

Table S21: Tukey's post-hoc pairwise contrasts on the 2-way interactions (selection*genomic category, selection*supergroup). The column contrast indicates the variables being compared with the post-hoc test and the first two columns indicate which factors are fixed (the factor being tested is represented with an asterisk). For each comparison we provide its p-value. Significant p-values are in bold.

Interaction	Genomic Category	Selection	Contrast	t-ratio	p-value
Selection*Genomic Category	Exonic	*	S - W	12.27	<0.001
	Intergenic	*	S - W	-1.12	0.935
	Intronic	*	S - W	-4.96	<0.001
	*	S	Exonic - Intergenic	48.18	<0.001
	*	S	Exonic - Intronic	38.80	<0.001
	*	S	Intergenic - Intronic	-9.38	<0.001
	*	W	Exonic - Intergenic	34.79	<0.001
	*	W	Exonic - Intronic	21.57	<0.001
	*	W	Intergenic - Intronic	-13.22	<0.001
	Supergroup	Selection	Contrast	t-ratio	p-value
Selection*Supergroup	Plants	*	S - W	-0.28	1.000
	Protostomes	*	S - W	2.41	0.137
	Deuterostomes	*	S - W	5.17	<0.001
	*	S	Plants - Protostomes	2.76	0.072
	*	S	Plants - Deuterostomes	2.19	0.267
	*	S	Protostomes - Deuterostomes	-0.97	0.975
	*	W	Plants - Protostomes	3.66	0.006
	*	W	Plants - Deuterostomes	3.72	0.005
	*	W	Protostomes - Deuterostomes	-0.41	1.000

