Behavioral parameters for WT and *Hoxb8* mutants from Open field test

Age (mths)	Sub-parameters analyzed	Sex, Genotype, 'n', and '*P*' values						Statistical test
		Male			Female			
		WT (n=16)	KO (n=16)	*P*	WT (n=15)	KO (n=16)	*P*	
		Mean ± SEM	Mean ± SEM		Mean ± SEM	Mean ± SEM		
6-8 months	Center zone: time	95.06 ± 6.19	72.25 ± 8.01	0.0193*	90.5 ± 11.4	56 ± 8.9	0.02*	One-way ANOVA
	Center zone: distance	4.887 ± 0.61	4.212 ± 0.53	0.4117	4.391 ± 0.54	3.104 ± 0.42	0.0681	
	Center zone: latency to first entry	34.12 ± 13.4	42.88 ± 16	0.6802	47.73 ± 20.3	114 ± 64.8	0.3503	
	Left upper zone: time	333.8 ± 34.4	339.3 ± 19.7	0.8895	299.7 ± 18.8	417.8 ± 53.7	0.0526	
	Left upper zone: distance	11.35 ± 0.94	11.39 ± 0.63	0.9674	10.53 ± 0.87	11.67 ± 1.55	0.5292	
	Left upper zone: latency to first entry	10.68 ± 3.46	22.81 ± 5.05	0.0513	12.81 ± 8.1	12.53 ± 4.01	0.9749	
	Right upper zone: time	234.8 ± 20.4	297.1 ± 18.9	0.0365*	291.6 ± 27.2	237.7 ± 21.1	0.1259	
	Right upper zone: distance	9.853 ± 1.07	11 ± 0.8	0.4033	10.15 ± 1.04	9.345 ± 0.92	0.567	
	Right upper zone: latency to first entry	5.975 ± 1.91	9.313 ± 3.19	0.3729	7.407 ± 2.17	49.43 ± 33.1	0.2302	
	Bottom left zone: time	317.1 ± 20.2	273.3 ± 13.8	0.0904	306.9 ± 24.2	334.4 ± 36	0.5371	
	Bottom left zone: distance	10.37 ± 0.89	10.5 ± 0.57	0.9438	9.845 ± 0.79	10.08 ± 1.03	0.8575	
	Bottom left zone: latency to first entry	15.15 ± 5.54	15.09 ± 4.87	0.9933	11.21 ± 2.23	43.62 ± 26.5	0.2476	
	Right bottom zone: time	259.7 ± 18	346.9 ± 19	0.0022*	317.5 ± 22.7	336.6 ± 23.8	0.5672	Tuckey's posthoc test
	Right bottom zone: distance	8.666 ± 0.68	10.94 ± 0.79	0.041*	9.761 ± 0.67	10.22 ± 1.09	0.7255	
	Right bottom zone: latency to first entry	9.475 ± 5.63	9.831 ± 2.58	0.9545	10.19 ± 2.31	44.37 ± 31.4	0.3024	
	Periphery top zone: time	115.1 ± 7.18	122.3 ± 9.23	0.542	108.7 ± 12.2	71.2 ± 7.99	0.0143*	
	Periphery top zone: distance	7.316 ± 0.78	7.095 ± 0.59	0.823	6.257 ± 0.66	5.287 ± 0.69	0.318	
	Periphery top zone: latency to first entry	10.08 ± 3.12	19.58 ± 4.6	0.1043	15.77 ± 8.18	61.47 ± 33.2	0.2049	
	Periphery left zone: time	170.2 ± 15.3	123.4 ± 10.1	0.0162*	143.1 ± 14.1	87.23 ± 10.1	0.0028*	
	Periphery left zone: distance	7.606 ± 0.76	7.14 ± 0.6	0.6394	7.203 ± 0.66	5.984 ± 0.67	0.2061	
	Periphery left zone: latency to first entry	15.44 ± 4.65	21.09 ± 5.73	0.4438	14.29 ± 7.99	24.62 ± 11	0.4588	
	Periphery right zone: time	117.4 ± 12.7	115.7 ± 9.19	0.916	122.4 ± 7.86	92.06 ± 11.3	0.0379*	
	Periphery right zone: distance	6.205 ± 0.62	6.96 ± 0.69	0.4281	6.712 ± 0.67	5.71 ± 0.6	0.2738	
	Periphery right zone: latency to first entry	24.99 ± 13.3	11.53 ± 3.15	0.3321	8.273 ± 1.7	56.32 ± 32.4	0.1625	
	Periphery bottom zone: time	156.1 ± 13.6	115.1 ± 8.51	0.0162*	120 ± 11.1	101.9 ± 10.1	0.2391	
	Periphery bottom zone: distance	6.463 ± 0.56	6.663 ± 0.64	0.8167	6.573 ± 0.61	5.46 ± 0.49	0.1635	
	Periphery bottom zone: latency to first entry	15.36 ± 5.84	13.53 ± 4.81	0.8096	12.29 ± 2.7	56.06 ± 32.4	0.203	*P<0.05