

Fatty Acid Oxidation of C2C12 with 4 hour Exposure to Leucine and Rapamycin

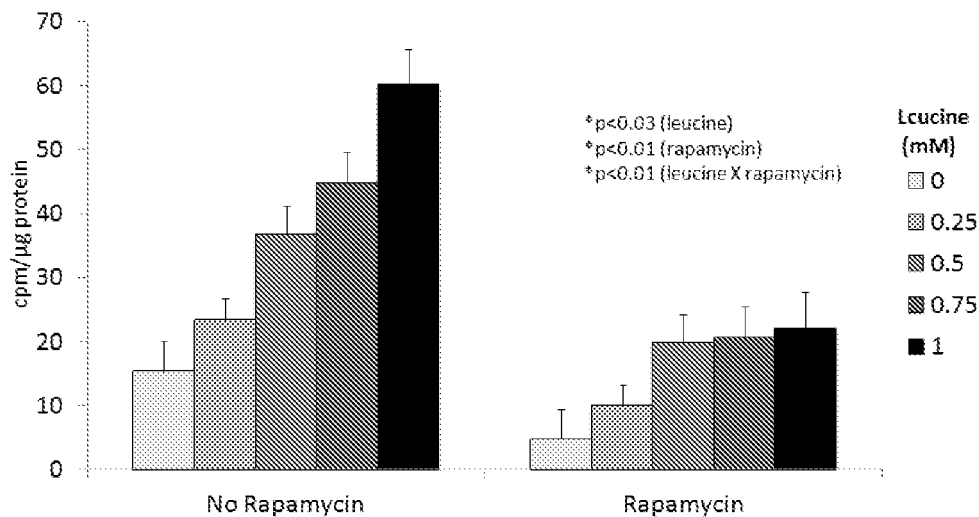


Figure 1

Fatty Acid Oxidation of C2C12 with 48 hour exposure to HMB, KIC, & Leucine

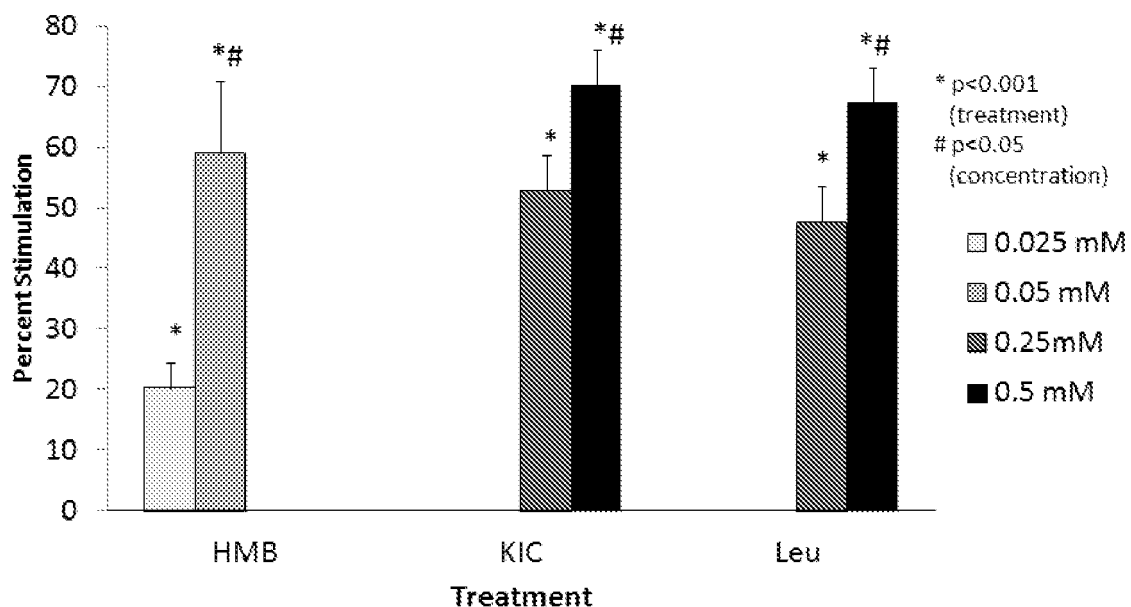


Figure 2

Mitochondrial Biogenesis of C2C12 Cells With 48 hr Exposure to HMB, KIC, Leucine and Valine

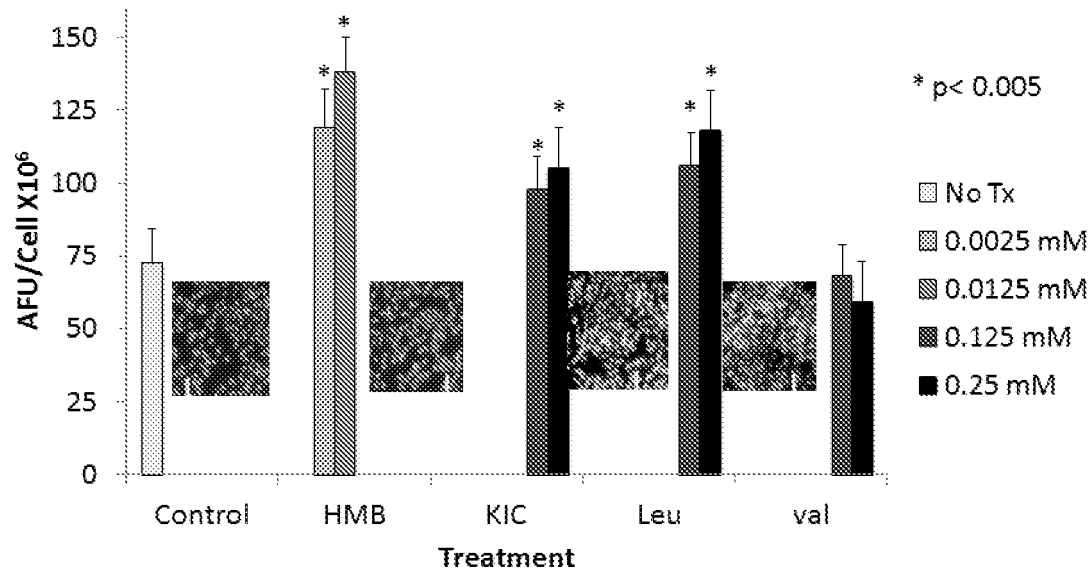


Figure 3

Expression of Mitochondrial Regulatory & Component Genes

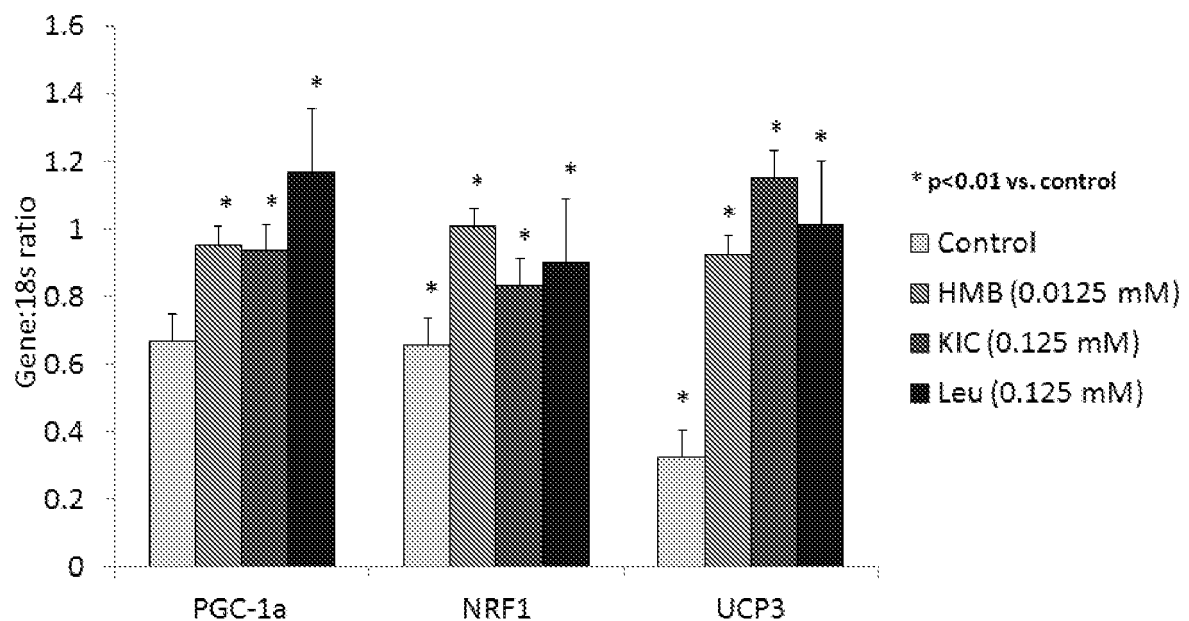


Figure 4

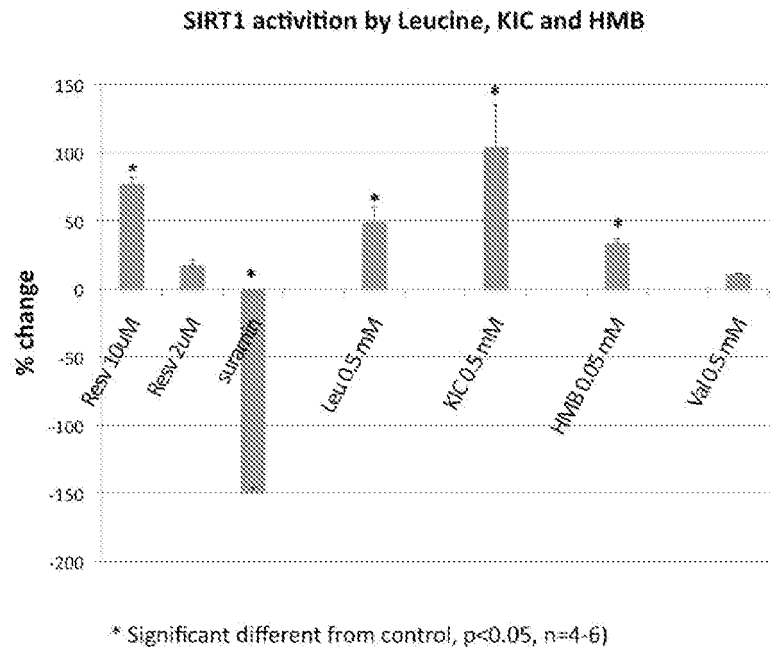


Figure 5

HMB-Resveratrol Synergy in Activation of SIRT3

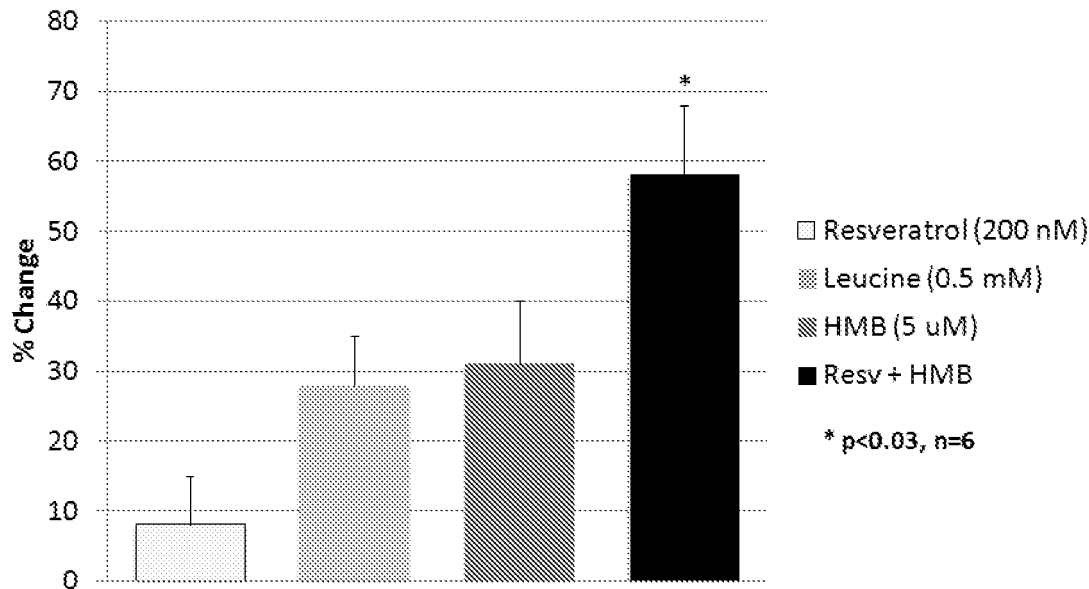
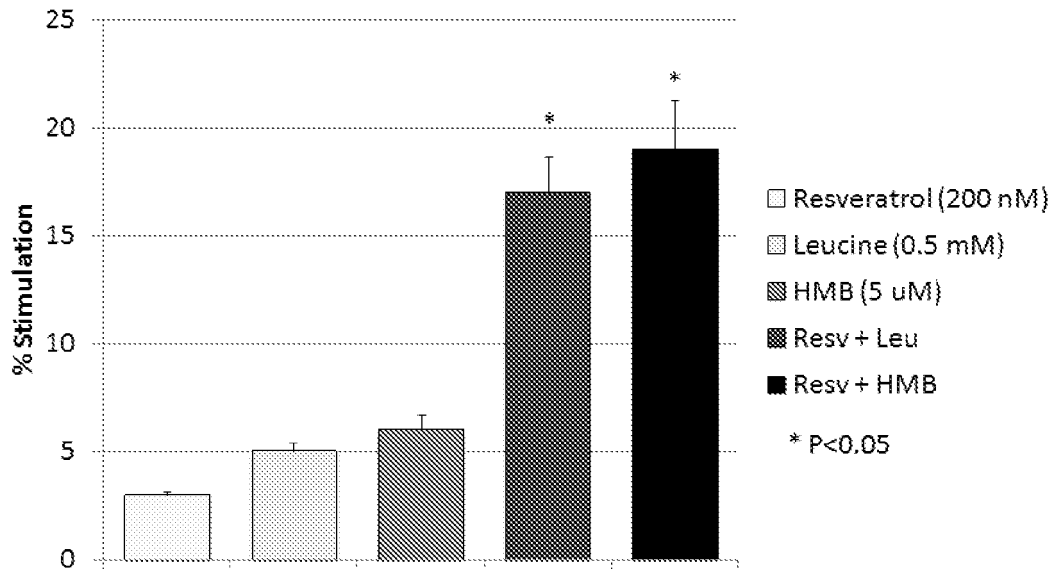


