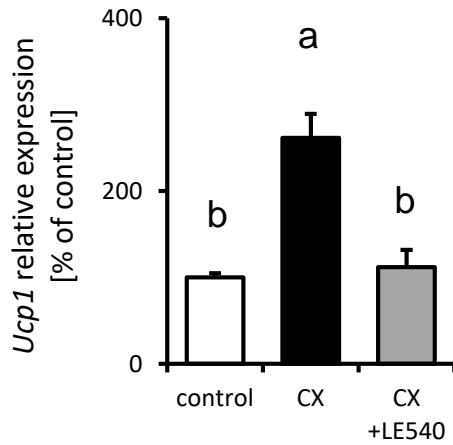
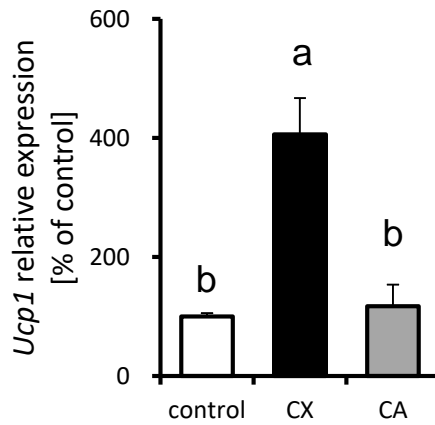
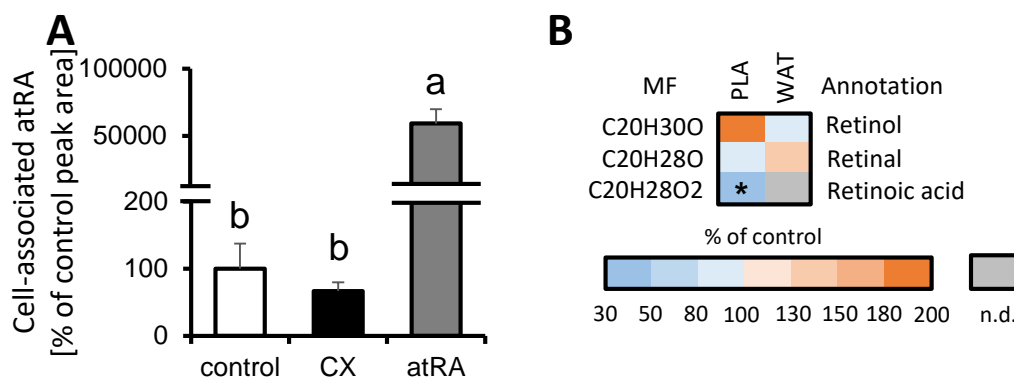


**A****B**

Supplemental figure 1. (A) Effect of  $\beta$ -cryptoxanthin (CX, 10  $\mu$ M) and RAR antagonist (LE540, 5  $\mu$ M) co-treatment for 8 hours on UCP1 mRNA expression in C3H10T1/2 cells. (B) Effect of CX (10  $\mu$ M) or  $\beta$ -carotene (CA, 10  $\mu$ M) treatment for 8 hours on *Ucp1* mRNA expression in C3H10T1/2 cells. Data represent the mean  $\pm$  SEM (n=5~6). Different letters indicate significant difference ( $p < 0.05$ ).



Supplemental figure 2. (A) Effect of  $\beta$ -cryptoxanthin (CX, 10  $\mu$ M) or all-trans retinoic acid (atRA, 10  $\mu$ M) treatment on atRA level in C3H10T1/2 cells. Data represent the mean  $\pm$  SEM (n=3). Different letters indicate significant difference ( $p < 0.05$ ). (B) Effect of CX treatment on metabolites in plasma (PLA) or white adipose tissue (WAT). Data represent the mean  $\pm$  SEM (n=5~6). Statistical comparisons were made with the control group; \* $p < 0.05$  was considered significant. n.d.; not detected.