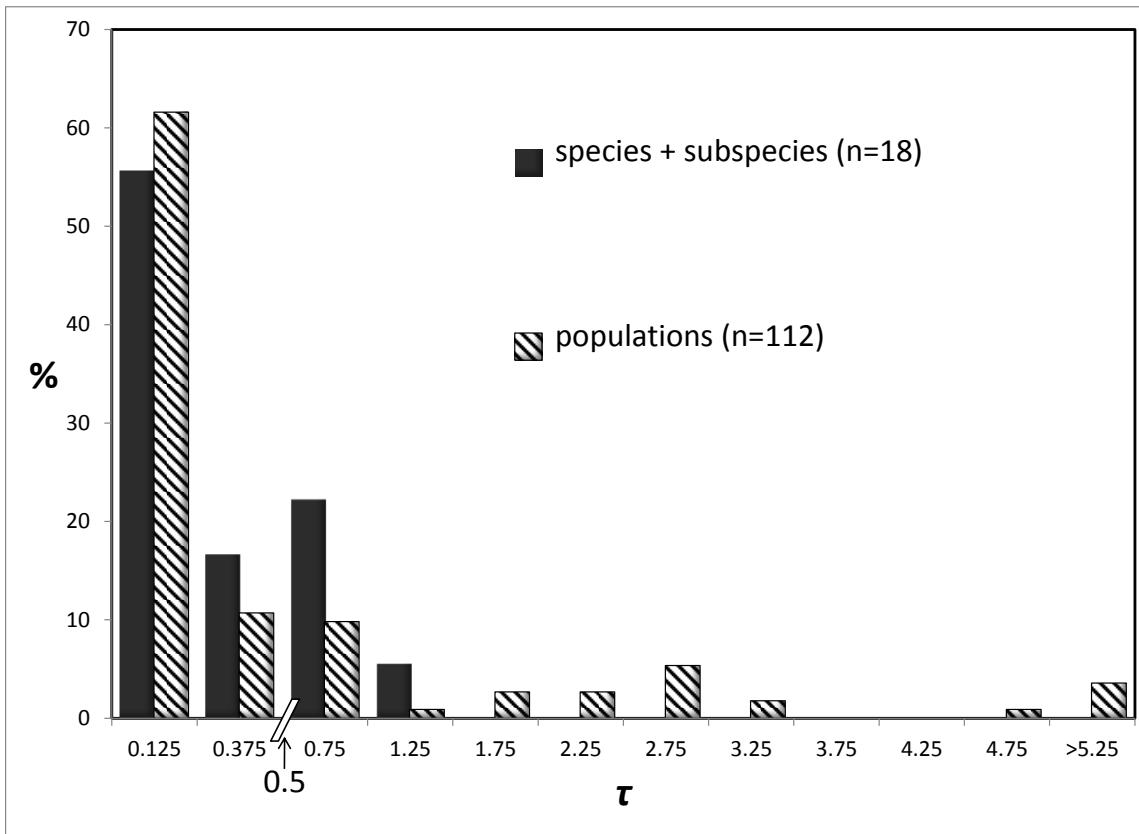
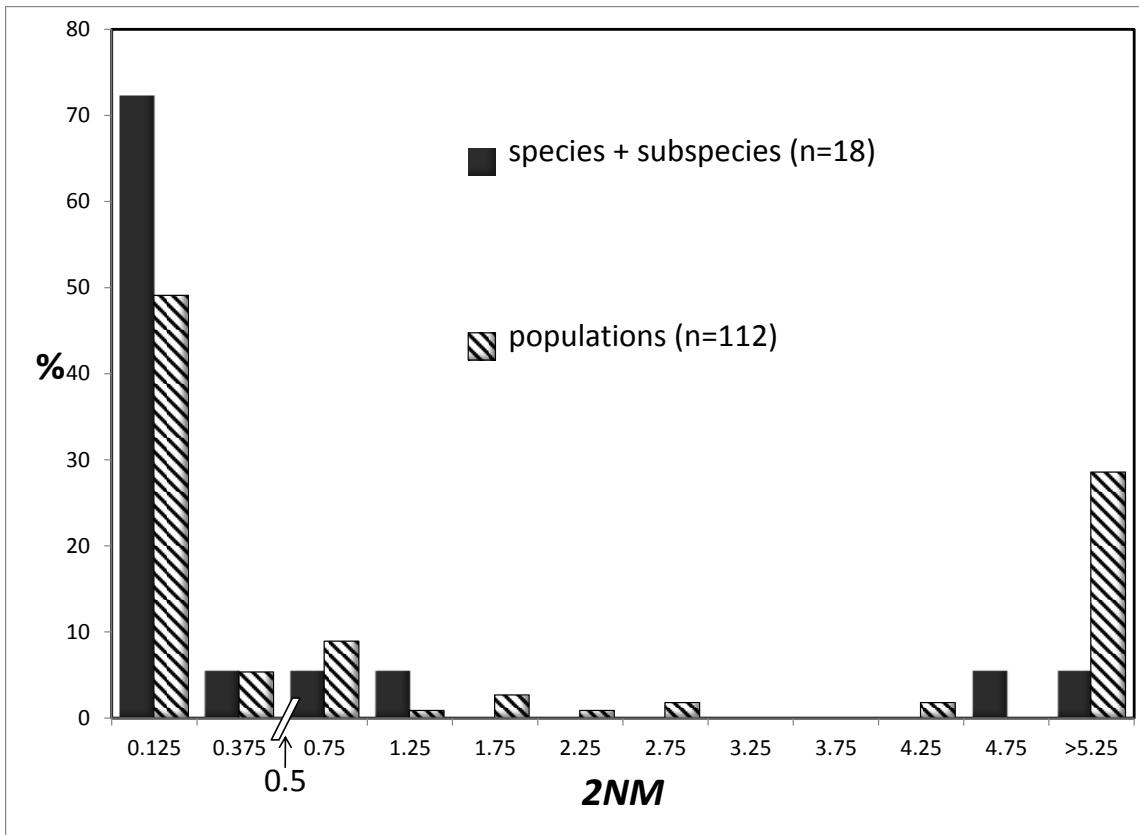


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Figure S1 Percentages of observations for 2NM (top) and  $\tau$  (bottom) by rank (species and subspecies, populations), for studies that used just 1 sequence (mtDNA) locus. See legend to Figure 2 for additional explanation.



