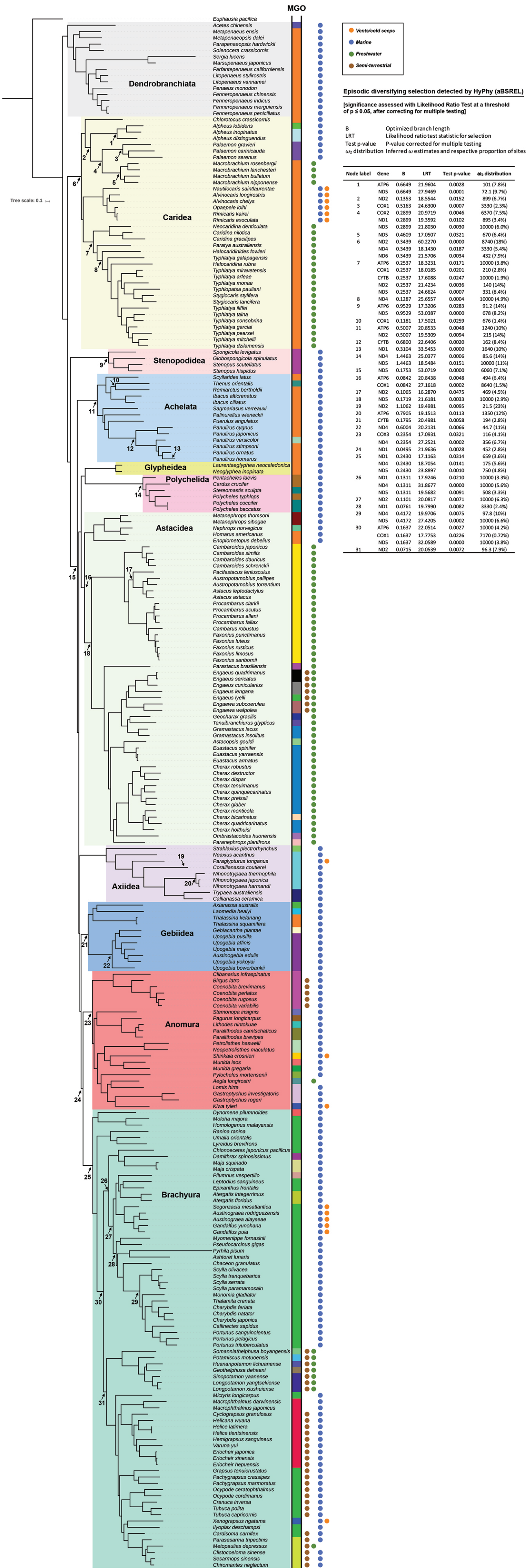
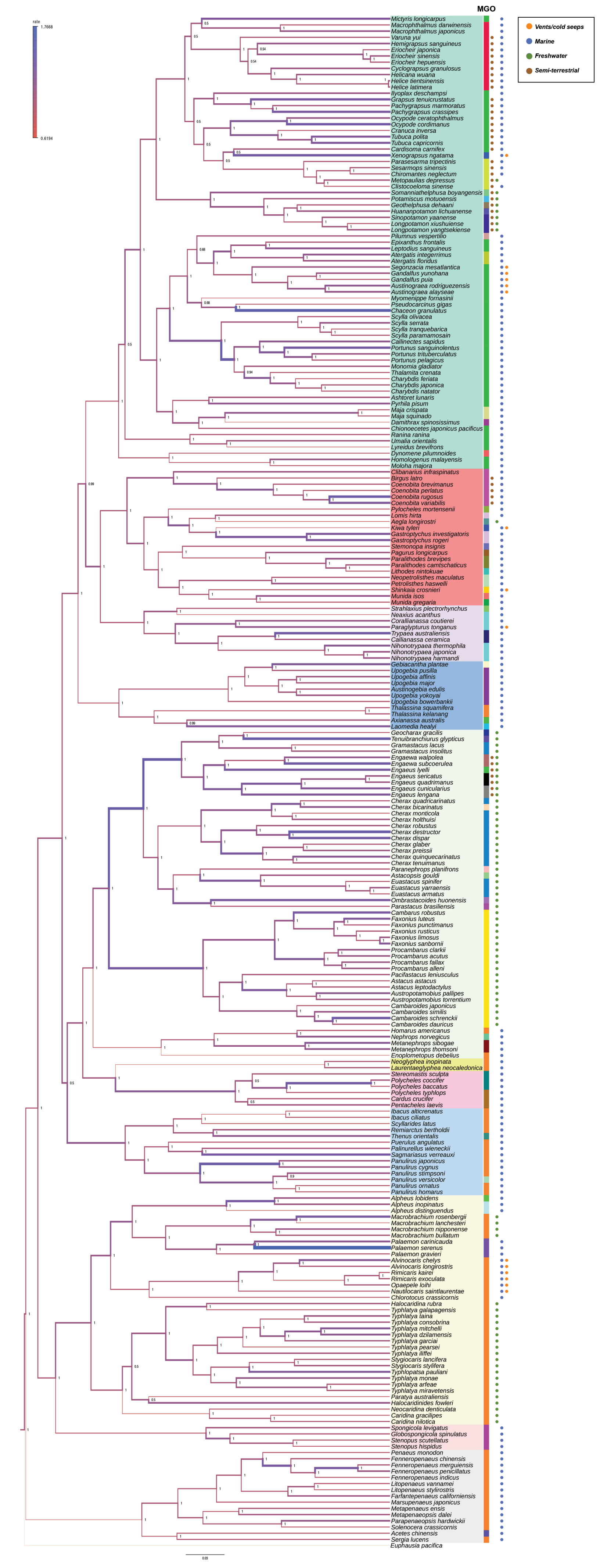


