

1 Research Manuscript

2 **Withdrawal from extended, intermittent access to a**
 3 **highly palatable diet impairs hippocampal memory**
 4 **function and neurogenesis: effects of memantine**

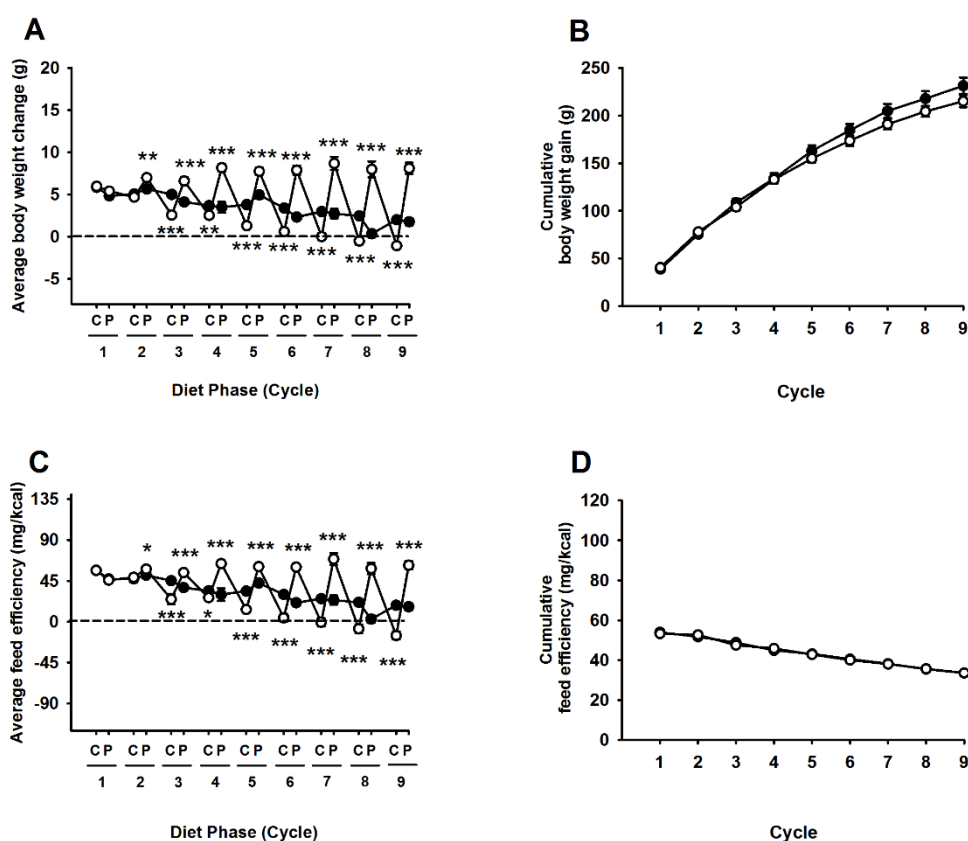
5 Antonio Ferragud ¹, Clara Velázquez-Sánchez ¹, Ali Al Abdullatif ¹, Valentina Sabino ¹ and
 6 Pietro Cottone ^{1,*}

7 ¹ Laboratory of Addictive Disorders, Departments of Pharmacology and Psychiatry, Boston University
 8 School of Medicine, Boston, MA, USA

9 * Correspondence: cottone@bu.edu; 001-617-358-1950

10

11 **Supplementary Figure S1**



12

13

14

15

16

17

18

Figure 5. Effects of repeated, alternating 5-day access to chow and 2-day access to either chow (Chow/Chow) or highly preferred chocolate-flavored sugary diet (Chow/Palatable) on (A) average body weight change, (B) cumulative body weight gain, (C) Average feed efficiency, and (D) cumulative feed efficiency, (n=19-20/group). Data show M±SEM. * p≤0.05, ** p≤0.01, *** p≤0.001 vs. Chow/Chow.