Supplemental Figure Legends

Figure S1 related to Figure 1.

(A) Western blot analysis of: A) Swiss WT-PPARγ adipocytes treated with TNFα alone or in combination with roscovitine or troglitazone (5μm) for 1 hour; B) Swiss WT-PPARγ and S273A-PPARγ cells differentiated to adipocytes.

Figure S2 related to Figure 2.

(A) UCP1 staining of sections of EPI depots from 8-week-old C57BL/6N wild-type male mice intraperitoneally (i.p.) injected daily for 6 weeks with rosiglitazone (10mg/kg) or roscovitine (50mg/kg) or CL-316,243 (1mg/kg) or vehicle (-), n=4/group.

(B) Fasting blood insulin of mice from A.

(C) Respiratory exchange ratio (RER) of mice in Figure 2 was measured by CLAMS.

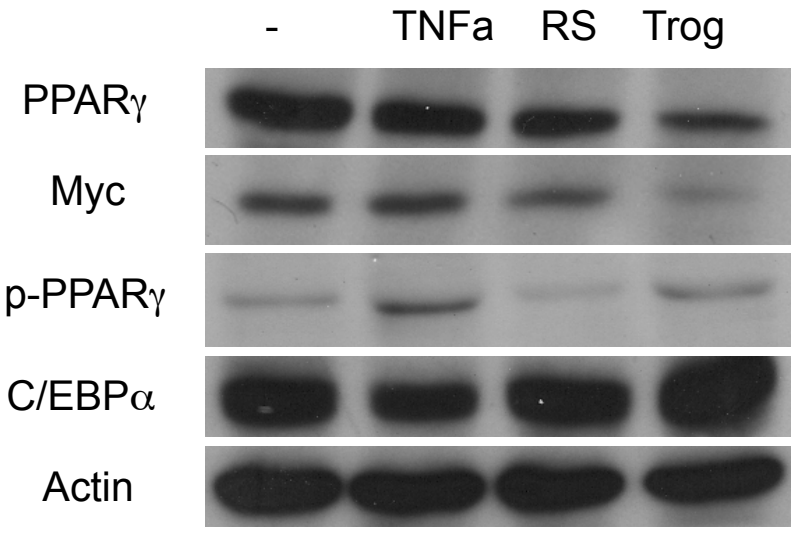
Figure S3 related to Figure 4.

(A) UCP1-Cre/Tomato mouse BAT tissue under fluorescence microscopy.

Figure S4 related to Figure 5. The average signal intensites for genes in the microarray data set are pairwise compared between BAT to WAT, CL to WAT, roscovitine to WAT, rosiglitazone to WAT.

