

Number of figure	mouse line	object of comparison	t-test			one-way ANOVA			Tukey-test p-value	one-way ANOVA on ranks			U-test		Chi ² -test			Spearman Correlation		
			t-value	df	p-value	F-value	df effect	df residual		p-value	value of Kruskal-Wallis H	df	p-value	value of Whitney U	Mann-Whitney U	p-value	Chi ² -value	df	p-value	correlation coefficient
7a	R552H	DCs				1.759	35	33	0.188											
7a	R552H	USDs				5.228	31	29	0.012	0.013 0.030	wt vs hom het vs hom									
7b	S321X	DCs				5.561	35	33	0.008	0.008	het vs hom									
7b	S321X	USDs				23.756	34	32	< 0.001	< 0.001 < 0.001	wt vs hom het vs hom									
7c	R552H		1.779	21	0.090															
7c	S321X		-0.674	20	0.508															
8a	R552H											5.695	2	0.058						
8b	S321X					0.973	35	33	0.389											
8c	R552H		-0.381	22	0.707															
8c	S321X		-3.974	22	< 0.001															
9a	R552H													39.0		0.061				
9a	S321X													28.0		0.012				
9b	R552H											5.853	2	0.054						
9b	S321X											10.714	2	0.005	20.0 18.5	wt vs het wt vs hom	0.009 0.007			
10a	R552H	DCs				19.005	35	33	< 0.001	< 0.001 < 0.001 0.943	wt vs hom het vs hom wt vs het									
10a	R552H	USDs				57.369	31	29	< 0.001	< 0.001 < 0.001 0.989	wt vs hom het vs hom wt vs het									
10b	S321X	DCs				27.674	35	33	< 0.001	< 0.001 < 0.001 0.174	wt vs hom het vs hom wt vs het									
10b	S321X	USDs				58.171	34	32	< 0.001	< 0.001 < 0.001 0.545	wt vs hom het vs hom wt vs het									
11a	R552H	DC types of wt				11.570	30	28	< 0.001	< 0.001 0.006	hn vs ln mn vs ln									
11a	R552H	DC types of het				6.396	27	25	0.006	0.004	hn vs ln									
11a	R552H	high-noise DCs				16.350	34	32	< 0.001	< 0.001 < 0.001	wt vs hom het vs hom									
11b	S321X	DC types of wt				9.689	28	26	< 0.001	< 0.001 0.004	hn vs ln mn vs ln									
11b	S321X	high-noise DCs				48.235	34	32	< 0.001	< 0.001 < 0.001 0.026	wt vs hom het vs hom wt vs het									
11b	S321X	medium-noise DCs				17.536	33	31	< 0.001	< 0.001 0.001	wt vs hom het vs hom									
11b	S321X	low-noise DCs				17.044	24	22	< 0.001	0.003 < 0.001	wt vs hom het vs hom									
12a	R552H																		0.655	< 0.0001
12b	S321X																		0.555	< 0.0001

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			t-value	df	p-value	F-value	df effect	df residual		p-value	value of Kruskal-Wallis H	df	p-value	value of Mann-Whitney U	p-value	Chi ² -value	df	p-value	correlation coefficient	p-value
S1a	R552H									25.466	2	< 0.001	0.0	wt vs hom	< 0.001					
S1a	R552H												0.0	het vs hom	< 0.001	24.0	1	< 0.001	hom vs wt	
S1a & 1	both	USIs of hom														4.8	1	0.030	hom vs het	
S1b	R552H	DCs								1.975	2	0.372								
S1b	R552H	USDs								19.129	2	< 0.001	5.0	wt vs hom	< 0.001					
S1b	R552H	DCs & USDs of wt DCs & USDs of het DCs & USDs of hom											4.5	het vs hom	< 0.001					
													18.5		0.002					
													37.5		0.050					
													0.0		< 0.001					
S2	R552H		0.053	22	0.959															
S2	S321X		-2.069	20	0.052															
S3	R552H	clicks				9.085	35	33	< 0.001	0.001	wt vs hom									
S3	R552H	USDs				27.032	34	32	< 0.001	0.004	het vs hom									
S3	R552H	sum of clicks & USDs				1.844	35	33	0.174	< 0.001	wt vs hom									
S3	R552H	clicks & USDs of wt	-3.986	22	< 0.001															
S3	R552H	clicks & USDs of het	-2.374	22	0.027															
S3	R552H	clicks & USDs of hom	4.020	21	< 0.001															
S4a	R552H	USDs & USIs of wt											0.0		< 0.001					
S4a	S321X	USDs & USIs of wt											0.0		< 0.001					
S4b	R552H	USDs & USIs of het	26.337	22	< 0.001															
S4b	S321X	USDs & USIs of het	19.447	21	< 0.001															

Abbreviations: df: degrees of freedom wt: wild-types het: heterozygotes hom: homozygotes vs: versus hn: high-noise DCs mn: medium-noise DCs ln: low-noise DCs