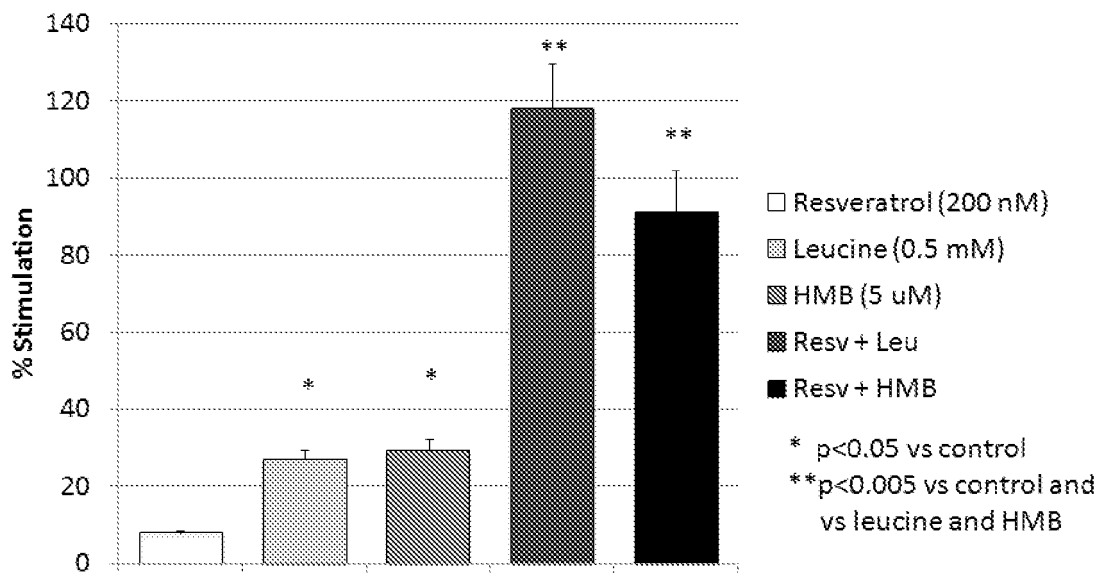
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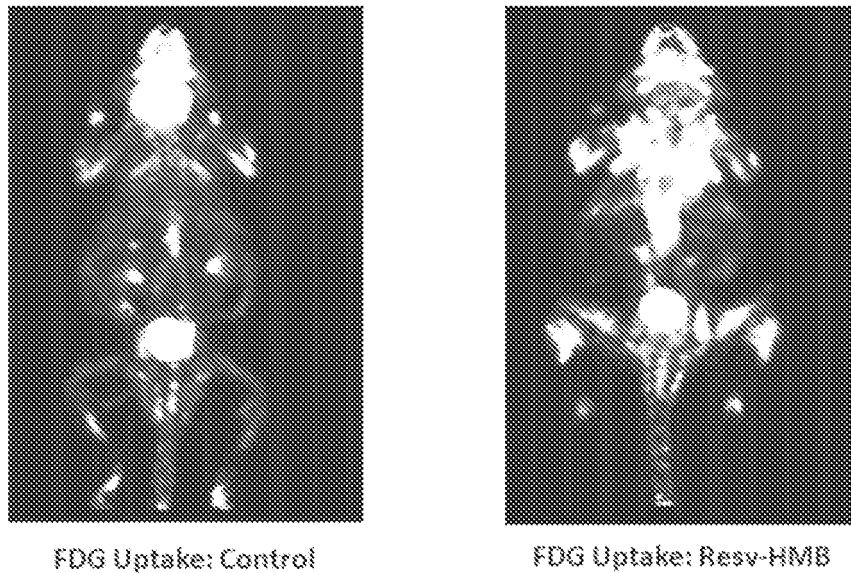
Leucine and HMB Synergize With Resveratrol to Stimulate Fatty Acid Oxidation Under Low Glucose Conditions

**Figure 7**

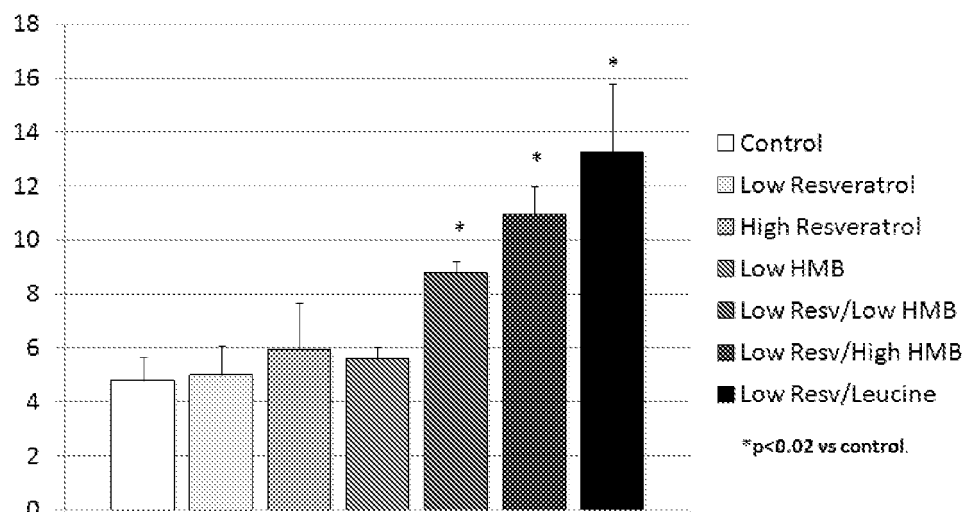
Leucine and HMB Synergize With Resveratrol to Stimulate Fatty Acid Oxidation Under High Glucose Conditions

**Figure 8**

Resveratrol-HMB synergy in glucose uptake using FDG-PET

**Figure 9**

Effects of resveratrol, leucine and HMB on adipose tissue Sirt1 activity in diet-induced obese mice

**Figure 10**

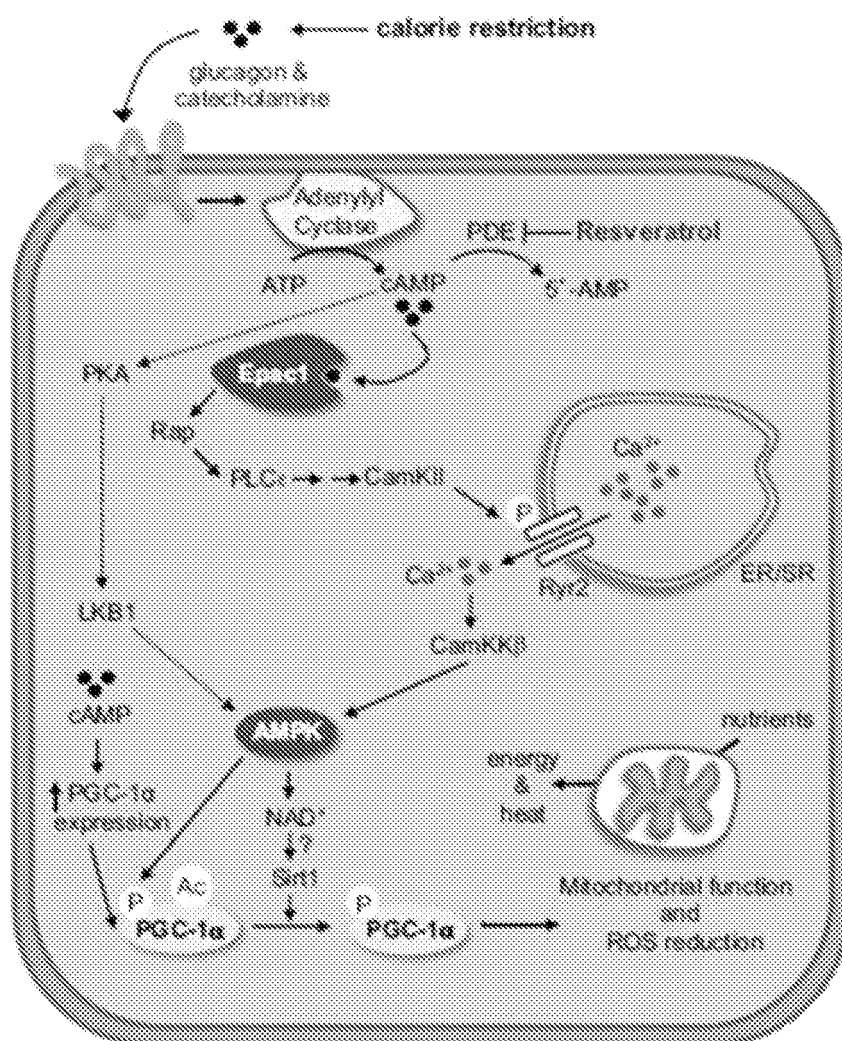


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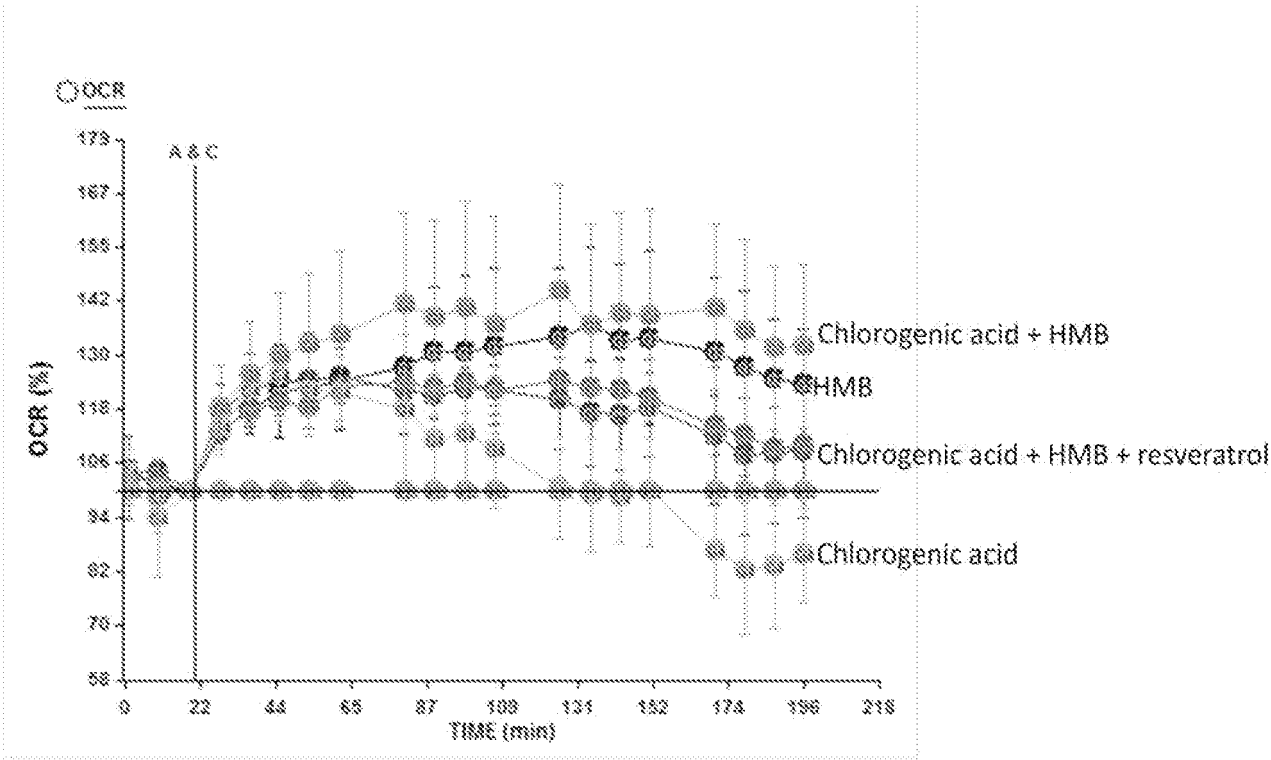


Figure 12

Fatty acid oxidation Chlorogenic acid (CA),

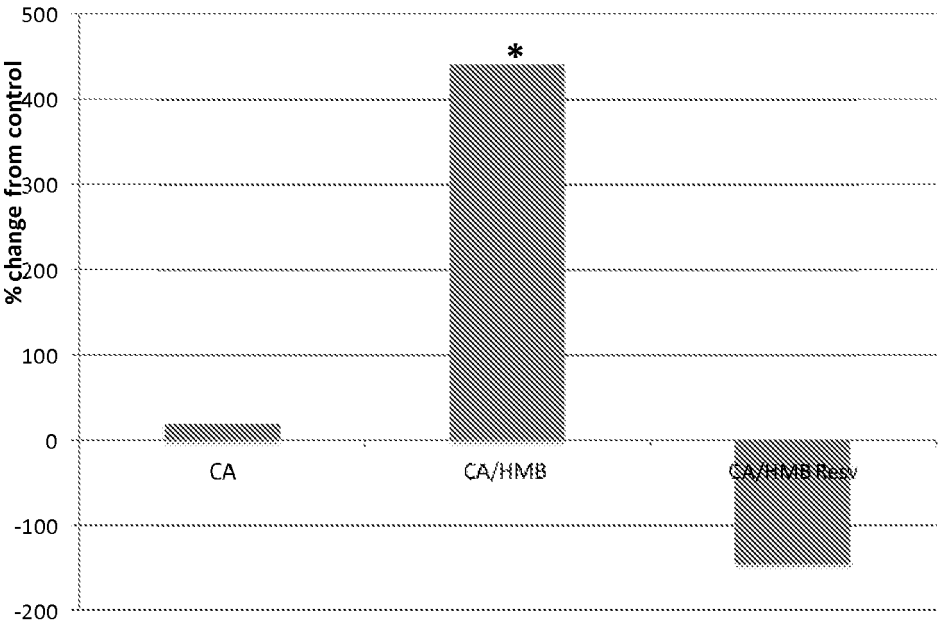


Figure 13

Sirt1 activity in adipocytes: Chlorogenic acid (CA)

