

Supplementary Table 2 GO analysis of the genes up-regulated by 30%CR

	GO ID	GO Term (BP_Direct)	p-value
liver	GO:0055114	oxidation-reduction process	8.65E-13
	GO:0006635	fatty acid beta-oxidation	1.39E-06
	GO:0017144	drug metabolic process	1.68E-04
adipose	GO:0055114	oxidation-reduction process	1.08E-22
	GO:0006099	tricarboxylic acid cycle	1.63E-13
	GO:0006635	fatty acid beta-oxidation	1.10E-11
	GO:0033539	fatty acid beta-oxidation using acyl-CoA dehydrogenase	1.11E-06
	GO:0055088	lipid homeostasis	7.19E-05
	GO:0006629	lipid metabolic process	1.21E-04
	GO:0008152	metabolic process	2.72E-04
muscle	not identified		
brain (hypothalamus)	not identified		
intestin	GO:0007568	aging	

Adjusted p- value < 1×10⁻⁴ (Fisher's exact test)

Supplementary Table 3 GO analysis of the genes down-regulated by 30%CR

	GO ID	GO Term (BP_Direct)	p-value
liver	GO:0006695	cholesterol biosynthetic process	8.90E-12
	GO:0006629	lipid metabolic process	4.03E-05
	GO:0042493	response to drug	8.05E-04
	GO:0016126	sterol biosynthetic process	8.05E-04
	GO:0055114	oxidation-reduction process	8.05E-04
adipose	GO:0098609	cell-cell adhesion	2.49E-12
	GO:0019886	antigen processing and presentation of exogenous peptide antigen via MHC class II	9.61E-05
	GO:0001525	angiogenesis	9.61E-05
	GO:0042493	response to drug	9.61E-05
	GO:0016064	immunoglobulin mediated immune response	9.61E-05
	GO:0071260	cellular response to mechanical stimulus	9.61E-05
	GO:0043066	negative regulation of apoptotic process	9.61E-05
	GO:0043123	positive regulation of I-kappaB kinase/NF-kappaB signaling	1.56E-04
	GO:0030036	actin cytoskeleton organization	2.99E-04
	GO:0071407	cellular response to organic cyclic compound	4.88E-04
	GO:0008360	regulation of cell shape	6.83E-04
	GO:0045087	innate immune response	8.53E-04
	GO:0001666	response to hypoxia	1.29E-04
	GO:0006936	muscle contraction	3.50E-04
	GO:0030036	actin cytoskeleton organization	5.90E-04
muscle			
brain (hypothalamus)	not identified		
intestin	not identified		

Adjusted p- value < 1×10⁻⁴ (Fisher's exact test)