Supplementary Data S4

Comparative mitogenomics of the Decapoda reveals evolutionary heterogeneity in architecture and composition

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Correlation matrix (Spearman):

Variables	AMIGA	NT_RtoDist	AA_RtoDist	habitat
AMIGA	1	0.024	0.013	-0.035
NT_RtoDist	0.024	1	0.938	-0.033
AA_RtoDist	0.013	0.938	1	0.028
habitat	-0.035	-0.033	0.028	1

Values in bold are different from 0 with a significance level $\alpha=0.05$

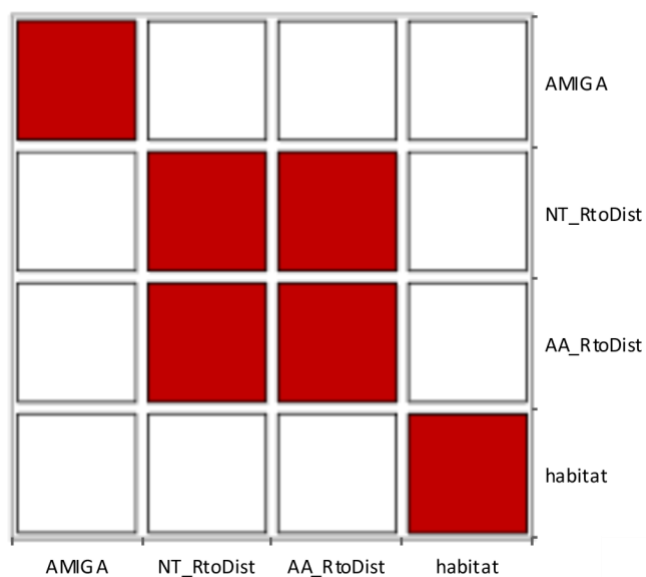
p-values (Spearman):

Variables	AMIGA	NT_RtoDist	AA_RtoDist	habitat
AMIGA	0	0.707	0.846	0.593
NT_RtoDist	0.707	0	< 0.0001	0.607
AA_RtoDist	0.846	< 0.0001	0	0.672
habitat	0.593	0.607	0.672	0

Coefficients of determination (Spearman):

Variables	AMIGA	NT_RtoDist	AA_RtoDist	habitat
AMIGA	1	0.001	0.000	0.001
NT_RtoDist	0.001	1	0.879	0.001
AA_RtoDist	0.000	0.879	1	0.001
habitat	0.001	0.001	0.001	1

Correlation maps:



