€%Stylophoriformes (tube-eyes/thread- fins)		0.741
1512		€%Gadiformes (cods)		0.484
1513		€%Polymixiiformes (beardfish)		0.648
1514		€%Beryciformes (alfonsinos, whalefishes)		0.539
1515		€%Trachichthyiformes (pinecone fishes, slimeheads)		0.567
1516		€%Holocentriiformes (squirrelfish, soldier fishes)		0.562
1517		€%Percomorpha		0.370
1518		{Sarcopterygii (Lob-Finned Fish)		
1519		}Actinistia (Coelacanth)		

1520				€€Latimeria^	0.828
1521			)Rhipidistia		
1522				€€Neoceratodus^	0.812
1523				€€Lepidosiren^	0.812
1524				€€Protopterus	0.756
1525		#Lissamphibia			
1526			%Urodela (%Salamanders)		
1527				€&Cryptobranchidae (giant salamanders €& hellbenders)	0.719
1528				€&Hynobiidae (€&Asiatic salamanders)	0.611
1529				€&Sirenidae (sirens)	0.719
1530				€&Salamandridae (true salamanders €& newts)	0.582
1531				€&Ambystomatidae (axolotls €& tiger salamanders)	0.635
1532				€&Dicamptodontidae (€&Pacific giant salamanders)	0.719
1533				€&Proteidae (olms €& waterdogs)	0.703
1534				€&Rhyacotritonidae (torrent salamanders)	0.719
1535				€&Amphiumidae (amphiumas)	0.731
1536				€&Plethodontidae (lungless salamanders)	0.529
1537			€%Anura (€%Frogs)		0.509
1538			%Gymnophiona (%Caecilians)		
1539				€&Caeciliidae	0.625
1540				&Chikilidae	
1541				€€Chikila	0.719
1542				€&Dermophiidae	0.654
1543				€&Herpeliidae	0.682
1544				€&Ichthyophiidae	0.618
1545				€&Grandisoniidae	0.666
1546				€&Rhinatrematidae	0.686
1547				€&Scolecomorphidae	0.697
1548				€&Siphonopidae	0.645
1549				€&Typhlonectidae	0.672
1550		(poly) "#Reptiles"			
1551			€%Testudines (€%Turtles)		0.620
1552			%Crocodilia		
1553				€&Alligatoridae (€&Alligators €& €&Caimans)	0.728
1554				&Gavialidae	
1555				€€Gavialis^	0.784
1556				€€Tomistoma^	0.784
1557				€&Crocodylidae (€&Crocodiles)	0.703
1558			[Lepidosauria]		
1559			%Rhynchocephalia (%Tuatara)		
1560				€€Sphenodon^	0.856
1561				€%Squamata (€%Lizards and €%Snakes)	0.485
1562		#Aves (#Birds)			
1563			[Palaeognathae (Ratites)]		
1564			%Struthioniformes (%Ostriches)		
1565				€€Struthio	0.763
1566			%Rheiformes (%Rheas)		
1567				€€Rhea	0.735
1568			%Apterygiformes (%Kiwis)		
1569				€€Apteryx	0.699
1570				€%Casuariiformes (€%Emu and €%Cassowaries)	0.708
1571				€%Tinamiformes (€%Tinamous)	0.608
1572			[Neognathae]		
1573			[Galloanseres]		
1574				€%Galliformes (€%Land €%Fowl)	0.534
1575				€%Anseriformes (€%Water €%Fowl)	0.557
1576			[Neoaves]		

1577			€%Caprimulgiformes (€%Nightjars, frogmouths, potoos, oilbirds)	0.571
1578			€%Apodiformes (€%Owlet-nightjars, treeswifts, swifts, hummingbirds)	0.515
1579			€%Musophagiformes (€%Turacos)	0.637
1580			€%Otidiformes (€%Bustards)	0.634
1581			€%Cuculiformes (€%Cuckoos)	0.562
1582			€%Mesitornithiformes (€%Mesites)	0.719
1583			€%Pteroclimiformes (€%Sandgrouse)	0.652
1584			€%Columbiformes (€%Pigeons)	0.534
1585			€%Gruliformes (€%Rails and allies, flufftails, finfoots, cranes, limpkin, and trumpeters)	0.546
1586			€%Podicipediformes (€%Grebes)	0.639
1587			€%Phoenicopteriformes (€%Flamingos)	0.691
1588			€%Charadriiformes (sandpipers, plovers, phalaropes, stilts, jacanas, painted snipes, pratincoles, gulls and terns, seedsnipes, sheathbills, skimmers, skuas, auks)	0.523
1589			€%Eurypygiformes (€%Sunbittern, €%Kagu)	0.735
1590			%Phaethontiformes (%Tropicbirds)	
1591			€€Phaethon	0.719
1592			[Aequornithes (Core Waterbirds)]	
1593			%Gaviiformes (%Loons)	
1594			€€Gavia	0.699
1595			€%Sphenisciformes (€%Penguins)	0.647
1596			€%Procellariiformes (€%Tube-nosed seabirds: petrels, shearwaters, albatrosses, storm petrels, diving petrels)	0.565
1597			€%Ciconiiformes (€%Storks)	0.645
1598			€%Suliformes (€%Tropicbird water and diving birds: frigatebirds, cormorants, anhingas, and boobies)	0.599
1599			€%Pelecaniformes (€%Ibis, herons, pelicans, €%Hammerkop, €%Shoebill)	0.574
1600			%Opisthocomiformes (%Hoatzin)	
1601			€€Opisthocomus^	0.763
1602			[Telluraves (Core Landbirds)]	
1603			€%Accipitriformes (€%Raptors including €%New €%World €%Vultures)	0.541
1604			€%Strigiformes (€%Owls)	0.541
1605			€%Coliiformes (€%Mousebirds)	0.691
1606			%Leptosomiformes (%Cuckoo %Roller)	
1607			€€Leptosomus^	0.763
1608			€%Trogoniformes (€%Trogons, quetzals)	0.615
1609			€%Bucerotiformes (€%Hornbills, hoopoes, wood hoopoes)	0.592
1610			€%Coraciiformes (€%Kingfishers and allies: rollers, todies, motmots, bee-eaters)	0.552
1611			€%Piciformes (€%Woodpeckers and allies)	0.522
1612			[Australaves (Terminal Landbird Clade)]	
1613			€%Cariamiformes (€%Seriemas)	0.735
1614			€%Falconiformes (€%Falcons)	0.599
1615			€%Psittaciformes (€%Parrots)	0.522
1616			€%Passeriformes (€%Perching birds)	0.410
1617		#Mammalia		
1618			€%Monotremata	0.713
1619			[Theria]	
1620			[Marsupialia]	
1621			€%Didelphimorphia (€%Opossums)	0.589
1622			€%Paucituberculata (€%Shrew €%Opossums)	0.706

1623			%Microbiotheria		
1624				€€Dromiciops^	0.778
1625			€%Dasyuromorphia		0.607
1626			€%Peramelemorphia (€%Bandicoots and €%Bilbies)		0.655
1627			%Notoryctemorphia (%Marupial %Moles)		
1628				€€Notoryctes	0.750
1629			€%Diprotodontia		0.575
1630			[Placentalia]		
1631			[Atlantogenata]		
1632			[Xenarthra]		
1633			€%Cingulata (€%Armadillos)		0.655
1634			€%Pilosa (€%Anteaters and €%Sloths)		0.685
1635			[Afrotheria]		
1636			%Tubulidentata (%Aardvark)		
1637				€€Orycteropus^	0.778
1638			€%Macroscelidea (€%Elephant €%Shrews)		0.659
1639			€%Afrosoricida (€%Otter €%Shrews, €%Tenrecs, and €%Golden €%Moles)		0.620
1640			€%Hyracoidea (€%Hyraxes)		0.706
1641			€%Proboscidea (€%Elephants)		0.733
1642			€%Sirenia (€%Dugong and €%Manatees)		0.722
1643			[Boreoeutheria]		
1644			[Supraprimates]		
1645			€%Lagomorpha (€%Rabbits, €%Hares, and €%Pikas)		0.597
1646			€%Rodentia		0.472
1647			€%Dermoptera (€%Colugos)		0.750
1648			€%Primates		0.527
1649			€%Scandentia (€%Tree €%Shrews)		0.657
1650			[Laurasiatheria]		
1651			€%Lipotyphla (€%Hedgehogs, €%Moles, and €%Shrews)		0.532
1652			€%Chiroptera (€%Bats)		0.486
1653			€%Carnivora		0.551
1654			€%Pholidota (€%Pangolins)		0.694
1655			€%Perissodactyla (€%Odd-€%Toed €%Ungulates)		0.666
1656			€%Artiodactyla (€%Even-€%Toed €%Ungulates)		0.557
1657			€%Cetacea (€%Whales)		0.597
1658	!Hemichordata (Acorn Worms) [25]				0.439
1659		#Planctosphaeroidea			
1660				€€Planctosphaea^	0.956
1661		€#Enteropneusta			0.780
1662		#Pterobranchia			
1663			%Cephalodiscida		
1664				€€Atubaria^	0.900
1665				€€Cephalodiscus	0.782
1666			%Graptolithina (%Graptolites)		
1667				€€Rhabdopleura	0.884
1668	!Echinodermata				0.377
1669		#Crinoidea			
1670			€%Comatulida		0.618
1671			%Cyrtocrinida		
1672				€&Sclerocrinidae	0.807
1673				&Eudesicrinidae	
1674				€€Eudesicrinus	0.807
1675				€€Proeudesicrinus	0.807
1676				&Holopodidae	
1677				€€Cyathidium	0.807
1678				€€Holopus	0.807
1679			€%Hyocrinida		0.694
1680			%Isocrinida		
1681				&Cainocrinidae	