**Table S1**(see legend at foot of table)

study	Species	taxon 1	taxon 2	rank	# loci	type of loci	Fst	Fst Source	Fst ID	Fst Citation	2N1m1	r1	2N2m2	r2
(Balakrishnan and Edwards, 2009)	<i>Taenopygia guttata</i>	Australian	Lesser Sunda	subspecies	30	seq	0.193	abstract	Kst	(Hudson et al., 1992a)	0.4414	0.127068	0.1596	35.055
(Berner et al., 2009)	<i>Gasterosteus aculeatus</i>	Boot - upstream	Boot - downstream	populations	6	STR	0.16	Table 1	Fst	(Weir and Cockerham, 1984)	0.3	0.5917	2.82	0.810521
(Berner et al., 2009)	<i>Gasterosteus aculeatus</i>	Joe's - upstream	Joe's - downstream	populations	6	STR	0.12	Table 1	Fst	(Weir and Cockerham, 1984)	5.68	0.290845	95.2	0.017007
(Berner et al., 2009)	<i>Gasterosteus aculeatus</i>	Pye - upstream	Pye - downstream	populations	6	STR	0.14	Table 1	Fst	(Weir and Cockerham, 1984)	0.064	0.251125	0.598	0.281241
(Berner et al., 2009)	<i>Gasterosteus aculeatus</i>	Robert's - upstream	Robert's - downstream	populations	6	STR	0.05	Table 1	Fst	(Weir and Cockerham, 1984)	12.94	0.130139	14	0.167429
(Boisselier-Dubayle et al., 2010)	<i>Pitcairnia geyskesii</i>	Trinite	Nouragues and Mt. Chauve	populations	7	STR	0.32	Table 3	Fst	(Weir and Cockerham, 1984)	0.68	0.2	0.44	0.2
(Boisselier-Dubayle et al., 2010)	<i>Pitcairnia geyskesii</i>	Trinite, Nouragues and Mt. Chauve	Bakra and Touatou	populations	7	STR	0.452	Table 3	Fst	(Weir and Cockerham, 1984)	0.975	0.12	0.0675	0.666667
(Boisselier-Dubayle et al., 2010)	<i>Pitcairnia geyskesii</i>	St. Marcel	Mitaraka	populations	7	STR	0.693	Table 3	Fst	(Weir and Cockerham, 1984)	0.06	0.4	0.000075	0.8
(Boisselier-Dubayle et al., 2010)	<i>Pitcairnia geyskesii</i>	Trinite, Nouragues, Mt. Chauve, Bakra, Touatou	St. Marcel	populations	7	STR	0.63	Table 3	Fst	(Weir and Cockerham, 1984)	2.575	0.12	0.021	1
(Bolnick et al., 2008)	stickleback	Amor	Ormond	populations	6	STR	0.249	Table 1	Fst	(Slatkin, 1995)	0.7735	0.104396	0.200175	0.403397
(Bowie et al., 2009)	<i>Scepomycter winifredae</i>	uluguru	rubeoho-ukaguru	populations	6	seq	0.7	Calculated using data in Table 1	Fst	(Hudson et al., 1992b)	0.002027	0.99889	4.95E-09	0.942349
(Bull et al., 2006)	<i>Heliconius</i>	H. melpomene	H. cydno	species	4	seq					0.000159	19054.26	0.000696	4342.687
(Carling et al., 2010)	<i>Passerina</i>	P. amoeba	P. cyanea	species	20	seq					0.4278	0.442029	0.3441	1.311828
(Carneiro et al., 2009)	<i>Oryctolagus cuniculus</i>	O. c. algirus	O. c. cuniculus	subspecies	10	seq	0.241	Table 3, mean across loci	Fst	(Hudson et al., 1992b)	1.498	0.5748	0.0762	1.177091
(Carstens and Knowles, 2007)	<i>Melanoplus</i>	M. oregonensis	M. montanus	species	6	seq					1.26525	0.697095	3.01275	0.627334
(Carstens et al., 2009)	<i>Plethodon idahoensis</i>	Lochsa + Selway	North Fork + Clearwater	populations	3	seq					0.002366	0.402629	0.118819	0.432886
(Carstens and Dewey, 2010)	<i>Myotis</i>	M. l. alascensis	M. l. carisima	subspecies	7	seq					0.856811	0.558356	0.000284	0.651643
(Carstens and Dewey, 2010)	<i>Myotis</i>	M. e. chrysonotus	M. l. alascensis	species	7	seq					0.149032	2.03058	0.000393	2.150916
(Chen et al., 2010)	<i>Picea</i>	P. abies	P. glauca	species	10	seq	0.298	personal communication from J. Chen	Fst	(Lynch and Crease, 1990)	0.01525	0.000588	0.612	0.000699
(Chen et al., 2010)	<i>Picea</i>	P. abies	P. mariana	species	10	seq	0.395	personal communication from J. Chen	Fst	(Lynch and Crease, 1990)	0.135	0.000758	0.102	0.001424
(Chen et al., 2010)	<i>Picea</i>	P. glauca	P. breweriana	species	10	seq	0.653	personal communication from J. Chen	Fst	(Lynch and Crease, 1990)	0.14	0.001281	0.0105	0.013742