Input data:

ID	AMIGA	NT_RtoDist	AA_RtoDist	habitat	Habitat codes
AcChi	0	3.885	1.324	2	1 Vents/cold seep
SeLuc	0.261603	5.921	1.166	2	2 Marine
FaCal	0.261603	3.643	1.189	2	3 Freshwater
FeChi	0.261603	3.661	1.179	2	4 Semi-terrestrial
FeInd	0.261603	3.714	1.174	2	5 Seeps + marine
FeMer	0.261603	3.698	1.177	2	6 Freshwater + Semi-terrestrial
FePen	0.261603	3.703	1.178	2	7 Marine + Semi-terrestrial
LiSty	0.261603	3.681	1.167	2	
LiVan	0.261603	3.677	1.159	2	
MarJap	0.261603	4.917	1.147	2	
MeDal	0.261603	3.531	1.171	2	
MeEns	0.261603	3.502	1.159	2	
PaHar	0.261603	3.51	1.142	2	
PeMon	0.261603	3.788	1.217	2	
SoCra	0.261603	3.575	1.181	2	
AlDis	0.00421941	4.184	1.48	2	
Allno	0.00421941	4.29	1.487	2	
AlLob	0	4.345	1.526	2	
AlLon	0.261603	3.736	1.267	5	
AlChe	0.261603	3.855	1.297	5	
NaSai	0.261603	3.711	1.228	5	
OpLoi	0.261603	3.684	1.252	5	
RiExo	0.261603	3.673	1.243	5	
RiKai	0.261603	3.675	1.243	5	
CaGra	0.261603	4.385	1.528	3	
CaNil	0.261603	4.057	1.397	3	
HaRub	0.261603	4.571	1.668	3	
HaFow	0.261603	4.273	1.542	3	
NeDen	0.261603	4.018	1.368	3	
PaAus	0.261603	4.026	1.363	3	
StLan	0.261603	4.682	1.667	3	
StSty	0.261603	4.61	1.643	3	
TyArf	0.261603	4.328	1.551	3	
TyCon	0.261603	4.348	1.588	3	
TyDzi	0.261603	4.468	1.619	3	
TyGal	0.261603	4.368	1.577	3	
TyGar	0.261603	4.19	1.518	3	
Tylli	0.261603	4.478	1.575	3	
TyMir	0.261603	4.317	1.558	3	
TyMit	0.261603	4.469	1.61	3	

TyMon	0.261603	4.474	1.559	3
TyPea	0.261603	4.563	1.616	3
TyTai	0.261603	4.382	1.587	3
TyPau	0.261603	4.776	1.698	3
MaBul	0.261603	4.236	1.535	3
MaLan	0.261603	4.243	1.461	3
MaNip	0.261603	4.195	1.506	3
MaRos	0.261603	4.208	1.49	3
PaCar	0.00843882	4.619	1.684	2
PaGra	0.00843882	4.533	1.719	2
PaSer	0.00843882	4.824	1.661	2
ChCra	0.261603	3.808	1.287	2
GlSpi	0.0126582	4.254	1.463	2
SpLev	0.0126582	4.01	1.438	2
StHis	0.0126582	4.176	1.336	2
StScut	0.0126582	4.177	1.344	2
PaWie	0.261603	3.758	1.207	2
PaCyg	0.261603	4.574	1.498	2
PaHom	0.261603	4.637	1.537	2
PaJap	0.261603	4.485	1.455	2
PaOrn	0.261603	4.538	1.485	2
PaSti	0.261603	4.523	1.487	2
PaVer	0	4.392	1.474	2
PuAng	0.261603	3.84	1.233	2
SaVer	0.261603	3.706	1.221	2
IbAlt	0.261603	3.792	1.293	2
IbCil	0.261603	3.618	1.222	2
ReBer	0.261603	3.992	1.353	2
ScLat	0.261603	3.711	1.235	2
ThOri	0	3.993	1.342	2
LaNeo	0.261603	3.219	1.016	2
Nelno	0.261603	3.209	1.012	2
CaCru	0.00843882	4.451	1.598	2
PeLae	0.00843882	4.079	1.484	2
PoBac	0.00843882	4.407	1.549	2
PoCoc	0.00843882	4.404	1.544	2
PoTyp	0.00843882	4.464	1.572	2
StScul	0.00843882	4.31	1.476	2
AuPal	0.0590717	4.144	1.423	3
AuTor	0.0590717	4.073	1.395	3
PaLen	0.0590717	4.037	1.368	3
CaDau	0.0590717	4.046	1.34	3
CaJap	0.0590717	3.934	1.324	3

