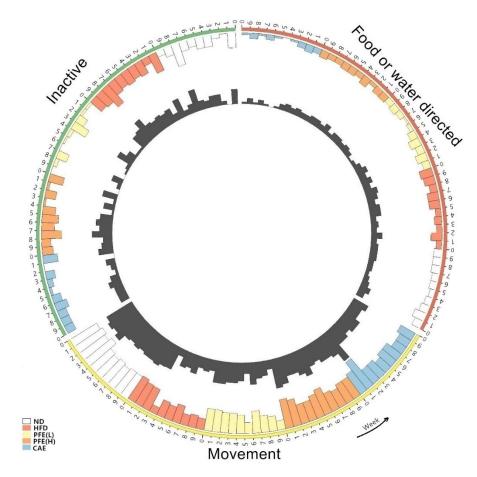
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Supplementary Information

Supplementary Fig.1 PFE improved the food-or water-directed behavior, as well as movement, thereby decreasing the inactive state. Different colors were used to represent different groups, and the height of bar indicates the behavior frequency observed at each week. Meanwhile, for each group, the leftmost bar represents frequency of week 0, and the rightmost bar represents the frequency at the end of experiment.



Supplementary Table 1 The sequences of the primers.

Name	Primer	Sequence
Rat GAPDH	Forward	5'- ACAGCAACAGGGTGGTGGAC -3'
	Reverse	5'- TTTGAGGGTGCAGCGAACTT -3'
Rat Glut-2	Forward	5'- GGGGACAAACTCGGAAGGAT -3'
	Reverse	5'- CTGATTGCCCAGAATGAAGC -3'
Rat Fiaf	Forward	5'- TCTGGTGGCTGGTGGTTTG -3'
	Reverse	5'- CTGATTGCCCAGAATGAAGC -3'
Rat Proglucagon	Forward	5'- CTCCCGCCGTGCTCAAGATTT -3'
	Reverse	5'- GCCTTTCACCAGCCAAGCAATGA -3'
Rat ZO-1	Forward	5'- TTTCCTCCTCGACCTCCCTAAAG -3'
	Reverse	5'- CTCGCTCTACCTCCTTGTGATT -3'
Rat Occludin	Forward	5'- CCATAGCTTTAATACCATCCGTTTC -3'
	Reverse	5'- AGTGTTCAGCCCAGTCAATTATC -3'