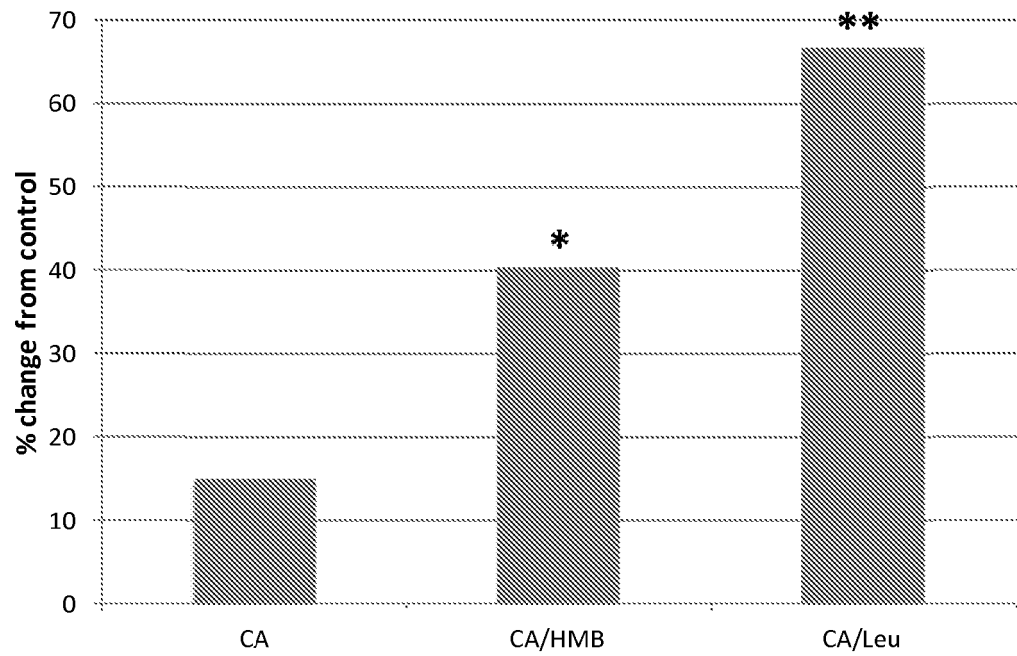


Figure 14

Glucose Utilization (ECAR) in adipocytes: Chlorogenic acid (CA)

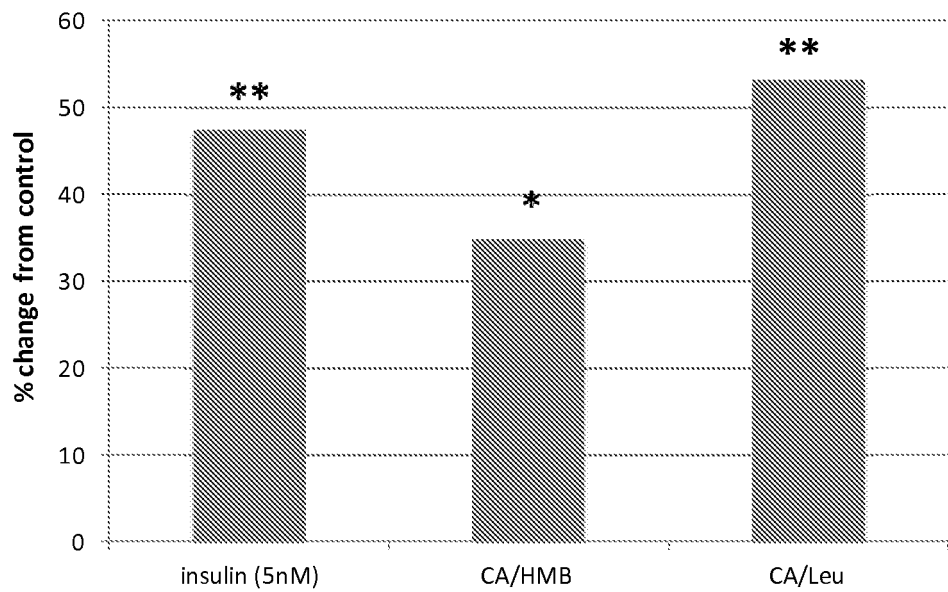


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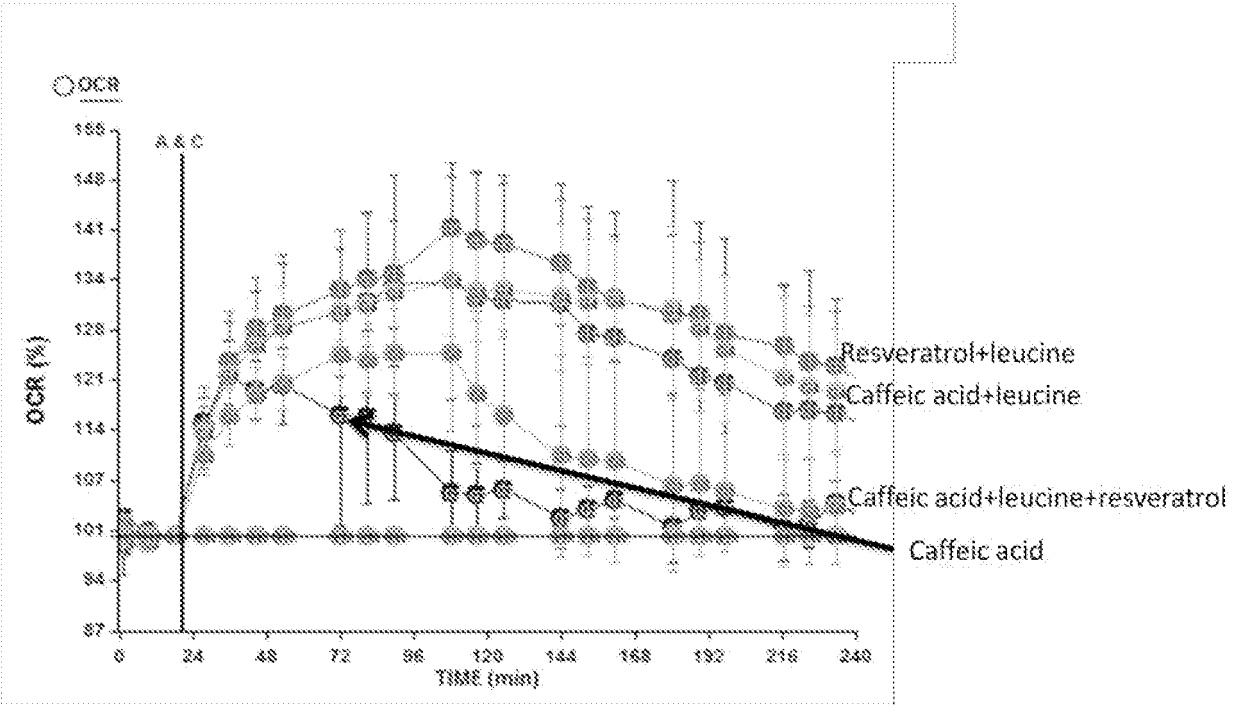


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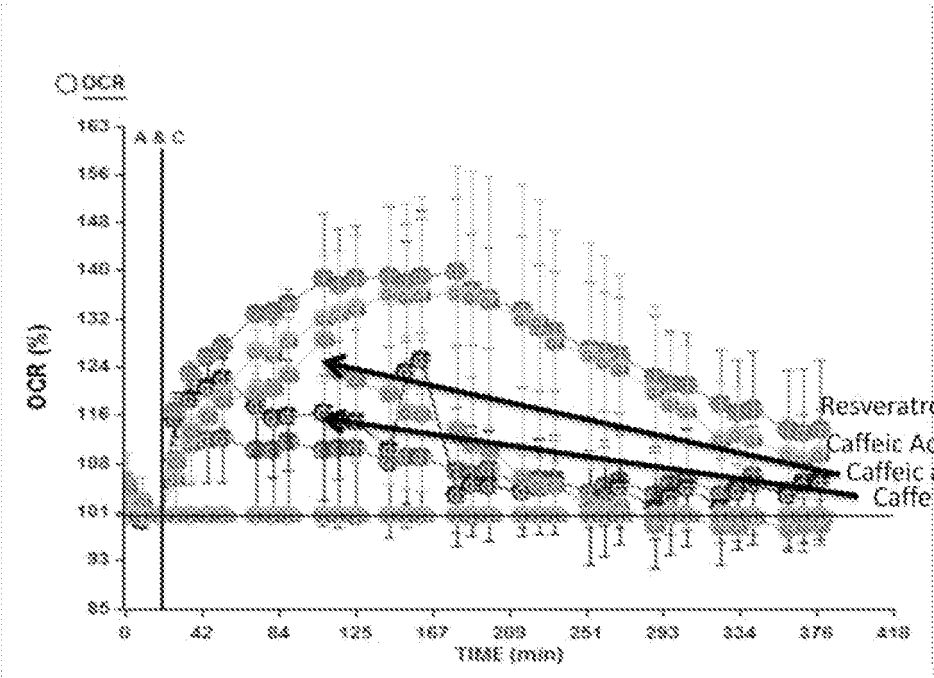


Figure 17

Fatty acid oxidation Caffeic acid (CAF)

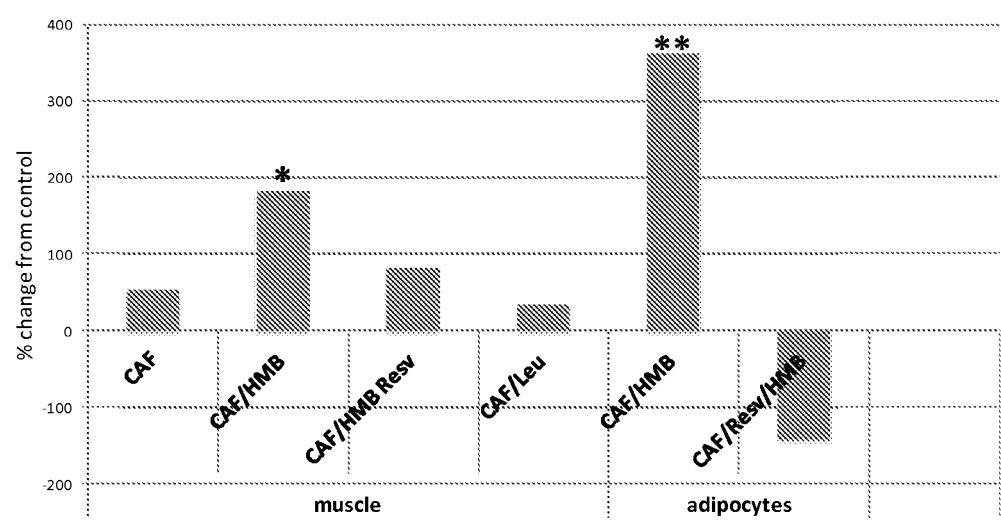


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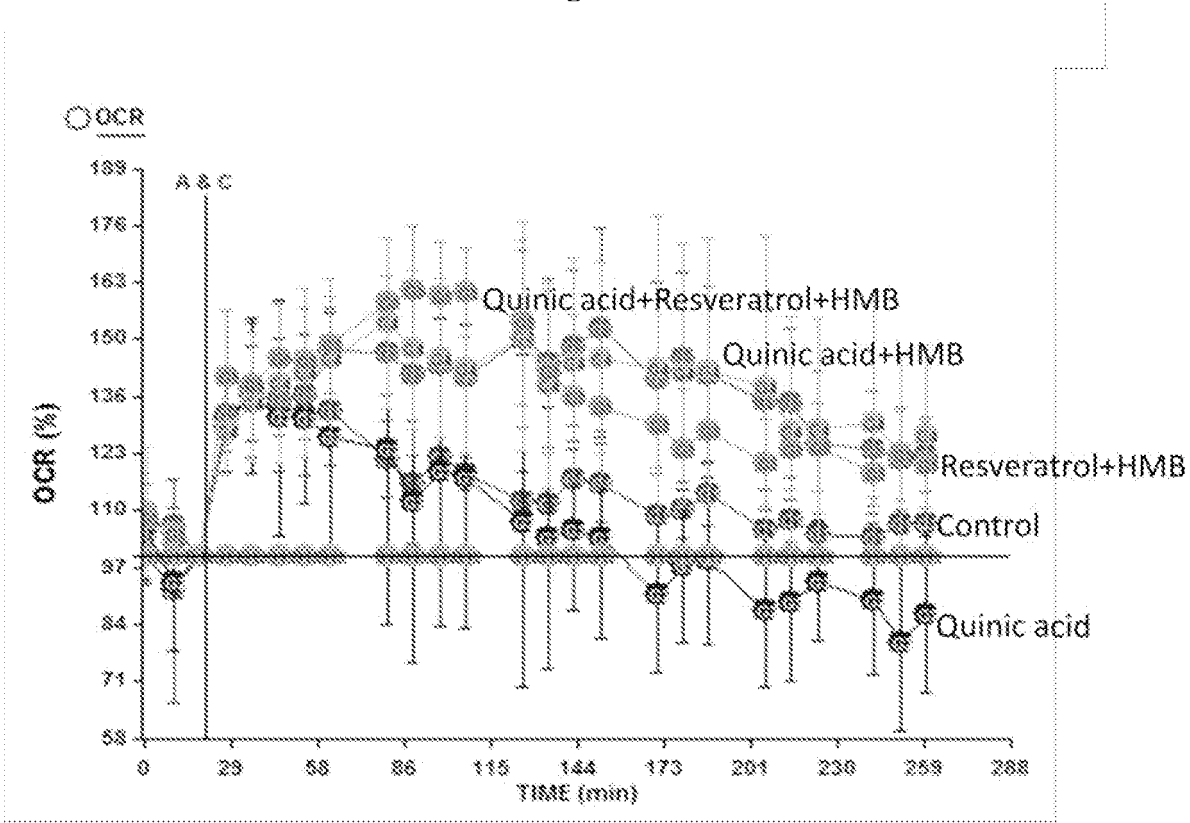


