

Figure S1: The effect of the OB procedure on the activity of mice in the open field test (OFT2; after a 14-day recovery period; day 14 of the experimental procedure). A: number of ambulations, B: number of climbs, C: time spent in the central zone. Data were analyzed by Student's t-test. \* $p < 0.05$ , \*\*\*\* $p < 0.0001$  vs. SHAM\_CON. Values are expressed as the mean  $\pm$  SEM (N=8-10). Statistical details: number of ambulations [ $p < 0.0001$ ,  $t(110)=9.476$ ]; number of climbs [ $p=0.0117$ ,  $t(113)=2.563$ ]; time spent in the central zone [ $p < 0.0001$ ,  $t(102)=14.98$ ]

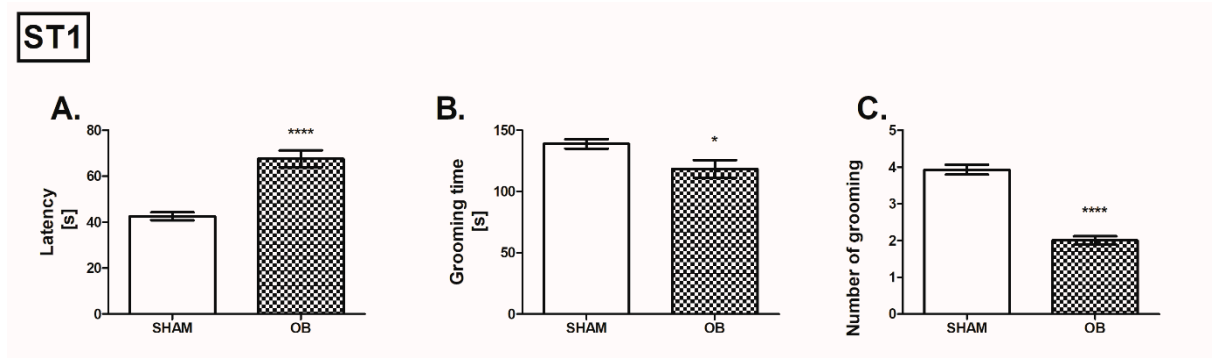


Figure S2: The effect of the OB procedure on the index of self-care and motivational behavior of mice in the splash test (ST1; after a 14-day recovery period; day 15 of the experimental procedure). A: latency, B: grooming time, C: number of grooming) Data were analyzed by Student's t-test. \* $p < 0.05$ , \*\*\*\* $p < 0.0001$  vs. SHAM\_CON. Values are expressed as the mean  $\pm$  SEM (N=8-10). Statistical details: latency [ $p < 0.0001$ ,  $t(101)=6.043$ ]; grooming time [ $p=0.0110$ ,  $t(89)=2.598$ ]; number of grooming [ $p < 0.0001$ ,  $t(105)=10.90$ ].

Table S1: Pearson correlation coefficients

	group	r	p
TBARS serum vs. TBARS FCx	OB Control	0.7255	0.0650
	OB AMI 10	0.7478	0.0533
	OB SFN 10	0.8281	0.0214*
TBARS serum vs. TBARS Hp	OB Control	0.8521	0.0312*
	OB AMI 10	0.9204	0.0093**
	OB SFN 10	0.9415	0.0050**
TAC serum vs. TAC FCx	OB Control	0.8730	0.0232*
	OB AMI 10	0.7998	0.0561
	OB SFN 10	0.9035	0.0135*
TAC serum vs. TAC Hp	OB Control	0.6175	0.1914
	OB AMI 10	0.6883	0.1306
	OB SFN 10	0.9279	0.0076**

TBARS – thiobarbituric acid-reactive substances; TAC -; total antioxidant capacity; FCx- frontal cortex; Hp - hippocampus; OB – olfactory bulbectomy; SFN - (R, S)-sulforaphane at dose 10 mg/kg; AMI – amitriptyline at dose 10 mg/kg