	BALB/c			129/J				
	Design 1	**Design 2**	**Design 3**	**Design 1**	**Design 2**	**Design 3**	**Sig**	**Sig#**
Discrimination index	0.24 ± 0.22	0.22 ± 0.24	0.21 ± 0.18	0.23 ± 0.30	0.20 ± 0.25	-0.01 ± 0.45	-	-
Latency novel object	45.5 ± 40.1	10.5 ± 7.0	6.7 ± 4.1	16.9 ± 9.7	6.2 ± 4.0	6.9 ± 3.0	D	S, D
Latency familiar object	57.7 ± 53.3	16.1 ± 15.1	10.1± 10.0	16.5 ± 12.8	7.2 ± 4.8	10.0 ± 10.0	D	D
Duration novel object (sec)	145.4 ± 66,8	107.0 ± 32.2	110.7± 36.4	117.1±49.4	96.7± 67.4	78.2 ± 47.9	-	-
Duration familiar object (sec)	83.2 ± 26.0	66.4 ± 22.7	70.6 ± 23.7	76.5 ± 50.5	57.5 ± 33.1	102.1± 100	-	-
Number novel object	17 ± 9	24 ± 12	26 ± 5	21 ± 6	21 ± 7	19 ± 9	-	-
Number familiar object	20 ± 9	21 ± 11	20 ± 7	18 ± 5	18 ± 6	20 ± 7	-	-
Stretched attends (nr.)	3 ± 7 **ac**	1 ± 4	0 ± 0 **a**	1 ± 2 **bc**	0 ± 2	0 ± 0 **b**	S, D	S, D
Immobility (sec)	1.4 ± 3.0	6.6 ± 11.9	4.3 ± 5.0	9.6 ± 15.0	43.8 ± 72.4	12.2 ± 139.9	S, D	S
Defecation (nr.)	10 ± 4 **a**	9 ± 4 **b**	11 ± 5 **c**	6 ± 3 **a**	6 ± 2 **b**	6 ± 3 **c**	S	S
Line crossings (nr.)	139 ± 98 **b**	197 ± 114 **a**	215 ± 72 **bc**	138 ± 50	110 ± 89 **a**	164 ± 62**c**	S, SxD[b]	S
Rearings (nr.)	61 ± 71	95 ± 45 **a**	86 ± 61	67 ± 29	54 ± 54 **a**	81 ± 25	S	-
Sniffing (nr.)	28 ± 17	39 ± 14 **a**	40 ± 14	35 ± 16	33 ± 14 **a**	32 ± 15	S	-
Self grooming (sec.)	20.0 ± 17.4	21.5 ± 30.6	19.5 ± 9.8	32.1 ± 28.2	17.8 ± 18.4	22.6 ± 14.1	-	-
Self grooming (lat.)	271.5 ± 148.5	258.1 ± 186.9	207.3 ± 124.7	218.4 ± 92.5	188.4 ± 120.7	224.7 ± 162.8	-	-
Jumps (nr.)	0 ± 1	1 ± 2	1 ± 2	0 ± 2 **a**	0 ± 3	1 ± 6 **a**	D	D
Escape attempts	0 ± 1	-	-	-	-	0 ± 1	-	-

Figure 14

Results; all behavioral parameters, continues parameters are expressed as mean ± SD and discrete data as median ±IQR. Significance (P<0.05) based on two-way ANOVA with strain and design as main factor (S= strain effect, D= design effect and SxD = Strain* Design interaction) Post hoc testing for continues behavioral parameters was done by unpaired Student's t-test. Post hoc testing for data on the ordinal scale was done by Mann Whitney U test. Values with the same letters in the same row are significantly different (P<0.05). Revealed significant difference found in the two-way ANOVA over the corrected data (see discussion) is presented under Sig#.