(Coelho et al., 2009)	<i>Homo sapiens</i>	southwest africa	southeast africa	populations	2	seq+STR					21.5	0.011229	99.5	0.013062
(Cox et al., 2008)	<i>Homo sapiens</i>	BIA	MAN	populations	20	seq	0.117	Table 1	Fst	(Hudson et al., 1992b)	1.5124	0.218503	3.696	0.131764
(Cox et al., 2008)	<i>Homo sapiens</i>	BIA	SAN	populations	20	seq	0.169	Table 1	Fst	(Hudson et al., 1992b)	2.1128	0.160586	0.91848	0.167202
(Cox et al., 2008)	<i>Homo sapiens</i>	BIA	BAS	populations	20	seq	0.311	Table 1	Fst	(Hudson et al., 1992b)	0.3999	0.235791	0.715	0.337363
(Cox et al., 2008)	<i>Homo sapiens</i>	BIA	MEL	populations	20	seq	0.331	Table 1	Fst	(Hudson et al., 1992b)	0.9798	0.229037	0.15072	1.006597
(Cox et al., 2008)	<i>Homo sapiens</i>	SAN	MEL	populations	20	seq	0.39	Table 1	Fst	(Hudson et al., 1992b)	2.8768	0.136064	0.000242	1.010921
(CRANDALL et al., 2008)	<i>Nerita albicilla</i>	Indian	Pacific	populations	1	seq	0.642	personal communication from E. Crandall	$\Phi$ st	(Excoffier et al., 2005)	0.79	0.026778	0.36	0.057658
(De Busschere et al., 2010)	<i>Hogma</i>	<i>H. galapagoensis</i>	<i>H. hendrickxi</i>	species	2	seq	0.8	personal communication from F. Hendrickx	Fst	(Lynch and Crease, 1990)	0.885368	0.782799	0.007356	1.554105
(de Bruyn et al., 2009)	<i>Mirounga leonina</i>	VLC	MQ	populations	20	seq	0.149	Text p.3	$\Phi$ st	(Excoffier et al., 2005)	7.713225	0.114641	2.793308	0.003517
(Dolman and Moritz, 2006)	<i>Carlia</i>	<i>C. rubrigularis</i> S	<i>C. rhomboidalis</i>	species	7	seq	0.47	Table 1	Fst	not provided	0	0.741676	0	1.07309
(DRUMMOND and HAMILTON, 2007)	<i>Lupinus microcarpus</i>	var horizontalis	var densiflorus	subspecies	6	STR	0.292	Table 3	"Among varieties in the total sample"	(Excoffier et al., 2005)	0.5229	0.411647	0.00129	0.794574
(Duda and Lessios, 2009)	<i>Conus ebraeus</i>	West and Central Pacific	East Pacific	populations	1	seq	0.252	Table 2	$\Phi$ ct	(Tamura and Nei, 1993)	50	0.000315	0.9045	14
(Duda and Lee, 2009)	<i>Conus miliaris</i>	<i>C. miliaris</i> Easter Island	<i>C. miliaris</i> other places	populations	1	seq	0.103	Table 3	$\Phi$ ct	(Excoffier et al., 1992)	20.328	0.046006	3860.892	0.000545
(ECKERT et al., 2008)	<i>Pinus balfouriana</i>	SN	KM	populations	7	seq	0.243	mean of values in Table 2	$\Phi$ ct	(Excoffier et al., 2005)	1.1009	2.018349	2.013	2.404372
(Elmer et al., 2010)	<i>Amphilophus cf. citrinellus</i>	Apoyeque	Managua	populations	7	seq+STR	0.163	personal communication from K. Elmer	Fst	(Excoffier et al., 2005);	0.526222	1.918919	0.461689	0.047844
(Farias et al., 2010)	<i>Collossoma macropomum</i>	Amazon Basin	Bolivian sub-basin	populations	1	seq	0.121	text p. 1131	$\Phi$ ct	(Excoffier et al., 2005)	112.7921	0.002003	2.584235	0.128357
(Faure et al., 2009)	<i>Bathymodiolus</i>	<i>B. azoricus</i>	<i>B. puteoserpentis</i>	species	8	seq	0.233	mean of values in Figure 6	$\Phi$ st	(Excoffier et al., 2005)	0.028968	0.016466	4.288284	0.088097
(Fontaine et al., 2010)	<i>Phocoena phocoena</i>	Iberian	NBB	populations	10	STR	0.09	personal communication from M. Fontaine	Fst	(Fontaine et al., 2007; Weir and Cockerham, 1984)	0.34	0.221519	4.65	0.049575
(Fontaine et al., 2010)	<i>Phocoena phocoena</i>	Black Sea	Atlantic	populations	10	STR	0.147	personal communication from M. Fontaine	Fst	(Fontaine et al., 2007; Weir and Cockerham, 1984)	0.54	0.366022	0	0.095118