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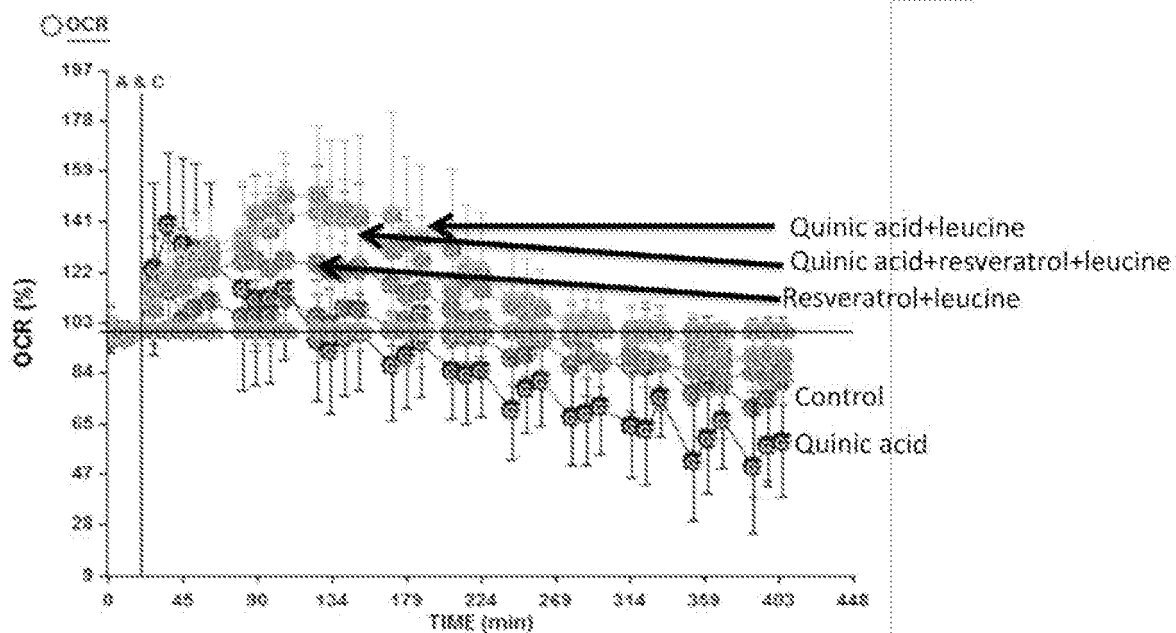


Figure 20

Fatty acid oxidation in adipocytes: Quinic acid (QA)

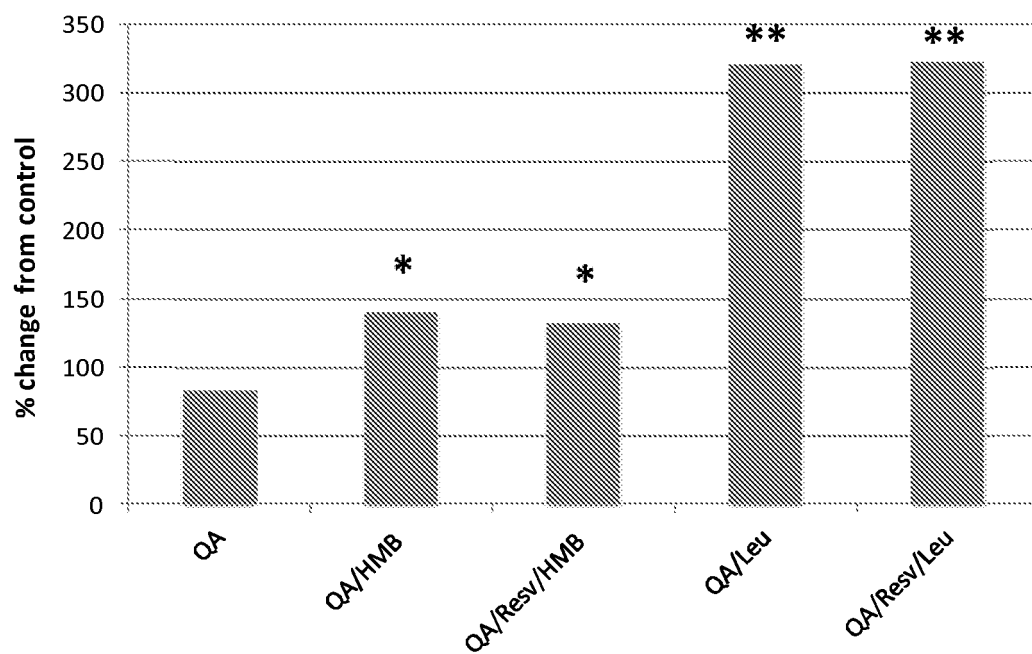


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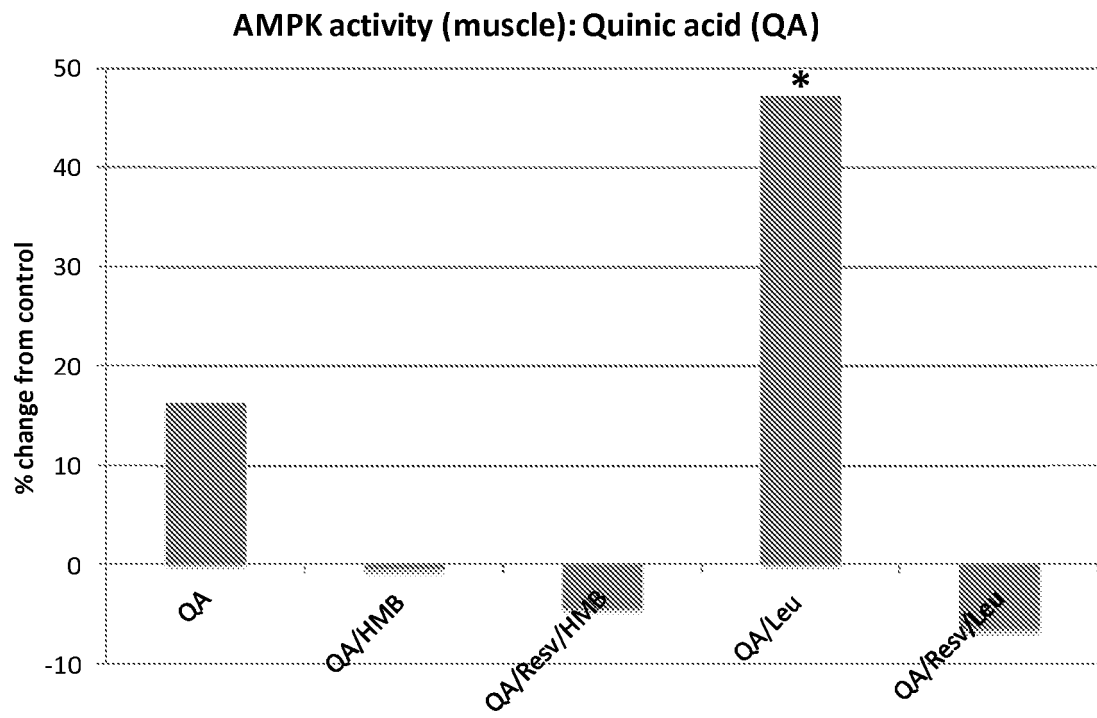


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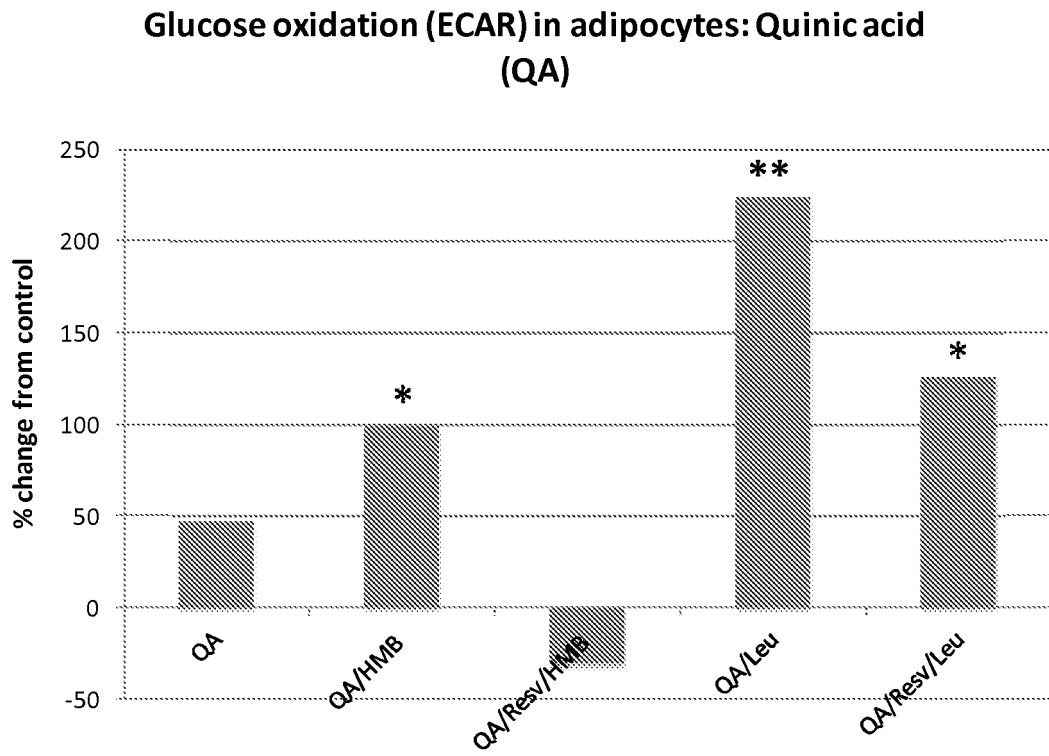


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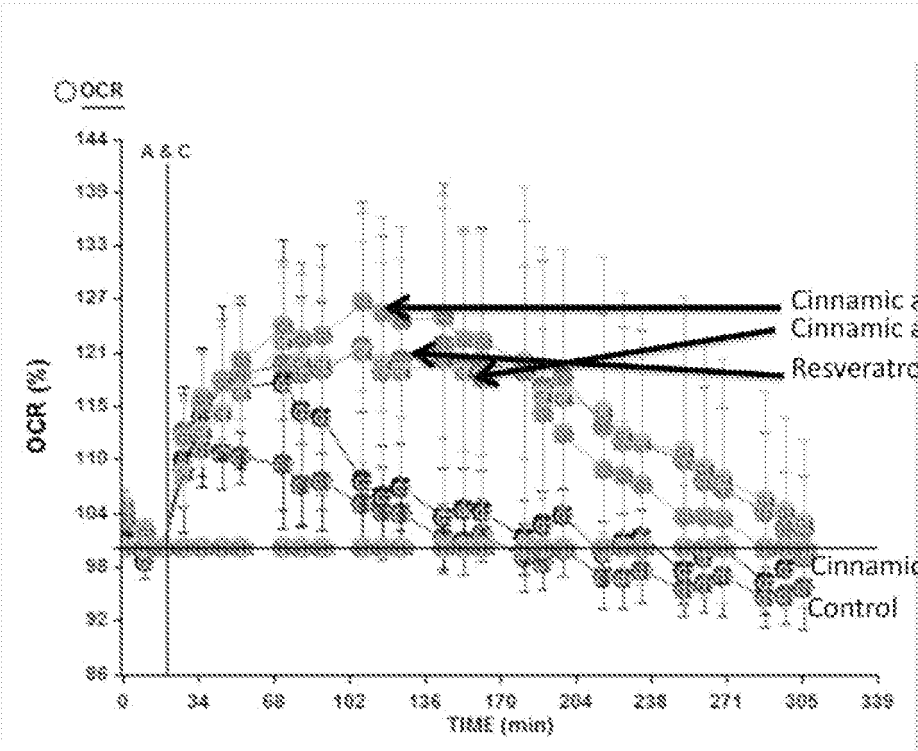


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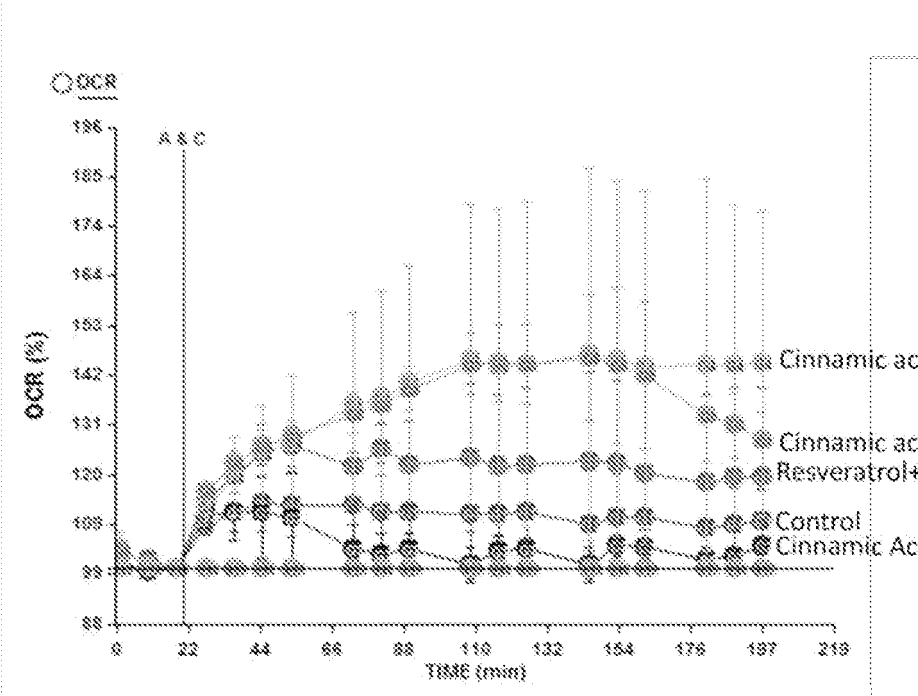