1682					€€Nielsenicrinus^	0.787
1683					€€Telocrinus^	0.787
1684					&Isocrinidae	
1685					€€Hypalocrinus^	0.771
1686					€€Neocrinus	0.743
1687					€€Metacrinus	0.706
1688					€&Isselocrinidae	0.731
1689					&Proisocrinidae	
1690					€€Proisocrinus^	0.815
1691					€&Pentacrinidae	0.759
1692		#Holothuroidea				
1693				€%Apodida		0.658
1694				€%Dendrochirotida		0.640
1695				€%Elasipodida		0.686
1696				€%Holothuriida		0.656
1697				€%Molpadida		0.683
1698				€%Persiculida		0.737
1699				€%Synallactida		0.664
1700		#Echinoidea				
1701				€%Cidaroida (pencil urchins)		0.644
1702				€%Cassiduloida		0.672
1703				€%Spatangoida (heart urchins)		0.620
1704				€%Diadematoidea		0.664
1705				%Echinothurioida		
1706					€&Echinothuriidae	0.664
1707					€&Kamptosomatidae	0.757
1708					€&Phormosomatidae	0.741
1709				€%Pedinoida		0.729
1710				€%Caenopedina		0.829
1711				€%Arbacioida		0.681
1712				€%Echinoida		0.620
1713				€%Phymosomatoida		0.720
1714				€%Salenioida		0.757
1715				%Temnopleuroidea		
1716					€&Temnopleuridae	0.664
1717					€&Trigonocidaridae	0.709
1718				€%Clypeasteroida (sand dollars)		0.640
1719				€%Holectypoida		0.785
1720		#Asteroidea				
1721				%Peripodida (%Sea %Daisies)		
1722					€€Xyloplax	0.852
1723				%Brisingida		
1724					€&Brisingidae	0.666
1725					€&Freyellidae	0.675
1726				€%Forcipulatida		0.628
1727				€%Spinulosida		0.731
1728				€%Notomyotida		0.715
1729				€%Paxillosida		0.659
1730				€%Valvatida		0.611
1731				%Velatida		
1732					€&Caymanostellidae	0.796
1733					€&Korethrasteridae	0.768
1734					€&Myxasteridae	0.768
1735					€&Pterasteridae	0.625
1736		#Ophiuroidea				
1737				%Euryalida		
1738					€&Asteronychidae	0.722
1739					€&Astroschematidae	0.694
1740					€&Gorgonocephalidae	0.639
1741					€&Euryalidae	0.694
1742				€%Ophiurida		0.565
1743				%Amphilepidida		
1744					€&Amphilepididae	0.617
1745					€&Amphilimnidae	0.709
1746					€&Amphiuridae	0.533
1747					€&Hemieuryalidae	0.709
1748					€&Ophiactidae	0.589

1749				€&Ophiolepididae	0.603	
1750				€&Ophionereididae	0.617	
1751				€&Ophiopholidae	0.654	
1752				€&Ophiopsilidae	0.589	
1753				€&Ophiothamnidae	0.665	
1754				€&Ophiotrichidae	0.561	
1755			%Ophiacanthida			
1756				€&Ophidermatidae	0.617	
1757				€&Ophiomyxidae	0.637	
1758				€&Ophiopezidae	0.682	
1759				€&Ophiocomidae	0.589	
1760				€&Clarkcomidae	0.709	
1761				€&Ophiacanthidae	0.552	
1762				€&Ophiobyridae	0.665	
1763				€&Ophiocamaciidae	0.626	
1764				€&Ophiopteridae	0.730	
1765				€&Ophiotomidae	0.774	
1766				€&Ophiouridae	0.730	
1767			%Ophioscolecida			
1768				&Ophihelidae		
1769					€€Ophiohelus	0.787
1770					€€Ophiomyces	0.787
1771					€€Ophiotauma	0.787
1772					€€Ophiatholia	0.787
1773				€&Ophioscolecidae	0.750	
1774	Protostomia					
1775	Edysozoa					
1776	!Kinorhyncha (Mud Dragons) [28]					0.413
1777		€#Cyclorhagida			0.835	
1778		€#Allomalorhagida			0.852	
1779	!Loricifera [10]					0.437
1780				&Nanaloricidae		
1781					€€Nanaloricus	0.847
1782					€€Armorloricus	0.891
1783					€€Australoricus^	0.891
1784					€€Phoenicoloricus^	0.891
1785					€€Spinoloricus	0.891
1786				&Pliciloricidae		
1787					€€Plicloricus	0.856
1788					€€Rugiloricus	0.900
1789					€€Titaniloricus^	0.900
1790					€€Wataloricus^	0.900
1791				&Urnaloricidae		
1792					€€Urnaloricus	0.956
1793	!Priapulida (Penis Worms) [7]					0.465
1794			%Halicryptomorpha			
1795					€€Halicryptus	0.900
1796			%Meiopriapulomorpha			
1797					€€Meiopriapululus^	0.944
1798			%Priapulomorpha			
1799				&Priapulidae		
1800					€€Acanthopriapululus	0.833
1801					€€Priapulopsis	0.861
1802					€€Priapululus	0.816
1803				&Tubiluchidae		
1804					€€Tubiluchus	0.844
1805			%Seticoronaria			
1806					€€Maccabeus	0.944
1807	€!Nematoda (Round Worms) [unreliable]					0.320
1808	!Nematomorpha (Horsehair Worms) [14]					0.420
1809			€%Gordioidea			0.737
1810			%Nectonematoidea			
1811					€€Nectonema	0.944
1812	!Onychophora (Velvet Worms) [54]					0.446
1813				€&Peripatidae	0.829	
1814				€&Peripatopsidae	0.824	
1815	!Arthropoda					0.221

1816		~Chelicerata			
1817		#Pycnogonida (#Sea #Spiders)			
1818			€&Ammotheidae		0.611
1819			€&Pallenosidae		0.683
1820			€&Ascorhynchidae		0.639
1821			&Colossendeidae		
1822			€&Colossendeis		0.595
1823			€&Decolopoda		0.732
1824			€&Dodecolopoda^		0.732
1825			€&Hedgpathia		0.704
1826			€&Pentacolossendeis^		0.732
1827			€&Rhopalorhynchus		0.667
1828			&Pycnogonidae		
1829			€&Pentapycnon		0.759
1830			€&Pycnogonum		0.586
1831			€&Pycnopallene		0.732
1832			€&Rhynchothoracidae		0.759
1833			&Callipallenidae		
1834			€&Austropallene		0.715
1835			€&Bathypalleneopsis		0.623
1836			€&Callipallene		0.660
1837			€&Oropallene		0.715
1838			€&Palleneopsis		0.551
1839			€&Parapallene		0.623
1840			€&Propallene		0.715
1841			€&Pseudopallene		0.687
1842			€&Stylopallene		0.715
1843			&Nymphonidae		
1844			€&Boreonymphon		0.661
1845			€&Bradyapallene^		0.725
1846			€&Heteronymphon		0.697
1847			€&Neonymphon^		0.725
1848			€&Nymphon		0.533
1849			€&Pentanymphton^		0.725
1850			€&Sexanymphton^		0.725
1851			€&Endeidae		0.695
1852			&Phoxichilidiidae		
1853			€&Anoplodactylus		0.558
1854			€&Phoxichilidium		0.695
1855			€&Phoxiphilyra		0.732
1856			&Austrodecidae		
1857			€&Austrodecus		0.639
1858			€&Pantopipetta		0.776
1859		#Xiphosura (#Horseshoe #Crabs)			
1860			€&Carcinoscorpius^		0.856
1861			€&Limulus^		0.856
1862			€&Tachypleus		0.828
1863		#Dekatriata (incl. #Arachnida)			
1864			€%Opiliones (€%Harvestmen)		0.451
1865			€%Solifugae (€%Camel €%Spiders)		0.522
1866			€%Acariformes (€%Mites)		0.365
1867			€%Parasitiformes (€%Mites and		0.426
1868			%Palpigradi (%Micro-%Whipscorpions)		
1869			€&Eukoeneiidae		0.748
1870			&Prokoeneiidae		
1871			€&Prokoenenia		0.683
1872			€&Triadokoenenia^		0.748
1873			[Panscorpiones]		
1874			€%Pseudoscorpiones		
1875			(€%Pseudoscorpions)		0.472
1876			€%Scorpiones (€%Scorpions)		0.491
1877			[Pantetrapulmonata]		
1878			%Amblypygi (%Whip %Spiders)		
1879			€&Paracharontidae		0.695
1880			€&Charinidae		0.630
			&Charontidae		

