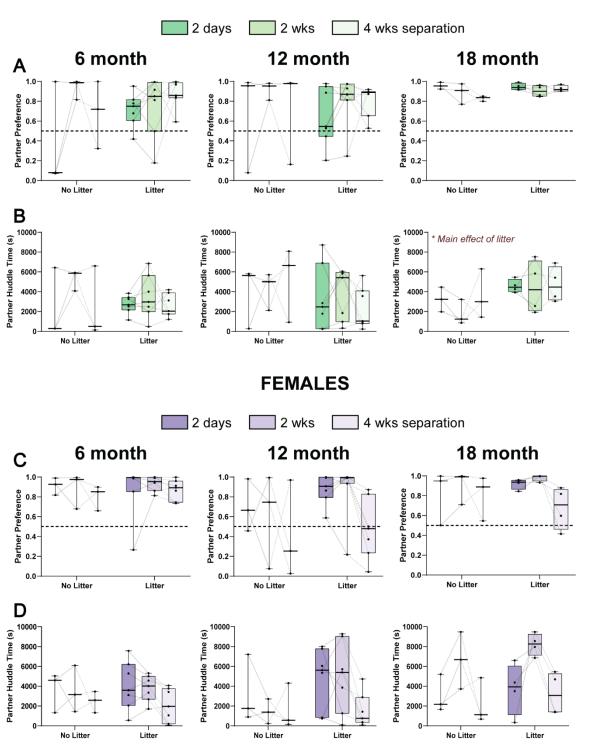
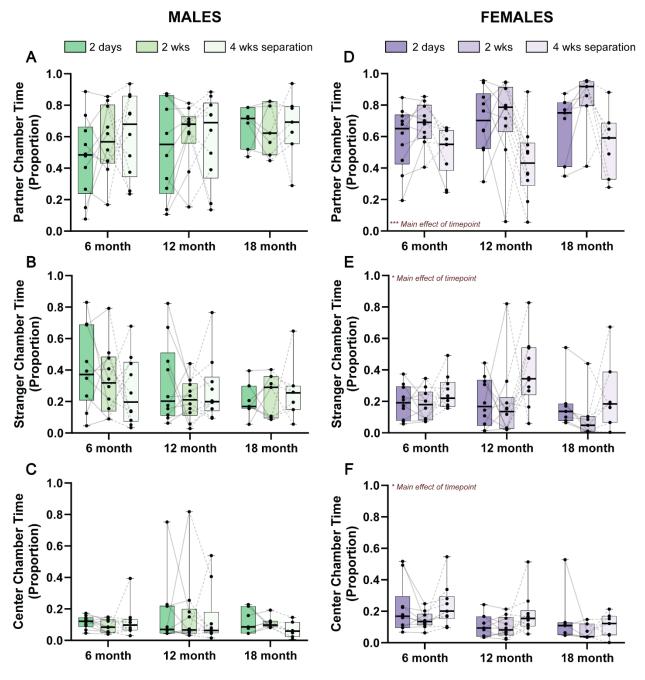
MALES



Supplemental Figure 1. Lack of major effects of reproductive success on pair bonding metrics. A) Partner preference scores in male 6-, 12-, and 18-month voles as a function of reproductive success, which revealed no significant differences. B) Partner huddle time in male 6-, 12-, and 18-month voles as a function of reproductive success. Only 18-month males demonstrated a difference in partner huddle time such that those with litters huddled more with

their partners compared to those without litters. C) Partner preference scores in female 6-, 12-, and 18-month voles as a function of reproductive success, which revealed no significant differences. D) Partner huddle time in female 6-, 12-, and 18-month voles as a function of reproductive success, which also revealed no significant differences. n=3-7 animals per group; *p<0.05.



Supplemental Figure 2. Effects of age and timepoint on proportion of time animals spent in different areas of the partner preference arena. Males across age and timepoint do not spend a greater or less proportion of their time in the A) partner, B) stranger, or C) center chamber of the partner preference arena. D)Female animals spent a greater proportion of time in the partner chamber after 2 wks cohabitation and less after 4 wks separation. E) These effects were mirrored in the opposite direction when observing proportion of time spent in the stranger chamber. F) With increasing age, there was a gradually decreasing proportion of time spent in the center chamber during the partner preference task in female animals. N=7-10 animals per group; *p<0.05, ***p<0.001.

Supplemental Table 1: 12-month Free Interaction 15 Minute Time Bin Statistics

	12-m	onths		
Time Bin	Test	q statistic	df	p value
1	2 days vs. 2 wks	1.777	198	0.4215
	2 days vs. 4 wks sep	2.851	198	0.1110
	2 wks vs. 4 wks sep	1.074	198	0.7284
2	2 days vs. 2 wks	0.9542	198	0.7785
	2 days vs. 4 wks sep	2.370	198	0.2170
	2 wks vs. 4 wks sep	1.416	198	0.5769
3	2 days vs. 2 wks	1.128	198	0.7049
	2 days vs. 4 wks sep	3.121	198	0.0725
	2 wks vs. 4 wks sep	4.249	198	0.0084
4	2 days vs. 2 wks	1.188	198	0.6787
	2 days vs. 4 wks sep	3.162	198	0.0677
	2 wks vs. 4 wks sep	1.975	198	0.3448
5	2 days vs. 2 wks	1.808	198	0.4091
	2 days vs. 4 wks sep	5.212	198	0.0009
	2 wks vs. 4 wks sep	3.404	198	0.0446
6	2 days vs. 2 wks	1.491	198	0.5436
	2 days vs. 4 wks sep	3.970	198	0.0151
	2 wks vs. 4 wks sep	2.478	198	0.1885
7	2 days vs. 2 wks	2.392	198	0.2110
	2 days vs. 4 wks sep	5.575	198	0.0003
	2 wks vs. 4 wks sep	3.183	198	0.0654
8	2 days vs. 2 wks	1.784	198	0.4186
	2 days vs. 4 wks sep	5.514	198	0.0004
	2 wks vs. 4 wks sep	3.730	198	0.0244
9	2 days vs. 2 wks	5.000	198	0.0015
	2 days vs. 4 wks sep	9.138	198	<0.0001
	2 wks vs. 4 wks sep	4.139	198	0.0106
10	2 days vs. 2 wks	5.244	198	0.0008
	2 days vs. 4 wks sep	10.22	198	<0.0001
	2 wks vs. 4 wks sep	4.974	198	0.0016
11	2 days vs. 2 wks	1.426	198	0.5725
	2 days vs. 4 wks sep	8.550	198	<0.0001
	2 wks vs. 4 wks sep	7.124	198	<0.0001
12	2 days vs. 2 wks	0.2429	198	0.9839
	2 days vs. 4 wks sep	9.268	198	<0.0001
	2 wks vs. 4 wks sep	9.511	198	<0.0001