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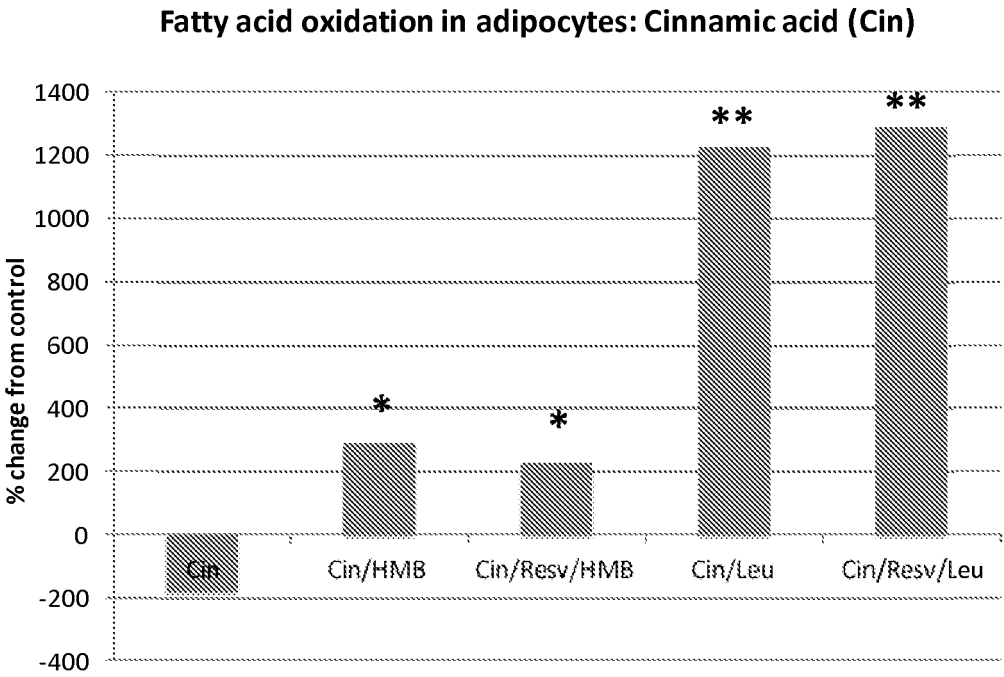


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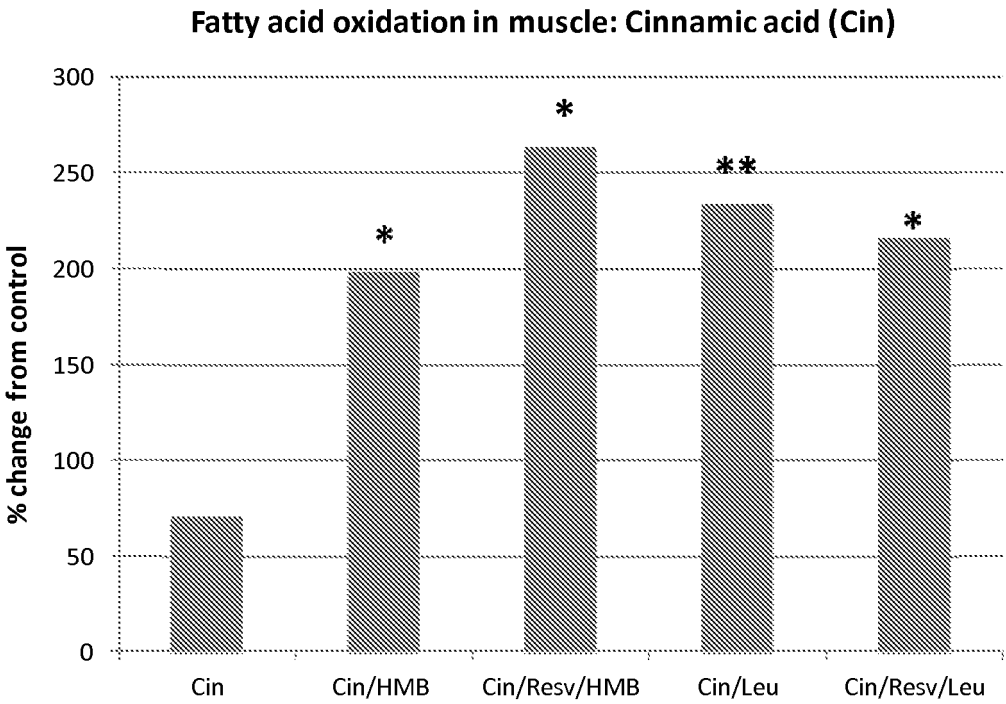


Figure 27

AMPK activity in adipocytes: Cinnamic acid (Cin)

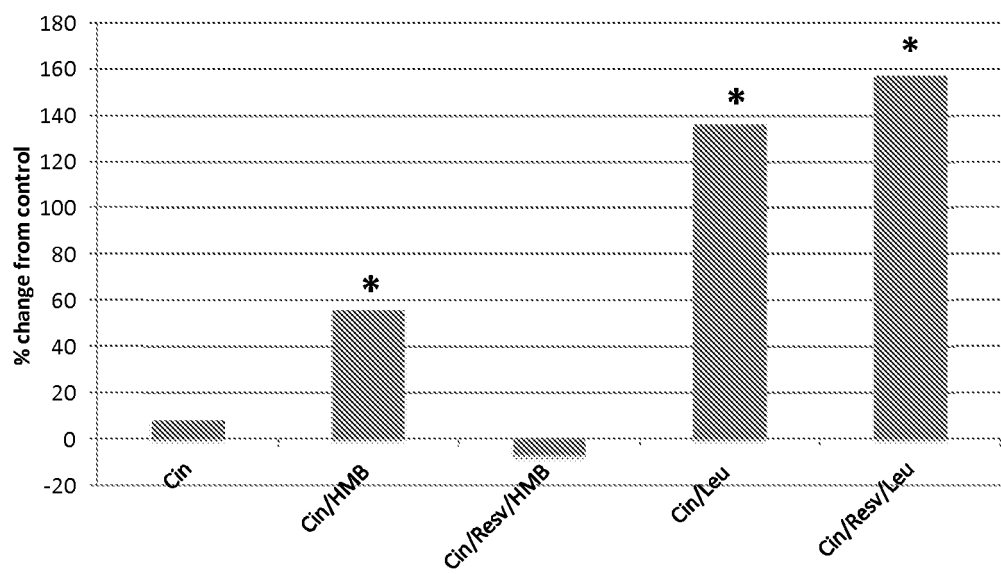


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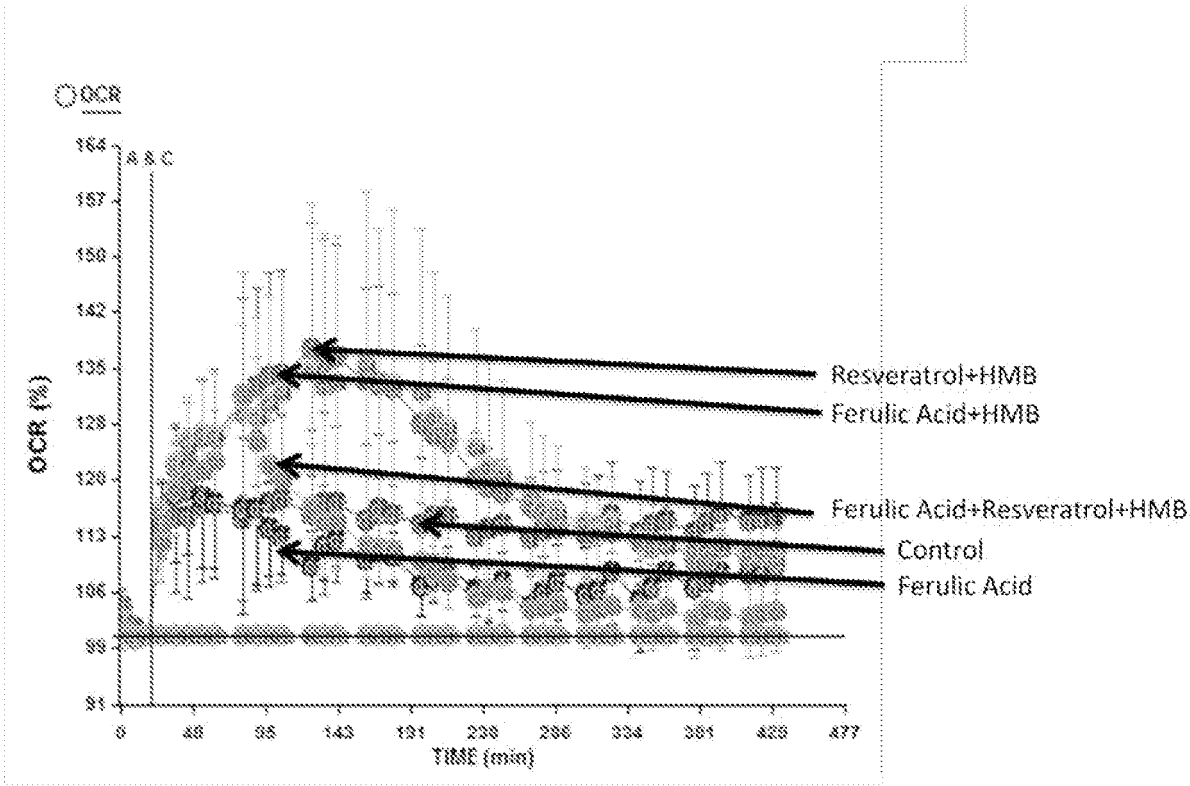


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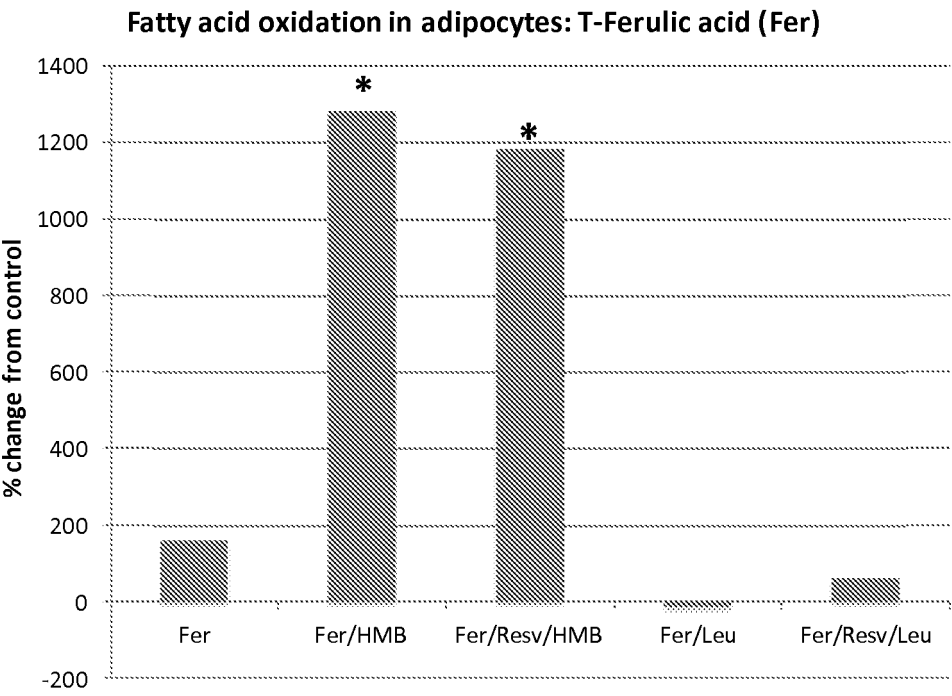


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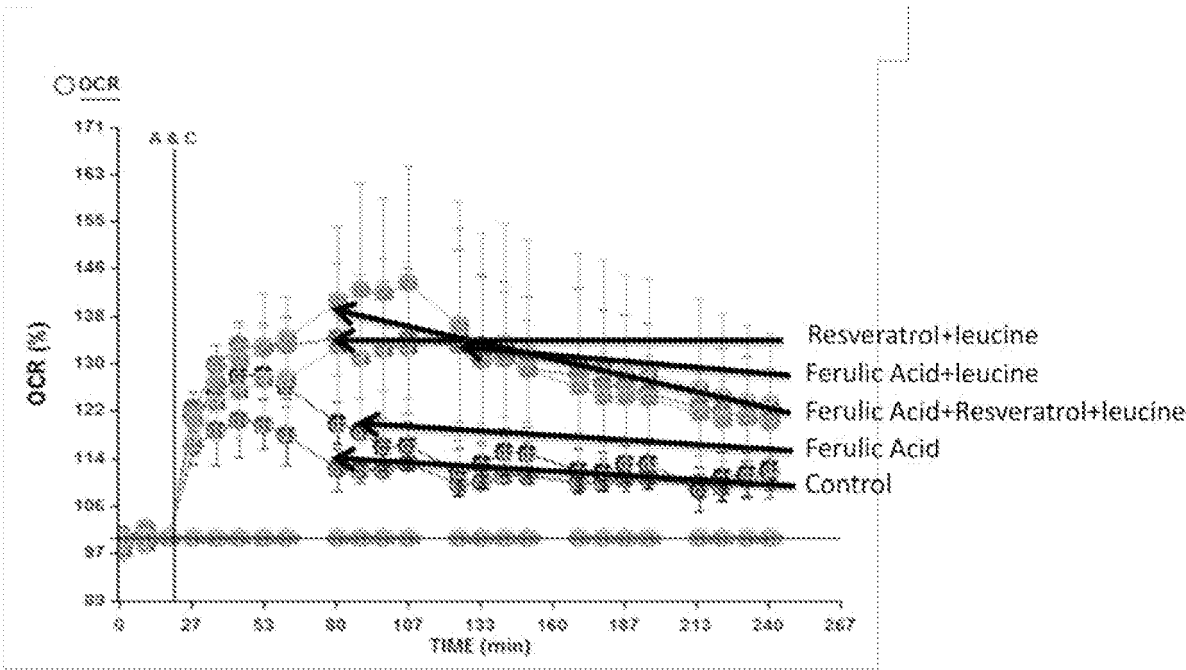