1881					€€Charon	0.674
1882					€&Phrynichidae	0.618
1883					€&Phrynidae	0.646
1884				%Schizomida (%Short-%Tailed		
1885				%Whipscorpions)		
1886					€&Hubbardiidae	0.639
1887					&Protoschizomidae	
1888					€€Agastoschizomus	0.683
1889					€€Protoschizomus	0.704
1890				€%Uropygi (€%Whip €%Scorpions)		0.611
1891				€%Aranae (€%Spiders)		0.370
1892			~Myriapoda			
1893			#Chilopoda (#Centipedes)			
1894				€%Scutigermorpha (€%House		0.639
1895				€%Centipedes)		
1896				€%Lithobiomorpha (€%Stone		
1897				€%Centipedes)		0.530
1898				%Craterostigmomorpha		
1899					€€Craterostigmus	0.796
1900				€%Scolopendromorpha		
1901				(€%Tropical/€%Bark €%Centipedes)		0.567
1902				€%Geophilomorpha (€%Soil		
1903				€%Centipedes)		0.535
1904			#Diplopoda (#Millipedes)			
1905				€%Glomeridesmida		0.687
1906				€%Glomerida (€%Northern €%Pill		
1907				€%Millipedes)		0.550
1908				€%Sphaerotheriida (€%Giant €%Pill		
1909				€%Millipedes)		0.622
1910				€%Platydesmida		0.643
1911				€%Polyzoniida		0.650
1912				€%Siphonocryptida		0.687
1913				€%Siphonophorida		0.603
1914				€%Julida		0.511
1915				€%Spirobolida		0.530
1916				€%Spirostreptida		0.494
1917				€%Callipodida		0.594
1918				€%Chordeumatida (€%Sausage		
1919				€%Millipedes)		0.530
1920				€%Stemmiulida		0.631
1921				%Siphoniulida		
1922					€€Siphoniulus	0.752
1923				€%Polydesmida		0.451
1924			#Pauropoda			
1925				%Hexamerocerata		
1926					€€Millotauropus	0.861
1927				€%Tetramerocerata		0.703
1928			#Symphyla (#Pseudocentipedes)			
1929					€&Scutigerellidae	0.777
1930					€&Scolopendrellidae	0.782
1931			~(para) "Crustaceans"			
1932				{Oligostraca		
1933				}Ostracoda (Seed Shrimp)		
1934				€%Myodocopida		0.571
1935				%Halocyprida		
1936					€&Polycopidae	0.603
1937					€&Deeveyidae	0.659
1938					€&Halocypridae	0.522
1939					€&Thaumatoctypridae	0.567
1940				%Palaeocopida		
1941					€€Manawa	0.708
1942					€€Promanawa	0.735
1943					€€Puncia	0.735
1944				€%Platycopida		0.615
1945				€%Podocopida		0.451
1946				}Mystacocarida		
1947					€€Ctenocheilocaris	0.816

1940					€€Derocheilocaris	0.816
1941				)Branchiura (Fish Lice)		
1942					€€Argulus	0.587
1943					€€Chonopeltis	0.696
1944					€€Dipteropeltis	0.789
1945					€€Dolops	0.717
1946				)Pentastomida (Tongue Worms)		
1947				%Cephalobaenida		
1948					€€Cephalobaena^	0.789
1949				%Porocephalida		
1950					€&Linguatulidae	0.640
1951					&Subtriquetridae	
1952					€€Subtriquetra	0.733
1953					€&Porocephalidae	0.596
1954					€&Sebekidae	0.677
1955				€%Raillietiellida		0.680
1956				%Reighardiida		
1957					€€Hispania	0.733
1958					€€Reighardia	0.733
1959				{Multicrustacea		
1960				)Thecostraca		
1961				\Facetotecta		
1962					€€Hansenocaris	0.812
1963				\Ascothoracida		
1964				%Dendrogastrida		
1965					€&Ascothoracidae	0.603
1966					€&Ctenosculidae	0.675
1967					€&Dendrogastridae	0.610
1968				%Laurida		
1969					€&Lauridae	0.712
1970					€&Petrarcidae	0.684
1971					€&Synagogidae	0.712
1972				\Cirripedia (Barnacles)		
				€%Lithoglyptida (€%Calcareous		
1973				€%Borers)		0.580
				€%Cryptophialida (€%Calcareous		
1974				€%Borers)		0.614
				€%Rhizocephala (€%Parasitic		
1975				€%Castrators)		0.501
1976				€%Balanomorpha		0.522
1977				€%Calanticomorpha		0.659
1978				€%Iblomorpha		0.651
1979				€%Pollicipedomorpha		0.587
1980				€%Scalpellomorpha		0.542
1981				€%Verrucomorpha		0.587
1982				)Copepoda		
1983				€%Calanoida		0.458
1984				€%Cyclopoida		0.462
1985				%Gelyelloida		
1986					€€Gelyella	0.763
1987				€%Harpacticoida		0.439
1988				%Misophrioida		
1989					€&Misophriidae	0.582
1990					&Palpophriidae	
1991					€€Palpophria	0.719
1992					€&Speleophriidae	0.626
1993				€%Monstrilloida		0.571
1994				%Mormonilloida		
1995					€€Mormonilla	0.708
1996					€€Neomormonilla	0.708
1997				€%Platycopioida		0.606
1998				%Polyarthra		
1999					€&Canuellidae	0.615
2000					&Longipediidae	
2001					€€Longipedia	0.643
2002				€%Siphonostomatoida		0.458
2003				)Malacostraca		

2004				\Eumalacostraca		
2005				Syncarida		
2006				%Anaspidacea		
2007					€&Anaspididae	0.591
2008					€&Koonungidae	0.600
2009					€&Psammaspididae	0.656
2010					€&Stygocarididae	0.612
2011				%Bathynellacea		
2012					€&Bathynellidae	0.510
2013					€&Parabathynellidae	0.499
2014				€ Peracarida		0.369
2015				Eucarida		
				€%Decapoda (incl. €%Crabs,		
				€%Lobsters, €%Crayfish, €%Shrimp,		
				€%Prawns)		0.339
2016				€%Euphausiacea (€%Krill)		0.545
2017				%Amphionidacea		
2018					€€Amphionides^	0.723
2019				\Hoplocarida (Mantis Shrimps)		
2020					&Gonodactylidae	
2021					€€Gonodactylus^	0.635
2022					&Hemisquillidae	
2023					€€Hemisquilla	0.684
2024					&Lysiosquillidae	
2025					€€Lysioquilla	0.635
2026					&Nannosquillidae	
2027					€€Nannosquilla^	0.656
2028					€€Platysquilla^	0.700
2029					&Odontodactylidae	
2030					€€Odontodactylus	0.656
2031					&Pseudosquillidae	
2032					€€Pseudosquilla^	0.644
2033					&Squillidae	
2034					€€Oratosquilla^	0.591
2035					€€Rissoides^	0.656
2036					€€Squilla	0.591
2037					&Tetrasquillidae	
2038					€€Heterosquilla^	0.728
2039				\Phyllocarida		
2040					&Nebaliidae	
2041					€€Nebalia	0.610
2042					€€Nebaliella	0.675
2043					€€Dahliella^	0.703
2044					€€Sarsinebalia	0.675
2045					€€Speonebalia	0.638
2046					&Nebaliopsididae	
2047					€€Nebaliopsis^	0.740
2048					€€Pseudonebaliopsis^	0.740
2049					&Paranebalidae	
2050					€€Levinebalia	0.723
2051					€€Paranebalia	0.668
2052					€€Saronebalia	0.723
2053				{Allotricarida (para, excl. Hexapods)		
2054				\Cephalocarida (Horseshoe Shrimp)		
2055					€€Chiltoniella^	0.780
2056					€€Hampsonellus^	0.780
2057					€€Hutchinsoniella^	0.780
2058					€€Lightiella	0.780
2059					€€Sandersiella	0.780
2060				\Branchiopoda		
2061					€%Anostraca (€%Fairy €%Shrimp)	0.531
2062					€%Anomopoda (€%Water €%Fleas)	0.483
2063				%Ctenopoda		
2064					&Holopediidae	
2065					€€Holopedium	0.661
2066					&Pseudopenilidae	
2067					€€Pseudopenilia^	0.717
2068						

2069			€&Sididae	0.608
2070			%Cyclestherida (%Clam %Shrimps)	
2071			€€Cyclestheria^	0.733
2072			€€Paracyclestheria	0.733
2073			%Haplopoda (%Water %Fleas)	
2074			€€Leptodora	0.761
2075			€%Laevicaudata (€%Clam €%Shrimps)	0.640
2076			%Onychopoda	
2077			€&Cercopagididae	0.608
2078			€&Podonidae	0.617
2079			&Polyphemidae	
2080			€€Polyphemus	0.717
2081			€%Spinicaudata (€%Clam €%Shrimps)	0.603
2082			\Remipedia	
2083			€&Micropacteridae	0.761
2084			&Godzillidae	
2085			€€Godzillionomus	0.733
2086			€€Godzillius	0.733
2087			€&Kumongidae	0.733
2088			€&Cryptocorynetidae	0.696
2089			€&Morlockidae	0.717
2090			&Speleonectidae	
2091			€€Lasionectes^	0.733
2092			€€Speleonectes	0.655
2093			€&Xibalbanidae	0.761
2094			€&Pleomothridae	0.761
2095		~Hexapoda		
2096			%Protura (%Coneheads)	
2097			€&Hesperentomidae	0.655
2098			€&Protentomidae	0.673
2099			€&Acerentomidae	0.629
2100			&Antelientomidae	
2101			€€Antelientomon	0.738
2102			€&Eosentomidae	0.590
2103			&Fujientomidae	
2104			€€Fujientomon	0.710
2105			&Sinentomidae	
2106			€€Sinentomon	0.710
2107			€%Diptura (€%Two-€%Pronged €%Bristletails)	0.548
2108		#Collembola		
2109			€%Entomobryomorpha	0.455
2110			€%Poduromorpha	0.459
2111			€%Symphypleona	0.472
2112			%Neelipleona	
2113			€€Megalothorax	0.621
2114			€€Neelides	0.705
2115			€€Neelus	0.705
2116			€€Zelandothorax	0.705
2117		#Insecta		
2118			%Archaeognatha (%Jumping %Bristletails)	
2119			€&Machilidae	0.459
2120			&Meinertellidae	
2121			€€Macropsontus	0.627
2122			€€Neomachillellus	0.627
2123			%Zygentoma (%Silverfish and %Firebrats)	
2124			&Lepidotrichidae	
2125			€€Tricholepidion^	0.618
2126			€&Lepismatidae	0.399
2127			&Maindroniidae	
2128			€€Maindronia	0.618
2129			€&Nicoletidae	0.441
2130			€&Protrinemuridae	0.618
2131			[Pterygota]	
2132			€%Ephemeroptera (€%Mayflies)	0.357