(Garrigan et al., 2007)	<i>Homo sapiens</i>	Bakola	San	populations	4	seq					2.175	0.385791	1.2325	4.61E-16
(Garrigan et al., 2007)	<i>Homo sapiens</i>	San	SE Bantu	populations	4	seq					2.915	0.457608	4.7925	0.190609
(Garrigan et al., 2007)	<i>Homo sapiens</i>	Dogon	San	populations	4	seq					1.8775	0.376574	3.435	0.385371
(Garrigan et al., 2007)	<i>Homo sapiens</i>	Dogon	Mongolian	populations	4	seq					0.57	0.112281	0.1675	0.014008
(Garrigan et al., 2007)	<i>Homo sapiens</i>	Mongolian	Dutch	populations	4	seq					58.3825	0.01113	1.405	0.005468
(Garrigan et al., 2007)	<i>Homo sapiens</i>	Sri Lankan	Dutch	populations	4	seq					3.405	0.001567	9.1575	0.001884
(Geraldes et al., 2008)	<i>Mus</i>	<i>M. musculus</i>	<i>M. domesticus</i>	species	8	seq	0.7725	mean of values in Table 4	Fst	(Hudson et al., 1992b)	0.094	5.701019	0.002	3.096036
(Gladieux et al., 2010a)	<i>Venturia inaequalis</i>	ViP	ViL	populations	6	seq	0.257	text p. 517	Kst	(Hudson et al., 1992a)	0.148	0.35	0	58.33333
(Gladieux et al., 2010a)	<i>Venturia inaequalis</i>	ViP/ViL	ViA	populations	6	seq	0.247	mean of values on pp 516, 517	Kst	(Hudson et al., 1992a)	0.3564	6.212121	0.544	1.205882
(Gladieux et al., 2010b)	<i>Venturia inaequalis</i>	CAM	CAP+EU	populations	10	STR	0.001	personal communication from P. Gladieux	Fst	(Excoffier et al., 2005)	5.466667	0.246788	1.933333	0.1953
(Hansen et al., 2008)	<i>Coregonus</i>	<i>C. oxyrinchus</i> (VID)	<i>C. lavaretus</i> (RIN)	species	12	STR	0.07	mean of values in Table 2	Rst	(Hardy and Vekemans, 2002)	0.939705	0.881013	17.12682	0.170588
(Hansson et al., 2008)	<i>Acrocephalus arundinaceus</i>	Netherlands/Germany	Sweden/Latvia	populations	1	seq	0.04875	Supplementary Table 1	Fst	(Hudson et al., 1992b)	91.575	0.021081	55.385	0.019364
(Hansson et al., 2008)	<i>Acrocephalus arundinaceus</i>	Sweden/Latvia	Belarus/Ukraine	populations	1	seq	0.0285	Supplementary Table 1	Fst	(Hudson et al., 1992b)	9.44325	0.014772	82.3185	0.018641
(Hansson et al., 2008)	<i>Acrocephalus arundinaceus</i>	Belarus/Ukraine	Russia	populations	1	seq	0.057	Supplementary Table 1	Fst	(Hudson et al., 1992b)	16.60875	0.052713	10.54725	0.033042
(Hansson et al., 2008)	<i>Acrocephalus arundinaceus</i>	Russia	Kazakhstan	populations	1	seq	0.191	Supplementary Table 1	Fst	(Hudson et al., 1992b)	65.2335	0.166065	4.329	0.207207
(Hansson et al., 2008)	<i>Acrocephalus arundinaceus</i>	Germany/Czech/Hungary	Greece/Bulgaria	populations	1	seq	0.03125	Supplementary Table 1	Fst	(Hudson et al., 1992b)	0.80775	0.005571	14.80275	0.004357
(Hansson et al., 2008)	<i>Acrocephalus arundinaceus</i>	Sweden/Latvia	Belarus/Ukraine/Russia	populations	1	seq	0.0215	Supplementary Table 1	Fst	(Hudson et al., 1992b)	0.063	1.357143	27.36125	0.09201
(Hansson et al., 2008)	<i>Acrocephalus arundinaceus</i>	Belarus/Ukraine/Russia	Greece/Bulgaria	populations	1	seq	0.035833	Supplementary Table 1	Fst	(Hudson et al., 1992b)	19.224	0.027778	12.75375	0.044693
(Hansson et al., 2008)	<i>Acrocephalus arundinaceus</i>	Greece/Bulgaria	Turkey/Iran	populations	1	seq	0.373	Supplementary Table 1	Fst	(Hudson et al., 1992b)	5.1075	0.118943	12.89475	0.103647
(Hey and Nielsen, 2004)	<i>Drosophila</i>	<i>D. pseudobscura</i>	<i>D. persimilis</i>	species	14	seq	0.371	calculated from raw data	Fst	(Hudson et al., 1992b)	0.09	0.413333	0.11	0.775
(Hird et al., 2010)	<i>Tamias ruficaudus</i>	T. r. <i>simulans</i>	T. r <i>ruficaudus</i>	subspecies	1	seq	0.117	text p. 874	Rst	(Excoffier et al., 2005)	0.285327	0.896997	0.0101	0.402248
(Ikeda et al., 2009)	<i>Cardamine nipponica</i>	north	south	populations	10	seq	0.417	Abstract	Fst	(Hudson et al., 1992b)	0.000983	3.001017	0.001421	2.076368

(Johnson et al., 2007)	<i>Chondrohierax uncinatus</i>	SA	CA	populations	1	seq	0.444	personal communication from J. Johnson	Fst	(Excoffier et al., 2005)	0.413	0.031477	0.0365	0.356164
(KING and ROALSON, 2009)	<i>Carex</i>	C. macrocephala (Asia)	C. kobomugi	species	9	seq+STR	0.429	text p. 473	Fst	(Excoffier et al., 2005)	0.000861	2.300988	0.011083	2.322581
(KING and ROALSON, 2009)	<i>Carex</i>	C. macrocephala (North America)	C. kobomugi	species	9	seq+STR	0.587	text p. 473	Fst	(Excoffier et al., 2005)	0.014212	3.741486	0.001559	3.1017
(Koblmüller et al., 2009)	<i>Perissodus microlepis</i>	east of Mbete	west of Mbete	populations	1	seq	0.634	Table 5	Φct	(Excoffier et al., 2005)	0.368177	0.285742	2.16837	0.674098
(Kondo et al., 2008)	<i>Icterus</i>	I. abeillei	I. galbula	species	3	seq					0	0.006074	0	0.000721
(Koopman and Carstens, 2010)	<i>Sarracenia alata</i>	east	west	populations	8	STR	0.169	Table 3	Φst	(Dyer, 2009; Excoffier et al., 1992)	0.003307	0.079423	1.054933	0.139855
(Kotlik et al., 2008)	<i>Rutilus frisii</i>	Black sea	Caspian sea	populations	3	seq	0.519	mean of values in Table 4	Fst	(Weir and Cockerham, 1984)	0.31066	2.105678	0.161365	4.88117
(Kronforst et al., 2006)	<i>Heliconius</i>	H. cydno	H. pachinus	species	15	seq					4.326	0.423738	0.502	1.430908
(Kronforst et al., 2006)	<i>Heliconius</i>	H. pachinus	H. melpomene	species	15	seq					0.11	1.835474	0.252	1.768825
(LAWTON RAUH et al., 2007)	<i>Dubautia</i>	D. arborea	D. ciliolata	species	5	seq	0.14	mean of values in Table 6	Φct	(Excoffier et al., 1992)	0.7773	3.411306	0.2753	1.303053
(LEACHE and MULCAHY, 2007)	<i>Sceloporus</i>	S. magister	S. bimaculosus	species	4	seq					0.03535	56.83956	9.921422	2.163727
(Lee and Edwards, 2008)	<i>Malurus melanocephalus</i>	CY	EF	populations	36	seq					4.130924	0.266205	0.324632	0.255218
(Li et al., 2010)	<i>Leucodioptron</i>	L. taewanus	L. canorum	species	18	seq	0.47	Table 2	Fst	(Hudson et al., 1992b)	170.5	5.227273	65.5	30.53097
(Lopes and Boessenkool, 2010)	<i>Megadyptes antipodes</i>	south island	subantarctic	populations	13	seq+STR					0	3.727273	36.78	0.030402
(Malusa et al., 2007)	<i>Ostrinia nubilalis</i>	maize	mugwort	populations	2	seq	0.06	mean of values in Table 2	Fct	(Excoffier et al., 2005)	9.793736	0.392646	9.793736	0.392646
(Maley and Winker, 2010)	<i>Plectrophenax</i>	P. nivalis	P. hyperboreus	species	1	seq	0.078	text p. 790	Fst	(Excoffier et al., 2005)	753.3219	0.001531	0.049481	0.054358
(Mao et al., 2010)	<i>Rhinolophus pearsoni</i>	R. p. chinensis	R. p. pearsoni	subspecies	3	seq	0.59	personal communication from S. Rossiter	Rst	(Slatkin, 1995)	0.012656	0.28	2.338002	0.156018
(Marko et al., 2010)	<i>Balanus glandula</i>	COR	SIT	populations	1	seq					0	0.018489	0	0.022767
(Marko et al., 2010)	<i>Balanus glandula</i>	SIT	JUN	populations	1	seq					0	0.010525	0	0.006705
(Marko et al., 2010)	<i>Balanus glandula</i>	JUN	RUP	populations	1	seq					274.215	0.104271	242.4	0.117956
(Marko et al., 2010)	<i>Balanus glandula</i>	RUP	REN	populations	1	seq					0	0.046306	0	0.003173
(Marko et al., 2010)	<i>Balanus glandula</i>	REN	SJI	populations	1	seq					4141.585	0.01354	15579.43	0.003599