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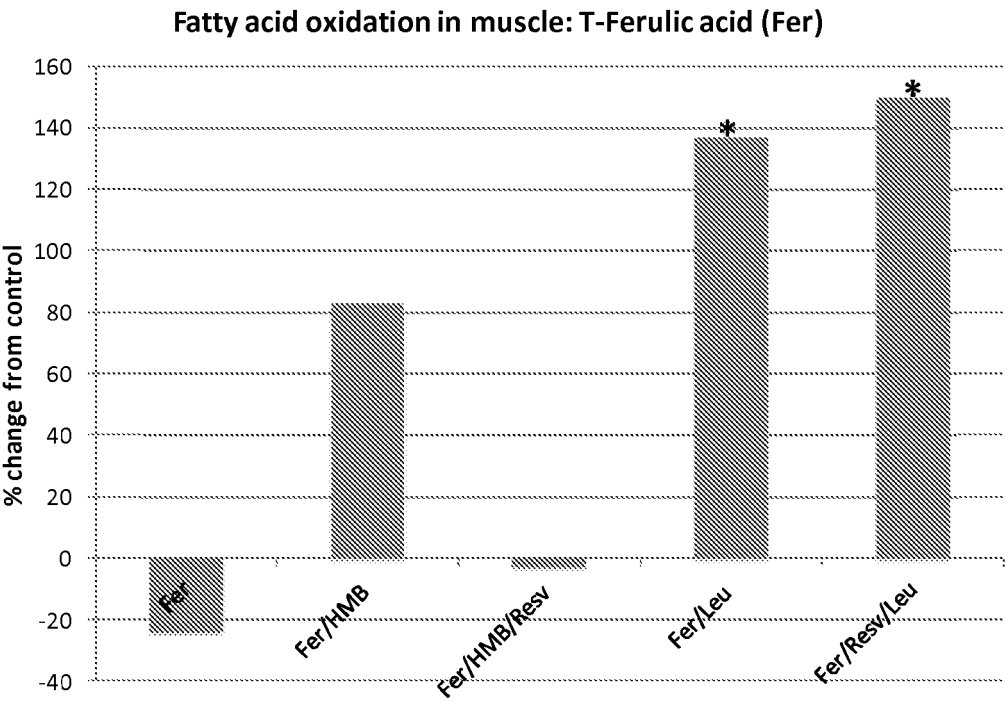


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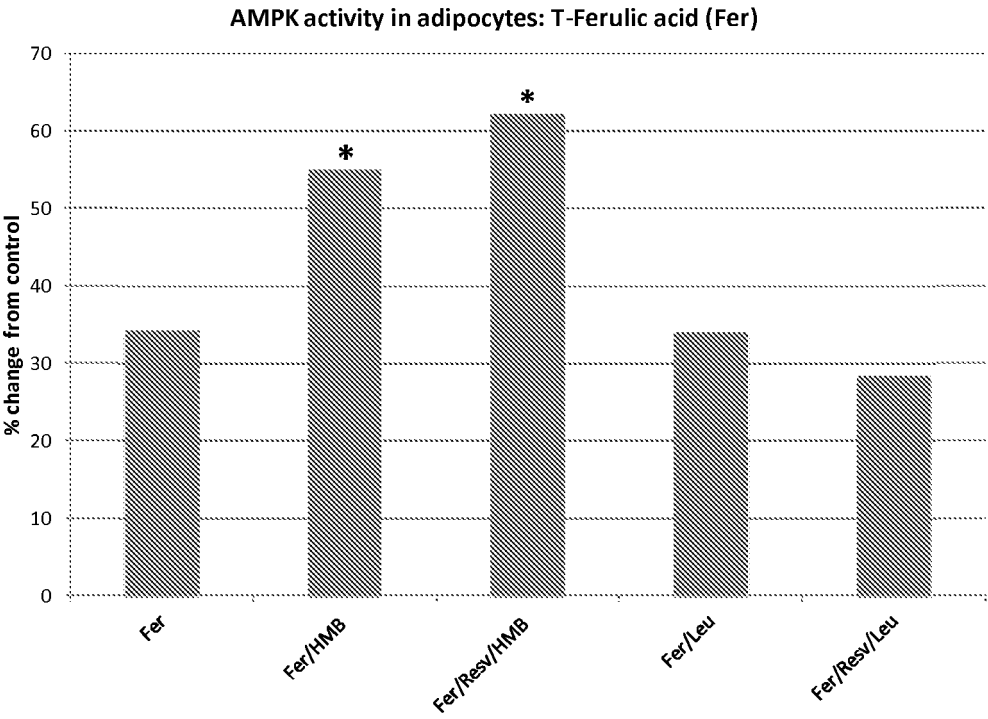


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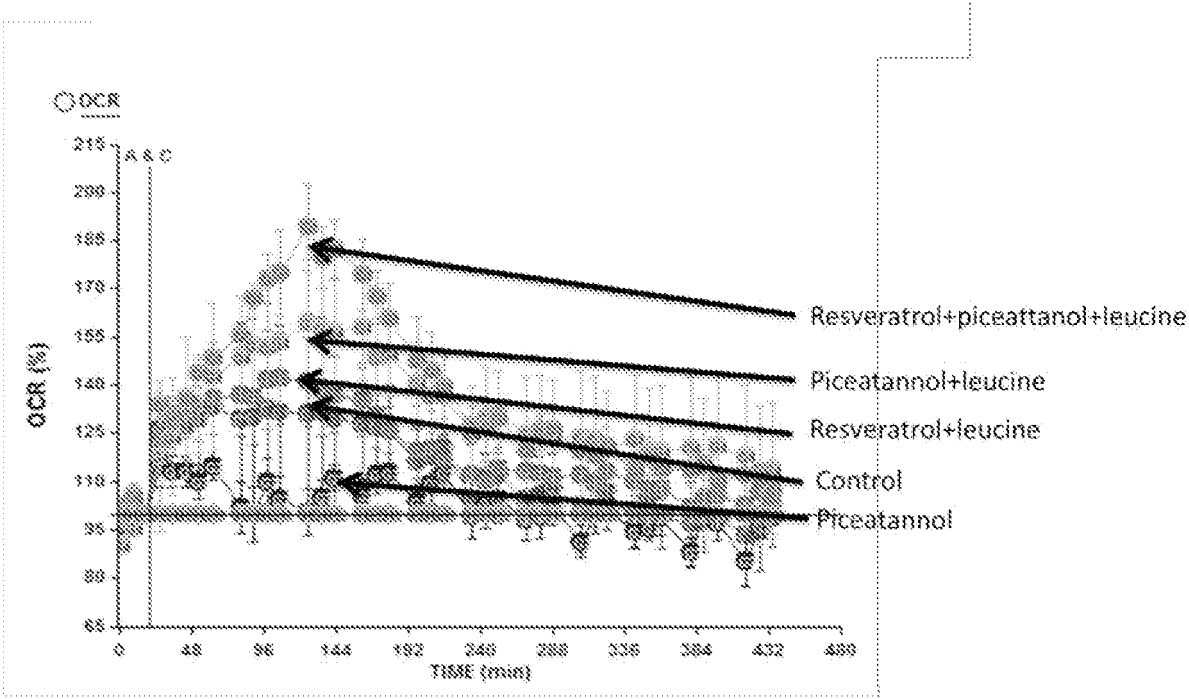


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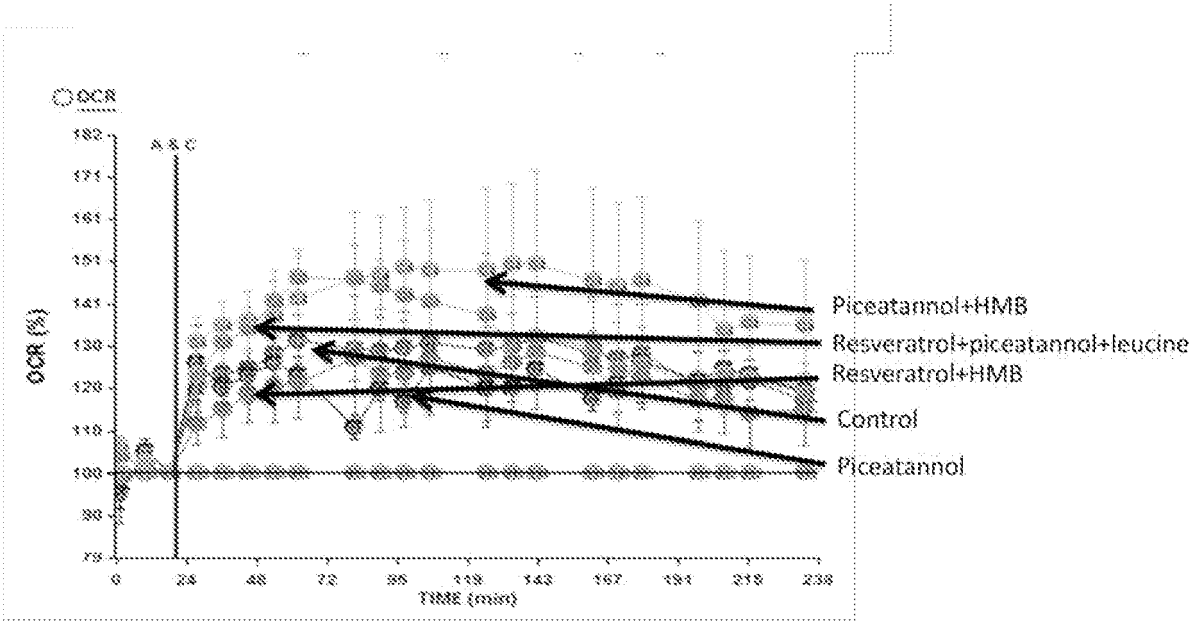


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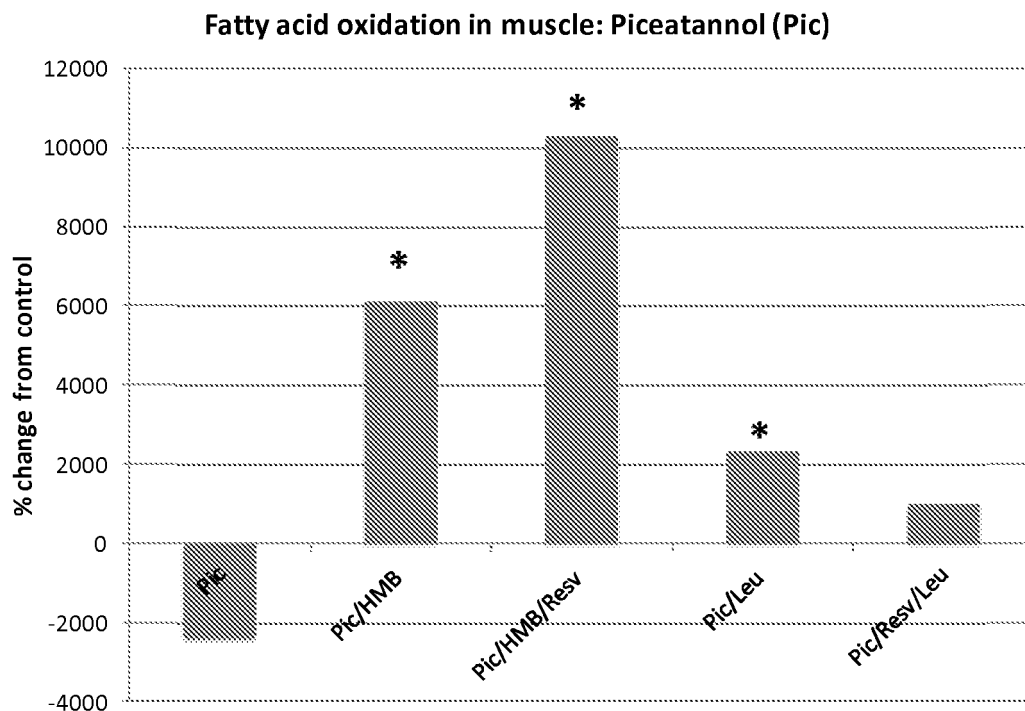


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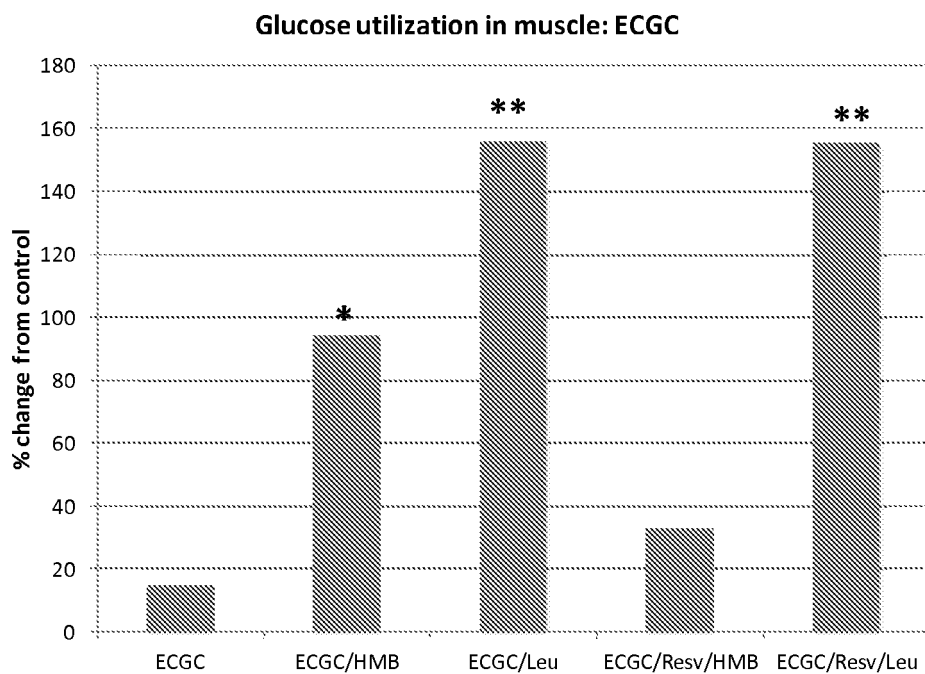