2133			%Odonata (%Dragonflies and %Damselflies)		
2134				€€Epiophlebia	0.638
2135				€Families of Damselflies - Zygoptera	0.333
2136				€Families of Dragonflies - Anisoptera	0.331
2137			[Neoptera]		
2138			€%Psocodea (€%Booklice+)		0.333
2139			€%Thysanoptera (€%Thrips)		0.333
2140			%Hemiptera: %Heteroptera (%True %Bugs)		
2141				€&Enicocephalidae (€&Unique-headed bugs)	0.253
2142				&Dipsocoridae (&Jumping ground bugs)	
2143				€€Alpagut	0.438
2144				€€Cryptostemma	0.438
2145				€€Pachycoleus	0.438
2146				€&Schizopteridae	0.281
2147				€&Gerridae (€&Water striders)	0.219
2148				€&Hydrometridae (€&Water measurers)	0.287
2149				€&Veliidae (€&Rifle bugs)	0.247
2150				€&Hebridae (€&Velvet water bugs)	0.278
2151				€&Mesoveliidae (€&Water treaders)	0.345
2152				€&Nepidae (€&Water scorpions)	0.334
2153				€&Belostomatidae (€&Giant water bugs)	0.278
2154				€&Corixidae (€&Water boatmen)	0.232
2155				€&Notonectidae (€&Backswimmers)	0.247
2156				€&Nauconidae (€&Creeping water bugs)	0.260
2157				&Pleidae (&Pygmy backswimmers)	
2158				€€Neoplea	0.438
2159				€€Paraplea	0.438
2160				€€Plea	0.438
2161				€&Helotrephidae	0.318
2162				€&Ochteridae (€&Velvety shore bugs)	0.334
2163				&Gelastocoridae (&Toad bugs)	
2164				€€Gelastocoris	0.382
2165				€€Nerthra	0.297
2166				€&Leptopodidae (€&Shore bugs)	0.318
2167				€&Cimicidae (€&Bed bugs)	0.293
2168				€&Reduviidae (€&Assassin bugs)	0.126
2169				€&Miridae (€&Plant bugs)	0.112
2170				€&Nabidae (€&Damsel bugs)	0.232
2171				€&Anthocoridae (€&Minute pirate bugs)	0.232
2172				€&Tingidae (€&Lace bugs)	0.177
2173				€&Pentatomidae (€&Stink bugs)	0.142
2174				€&Alydidae (€&Broad-headed bugs)	0.253
2175				€&Coreidae (€&Leaf-footed bugs)	0.179
2176				€&Rhopalidae (€&Scentless plant bugs)	0.269
2177				€&Scutelleridae (€&Shield-backed bugs)	0.232
2178			%Hemiptera: %Heteroptera (%True %Bugs)		
2179				€&Enicocephalidae (€&Unique-headed bugs)	0.253
2180				€&Dipsocoridae (€&Jumping ground bugs)	0.281
2181				€&Schizopteridae	0.281
2182				€&Gerridae (€&Water striders)	0.219
2183				€&Hydrometridae (€&Water measurers)	0.287
2184				€&Veliidae (€&Rifle bugs)	0.247
2185				€&Hebridae (€&Velvet water bugs)	0.278

2186					€&Mesoveliidae (€&Water treaders)	0.345
2187					€&Nepidae (€&Water scorpions)	0.334
2188					€&Belostomatidae (€&Giant water bugs)	0.278
2189					€&Corixidae (€&Water boatmen)	0.232
2190					€&Notonectidae (€&Backswimmers)	0.247
2191					€&Nauconidae (€&Creeping water bugs)	0.260
2192					€&Pleidae (€&Pygmy backswimmers)	0.325
2193					€&Helotrephidae	0.318
2194					€&Ochteridae (€&Velvety shore bugs)	0.334
2195					€&Gelastocoridae (€&Toad bugs)	0.293
2196					€&Leptopodidae (€&Shore bugs)	0.318
2197					€&Cimicidae (€&Bed bugs)	0.293
2198					€&Reduviidae (€&Assassin bugs)	0.126
2199					€&Miridae (€&Plant bugs)	0.112
2200					€&Nabidae (€&Damsel bugs)	0.232
2201					€&Anthocoridae (€&Minute pirate bugs)	0.232
2202					€&Tingidae (€&Lace bugs)	0.177
2203					€&Pentatomidae (€&Stink bugs)	0.142
2204					€&Alydidae (€&Broad-headed bugs)	0.253
2205					€&Coreidae (€&Leaf-footed bugs)	0.179
2206					€&Rhopalidae (€&Scentless plant bugs)	0.269
2207					€&Scutelleridae (€&Shield-backed bugs)	0.232
2208				%Hemiptera: %Auchenorrhyncha		
2209					€&Cicadidae (€&Cicadas)	0.178
2210					€&Membracidae (€&Treehoppers)	0.179
2211					€&Cercopidae (€&Froghoppers)	0.212
2212					€&Aphrophoridae (€&Spittlebugs)	0.293
2213					€&Clastopteridae	0.305
2214					€&Fulgoridae (€&Lanternflies)	0.237
2215					€&Delphacidae (€&Planthoppers)	0.201
2216					€&Cixiidae	0.221
2217					€&Flatidae (€&Flatid planthoppers)	0.228
2218					€&Issidae	0.225
2219					€&Acanaloniidae	0.284
2220					€&Derbidae	0.209
2221					€&Ricanidae	0.265
2222					€&Achilidae	0.256
2223					€&Kinnaridae	0.335
2224					€&Meenopidae	0.293
2225				%Hemiptera: %Stenomorrhyncha		
2226					€&Psyllidae (€&Jumping plant lice)	0.210
2227					€&Triozidae	0.234
2228					&Phacopterionidae	
2229					€€Cormegenapsylla	0.456
2230					€€Neophacopteron	0.456
2231					€€Phacopteron	0.456
2232					€€Pseudophacopteron	0.456
2233					€&Aleyrodidae (€&Whiteflies)	0.216
2234					€&Aphididae (€&Aphids)	0.169
2235					€&Adelgidae	0.350
2236					€&Phylloxeridae	0.341
2237					€&Coccidae (€&Soft scales)	0.230
2238					€&Diaspididae (€&Armored scales)	0.199
2239					€&Pseudococcidae (€&Mealybugs)	0.206
2240					€&Margarodidae (€&Giant scales)	0.271
2241					€&Eriococcidae	0.275
2242					€&Kermesidae	0.331
2243					&Dactylopiidae (&Cochineal insects)	
2244					€€Dactylopius	0.415
2245				%Hemiptera: %Coleorrhyncha		
2246					€&Peloriidae (€&Moss bugs)	0.481
2247				[Polyneoptera]		

2248			€%Blattodea (€%Cockroaches and		
2249			€%Termites)	0.343	
2250			€%Mantodea (€%Mantids)	0.369	
2251			€%Dermaptera (€%Earwigs)	0.377	
2252			€%Plecoptera (€%Stoneflies)	0.354	
2253			€%Orthoptera (€%Grasshoppers+)	0.277	
2254			€%Phasmatodea (€%Stick €%Insects)	0.360	
2255			€%Embioptera (€%Webspinners)	0.439	
2256			%Zoraptera (%Angel %Insects)		
2257			&Zorotypidae		
2258			€€Zorotypus	0.462	
2259			€€Usazoros^	0.610	
2260			€€Spermozoros	0.610	
2261			€&Spiralzoridae	0.655	
2262			%Grylloblattodea (%Ice-%Crawlers)		
2263			€€Galloisiana	0.553	
2264			€€Grylloblatta	0.562	
2265			€€Grylloblattella	0.618	
2266			€€Grylloblattina^	0.618	
2267			€€Namkungia	0.618	
2268			€%Mantophasmatodea (€%Gladiators)	0.562	
2269			[Holometabola]		
2270			%Hymenoptera: %Symphyta (%Sawflies		
2271			and %Wood %Wasps)		
2272			€&Xyelidae	0.384	
2273			€&Argidae	0.280	
2274			&Blasticotomidae		
2275			€€Blasticotoma	0.465	
2276			€€Runaria	0.521	
2277			€&Cimbicidae	0.340	
2278			€&Diprionidae	0.350	
2279			€&Pergidae	0.271	
2280			€&Tenthredinidae	0.190	
2281			&Megalodontesidae		
2282			€€Megalodontes	0.460	
2283			€&Pamphiliidae	0.313	
2284			€&Cephidae	0.363	
2285			&Anaxyelidae		
2286			€€Syntexis^	0.548	
2287			€&Siricidae	0.347	
2288			€&Xiphydriidae	0.335	
2289			€&Orussidae (€&Parasitic wood		
2290			wasps)	0.370	
2291			%Hymenoptera: %Apocrita (%Wasps,		
2292			%Bees, and %Ants)		
2293			€&Stephanidae	0.310	
2294			€&Megalyridae	0.302	
2295			€&Trigonalyidae	0.312	
2296			€&Ichneumonidae	0.088	
2297			€&Braconidae	0.099	
2298			€&Ceraphronidae	0.258	
2299			€&Megaspilidae	0.248	
2300			€&Chalcididae	0.198	
2301			€&Euchartidae	0.282	
2302			€&Encyrtidae	0.164	
2303			€&Eulophidae	0.157	
2304			€&Eupelmidae	0.217	
2305			€&Mymaridae	0.204	
2306			€&Perilampidae	0.270	
2307			€&Pteromalidae	0.167	
2308			€&Torymidae	0.217	
2309			€&Cynipidae	0.204	
2310			&Ibalidae		
2311			€€Eileenella^	0.451	
2312			€€Heteribalia	0.451	
2313			€€Ibalia	0.362	
2314			€&Liopteridae	0.365	

