







SUPPLEMENTARY FIGURE LEGENDS

Figure 1. Effects of short and long MS protocols on non-maternal behavior.

- A. Total time spent in nursing behavior initiated upon pup demand (passive maternal care)*
- B. Litter weight across post-natal development. SMS and LMS did not significantly alter growth curves.*
- C. Time spent in drinking, eating and self-grooming (n=8 for SMS and controls, n=7 for LMS).*
- D. Time spent in nest building, a behavior that, although not intrinsically maternal, is highly associated to pup caregiving.*

** p<0.05*

Figure 2. Temporal analysis of the effects of short and long MS protocols on other maternal behaviors.

A. Total time spent in grooming.

B. Total time spent in nursing.

*C. * $p < 0.05$; ** $p < 0.001$; *** $p < 0.0001$*

Figure 3. Effects of short and long MS protocols on offspring non-social tasks.

- A. Olfactory function was not affected by MS. (n=10 mice/group)*
- B. Analysis of behavior in the open field. Left panel: effects of SMS and LMS in the time spent near the walls or in the center of the arena. Middle panel: total distance traveled in mice raised in different environments. Right panel: time of immobility (n=10 mice/group)*
- C. Novel object recognition task. In this test, mice explore two identical objects or a familiar and a novel object. A preference index (see methods) was quantified. We observed no effect of SMS. In contrast, LMS decreased the investigation preference for the novel object. (n=10 mice/group).*

** p<0.05*