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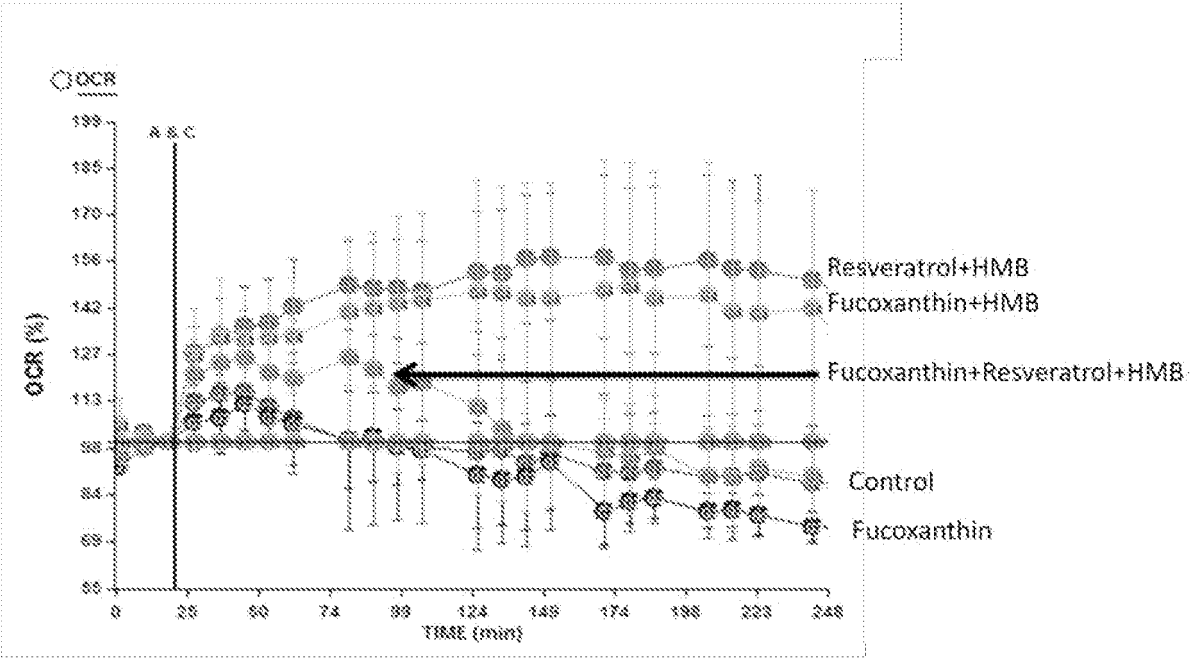


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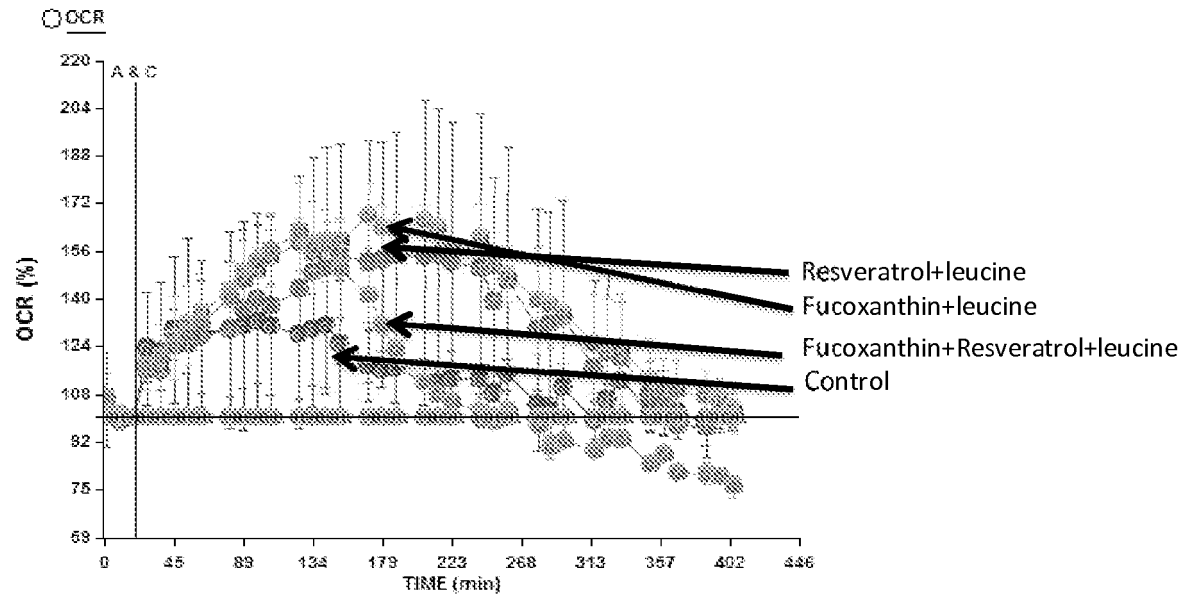


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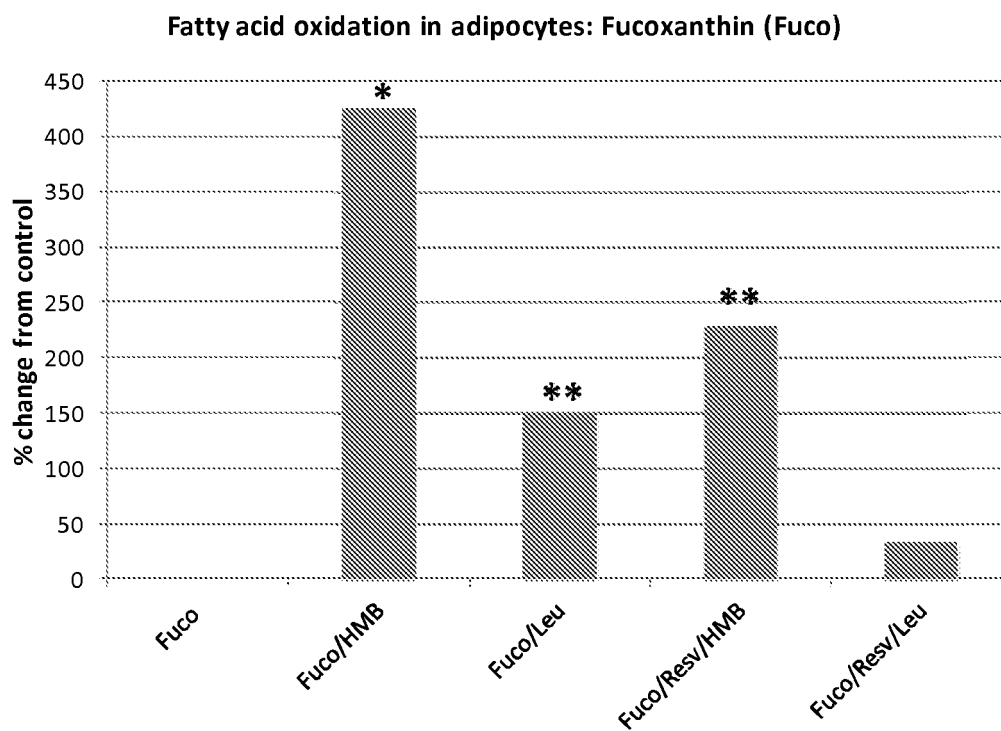


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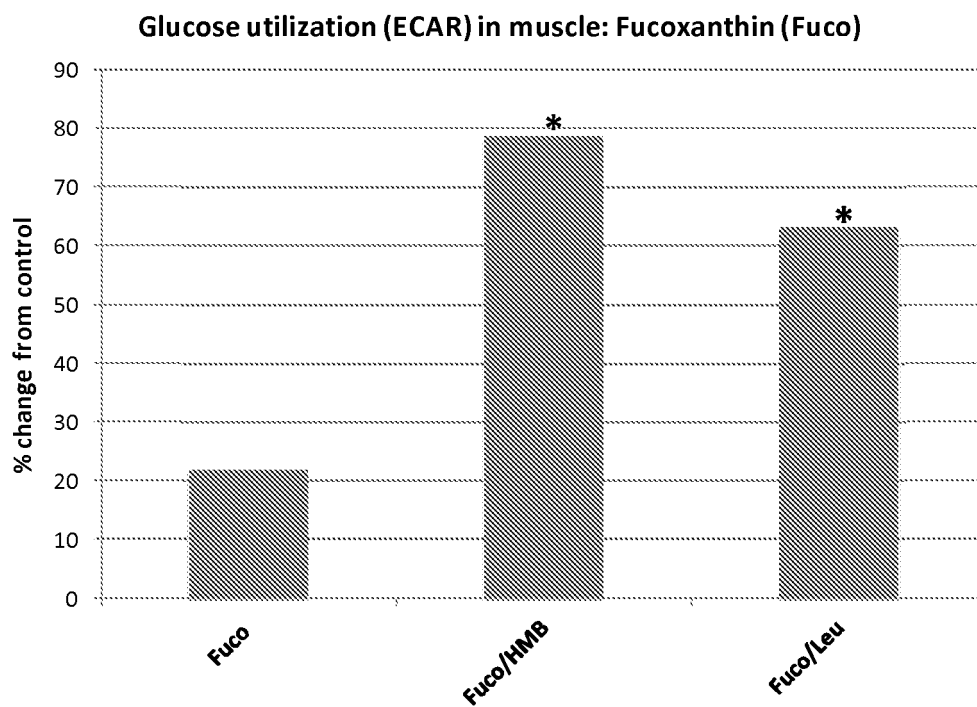


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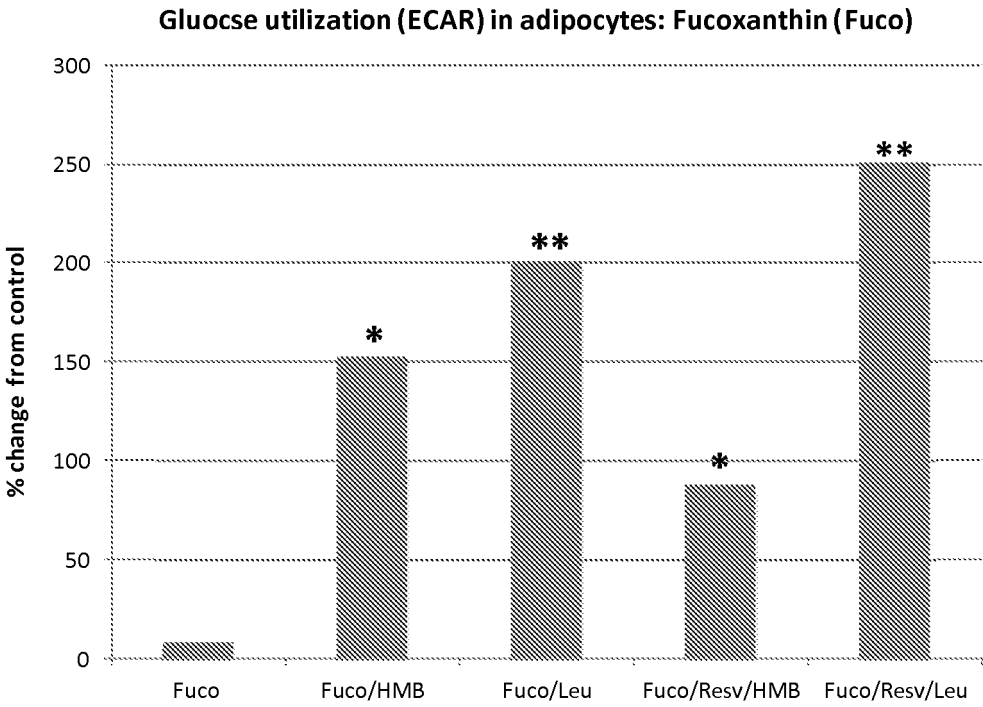