2311					€&Platygastridae	0.210
2312					€&Scelionidae	0.173
2313					€&Diapriidae	0.204
2314					&Monomachidae	
2315					€€Chasca	0.451
2316					€€Monomachus	0.451
2317					€€Tetraconus	0.451
2318					€&Proctotrupidae	0.293
2319					&Mymaromatidae	
2320					€€Mymaromma	0.386
2321					€€Mymaromella	0.451
2322					€€Zealaromma	0.451
2323					&Aulacidae	
2324					€€Aulacus	0.293
2325					€€Panaulix	0.451
2326					€€Pristaulacus	0.451
2327					€&Evanidae	0.246
2328					€&Gasteruptiidae	0.247
2329					&Pelecinidae	
2330					€€Pelecinus	0.495
2331					€&Ceraphronidae	0.258
2332					€&Megaspilidae	0.248
2333					€&Bethyidae	0.193
2334					€&Chrysididae	0.173
2335					€&Dryinidae	0.201
2336					&Embolemidae	
2337					€€Embolemus	0.367
2338					€€Trogloembolemus	0.467
2339					&Sclerogibbidae	
2340					€€Caenosclerogibba	0.451
2341					€€Probethylus	0.423
2342					€€Sclerogibba	0.407
2343					€&Andrenidae	0.177
2344					€&Apidae	0.152
2345					€&Colletidae	0.189
2346					€&Halictidae	0.161
2347					€&Megachilidae	0.173
2348					€&Melittidae	0.282
2349					&Stenotritidae	
2350					€€Ctenocolletes	0.467
2351					€€Stenotritus	0.467
2352					€&Formicidae (€&Ants)	0.111
2353					€&Mutillidae	0.152
2354					€&Pompilidae	0.152
2355					€&Scolidae	0.240
2356					€&Tiphidae	0.201
2357					€&Vespidae	0.152
2358					€&Scoliidae	0.240
2359					€&Sphecidae	0.231
2360					€&Crabronidae	0.128
2361					€&Thynnidae	0.221
2362					%Coleoptera (%Beetles): %Archostemata	
2363					&Cupedidae (&Reticulated beetles)	
2364					€€Adinolepis	0.483
2365					€€Ascioplaga	0.483
2366					€€Cupes^	0.404
2367					€€Distocupes^	0.483
2368					€€Paracupes	0.455
2369					€€Priacma^	0.483
2370					€€Prolixocupes	0.483
2371					€€Rhipsideigma	0.455
2372					€€Tenomerga	0.390
2373					&Micromalthidae	
2374					€€Micromalthus^	0.571
2375					&Ommatidae (&Ommatids)	
2376					€€Omma	0.471

2377					€€Tetraphalerus	0.499
2378					€€Beutelius	0.527
2379					&Crowsoniellidae	
2380					€€Crowsoniella	0.571
2381				%Coleoptera (%Beetles): %Adephaga		
2382					€&Carabidae (€&Ground beetles)	0.112
2383					€&Rhysodidae (€&Wrinkled bark beetles)	0.303
2384					€&Dytiscidae (€&Diving beetles)	0.202
2385					€&Noteridae (€&Burrowing water beetles)	0.316
2386					&Amphizoidae (&Trout-stream beetles)	
2387					€€Amphizoa	0.483
2388					&Aspidytidae (&Cliff water beetles)	
2389					€€Aspidytes	0.466
2390					€€Sinaspidytes	0.510
2391					&Hygrobiidae (&Squeak beetles)	
2392					€€Hygrobia	0.466
2393					€&Gyrinidae (€&Whirligig beetles)	0.261
2394					€&Halplidae (€&Crawling water beetles)	0.316
2395				%Coleoptera (%Beetles): %Myxophaga		
2396					&Hydroscaphidae (&Skiff beetles)	
2397					€€Hydroscapha	0.527
2398					€€Scaphydra	0.527
2399					€€Yara	0.527
2400					€€Confossa	0.527
2401					&Lepiceridae	
2402					€€Lepicerus	0.582
2403					€&Sphaeriusidae (€&Minute bog beetles)	0.446
2404				%Coleoptera (%Beetles): %Polyphaga		
2405					€&Hydrophilidae (€&Water scavenger beetles)	0.146
2406					€&Histeridae (€&Clown beetles)	0.133
2407					&Sphaeritidae (&False clown beetles)	
2408					€€Sphaerites	0.466
2409					&Synteliidae	
2410					€€Syntelia	0.466
2411					€&Staphylinidae (€&Rove beetles)	0.021
2412					€&Silphidae (€&Carrion beetles)	0.250
2413					€&Leiodidae (€&Round fungus beetles)	0.134
2414					€&Agryrtidae	0.285
2415					€&Leptinidae	0.466
2416					€&Clambidae (€&Minute beetles)	0.252
2417					€&Scydmaenidae (€&Ant-like stone beetles)	0.125
2418					€&Ptiliidae (€&Feather-winged beetles)	0.180
2419					€&Scarabaeidae (€&Scarab beetles)	0.045
2420					€&Lucanidae (€&Stag beetles)	0.166
2421					€&Trogidae (€&Hide beetles)	0.230
2422					€&Geotrupidae (€&Dor beetles)	0.230
2423					€&Passalidae (€&Bess beetles)	0.188
2424					€&Buprestidae (€&Jewel beetles)	0.079
2425					€&Byrrhidae (€&Pill beetles)	0.230
2426					€&Elmidae (€&Riffle beetles)	0.177
2427					€&Heteroceridae (€&Variegated mud-loving beetles)	0.220
2428					&Lutrochidae (&Travertine beetles)	
2429					€€Lutrochus	0.466
2430					€&Dryopidae (€&Long-toed water beetles)	0.245

2431					€Psephenidae (€&Water-penny beetles)	0.236	
2432					€&Elateridae (€&Click beetles)	0.095	
2433					€&Lampyridae (€&Fireflies)	0.160	
2434					€&Cantharidae (€&Soldier beetles)	0.123	
2435					€&Lycidae (€&Net-winged beetles)	0.132	
2436					€&Phengodidae (€&Glowworm beetles)	0.236	
2437					€&Rhagophthalmidae	0.308	
2438					€&Omethidae	0.280	
2439					€&Dascillidae (€&Soft-bodied plant beetles)	0.236	
2440					€&Scirtidae (€&Marsh beetles)	0.180	
2441					€&Bostrichidae (€&Auger beetles)	0.216	
2442					€&Dermestidae (€&Skin beetles)	0.166	
2443					€&Anobiidae (€&Death-watch beetles)	0.171	
2444					€&Cleridae (€&Checkered beetles)	0.137	
2445					€&Melyridae (€&Soft-winged flower beetles)	0.116	
2446					€&Trogossitidae (€&Bark-gnawing beetles)	0.202	
2447					€&Cucujidae (€&Flat bark beetles)	0.304	
2448					€&Silvanidae (€&Silvanid flat bark beetles)	0.216	
2449					€&Latrididae (€&Minute brown scavenger beetles)	0.188	
2450					€&Endomychidae (€&Handsome fungus beetles)	0.177	
2451					€&Coccinellidae (€&Ladybirds)	0.116	
2452					€&Erotylidae (€&Pleasing fungus beetles)	0.144	
2453					€&Tenebrionidae (€&Darkling beetles)	0.067	
2454					€&Mordellidae (€&Tumbling flower beetles)	0.171	
2455					€&Meloidae (€&Blister beetles)	0.151	
2456					€&Anthicidae (€&Ant-like flower beetles)	0.137	
2457					€&Chrysomelidae (€&Leaf beetles)	0.045	
2458					€&Cerambycidae (€&Longhorn beetles)	0.045	
2459					&Orsodacnidae		
2460					€&Aulacoscelis	0.421	
2461					€&Janbechynea	0.421	
2462					€&Orsodacna	0.421	
2463					€&Megalopodidae (€&Toadstool beetles)	0.252	
2464					€&Curculionidae (€&Weevils)	0.010	
2465					€&Scolytidae (€&Bark beetles)	0.116	
2466				€%Strepsiptera (€%Twisted-€%Winged			
2467				€%Parasites)		0.425	
2468				%Raphidioptera (%Snakeflies)			
2469					€&Inocelliidae	0.512	
2470					€&Praphidiidae	0.441	
2471					%Megaloptera		
2472					&Corydalidae (&Fish &Flies &Dobson &Flies)		
2473					&Sialidae (&Alderflies)		
2474				€%Neuroptera (€%Net-€%Veined			
2475				€%Insects)		0.336	
2476				€%Mecoptera (€%Scorpionflies+)		0.419	
2477				€%Siphonaptera (€%Fleas)		0.368	
2478				%Diptera (%True %Flies): %Nematocera			
2479					€&Tipulidae (€&Crane flies)	0.147	
2480					€&Trichoceridae (€&Winter crane flies)	0.345	