Figure S1

A


-
TNFa
RS
Trog
PPARγ
Myc
p-PPARγ
C/EBPα
Actin

B

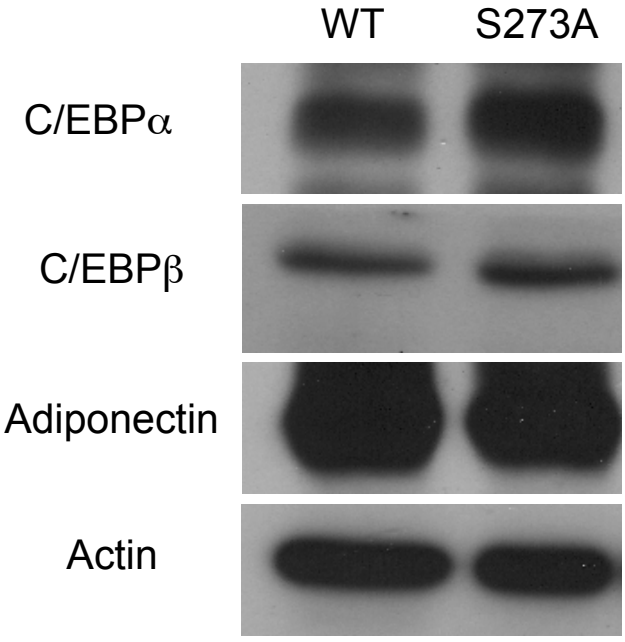
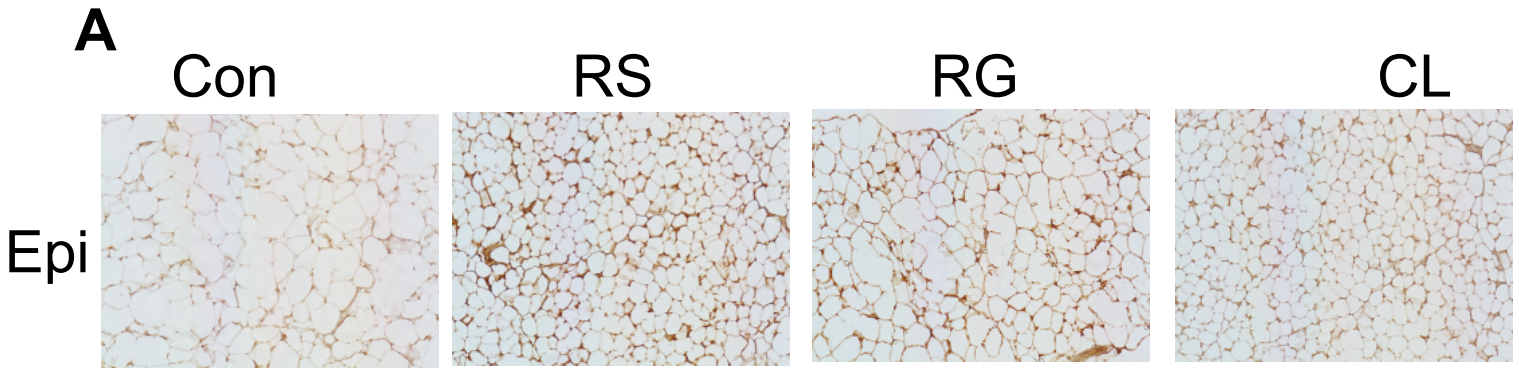
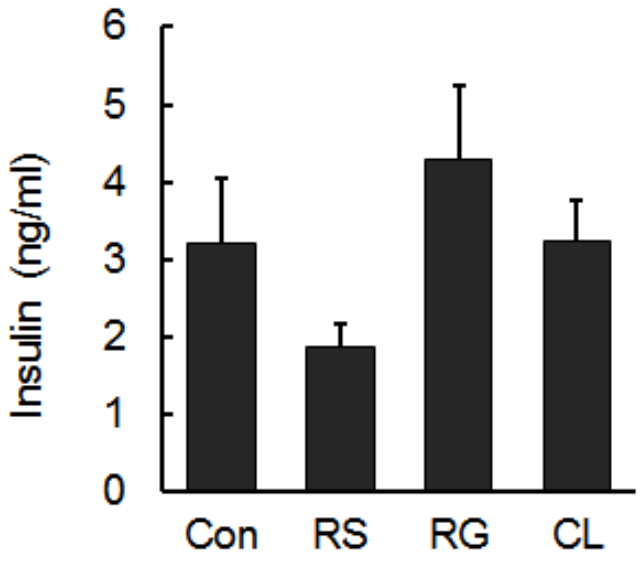

WT
S273A
C/EBPα
C/EBPβ
Adiponectin
Actin

Figure S2


A
Con
RS
RG
CL
Epi


B
Insulin (ng/ml)
6
5
4
3
2
1
0
Con
RS
RG
CL

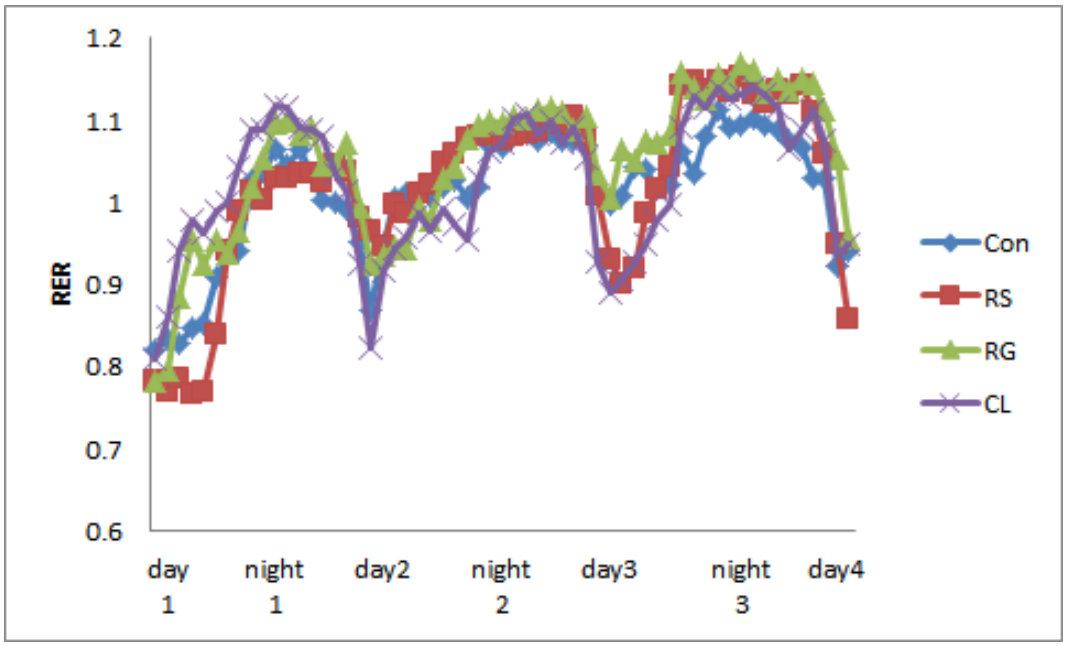

C
RER
1.2
1.1
1
0.9
0.8
0.7
0.6
day 1
night 1
day2
night 2
day3
night 3
day4
Con
RS
RG
CL

