

Table S7: Tukey's post-hoc pairwise contrasts for the interaction Enzyme*Group for total and unique loci. The column contrast indicates the variables being compared with the post-hoc test and the columns before contrast indicate which factors are being tested (*) or fixed. For each comparison we provide its t-ratio and p-value. Significant p-values are in bold.

Group	Enzyme	Contrast	TOTAL LOCI		UNIQUE LOCI	
			t-ratio	p-value	t-ratio	p-value
Plants	*	Alfl - CspCl	2.66	0.437	2.66	0.435
Plants	*	Alfl - Bael	10.21	<0.001	11.14	<0.001
Plants	*	CspCl - Bael	7.55	<0.001	8.49	<0.001
Arthropods	*	Alfl - CspCl	2.75	0.355	2.79	0.323
Arthropods	*	Alfl - Bael	1.74	0.996	1.62	0.999
Arthropods	*	CspCl - Bael	-1.01	1.000	-1.17	1.000
Fishes	*	Alfl - CspCl	10.09	<0.001	10.25	<0.001
Fishes	*	Alfl - Bael	17.66	<0.001	18.67	<0.001
Fishes	*	CspCl - Bael	7.57	<0.001	8.42	<0.001
Amphibians	*	Alfl - CspCl	5.26	<0.001	5.30	<0.001
Amphibians	*	Alfl - Bael	8.09	<0.001	8.14	<0.001
Amphibians	*	CspCl - Bael	2.83	0.296	2.84	0.290
Mammals	*	Alfl - CspCl	2.38	0.704	2.37	0.713
Mammals	*	Alfl - Bael	6.04	<0.001	6.00	<0.001
Mammals	*	CspCl - Bael	3.66	0.025	3.63	0.027
Birds	*	Alfl - CspCl	3.14	0.129	3.13	0.133
Birds	*	Alfl - Bael	3.99	0.008	3.96	0.009
Birds	*	CspCl - Bael	0.85	1.000	0.83	1.000
*	Alfl	Plants - Arthropods	1.29	1.000	1.81	0.992
*	Alfl	Plants - Fishes	-5.82	<0.001	-5.52	<0.001
*	Alfl	Plants - Amphibians	-4.36	0.002	-4.81	<0.001
*	Alfl	Plants - Mammals	-3.10	0.147	-3.71	0.022
*	Alfl	Plants - Birds	-3.61	0.030	-3.71	0.021
*	Alfl	Arthropods - Fishes	-4.17	0.004	-4.54	0.001
*	Alfl	Arthropods - Amphibians	-4.10	0.005	-4.84	<0.001
*	Alfl	Arthropods - Mammals	-3.35	0.070	-4.20	0.004
*	Alfl	Arthropods - Birds	-3.90	0.011	-4.25	0.003
*	Alfl	Fishes - Amphibians	-0.94	1.000	-1.56	1.000
*	Alfl	Fishes - Mammals	-0.43	1.000	-1.18	1.000
*	Alfl	Fishes - Birds	-2.00	0.955	-2.19	0.864
*	Alfl	Amphibians - Mammals	0.25	1.000	0.03	1.000
*	Alfl	Amphibians - Birds	-1.46	1.000	-1.36	1.000
*	Alfl	Mammals - Birds	-1.53	1.000	-1.30	1.000
*	CspCl	Plants - Arthropods	2.85	0.286	3.33	0.075
*	CspCl	Plants - Fishes	-0.84	1.000	-0.68	1.000
*	CspCl	Plants - Amphibians	-0.90	1.000	-1.48	1.000
*	CspCl	Plants - Mammals	-1.79	0.993	-2.47	0.620
*	CspCl	Plants - Birds	-1.21	1.000	-1.43	1.000

*	CspCI	Arthropods - Fishes	-3.26	0.091	-3.66	0.026
*	CspCI	Arthropods - Amphibians	-2.98	0.205	-3.78	0.017
*	CspCI	Arthropods - Mammals	-3.45	0.051	-4.32	0.002
*	CspCI	Arthropods - Birds	-2.52	0.573	-2.96	0.217
*	CspCI	Fishes - Amphibians	-0.40	1.000	-1.08	1.000
*	CspCI	Fishes - Mammals	-1.40	1.000	-2.16	0.883
*	CspCI	Fishes - Birds	-0.97	1.000	-1.24	1.000
*	CspCI	Amphibians - Mammals	-0.92	1.000	-1.12	1.000
*	CspCI	Amphibians - Birds	-0.73	1.000	-0.69	1.000
*	CspCI	Mammals - Birds	-0.11	1.000	0.05	1.000
*	Bael	Plants - Arthropods	-0.51	1.000	-0.30	1.000
*	Bael	Plants - Fishes	-0.79	1.000	-0.68	1.000
*	Bael	Plants - Amphibians	-1.42	1.000	-2.32	0.765
*	Bael	Plants - Mammals	-0.83	1.000	-1.84	0.989
*	Bael	Plants - Birds	-1.80	0.992	-2.18	0.867
*	Bael	Arthropods - Fishes	0.13	1.000	-0.03	1.000
*	Bael	Arthropods - Amphibians	-0.56	1.000	-1.36	1.000
*	Bael	Arthropods - Mammals	-0.27	1.000	-1.22	1.000
*	Bael	Arthropods - Birds	-1.36	1.000	-1.81	0.992
*	Bael	Fishes - Amphibians	-0.96	1.000	-1.92	0.977
*	Bael	Fishes - Mammals	-0.47	1.000	-1.53	1.000
*	Bael	Fishes - Birds	-1.58	1.000	-2.00	0.957
*	Bael	Amphibians - Mammals	0.24	1.000	-0.03	1.000
*	Bael	Amphibians - Birds	-1.06	1.000	-1.02	1.000
*	Bael	Mammals - Birds	-1.15	1.000	-0.94	1.000