(Marko et al., 2010)	<i>Patiria miniata</i>	VC	DUN	populations	1	seq					9.5407	0.05333	0	0.05333
(Marko et al., 2010)	<i>Patiria miniata</i>	DUN	WIN	populations	1	seq					0.0138	0.302435	5.796	0.302435
(Marko et al., 2010)	<i>Patiria miniata</i>	WIN	AP	populations	1	seq					2.925	0.099615	0.195	0.099615
(Marko et al., 2010)	<i>Xiphister mucosus</i>	SIT	SJI	populations	1	seq					0.17908	0	0.220825	0
(Marko et al., 2010)	<i>Xiphister atropurpureus</i>	SIT	HG	populations	1	seq					0.2607	0.688392	0.2607	0.688392
(Marko et al., 2010)	<i>Xiphister atropurpureus</i>	HG	CAM	populations	1	seq					7.3831	0.777713	0	2.067302
(Marko et al., 2010)	<i>Xiphister atropurpureus</i>	CAM	SJI	populations	1	seq					0.835875	0.970871	0.835875	0.970871
(Marko et al., 2010)	<i>Nucella lamellosa</i>	KOD	COR	populations	1	seq					0	0.552462	0	2.765188
(Marko et al., 2010)	<i>Nucella lamellosa</i>	COR	SIT	populations	1	seq					0	2.585503	0	0.009038
(Marko et al., 2010)	<i>Nucella lamellosa</i>	SIT	JUN	populations	1	seq					0	0.310906	0	2.869897
(Marko et al., 2010)	<i>Nucella lamellosa</i>	JUN	WRA	populations	1	seq					0	0.979869	0	0.020899
(Marko et al., 2010)	<i>Nucella lamellosa</i>	WRA	KET	populations	1	seq					0	0.002486	0	0.000991
(Marko et al., 2010)	<i>Nucella lamellosa</i>	RUP	SJB	populations	1	seq					1962	0.145156	0	0.145156
(Marko et al., 2010)	<i>Nucella lamellosa</i>	SJB	CAM	populations	1	seq					0	0.307002	0.0484	0.35838
(Marko et al., 2010)	<i>Nucella lamellosa</i>	CAM	SJI	populations	1	seq					0.31095	1.797858	0	0.562136
(Marko et al., 2010)	<i>Nucella lamellosa</i>	SJB	BAM	populations	1	seq					0	1.864545	0	2.402845
(Marko et al., 2010)	<i>Nucella lamellosa</i>	BAM	SJI	populations	1	seq					0.002	0.3516	0	0.013884
(Maroja et al., 2009)	<i>Gryllus</i>	<i>G. pennsylvanicus</i>	<i>G. firmus</i>	species	8	seq	0.193	mean of values in Table 4	Fct	(Excoffier et al., 1992)	0	0.170466	4.077	0.357297
(Viaud-Martínez et al., 2007)	<i>Phocoena phocoena</i>	Eastern region	Eastern Atlantic	populations	1	seq	0.312	text p. 285	Fst	(Excoffier et al., 1992)	0	0.125444	0	0.121143
(Martínez-Cruz and Godoy, 2007)	<i>Aquila</i>	<i>A. adalberti</i>	<i>A. heliaca</i>	species	8	STR					0.94545	1.413613	0	0.75419
(Mazzoni et al., 2008)	<i>Lutzomyia</i>	<i>L. whitmani</i>	<i>L. intermedia</i>	species	10	seq	0.386	mean of values	Fst	(Lynch and Crease, 1990)	0.138056	0.926362	0.001627	1.626306