CaSim	0.0590717	4.05	1.359	3
CaRob	0.0590717	4.252	1.44	3
FaLim	0.0590717	4.187	1.406	3
FaLut	0.0590717	4.177	1.405	3
FaPun	0.0590717	4.152	1.392	3
FaRus	0.0590717	4.187	1.399	3
FaSan	0.0590717	4.188	1.406	3
PrAcu	0.0590717	4.174	1.417	3
PrCla	0.0590717	4.176	1.425	3
PrFal	0.0590717	4.165	1.419	3
EnDeb	0.261603	3.302	1.04	2
HoAme	0.261603	3.386	1.05	2
MeSib	0.00421941	3.455	1.12	2
MeTho	0.00421941	3.367	1.089	2
NeNor	0	3.491	1.063	2
AsGou	0	3.91	1.41	3
ChBic	0	3.982	1.45	3
ChDes	0.0590717	4.147	1.503	3
ChDis	0.0590717	4.094	1.478	3
ChGla	0.0590717	4.001	1.45	3
ChHol	0.0590717	4.064	1.431	3
ChMon	0.0590717	4.024	1.448	3
ChPre	0.0590717	4.044	1.459	3
ChQua	0.0590717	4.11	1.513	3
ChQui	0.0590717	3.997	1.446	3
ChRob	0.0590717	4.012	1.462	3
ChTen	0.0590717	4.019	1.445	3
EnCun	0.00421941	4.078	1.516	6
EnLen	0.00421941	4.199	1.574	6
EnLye	0	4.173	1.554	6
EnQua	0.00421941	4.077	1.528	6
EnSer	0.00421941	4.086	1.536	6
EnSub	0.00421941	4.21	1.655	6
EnWal	0.00421941	4.199	1.619	6
EuArm	0.0590717	3.693	1.337	3
EuSpi	0.0590717	3.707	1.337	3
EuYar	0.0590717	3.692	1.333	3
GeGra	0	3.895	1.434	3
GrIns	0.0590717	3.878	1.398	3
GrLac	0.0590717	3.836	1.398	3
OmHuo	0	4.094	1.534	3
PaPla	0	3.788	1.369	3
TeGly	0	4.049	1.552	3

CaCer	0.00421941	5.238	1.51	2
CoCou	0.021097	4.873	1.416	2
NiHar	0.021097	5.171	1.488	2
NiJap	0.021097	5.177	1.494	2
NiThe	0.021097	5.286	1.539	2
PaTon	0.021097	4.254	1.248	5
TrAus	0.00421941	5.432	1.513	2
NeAca	0.021097	4.071	1.17	2
StPle	0	4.3	1.279	2
AxAus	0	3.639	1.183	2
LaHea	0	3.656	1.172	2
ThKel	0.261603	3.498	1.145	2
ThSqu	0.261603	3.494	1.146	2
AuEdu	0.021097	3.655	1.087	2
GePla	0	3.606	1.083	2
UpAff	0.021097	3.504	1.06	2
UpBow	0.021097	3.436	1.059	2
UpMaj	0.021097	3.448	1.054	2
UpPus	0.021097	3.594	1.085	2
UpYok	0.021097	3.6	1.086	2
GaInv	0.00843882	4.406	1.397	2
GaRog	0.00843882	4.531	1.453	2
MuGre	0	3.704	1.173	2
Mulso	0	3.54	1.164	2
ShCro	0	3.71	1.318	5
NeMac	0.00421941	4.117	1.337	2
PeHas	0.00421941	4.145	1.345	2
StIns	0	3.386	1.068	2
KiTyl	0	3.792	1.213	5
LiNin	0	3.635	1.13	2
PaBre	0.00421941	3.613	1.114	2
PaCam	0.00421941	3.626	1.118	2
LoHir	0.00843882	3.447	1.076	2
BiLat	0.021097	3.544	1.093	7
CoBre	0.021097	3.926	1.104	7
CoPer	0.021097	4.116	1.136	7
CoRug	0.021097	4.134	1.14	7
CoVar	0.021097	4.056	1.136	7
ClInf	0.021097	3.736	1.167	2
PaLon	0	3.565	1.112	2
AuAla	0.172996	2.119	0.57	5
AuRod	0.172996	2.054	0.566	5
GaPui	0.172996	2.028	0.547	5