2479					€&Ptychopteridae (€&Phantom crane flies)	0.363	
2480					€&Blephariceridae (€&Net-winged midges)	0.298	
2481					&Deuterophlebiidae (&Mountain midges)		
2482					€€Deuterophlebia	0.534	
2483					€&Bibionidae (€&March flies)	0.274	
2484					€&Cecidomyiidae (€&Gall midges)	0.183	
2485					€&Mycetophilidae (€&Fungus gnats)	0.199	
2486					€&Sciandae (€&Dark-winged fungus gnats)	0.240	
2487					€&Anisopodidae (€&Window gnats)	0.333	
2488					€&Scatopsidae (€&Dung midges)	0.293	
2489					&Axymyiidae (&Wood midges)		
2490					€€Axymyia^	0.478	
2491					€€Mesaxymyia	0.478	
2492					€€Plesioaxymyia^	0.478	
2493					€€Protaxymyia	0.478	
2494					€&Psychodidae (€&Moth flies)	0.215	
2495					€&Thaumaleidae (€&Solitary midges)	0.333	
2496					€&Culicidae (€&Mosquitoes)	0.206	
2497					€&Dixidae (€&Meniscus midges)	0.326	
2498					€&Chaoboridae (€&Phantom midges)	0.358	
2499					&Corethrellidae (&Frog-biting midges)		
2500					€€Corethrella	0.349	
2501					€&Simuliidae (€&Black flies)	0.228	
2502					€&Ceratopogonidae (€&Biting midges)	0.184	
2503				%Diptera (%True %Flies): %Brachycera			
2504					€&Asilidae (€&Robber flies)	0.148	
2505					€&Bombyliidae (€&Bee flies)	0.165	
2506					€&Mydidae (€&Mydas flies)	0.259	
2507					€&Therevidae (€&Stiletto flies)	0.226	
2508					€&Scenopinidae (€&Window flies)	0.266	
2509					€&Stratiomyidae (€&Soldier flies)	0.193	
2510					&Xylomyidae (&Wood soldier flies)		
2511					€€Arthropeina^	0.451	
2512					€€Coenomyiodes^	0.451	
2513					€€Solva	0.451	
2514					€€Xylomya	0.451	
2515					€&Tabanidae (€&Horse flies)	0.170	
2516					€&Athericidae (€&Water snipe flies)	0.326	
2517					€&Nemestrinidae (€&T angle-veined flies)	0.278	
2518					€&Acroceridae (€&Small-headed flies)	0.256	
2519					€&Phoridae (€&Scuttle flies)	0.174	
2520					€&Platypezidae (€&Flat-footed flies)	0.294	
2521					&Opetidae		
2522					€€Opetia	0.479	
2523					€€Puyehuemyia^	0.479	
2524					€&Syrphidae (€&Hoverflies)	0.157	
2525					€&Conopidae (€&Thick-headed flies)	0.238	
2526					€&Tephritidae (€&Fruit flies)	0.169	
2527					€&Ulidiidae (€&Picture-winged flies)	0.244	
2528					€&Platystomatidae (€&Signal flies)	0.229	
2529					€&Micropezidae (€&Stilt-legged flies)	0.257	
2530					€&Sciomyzidae (€&Marsh flies)	0.250	
2531					€&Sepsidae (€&Black scavenger flies)	0.278	
2532					€&Dryomyzidae	0.322	
2533					€&Lauxaniidae (€&Lauxaniid flies)	0.202	
2534					&Opomyzidae		
2535					€€Anomalochaeta^	0.451	
2536					€€Geomyza	0.294	

2537					€€Opomyza	0.359
2538					€€Scelomyza^	0.451
2539						0.306
2540					€&Asteiidae	0.229
					€&Heleomyzidae	
2541					€&Sphaeroceridae (€&Lesser dung flies)	0.219
2542					€&Carnidae (€&Meat flies)	0.278
2543					€&Chloropidae (€&Grass flies)	0.193
2544					€&Drosophilidae (€&Fruit flies)	0.174
2545					€&Ephydriidae (€&Shore flies)	0.202
2546					€&Calliphoridae (€&Blow flies)	0.213
2547					€&Sarcophagidae (€&Flesh flies)	0.191
2548					€&Tachinidae (€&Tachinid flies)	0.145
2549					€&Muscidae (€&House flies)	0.165
2550					€&Anthomyiidae	0.222
2551					€&Scathophagidae (€&Dung flies)	0.266
2552					€&Fanniidae	0.278
2553					€%Trichoptera (€%Caddisflies)	0.297
2554					%Lepidoptera: %Zeugloptera	
					€&Micropterigidae (€&Mandibulate archaic moths)	0.406
2555						
2556					%Lepidoptera: %Aglossata	
2557					&Agathiphaeidae (&Kauri moths)	
2558						
2559					%Lepidoptera: %Heterobathmiina	€€Agathiphaea
2560					&Heterobathmiidae	
2561						€€Heterobathmia
2562					%Lepidoptera: %Glossata	0.582
2563						
					€&Eriocraniidae	0.427
2564					&Acanthopteroctetidae (&Archaic sun moths)	
2565						€€Acanthopteroctetes
2566						€€Catapterix
2567					&Lophocoronidae	0.527
2568						€€Lophocorona
2569					&Neopseustidae	
2570						€€Apoplangia
2571						€€Nematocentropus
2572						€€Neopseustis
2573						€€Synempora^
2574					%Lepidoptera: %Heteroneura	0.499
2575						
2576					€&Nepticulidae	0.283
2577					€&Opotegidae	0.369
2578					€&Palaephatidae	0.397
2579					&Tischeriidae	
2580						€€Tischeria
2581						€€Coptotriche
2582						€€Astrotischeria
2583					%Lepidoptera: %Ditrysia	
2584					€&Tineidae	0.128
2585					€&Psychidae	0.160
2586					&Dryadaulidae	
2587						€€Brachydoxa
2588						€€Dryadula
2589					&Meessiidae	0.422
2590						€€Bathroxena^
2591						€€Eudarcia
2592					€&Eriocottidae	0.265
2593					€&Acrolophidae	0.221
2594					€&Autostichidae	0.200
2595					€&Lecithoceridae	0.172
2596					€&Xyloryctidae	0.200
2597					€&Gelechiidae	0.111
2598					€&Depressariidae	0.139
2599					€&Elachistidae	0.128
2600					€&Scythrididae	0.193
					€&Blastobasidae	0.204

2601				€&Oecophoridae	0.127	
2602				€&Peleopodidae	0.221	
2603				€&Stathmopodidae	0.237	
2604				€&Yponomeutidae	0.193	
2605				&Attevidae		
2606				€&Atteva	0.394	
2607				€&Gracillariidae	0.144	
2608				€&Bucculatricidae	0.224	
2609				€&Zygaenidae	0.170	
2610				€&Limacodidae	0.172	
2611				€&Megalopygidae	0.232	
2612				€&Cossidae	0.184	
2613				€&Sesiidae	0.159	
2614				€&Castniidae	0.241	
2615				€&Tortricidae	0.080	
2616				€&Pterophoridae	0.162	
2617				€&Callidulidae	0.237	
2618				€&Pyralidae	0.099	
2619				€&Crambidae	0.080	
2620				€&Mimallonidae	0.221	
2621				€&Geometridae	0.046	
2622				€&Uraniidae	0.186	
2623				€&Drepanidae	0.189	
2624				€&Thyatiridae	0.221	
2625				€&Bombycidae	0.214	
2626				€&Saturniidae	0.139	
2627				€&Sphingidae	0.156	
2628				€&Endromidae	0.282	
2629				€&Eupterotidae	0.214	
2630				€&Lasioleucopidae	0.144	
2631				€&Papilionidae	0.195	
2632				€&Pieridae	0.168	
2633				€&Nymphalidae	0.100	
2634				€&Lycaenidae	0.100	
2635				€&Riodinidae	0.156	
2636				€&Hesperiidae	0.116	
2637				€&Erebidae	0.029	
2638				€&Noctuidae	0.072	
2639				€&Nolidae	0.162	
2640				€&Notodontidae	0.116	
2641				€&Euteliidae	0.221	
2642	!Tardigrada (Water Bears)					0.407
2643		#Eutardigrada				
2644			€%Apochela		0.791	
2645			€%Parachela		0.654	
2646		#Heterotardigrada				
2647			€%Arthrotardigrada		0.711	
2648			€%Echiniscoidea		0.726	
2649		#Mesotardigrada				
2650				€&Thermozodium^	0.956	
2651	Spiralia					
2652	(para) Platyzoa					
2653	!Gastrotricha (Hairy Backs) [64]					0.358
2654			€%Chaetonotida		0.718	
2655			€%Macrodasyida		0.743	
2656	!Platyhelminthes (Flat Worms)					0.399
2657		(poly) #Turbellaria				
2658			%Catenuvida			
2659			€&Catenuvidae		0.578	
2660			€&Chordariidae		0.578	
2661			€&Retronectidae		0.724	
2662			€&Stenostomidae		0.603	
2663			€&Tyrrheniellidae		0.752	
2664			[Rhabditophora turbellarians]			
2665			%Bothrioplanida			
2666				€&Bothrioplana	0.844	
2667			%Fecampiida			

2668				€&Fecampiidae	0.643
2669				€&Genostomatidae	0.752
2670				€&Notenteridae	0.780
2671				€&Piscinquilinae	0.780
2672				€&Urostomatidae	0.715
2673			€%Gnosonesimida		0.696
2674			€%Polycladida		0.587
2675			%Prolecithophora		
2676				&Multipeniidae	
2677				€€Multipeniata	0.772
2678				€&Plagiostomidae	0.635
2679				€&Protomonotresidae	0.680
2680				€&Pseudostomidae	0.652
2681				€&Scleraulophoridae	0.663
2682				€&Urostomatidae	0.652
2683			€%Prorhynchida		0.687
2684			€%Proseriata		0.615
2685			€%Rhabdocoela		0.550
2686			€%Tricladida (€%Planarians)		0.575
2687			%Macrostromorpha		
2688				€€Bradyneustes	0.816
2689				€€Myozona	0.816
2690				€&Family €&Haplopharyngidae	0.724
2691				€&Family €&Macrostromidae	0.603
2692			€%Dolichomicrostomida		0.780
2693		[Neodermata]			
2694		#Trematoda			
2695			%Aspidogastrea		
2696				€&Aspidogastreae	0.673
2697				&Multicalycidae	
2698				€€Multicalyx	0.844
2699				&Rugogastreae	
2700				€€Rugogaster	0.844
2701			%Stichocotylida		
2702				€€Stichocotyle^	0.888
2703			[Digenea (Flukes)]		
2704			%Diplostomida		
2705				€&Brachylaimidae	0.620
2706				&Leucochloridiidae	
2707				€€Leucochloridium	0.740
2708				&Brauninidae	
2709				€€Braunina^	0.796
2710				&Cyathocotylidae	
2711				&Diplostomidae	
2712				&Proterodiplostomidae	
2713				€€Cheloniodiplostomum	0.752
2714				€&Strigeidae	0.571
2715				€&Aporocotylidae	0.600
2716				€&Schistosomatidae	0.615
2717				€&Spirorchidae	0.675
2718			€%Plagiorchiida		0.594
2719		#Monogenea			
2720			€%Monocotylidea		0.650
2721			%Casalidea		
2722				€&Capsalidae	0.596
2723				€&Dionchidae	0.807
2724				€&Enoplocotylidae	0.735
2725			€%Lagarocotylidea		0.852
2726			€%Montchadskyellidea		0.824
2727			%Gyrodactylidea		
2728				€&Acanthocotylidae	0.780
2729				&Anoplodiscidae	
2730				€€Anoplodiscus	0.701
2731				&Bothitrematidae	
2732				€€Bothitrema	0.780
2733				€&Gyrodactylidae	0.534
2734				€&Tetraonchoididae	0.687