								in Table 2						
(Morgan et al., 2010)	<i>Anopheles</i>	A. dirus N Thailand	A. baimaii N Thailand	species	3	seq	0.204	mean of values in Table 3	Fst	(Excoffier et al., 2005)	1.293435	0.568312	0.826625	0.763496
(Morgan et al., 2010)	<i>Anopheles</i>	A. dirus N Thailand	A. scanloni	species	3	seq	0.36	mean of values in Table 3	Fst	(Excoffier et al., 2005)	1.730484	0.630309	0.00766	1.210836
(Morgan et al., 2010)	<i>Anopheles</i>	A. baimaii N Thailand	A. scanloni	species	3	seq	0.533	mean of values in Table 3	Fst	(Excoffier et al., 2005)	0.292953	0.673095	0.26433	1.307116
(Morgan et al., 2010)	<i>Anopheles</i>	A. baimaii N Thailand	A. baimaii India	populations	3	seq	0.092	mean of values in Table 3	Fst	(Excoffier et al., 2005)	0.359813	0.369984	0.058684	0.308517
(Mullen et al., 2008)	<i>Limenitis arthemis</i>	L. a. arthemis	L. a. astyanax	subspecies	8	seq					0.319814	0.118979	0.137453	0.094805
(Nadachowska and Babik, 2009)	<i>Lissotriton</i>	L. vulgaris	L. kossugi	species	9	seq	0.807	personal communication from K. Nadachowska	Fst	(Tamura and Nei, 1993)	0	2.554878	0.177675	2.711974
(NAGATA et al., 2009)	<i>Carabus arrowianus</i>	S group	L group	populations	1	seq	0.26	Table 1	Fct	(Excoffier et al., 1992)	4.131225	0.065053	1.656675	0.011318
(Noonan and Gaucher, 2005)	<i>Atelopus</i>	A. flavescens	A. franciscus	species	1	seq					0.1	0.028371	0.09	0.605286
(Noonan and Gaucher, 2005)	<i>Atelopus</i>	A. franciscus	Pic Matecho (A. vermiculatus)	species	1	seq					0.08	0.111579	0.1	0.049251
(Noonan and Gaucher, 2005)	<i>Atelopus</i>	Pic Matecho (A. vermiculatus)	A.s. barbotini	species	1	seq					0.03	0.075972	1	0.096667
(Noonan and Gaucher, 2005)	<i>Atelopus</i>	A.s. barbotini	A. s. hoogmoedi	subspecies	1	seq					0.61	0.842264	0.01	1.141688
(Norgate et al., 2009)	<i>Heteronympha merope</i>	Mainland	Tasmania	populations	1	seq	0.257	personal communication from P. Sunnucks	Φst	(Excoffier et al., 2005)	0.034087	0.011617	16.5587	0.020053
(Norgate et al., 2009)	<i>Heteronympha merope</i>	Mainland	Carnarvon Gorge	populations	1	seq	0.169	personal communication from P. Sunnucks	Φst	(Excoffier et al., 2005)	0.126938	0.006736	0	0.261069
(O'Corry-Crowe et al., 2010)	<i>Delphinapterus leucas</i>	Beaufort sea	Svalbard	populations	1	seq	0.029	values for microsatellites in Table 3	Fst	(Excoffier et al., 1992)	1.500584	0.016416	0.548913	0.181894
(Ohshima and Yoshizawa, 2010)	<i>Acrocercops transecta</i>	juglans	lyonia	populations	4	seq	0.475	mean of values in Supplementary Table 4	Fst	not provided	1.467828	0.73573	0.170076	2.27501
(Omilian and Lynch, 2009)	<i>Daphnia</i>	D. pulex	D. pulicaria	species	6	seq					0.1941	0.193199	0.48535	0.437828
(Oosterhout et al., 2006)	<i>Poecilia reticulata</i>	LA	UA	populations	8	STR	0.156	text p. 2566	Gst	(Nei, 1973)	0.537	0.376519	0.126	8.341346

