Supplemental Material

JAK2/STAT3 Pathway is Required for α7nAChR-Dependent Expression of POMC and AGRP Neuropeptides in Male Mice

Camilla Mendes Souza^a Camilla Libardi do Amaral^a Suleyma Costa Souza^a Anelise Cristina Parras de Souza^a Isis de Cássia Alves Martins^a Leticia Sanches Contieri^a Marciane Milanski^{a,b} Adriana Souza Torsoni^{a,b} Leticia Martins Ignacio-Souza^{a,b} Marcio Alberto Torsoni^{a,b}

^aSchool of Applied Sciences, University of Campinas, Campinas, Brazil, ^bObesity and Comorbidities Research Centre, University of Campinas, Campinas, Brazil Fig. S1. Feed intake in α 7nAChR knockout animals. The mice were fasted for 24 h and fed for 24 h. The cumulative food intake was analysed at (D) 4 h, (E) 8 h and (F) 24 h after refeeding (WT n = 4 α 7KO = 4). Student's t-test was used.

Fig. S2. (A) Representative image of a pSTAT3 western blot (saline n = 2, PNU n = 2) after ICV injection of PNU (450 picomol/mouse). (B) Representative image of a CHRNA7 western blot in the mypHoA-POMC/GFP neuronal lineage. (C) Representative image of a pSTAT3 western blot in the hypothalamus of male mice given and ICV injection of 5 mM AG490 (2 μ L/mouse) or 30 μ M STATTIC (2 μ L/mouse) before the injection of PNU (450 picomol/mouse).