2735				&Udonellidae		
2736					€€Udonella	0.715
2737				€%Dactylogyridea		0.558
2738				%Polystomatidea		
2739					€€Apaloneotrema	0.807
2740					€€Aussietrema	0.807
2741					€€Concinnocotyla	0.807
2742				%Chimaericolidea		
2743					€€Callorhynchicola	0.824
2744					€€Chimaericola	0.796
2745				%Diclybothriidea		
2746				&Diclybothriidae		
2747					€€Diclybothrium	0.796
2748					€€Paradiclybothrium	0.796
2749					€&Hexabothriidae	0.690
2750				€%Mazocraeidea		0.606
2751		#Cestoda				
2752				€%Gyrocotylidea		0.824
2753				€%Amphilinidea		0.828
2754			{Eucestoda (Tapeworms)			
2755				%Spathebothriidea		
2756					€&Acrobothriidae	0.833
2757				&Spathebothriidae		
2758					€€Spathebothrium	0.861
2759				%Caryophyllidea		
2760					€&Balanotaeniidae	0.833
2761					€&Capingentidae	0.833
2762					€&Caryophyllaeidae	0.668
2763					€&Lytocestidae	0.789
2764				%Haplobothriidea		
2765					€&Haplobothrium	0.844
2766				%Diphylobothriidea		
2767					€&Cephalochlamydiae	0.844
2768					€&Diphylobothriidae	0.687
2769					€&Solenophoridae	0.766
2770				€%Diphyllidea		0.789
2771				€%Trypanorhyncha		0.665
2772				%Bothriocephalidea		
2773					€&Bothriocephalidae	0.696
2774					€&Echinophallidae	0.816
2775					€&Triaenophoridae	0.756
2776				%Litobothriidea		
2777					€€Litobothrium	0.824
2778				€%Lecanicephalidea		0.718
2779				€%Rhinebothriidea		0.687
2780				€%Tetraphyllidea		0.620
2781				€%Proteocephalidea		0.684
2782				%Nippotaeniidea		
2783					€€Nippotaenia	0.888
2784				%Mesocestoididae		
2785					€€Mesocestoides	0.733
2786					€€Mesogyna	0.861
2787				€%Tetrabothriidea		0.731
2788				€%Cyclophyllidea		0.567
2789	Gnathifera					
2790	!Gnathostomulida (Jaw Worms) [27]					0.443
2791				%Filospermoidea		
2792						
2793				&Haplognathiidae		
2794					€€Haplognathia	0.900
2795				&Pterognathiidae		
2796					€€Cosmognathia	0.916
2797					€€Pterognathia	0.888
2798				€%Bursovaginoidea		0.835
2799	!Chaetognatha (Arrow Worms) [26]					0.420
2800				€%Aphragmophora		0.907
2801				%Phragophora		
				&Eukrohniidae		

2802					€Eukrohnia	0.824	
2803					&Heterokrohniidae		
2804					€Archeterokrohnia	0.816	
2805					€Heterokrohnia	0.828	
2806					€Xenokrohnia^	0.872	
2807					&Krohnittellidae		
2808					€Krohnittella	0.916	
2809					&Spadellidae		
2810					€Bathyspadella	0.852	
2811					€Calispadella^	0.852	
2812					€Hemispadella^	0.852	
2813					€Paraspadella	0.807	
2814					€Spadella	0.715	
2815	!Micrognathozoa [1]						0.500
2816					€Limnognathia	0.972	
2817	!Rotifera						0.378
2818		~Eurotatoria					
2819		#Bdelloidea					
2820			€Philodinavida			0.708	
2821			€Philodinida			0.662	
2822			€Adinetida			0.726	
2823		#Monogononta					
2824			€Flosculariaceae			0.699	
2825			€Ploima			0.610	
2826			€Collothecaceae			0.671	
2827		~Pararotatoria					
2828					€Paraseison	0.928	
2829					€Seison	0.928	
2830		~Acanthocephala					
2831		#Archiacanthocephala					
2832			€Apororhynchida			0.844	
2833			€Gigantorhynchida			0.735	
2834			€Moniliformida			0.780	
2835			€Oligacanthorhynchida			0.652	
2836		#Eoacanthocephala					
2837			€Gyracanthocephala			0.872	
2838			€Neoechinorhynchida			0.687	
2839		#Palaacanthocephala					
2840			€Echinorhynchida			0.712	
2841			€Heteramorphida			0.856	
2842			€Polymorphida			0.667	
2843		#Polyacanthocephala					
2844					€Polyacanthorhynchus^	0.872	
2845	Lophotrochozoa						
2846	!Annelida (Segmented Worms)						0.397
2847		(para) #Polychaeta					
2848					[Chaetopteridae]		
2849					€Chaetopterus	0.815	
2850					€Mesochaetopterus	0.871	
2851					€Mesotrocha	0.871	
2852					€Phyllochaetopterus	0.871	
2853					€Spiochaetopterus	0.806	
2854			{Palpata				
2855			€Aciculata/ €Errantia			0.541	
2856			€Canalipalpata			0.499	
2857			{Scolecida				
2858				€Aeolosomatidae (€Suction- €Feeding €Worms)		0.667	
2859				€Arenicolidae (€Lugworms)		0.651	
2860				€Capitellidae		0.575	
2861				&Cossuridae			
2862				€Cossura		0.679	
2863				€Maldanidae (€Bamboo €Worms)		0.589	
2864				€Opheliidae		0.603	
2865				€Orbinidae		0.584	
2866				€Paraonidae		0.592	
2867				€Parergodrilidae		0.704	

2868					&Potamodrilidae		
2869					€€Potamodrilus	0.788	
2870					&Psammodrilidae		
2871					€€Psammodrilus	0.760	
2872					€&Questidae	0.744	
2873					€&Scalibregmatidae	0.640	
2874				{Echiura (Spoon Worms)			
2875				%Bonelliida			
2876					€&Bonelliidae	0.659	
2877					&lakedidae		
2878					€€lkeda	0.835	
2879				%Echiurida			
2880					&Echiuridae		
2881					€€Echiurus	0.775	
2882					€&Thalassematidae	0.699	
2883					&Urechidae		
2884					€€Urechis	0.819	
2885		#Clitellata					
2886				{(para) Oligochaeta (Earthworms +)			
2887				€%Haplotaaxida		0.562	
2888				€%Lumbriculida		0.645	
2889				%Moniligastrida			
2890					€€Desmogaster	0.782	
2891					€€Drawida	0.569	
2892					€€Eupolygaster	0.782	
2893					€€Hastirogaster	0.782	
2894					€€Moniligaster	0.618	
2895				€(Branchiobdellida (Ectoparasites of Crayfish +)		0.690	
2896				{Hirudinea (Leeches)			
2897					€€Acanthobdella	0.891	
2898				€%Arhynchobdellida (€%Proboscisless €%Leeches)		0.600	
2899				%Rhynchobdellida (%Freshwater %Leeches)			
2900					€&Glossiphoniidae	0.625	
2901					&Ozobranchidae (&Turtle &Leeches)		
2902					€€Ozobranchus	0.775	
2903					€&Piscicolidae	0.643	
2904		#Sipuncula (#Peanut #Worms)					
2905				%Aspidosiphonida			
2906					€€Aspidosiphon	0.738	
2907					€€Cloeosiphon^	0.847	
2908					€€Lithacrosiphon	0.847	
2909				%Phascolosomatida			
2910					€€Antillesoma^	0.847	
2911					€€Apionsoma	0.726	
2912					€€Phascolosoma	0.710	
2913				%Golfingiida			
2914					&Golfingiidae		
2915					€€Golfingia	0.638	
2916					€€Nephasoma	0.662	
2917					€€Thysanocardia	0.791	
2918					&Phascolionidae		
2919					€€Onchnesoma	0.715	
2920					€€Phascolion	0.678	
2921					&Sipunculidae		
2922					€€Phascolopsis^	0.771	
2923					€€Siphonomecus^	0.771	
2924					€€Siphonosoma	0.678	
2925					€€Sipunculus	0.706	
2926					€€Xenosiphon	0.743	
2927					&Themistidae		
2928					€€Themiste	0.735	
2929		#Myzostomida (#Ectoparasites of #Crinoids +)					
2930					€€Contramyzostoma	0.891	
2931					€€Cyclocirra	0.891	