(Osada et al., 2010)	<i>Macaca fascicularis</i>	Sunda	Philippines	populations	54	seq	0.17	mean of values on p. 2887	Fst	(Lynch and Crease, 1990)	2.23	0.71489	0.56	6.123188
(Osada et al., 2010)	<i>Macaca</i>	<i>M. fascicularis</i>	<i>M. mulatta</i>	species	54	seq	0.322	mean of values in Table 3	Fst	(Lynch and Crease, 1990)	0.44	0.698273	0.35	1.151515
(Pavey et al., 2010)	<i>Onchorhynchus nerka</i>	beach	outlet	populations	6	STR	0.0112	text p. 1777	Fst	(Weir and Cockerham, 1984)	0.1588	0.01398	0.25344	0.021023
(Peters et al., 2007)	<i>Anas</i>	<i>A. falcata</i>	<i>A. strepera</i>	species	2	seq					0.00098	1.102041	0.0546	1.928571
(Peters et al., 2008)	<i>Anas strepera</i>	<i>A. strepera</i> OW	<i>A. strepera</i> NW	populations	6	seq+STR					2.5	0.017992	7.7	0.098107
(Peters et al., 2005)	<i>Aix sponsa</i>	west	east	populations	1	seq	0.31	text p. 3413	$\Phi$ st	(Excoffier et al., 1992)	0.1554	0.52381	5.587	0.01457
(Rawson and Harper, 2009)	<i>Mytilus trossulus</i>	Pacific	NW Atlantic	populations	1	seq					0.021672	0.039129	24.06325	0.004198
(Riginos, 2005)	<i>Axoclinus nigricaudus</i>	Upper Gulf	Central Gulf	populations	1	seq	0.29	Table 4	$\Phi$ ct	(Excoffier et al., 1992)	0	0.118044	0	0.006803
(Riginos, 2005)	<i>Coralliozetus micropes</i>	Upper Gulf	Central Gulf	populations	1	seq	0.34	Table 4	$\Phi$ ct	(Excoffier et al., 1992)	0	0.102151	0	2.923077
(Riginos, 2005)	<i>Malacoctenus hubbsi</i>	Upper Gulf	Central Gulf	populations	1	seq	0	Table 4	$\Phi$ ct	(Excoffier et al., 1992)	0	0.208333	98.5739	0.008385
(Riginos, 2005)	<i>Girella nigricans</i>	Upper Gulf	Central Gulf	populations	1	seq	0.05	Table 4	$\Phi$ ct	(Excoffier et al., 1992)	165.6325	0.015199	134.9759	0.01928
(Riginos, 2005)	<i>Paralabrax maculatofasciatus</i>	Upper Gulf	Central Gulf	populations	1	seq					0.0008	46	0.126	7.666667
(Rona et al., 2010)	<i>Anopheles cruzii</i>	Itaparica	Florianopolis	populations	6	seq	0.788	mean of values in Table 3	Fst	(Lynch and Crease, 1990)	0.000224	5.715217	0.000174	4.095379
(Russell et al., 2008a)	<i>Triaenops</i>	<i>T. rufus</i>	<i>T. persicus</i>	species	1	seq					0	0.673684	0	0.122137
(Russell et al., 2008b)	<i>Myzopoda</i>	<i>M. schliemannii</i>	<i>M. aurita</i>	species	1	seq					0.053852	0.298186	0.053099	0.302414
(Salazar et al., 2008)	<i>Heliconius</i>	<i>H. cydno</i>	<i>H. melpomene</i>	species	6	seq	0.374	mean of values in Table 3	Fst	(Lynch and Crease, 1990)	0.721232	1.176471	0	0.487805
(Schoville and Roderick, 2009)	<i>Parnassius</i>	<i>P. behrii</i>	<i>P. smintheus</i>	species	3	seq	0.507	personal communication from S. Schoville	Fst	(Hudson et al., 1992b)	0.734367	0.227698	3.453795	0.076796
(Storchova et al., 2010)	<i>Luscinia</i>	<i>L. megarhynchos</i>	<i>L. luscinia</i>	species	12	seq	0.46	mean of values in Table 2	Fst	(Hudson et al., 1992a)	0.118426	2.056031	0.325948	1.080906
(Strasburg and Rieseberg, 2008)	<i>Helianthus</i>	<i>H. annus</i>	<i>H. petiolaris</i>	species	18	seq	0.306	personal communication from J. Strasburg	Fst	(Hudson et al., 1992b)	0.6096	0.299213	1.16655	0.214993
(Stukenbrock et al., 2007)	<i>Mycosphaerella</i>	<i>M. graminicola</i>	S1 (unidentified wild species of <i>Mycosphaerella</i> )	species	6	seq	0.06309	personal communication from E. Stukenbrock	$\G$ st	Nei 1973	7.6875	0.008195	0.208	1.615385
(Taylor et al., 2008)	<i>Salvelinus</i>	<i>S. malma</i>	<i>S. alpinus</i>	species	1	seq	0.15	personal communication from R. Taylor	Fst	(Weir and Cockerham, 1984)	0.03555	0.046976	4.6575	0.053784

(Thalmann et al., 2007)	<i>Gorilla</i>	G. gorilla	G. beringei	species	16	seq	0.38	text p. 151	Fst	(Excoffier et al., 2005)	0.349976	0.146907	0.141624	0.904762
(Toju and Sota, 2009)	<i>Curculio camelliae</i>	HSK	YKI	populations	1	seq					0.011962	0.02278	0.007329	0.037182
(Tsai and Manos, 2010)	<i>Epifagus virginiana</i>	13	9	populations	11	seq+STR					0.021535	0.164384	0.63125	0.48
(Tsai and Manos, 2010)	<i>Epifagus virginiana</i>	13	6	populations	11	seq+STR					0.9991	0.371134	0.2586	0.055684
(Tsai and Manos, 2010)	<i>Epifagus virginiana</i>	9	6	populations	11	seq+STR					1.3314	1.333333	978.3167	0.002338
(Wall et al., 2010)	<i>Pyxidanthera</i>	south	north	populations	1	seq	0.173	value for cpDNA in Table 1	"Variance between regions"	(Excoffier et al., 2005)	0.016825	0.462407	0.987525	1.646561
(Wang and Hey, 2010)	<i>Drosophila</i>	D. melanogaster	D. simulans	species	30323	seq					0.013375	6.213768	0	2.536982
(Wang et al., 2008)	<i>Neophocaena</i>	N. phocaenoides	N. asieorientalis (sp. N)	species	5	STR	0.48	text p. 149	Rst	Hardy and Vekemans 2002	0.031	0.036774	0.25545	0.350769
(Willis et al., 2010)	<i>Cichla temensis</i>	Orinoco	Casquiare+Amazon	populations	1	seq					0.009558	4.576271	0.658168	3.170254
(Willis et al., 2010)	<i>Cichla monoculus</i>	Orinoco	Casquiare+Amazon	populations	1	seq					0.00228	3233.333	0.878294	2.434128
(Willis et al., 2010)	<i>Cichla orinocensis</i>	Orinoco	Casquiare+Amazon	populations	1	seq					0.5327	2.509855	0.000171	3.453888
(Wilson, 2006)	<i>Syngnathus leptorhynchus</i>	CA	WA	populations	1	seq	0.18	Table 3	Rst	((Schneider et al., 1997))	1.364605	0.379203	0.022075	0.247792
(Wilson, 2006)	<i>Syngnathus leptorhynchus</i>	CA	AK	populations	1	seq	0.477	Table 3	Rst	(Schneider et al., 1997)	1.776975	0.576124	0.005828	2.869498
(Wilson, 2006)	<i>Syngnathus leptorhynchus</i>	WA	AK	populations	1	seq	0.259	Table 3	Rst	(Schneider et al., 1997)	588.4093	0.002506	0.001375	0.447273
(Wilson and Veraguth, 2010)	<i>Syngnathus typhle</i>	ASK	KLU	populations	2	seq	0.12	mean of mtDNA and nDNA values in Figure 2	Fst	(Excoffier et al., 2005)	0.44	0.156379	0.44	0.167401
(Wilson and Veraguth, 2010)	<i>Syngnathus typhle</i>	RIA	MUR	populations	2	seq	0.55	mean of mtDNA and nDNA values in Figure 2	Fst	(Excoffier et al., 2005)	0.07	0.801443	0.01	1.25368
(Wilson and Veraguth, 2010)	<i>Syngnathus typhle</i>	KLU	ROS	populations	2	seq	0.25	mean of mtDNA and nDNA values in Figure 2	Fst	(Excoffier et al., 2005)	0.09	0.202179	1.65	0.202179
(Wilson and Veraguth, 2010)	<i>Syngnathus typhle</i>	ROS	PED	populations	2	seq	0.42	mean of mtDNA and nDNA values in Figure 2	Fst	(Excoffier et al., 2005)	0.96	0.643004	0.01	1.619171
(Wilson and Veraguth, 2010)	<i>Syngnathus typhle</i>	MUR	LIV	populations	2	seq	0.42	mean of mtDNA and nDNA values in Figure 2	Fst	(Excoffier et al., 2005)	0.01	1.110952	0.92	0.324028