GaYun	0.172996	2.106	0.572	5
SeMes	0.172996	1.879	0.521	5
AsLun	0.172996	2.455	0.699	2
DyPil	0	2.853	0.889	2
MyFor	0.172996	2.008	0.524	2
PsGig	0.172996	1.791	0.47	2
EpFro	0.172996	2.005	0.525	2
SoBoy	0	2.814	0.849	6
CaCar	0.172996	2.498	0.709	7
GrTen	0.172996	2.888	0.835	7
PaCra	0.172996	2.913	0.813	7
PaMar	0.172996	2.859	0.81	7
ClSin	0.0168776	2.751	0.766	7
MeDep	0.0168776	2.966	0.906	6
SeNeg	0.0168776	2.73	0.743	7
SeSin	0.0168776	2.751	0.751	7
PaTri	0.0168776	2.672	0.766	7
CyGra	0.0379747	2.659	0.803	7
ErHep	0.0379747	2.904	0.833	7
ErJap	0.0379747	2.888	0.829	7
ErSin	0.0379747	2.903	0.83	7
HeWua	0.0379747	2.792	0.83	7
HeLat	0.0379747	2.757	0.814	7
HeTie	0.0379747	2.759	0.816	7
HeSan	0.0379747	2.878	0.852	7
VaYui	0.0379747	3.031	0.885	7
XeNga	0	2.983	0.855	5
HoMal	0.172996	3.013	0.935	2
MoMaj	0.172996	3.202	0.964	2
PyPis	0.172996	3.536	1.051	2
MaCri	0.00421941	2.584	0.719	2
MaSqu	0.00421941	2.6	0.735	2
DaSpi	0	2.844	0.814	2
ChiJap	0.172996	2.483	0.688	2
IlDes	0.172996	2.89	0.849	2
MacJap	0.0379747	2.936	0.912	2
MiLon	0.172996	2.717	0.8	2
CrInv	0.172996	2.811	0.772	7
OcCer	0.172996	2.974	0.818	7
OcCor	0.172996	2.936	0.825	7
TuCap	0.172996	2.911	0.795	7
TuPol	0.172996	2.935	0.794	7
PiVes	0	2.208	0.618	2

ChGra	0.172996	1.673	0.411	2
CaSap	0.172996	0.746	0.112	2
ChFer	0.172996	0.986	0.158	2
ChaJap	0.172996	1.114	0.179	2
ChNat	0.172996	1.092	0.175	2
MoGla	0.172996	1.032	0.197	2
PoPel	0.172996	0.482	0.04	2
PoSan	0.172996	0.441	0.045	2
PoTri	0.172996	0.435	0.047	2
ScOli	0.172996	1.083	0.188	2
ScPar	0.172996	1.177	0.213	2
ScSer	0.172996	1.234	0.217	2
ScTra	0.172996	1.1	0.217	2
ThCre	0.172996	0.952	0.149	2
GeDeh	0	2.94	0.901	6
HuLic	0	2.978	0.901	6
LoXiu	0.00843882	2.935	0.9	6
LoYan	0.00843882	2.951	0.907	6
PoMot	0	2.76	0.864	6
SiYaa	0.00843882	2.906	0.882	6
LyBre	0.172996	2.913	0.843	2
RaRan	0.172996	2.952	0.859	2
UmOri	0.172996	2.741	0.791	2
AtFlo	0.00421941	2.203	0.591	2
AtInt	0.00421941	2.207	0.592	2
LeSan	0.172996	2.203	0.597	2
