Supplemental text 1. ANOVA result of body-weight changes in recipient mothers before embryo transfer.
Two-way ANOVA, effect of age, F(2, 10) = 46.507, P < 0.0001; effect of diet, F(2, 5) = 8.198, P < 0.005, Fisher’s PLSD, CD vs. PR, P > 0.15; CD vs. FA, P < 0.02; PR vs. FA, P < 0.0001.

Supplemental text 2. ANOVA result of body-weight changes in recipient mothers after embryo transfer.
Two-way ANOVA: effect of age, F(2, 2)=28.395, P < 0.0001; effect of diet, F(2, 72) = 28.395, P<0.001; Fisher’s PLSD, CD vs. PR, P < 0.0001; CD vs. FA, P < 0.0002; PR vs. FA, P > 0.29.

Supplemental text 3. Results of one-way ANOVA in clinical biochemical test.
TP, F(2, 17) = 4.831, P < 0.03; Fisher’s PLSD, CD vs. PR, P < 0.02; CD vs. FA, P < 0.02; PR vs. FA, P > 0.99; UN, one-way-ANOVA, UN, F(2, 17) = 34.439, P < 0.0001, Fisher’s PLSD, CD vs. PR, P < 0.0001; CD vs. FA, P < 0.0001; PR vs. FA, P > 0.6; ALB, F(2, 17) = 8.61, P < 0.003, Fisher’s PLSD, CD vs. PR, P < 0.003; CD vs. FA, P < 0.003; PR vs. FA, P > 0.97; T-CHO, one-way ANOVA, F(2, 17) = 9.18, P < 0.003; Fisher’s PLSD, CD vs. PR, P < 0.002; CD vs. FA, P < 0.002; PR vs. FA, P > 0.89; HDL, one-way ANOVA, F(2, 17) = 16.822, P < 0.0001; Fisher’s PLSD, CD vs. PR, P < 0.0001; CD vs. FA, P < 0.0002; PR vs. FA, P > 0.95; TG, F (2, 17) = 6.179, P < 0.01; Fisher’s PLSD, CD vs. PR, P < 0.0004; CD vs. FA, P < 0.02; PR vs. FA, P > 0.89.

Supplemental text 4. Results of one-way or two-way ANOVA in body weights of progenies at postnatal day 0 and 4 to 12 weeks of age.
One-way ANOVA on postnatal day 0, F(2, 17) = 0.759, P > 0.48; two-way ANOVA at 4 to 12 weeks of age, effect of age, F(2, 16)= 94.391, P < 0.0001, effect of diet, F(2, 8) = 8.341, P > 0.25.

Supplemental text 5. Results of two-way ANOVA in open-field test.
Locomotor activity patterns, effect of time course, F(3, 96) = 85.272, P < 0.0001, effect of diet, F(2, 96) = 1.433, P > 0.24; time spent in the center, effect of time course, F(6, 96) = 10.386, P < 0.0001, effect of diet, F(2, 96) = 4.335, P < 0.016, Fisher’s PLSD, CD vs. PR, P < 0.008, CD vs. FA, P < 0.03, PR vs. FA, P > 0.8.

Supplemental text 6. Results of two-way ANOVA in object-exploration test.
Time spent exploring a novel object, effect of time course, F(9, 240) = 1.14, P > 0.3; effect of diet, F(2, 240) = 7.055, P < 0.002; Fisher’s PLSD, CD vs. PR, P < 0.0004; CD vs. FA, P <
Number of times mice that made contact with a novel object, two-way ANOVA, effect of time course, $F(9, 240) = 3.251$, $P < 0.02$; effect of diet, $F(2, 240) = 5.149$, $P < 0.007$; Fisher’s PLSD, CD vs. PR, $P < 0.006$; CD vs. FA, $P < 0.009$; PR vs. FA, $P > 0.9$.

**Supplemental text 7. Results of two-way ANOVA in social interaction test.**
Time spent exploring a novel mouse, effect of time course, $F(9, 230) = 0.873$, $P > 0.56$; effect of diet, $F(2, 230) = 4.213$, $P < 0.017$; Fisher’s PLSD, CD vs. PR, $P < 0.006$, CD vs. FA, $P < 0.05$; PR vs. FA, $P > 0.5$; number of subjects, effect of time course, $F(9, 230) = 0.764$, $P > 0.64$; effect of diet $F(2,230) = 8.325$, $P < 0.0004$; Fisher’s PLSD, CD vs. PR, $P < 0.002$; CD vs. FA, $P < 0.0004$; PR vs. FA, $P > 0.49$.

**Supplemental text 8. Results of one-way ANOVA in light/dark-transition test.**
Number of transition between the light and dark chambers, effect of diet, $F(2, 24) = 0.993$, $P > 0.38$; time spent in light chamber, $F(2, 24) = 1.643$, $P > 0.21$; total distance traveled, $F(2, 24) = 2.661$, $P > 0.09$.

**Supplemental text 9. Results of one-way ANOVA in fear conditioning test.**
Pre-train, $F(2, 24) = 1.481$, $P > 0.24$; contextual, $F(2, 24) = 0.117$, $P > 0.89$; with no tone in box B, $F(2, 20) = 1.560$, $P > 0.23$; with tone in box B, $F(2, 20) = 1.689$, $P > 0.20$.

**Supplemental text 10. Result of one-way ANOVA in tail suspension test.**
Effect of diet, $F(2, 24) = 0.34$, $P > 0.71$.

**Supplemental text 11. Result of one-way ANOVA in home-cage activity test.**
Activity during the light phase, $F(2,177) = 1.204$, $P > 0.3$; activity during the dark phase, $F(2,177) = 3.898$, $P < 0.03$; Fisher’s PLSD, CD vs. PR, $P < 0.02$, CD vs. FA, $P > 0.8$, PR vs. FA, $P < 0.03$. 