(Wilson and Veraguth, 2010)	<i>Syngnathus typhle</i>	LIV	VEN	populations	2	seq	0.185	mean of mtDNA and nDNA values in Figure 2	Fst	(Excoffier et al., 2005)	4.37	0.305444	0.09	0.19474
(Wilson and Veraguth, 2010)	<i>Syngnathus typhle</i>	PED	GRO	populations	2	seq	0.34	mean of mtDNA and nDNA values in Figure 2	Fst	(Excoffier et al., 2005)	0.01	3.441667	1.66	1.147222
(Wilson and Veraguth, 2010)	<i>Syngnathus typhle</i>	GRO	RIA	populations	2	seq	0.32	mean of mtDNA and nDNA values in Figure 2	Fst	(Excoffier et al., 2005)	0.03	0.578067	1.16	0.314777
(Wilson and Veraguth, 2010)	<i>Syngnathus typhle</i>	VEN	ERD	populations	2	seq	0.36	mean of mtDNA and nDNA values in Figure 2	Fst	(Excoffier et al., 2005)	2.86	0.24007	0.03	284.7819
(Wilson and Veraguth, 2010)	<i>Syngnathus typhle</i>	ERD	ODE	populations	2	seq	0.02	mean of mtDNA and nDNA values in Figure 2	Fst	(Excoffier et al., 2005)	0.96	0.037105	51	0.017428
(Won and Hey, 2005)	<i>Pan</i>	<i>P. paniscus</i>	<i>P. t. verus</i>	species	46	seq	0.657	calculated using raw data	Fst	(Hudson et al., 1992b)	0.00007	2.964789	0.00006	3.381526
(Won and Hey, 2005)	<i>Pan</i>	<i>P. paniscus</i>	<i>P. t. troglodytes</i>	species	46	seq	0.561	calculated using raw data	Fst	(Hudson et al., 1992b)	0.00048	3.338182	0.00017	1.366071
(ZAMUDIO et al., 2009)	<i>Trichogenes longipinnis</i>	Camburi	Paralelo Camburi	populations	7	STR	0.222	Table 3	Fst	(Weir and Cockerham, 1984)	0.464085	1	0.09174	0.323741
(ZAMUDIO et al., 2009)	<i>Trichogenes longipinnis</i>	Paralelo Camburi	RJ599 & Buracao	populations	7	STR	0.405	mean of values in Table 3	Fst	(Weir and Cockerham, 1984)	0.30107	0.798319	0.119175	0.837004
(ZAMUDIO et al., 2009)	<i>Trichogenes longipinnis</i>	Amor	RJ599 & Buracao	populations	7	STR	0.57	mean of values in Table 3	Fst	(Weir and Cockerham, 1984)	0.003443	5.686275	0.02805	0.852941
(Zheng and Ge, 2010)	<i>Oriza</i>	<i>O. nivara</i>	<i>O. rufipogon</i>	species	6	seq	0.429	mean of values in Table 3	Fst	(Excoffier et al., 2005)	0.491188	0.370276	2.52015	0.152997
(Jaramillo Correa et al., 2010)	<i>Pinus pinaster</i>	SS	M	populations	2	seq					1.44205	3.509934	1.4001	13.58974
(Lanterbecq et al., 2010)	<i>Amblyrhynchus cristatus</i>	southern	northern	populations	13	seq+STR	0.0197	mean of values in Table 4		(Schneider et al., 2000)	2.819313	0	2.517975	0
(McGovern et al., 2010)	<i>Patiria miniata</i>	WIN	BAM	populations	7	seq	0.067	mean of values in Table 3	Φct	(Excoffier et al., 2005)	6.6	0.016603	0.4	0.016792
(McGovern et al., 2010)	<i>Nucella lamellosa</i>	CAM	SJI	populations	7	seq					1.8	1.372225	0	0.43038
(Sly et al., 2010)	<i>Phaenicophilus palmarum</i>	palmarum	poliocephalus	species	4	seq					0.1953	0	0.0245	0

Table legend:

Taxon 1 and Taxon 2 refer to the two groups (identified in the study) that were used in the IM analysis

Rank refers to the rank of the units identified as Taxon 1 and Taxon 2 that were used in this analysis.

# loci is the number of genetic loci used in the IM analysis

Type of loci: 'seq' for DNA sequence loci, STR for short tandem repeat (microsatellite). In most cases when one or more DNA sequence loci are included, the mtDNA is represented as one of the loci.

Fst refers to the value for the estimated proportion of the overall variation found among the Taxon 1 and Taxon 2 groups that is due to differentiation between those two groups

Fst Source refers to the location in the paper where the Fst values were found (or how they were calculated), or to personal communication with one of the authors

Fst ID refers to the label used in the paper to refer to this value.

Fst Citation refers to the references given in the paper to the type of value being calculated.

2N1M1 refers to the 2NM estimate for Taxon 1

$\tau_1$  refers to the estimate of  $\tau$  for Taxon 1

2N2M2 refers to the 2NM estimate for Taxon 2

$\tau_2$  refers to the estimate of  $\tau$  for Taxon 2

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