2932					€€Stelechopus	0.891	
2933					&Asteriomyzostomidae		
2934					€€Asteriomyzostomum	0.857	
2935					&Asteromyzostomidae		
2936					€€Asteromyzostomum	0.857	
2937					&Eenymeenymyzostomatidae		
2938					€€Eenymeenymyzostoma	0.857	
2939					&Endomyzostomatidae		
2940					€€Endomyzostoma	0.829	
2941					€€Mycomyzostoma	0.829	
2942					&Myzostomatidae		
2943					€€Cystimyzostomum	0.792	
2944					€€Hypomyzostoma	0.792	
2945					€€Mesomyzostoma	0.792	
2946					€€Myzostoma	0.644	
2947					€€Notopharyngoides	0.792	
2948					&Protomyzostomidae		
2949					€€Protomyzostomum	0.857	
2950					&Pulvinomyzostomidae		
2951					€€Pulvinomyzostomum	0.857	
2952		#Pogonophora					
2953					€€Osedax	0.659	
2954					€€Birsteinia	0.798	
2955					€€Bobmarleya	0.798	
2956					€€Choanophorus	0.798	
2957					€€Crassibrachia	0.798	
2958					€€Cyclobrachia	0.798	
2959					€€Diplobrachia	0.798	
2960					€€Galathealinum	0.715	
2961					€€Heptabrachia	0.798	
2962					€€Lamellisabella	0.798	
2963					€€Nereilinum	0.798	
2964					€€Oligobrachia	0.726	
2965					€€Paraescarpia	0.798	
2966					€€Polybrachia	0.798	
2967					€€Siboglinoides	0.798	
2968					€€Siboglinum	0.656	
2969					€€Siphonobrachia	0.798	
2970					€€Spirobrachia	0.798	
2971					€€Unibrachium	0.798	
2972					€€Volvobrachia	0.798	
2973					€€Zenkevitchiana	0.798	
2974					€€Sclerolinum	0.734	
2975					€€Alaysia	0.798	
2976					€€Arcovesia	0.798	
2977					€€Escarpia	0.734	
2978					€€Lamellibrachia	0.715	
2979					€€Oasisia	0.754	
2980					€€Ridgeia	0.743	
2981					€€Riftia	0.798	
2982					€€Tevnia	0.798	
2983	!Brachiopoda						0.430
2984		#Lingulata					
2985					€€Discina^	0.856	
2986					€€Discinisca	0.844	
2987					€€Discradisca	0.900	
2988					€€Pelagodiscus^	0.900	
2989		#Craniata					
2990					€€Neocancistrocrania^	0.912	
2991					€€Novocrania	0.840	
2992					€€Valdiviathyris	0.912	
2993		#Rhynchonellata					
2994				€%Rhynchonellida		0.682	
2995				€%Thecideida		0.769	
2996				€%Terebratulida		0.654	
2997	!Phoronida (Horseshoe Worms) [1]						0.447
2998					€€Phoronis/ €€Actinotrocha	0.894	

2999	!Bryozoa (Moss Animals)				0.327
3000		#Phylactolaemata			
3001			€%Plumatellida		0.771
3002		#Stenolaemata			
3003			€%Cyclostomata		0.685
3004		#Gymnolaemata			
3005			€%Ctenostomata		0.692
3006			€%Cheilostomata		0.578
3007	€ Nemertea (Ribbon Worms) [unreliable]				0.712 0.356
3008	!Mollusca				0.369
3009		#Aplacophora			
3010			%Solenogastres		
3011				€€Acanthomenia	0.715
3012				€€Amphimena	0.780
3013				€€Dondersia	0.702
3014				€€Amboherpia	0.780
3015				€€Uncherpia	0.752
3016				€€Epimena	0.715
3017				€€Halomenia	0.780
3018				€€Hemimena	0.780
3019				€€Ichthyomenia	0.752
3020				€€Meiomenia	0.752
3021				€€Neomenia	0.715
3022				€€Phyllomenia	0.736
3023				€€Proneomenia	0.724
3024				€€Pruvotia	0.736
3025				€€Rhopalomenia	0.708
3026				€€Simrothiella	0.752
3027				€€Stilomenia	0.780
3028			%Caudofoveata		
3029				&Chaetodermatidae	
3030				€€Chaetoderma	0.701
3031				€€Falcidens	0.713
3032				&Limifossoridae	
3033				€€Limifossor	0.822
3034				&Prochaetodermatidae	
3035				€€Prochaetoderma	0.761
3036				€€Cladoderma	0.761
3037				€€Spathoderma	0.778
3038		#Monoplacophora			
3039			%Tryblidiida		
3040				&Neopilinidae	
3041				€€Neopilina	0.754
3042				€€Vema	0.810
3043				€€Laevipilina	0.738
3044				€€Micropilina	0.746
3045				&Veloronidae	
3046				€€Veleropilina	0.822
3047				&Laevipilinidae	
3048				€€Laevipilina	0.794
3049				&Micropilinidae	
3050				€€Micropilina	0.801
3051		#Polyplacophora (#Chitons)			
3052				€&Chitonidae	0.664
3053				€€Ischnochitonidae	0.637
3054				€€Mopaliidae	0.656
3055				&Callistoplacidae	
3056				€€Callistochiton	0.692
3057				€€Callistoplax	0.701
3058				&Lepidochitonidae	
3059				€€Lepidochitona	0.686
3060				&Acanthochitonidae	
3061				€€Acanthochitona	0.620
3062				€€Notoplax	0.720
3063				€€Craspedochiton	0.692
3064				€&Cryptoplacidae	0.672
3065				&Hanserinidae	

3066					€€Hanserina	0.829
3067				&Hemiarthridae		
3068					€€Hemiarthrum	0.829
3069				&Loricidae		
3070					€€Lorica	0.746
3071		#Scaphopoda				
3072			%Dentaliida			
3073				&Dentaliidae		
3074					€€Dentalium	0.532
3075					€€Antalis	0.603
3076					€€Coccodentalium	0.729
3077					€€Fissidentalium	0.664
3078					€€Compressidentalium	0.718
3079				&Graptacmeidae		
3080					€€Graptacme	0.709
3081				&Laevidentaliidae		
3082					€€Laevidentalium	0.746
3083				&Fustiariidae		
3084					€€Fustaria	0.718
3085			%Gadilida			
3086				€&Gadilidae		0.625
3087				&Entalinidae		
3088					€€Entalina	0.690
3089					€€Entalinopsis	0.709
3090					€€Allentalina	0.746
3091					€€Ellipentalina	0.773
3092					€€Striocadulus	0.729
3093				€&Antennoideidae		0.746
3094				&Pulsellidae		
3095					€€Pulsellum	0.746
3096					€€Sagittodentalium	0.732
3097		#Gastropoda				
3098			%Patellida			
3099				&Patellidae		
3100					€€Patella	0.683
3101			%Lepetellida			
3102				€&Lepetellidae		0.679
3103				€&Lepetidae		0.671
3104			€%Trochida			0.521
3105			€%Fissurellida			0.570
3106			€%Cycloneritida			0.586
3107			€%Neritida			0.570
3108			€%Littorinimorpha			0.521
3109			€%Neogastropoda			0.457
3110			€%Architaenioglossa			0.598
3111			%Acteonida			
3112				€&Acteonidae		0.570
3113				€&Hydatinidae		0.671
3114			€%Cephalaspidea			0.521
3115			€%Pteropoda			0.558
3116			€%Sacoglossa			0.570
3117			€%Aplysiida			0.635
3118			€%Pleurobranchida			0.614
3119			%Pyramidellida			
3120				€&Pyramidellidae		0.521
3121			€%Ellobiida			0.570
3122			€%Stylommatophora			0.394
3123			%Siphonariida			
3124				&Siphonariidae		
3125					€€Siphonaria	0.635
3126			%Opisthobranchia			
3127				&Akeridae		
3128					€€Akeria	0.771
3129						0.549
3130		#Bivalvia		€%Basommatophora		
3131				€%Arcida		0.588
3132				€%Mytilida		0.597

3133				€%Pectinida		0.588	
3134				€%Ostreoida		0.597	
3135				%Pterioida			
3136					&Pteriidae		
3137					€€Pteria	0.690	
3138					€€Pinctada	0.662	
3139				€%Venerida		0.468	
3140				€%Cardiida		0.588	
3141				€%Unionida		0.537	
3142				%Solemyida			
3143					&Solemyidae		
3144					€€Solemya	0.673	
3145					€€Acharax	0.738	
3146				%Nuculida			
3147					&Nuculidae		
3148					€€Nucula	0.681	
3149				%Nuculanida			
3150					€&Nuculanidae	0.581	
3151					€&Yoldiidae	0.639	
3152				€%Anomalodesmata		0.553	
3153				€%Lucinida		0.560	
3154				€%Myida		0.581	
3155				€%Pholadida		0.653	
3156				€%Galeommatida		0.525	
3157		#Cephalopoda					
3158			{Nautiloidea				
3159			%Nautilida				
3160					€€Nautilus	0.794	
3161					€€Allonautilus	0.838	
3162			{Coleoidea				
3163			%Sepiida (cuttlefish)				
3164				€&Sepiidae		0.637	
3165			%Sepiolida (bobtail squids)				
3166				€&Sepiolidae		0.623	
3167				€&Idiosepiidae		0.729	
3168					€€Idiosepius	0.729	
3169				€%Teuthida (squids)		0.592	
3170			%Spirulida (ram's horn squid)				
3171					&Spirulidae		
3172					€€Spirula	0.822	
3173				€%Octopoda (octopuses)		0.592	
3174			%Vampyromorphida (vampire squid)				
3175					&Vampyroteuthidae		
3176					€€Vampyroteuthis	0.822	
3177	!Cycliophora [1]				€€Symbion	0.972	0.650
3178							
3179	!Entoprocta [15]						0.420
3180					&Barentsiidae		
3181					€€Barentsia	0.787	
3182					€€Coriella	0.815	
3183					€€Pedicellinopsis	0.835	
3184					€€Pseudopedicellina	0.835	
3185					€€Urnatella	0.880	
3186					&Loxokalypodidae		
3187					€€Loxokalypus	0.944	
3188					&Loxosomatidae		
3189					€€Loxocorone	0.880	
3190					€€Loxomespilon	0.880	
3191					€€Loxomitra	0.787	
3192					€€Loxosoma	0.722	
3193					€€Loxosomella	0.722	
3194					&Pedicellinidae		
3195					€€Brachionis	0.687	
3196					€€Crinomorpha	0.872	
3197					€€Loxosomatoides	0.872	
3198					€€Myosoma	0.872	
3199					€€Pedicellina	0.752	