Figure S3

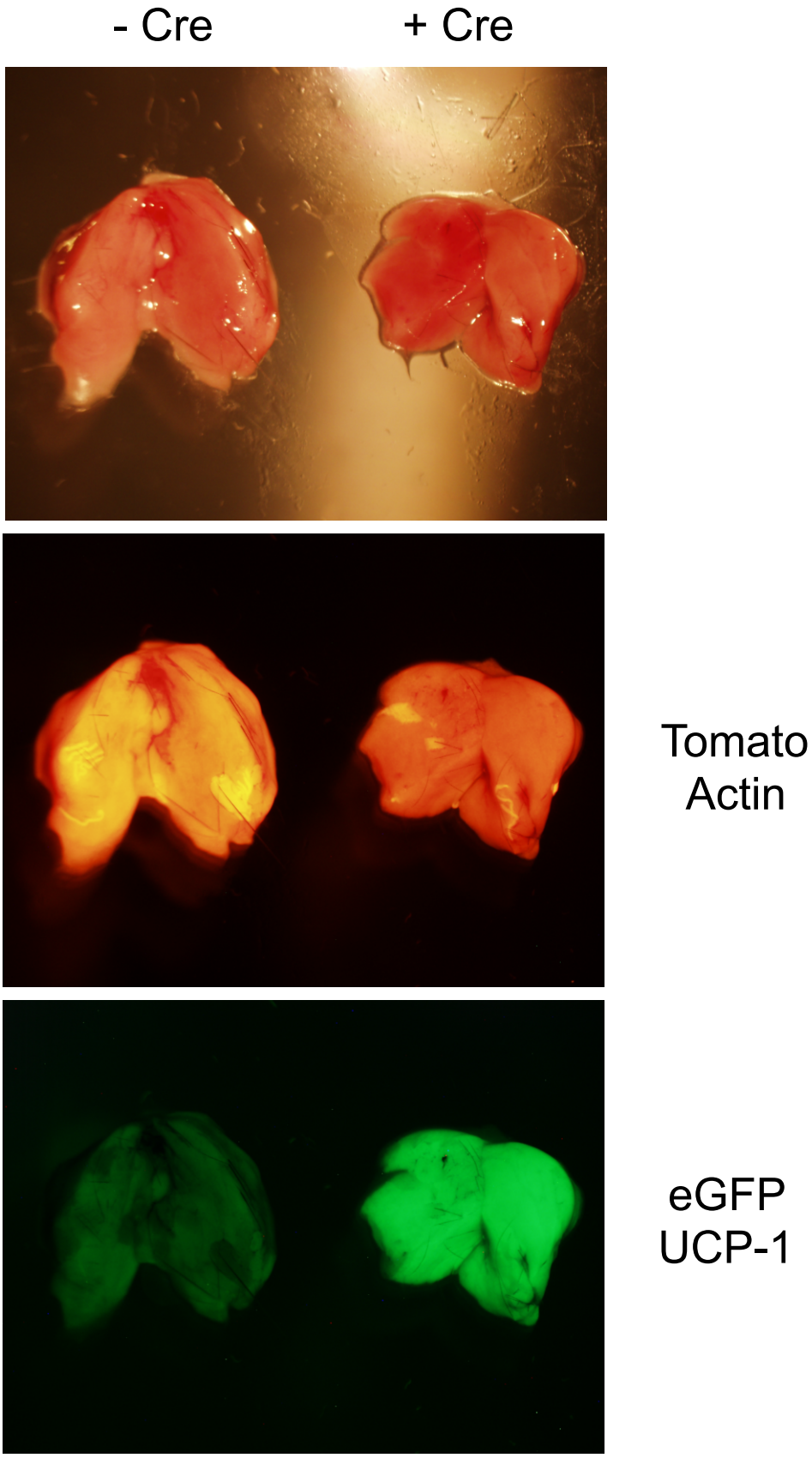
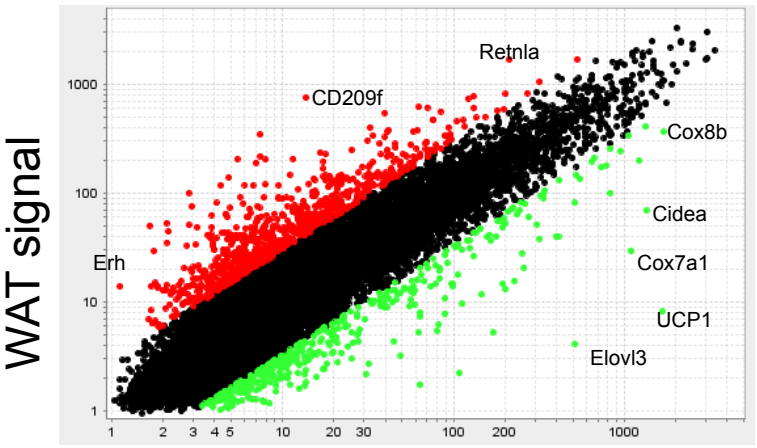
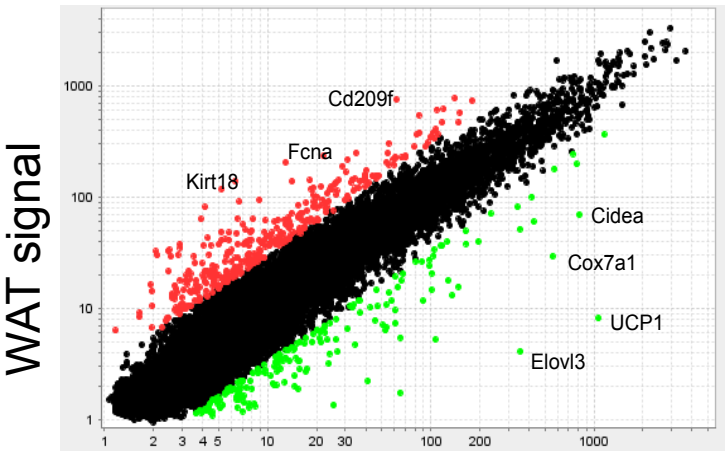
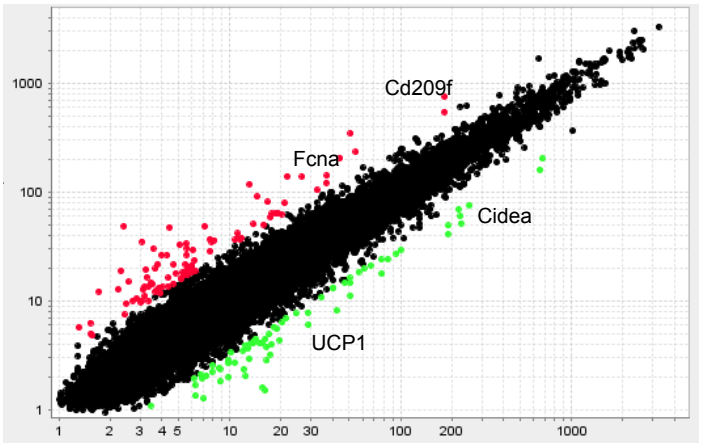
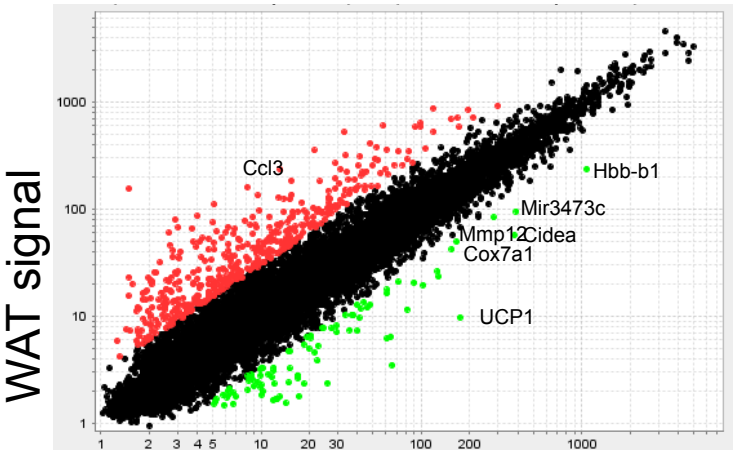


Figure S4


WAT signal
BAT signal
Retnla
CD209f
Cox8b
Cidea
Cox7a1
Erh
UCP1
Elovl3


WAT signal
CL signal
Cd209f
Fcna
Kirt18
Cidea
Cox7a1
UCP1
Elovl3


WAT signal
Roscovitine signal
Cd209f
Fcna
Cidea
UCP1


WAT signal
Rosiglitazone signal
Ccl3
Hbb-b1
Mir3473c
Mmp12
Cidea
Cox7a1
UCP1