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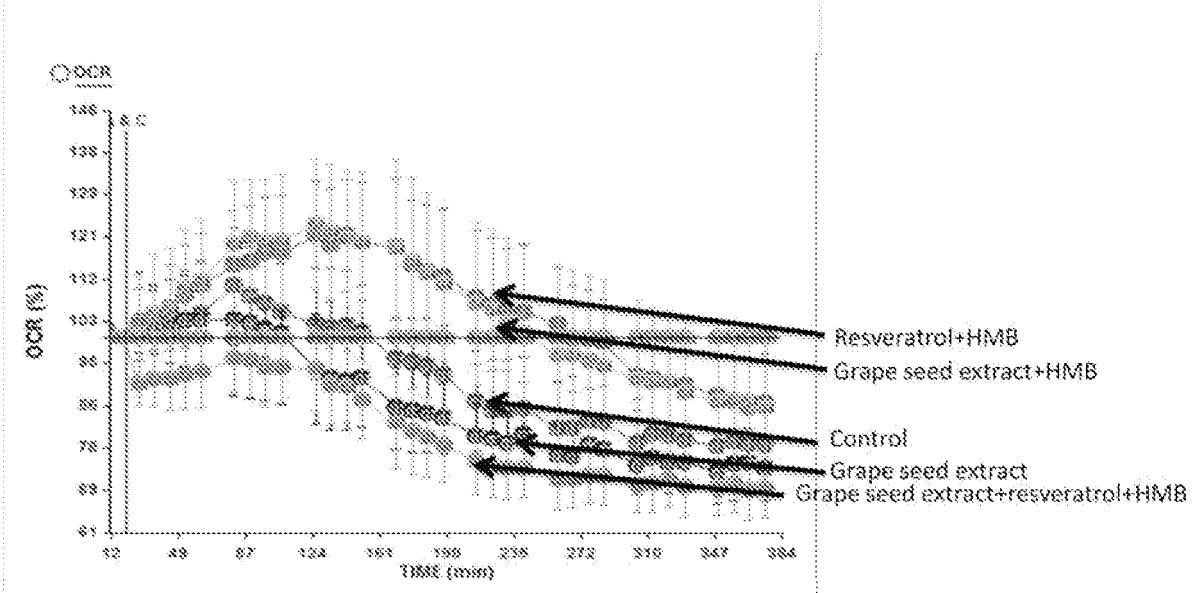
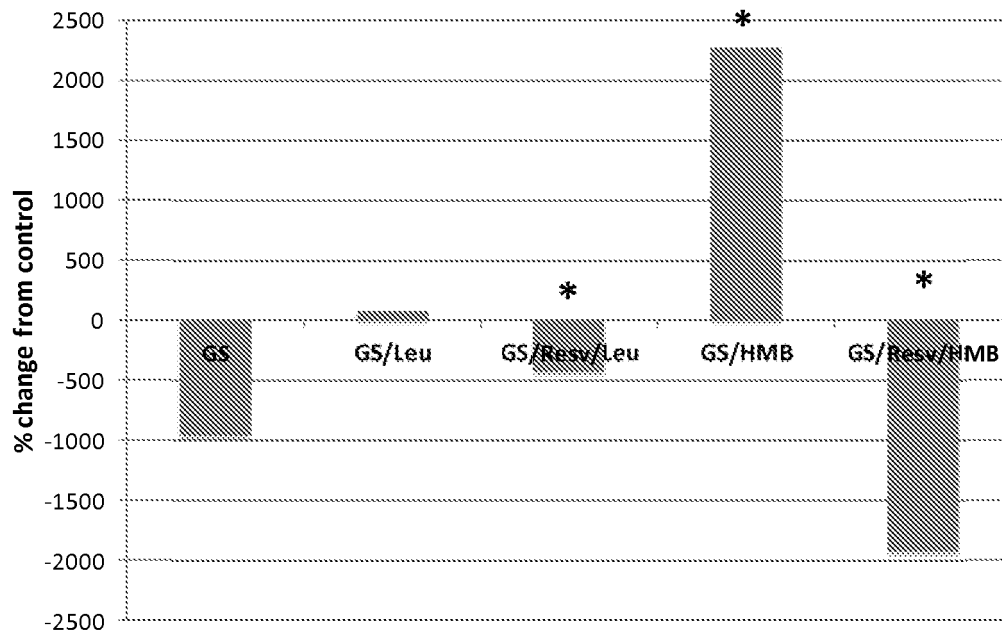
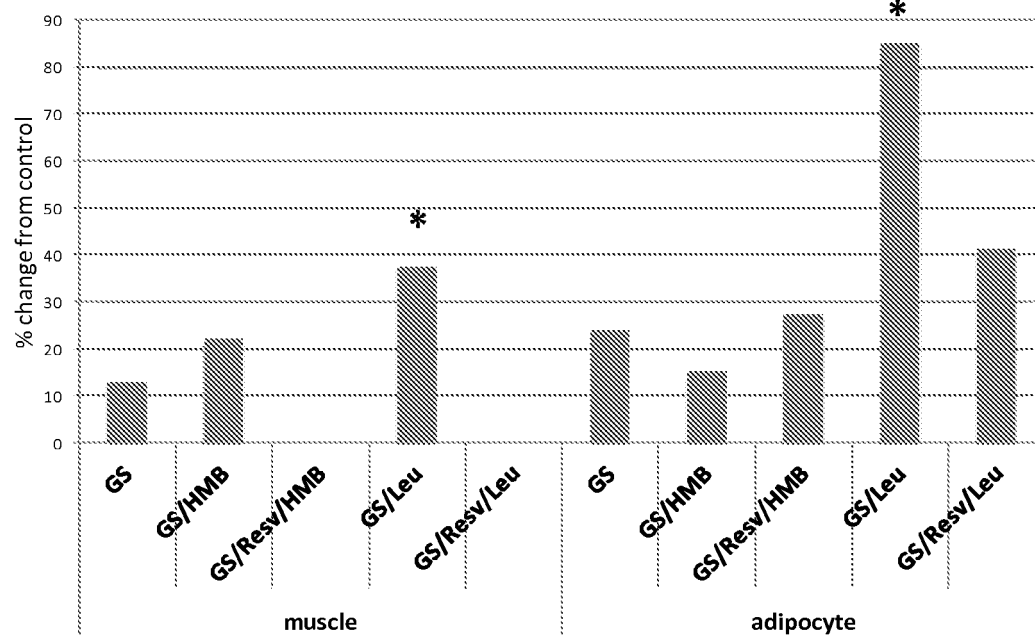


Figure 43

Fatty acid oxidation in adipocytes: Grape Seed Extract (GS)**Figure 44****AMPK activity Grape Seed Extract (GS)****Figure 45**

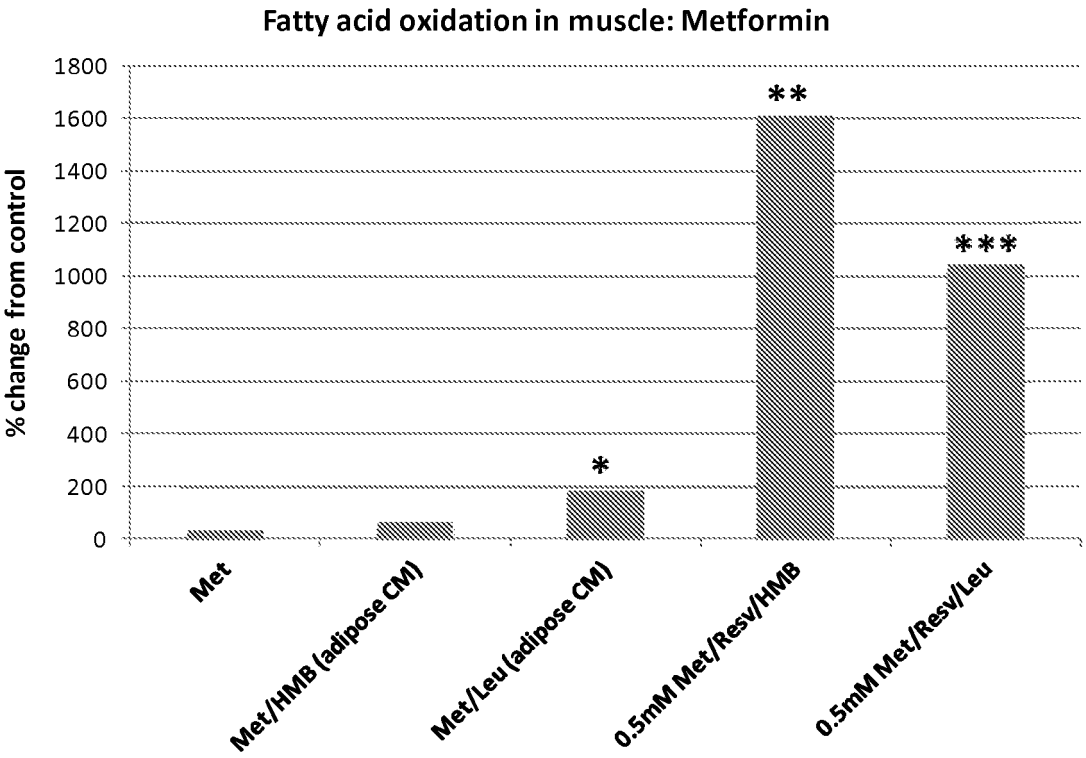


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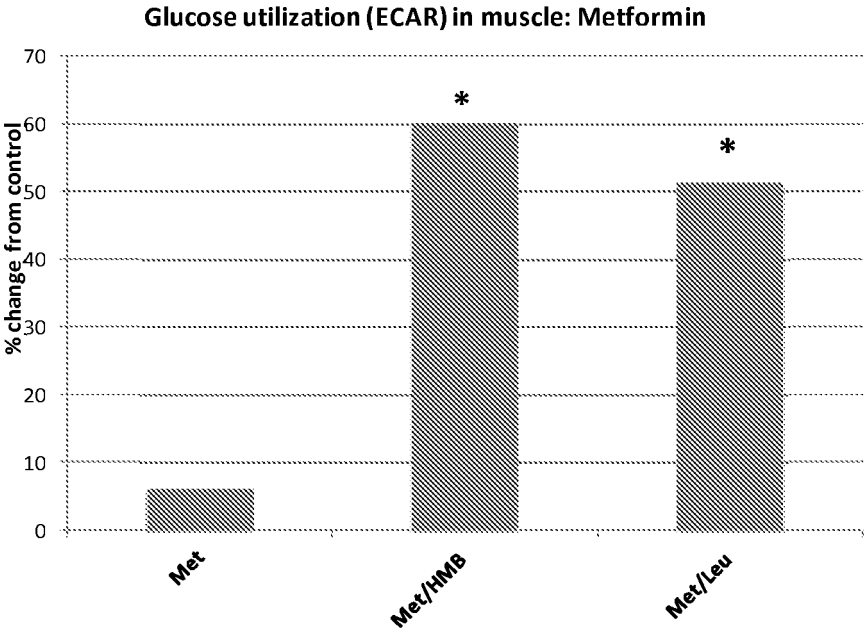


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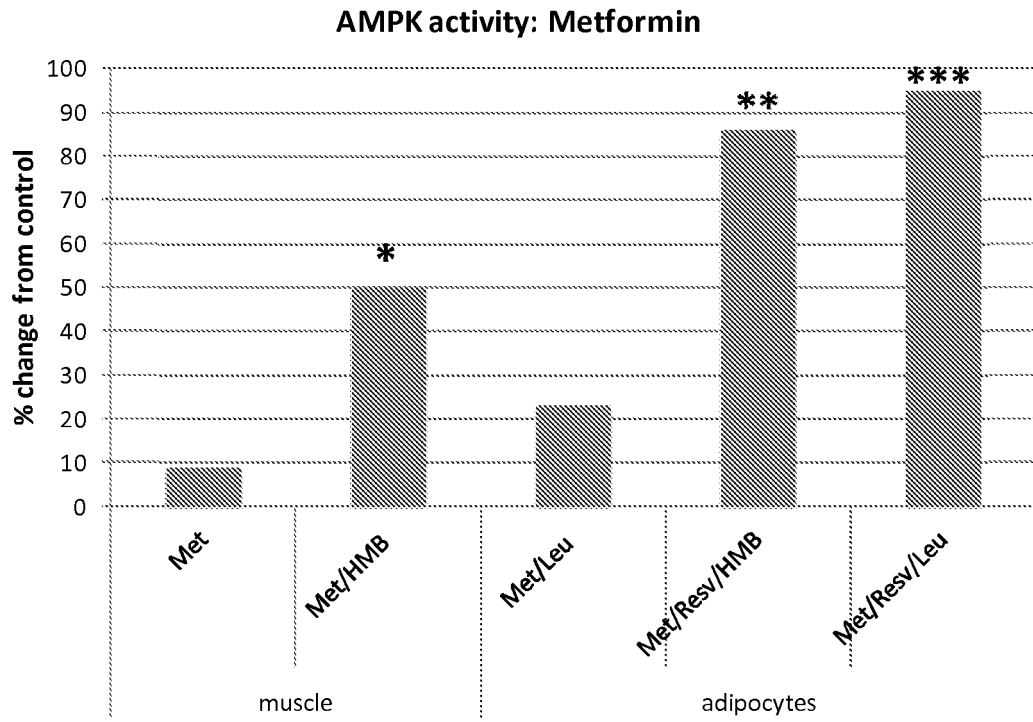


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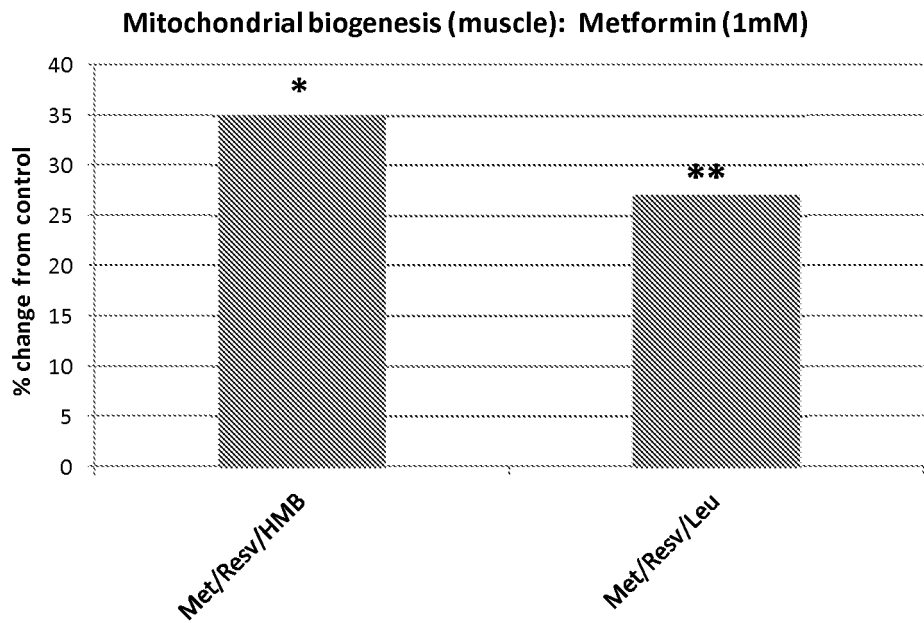


Figure 49

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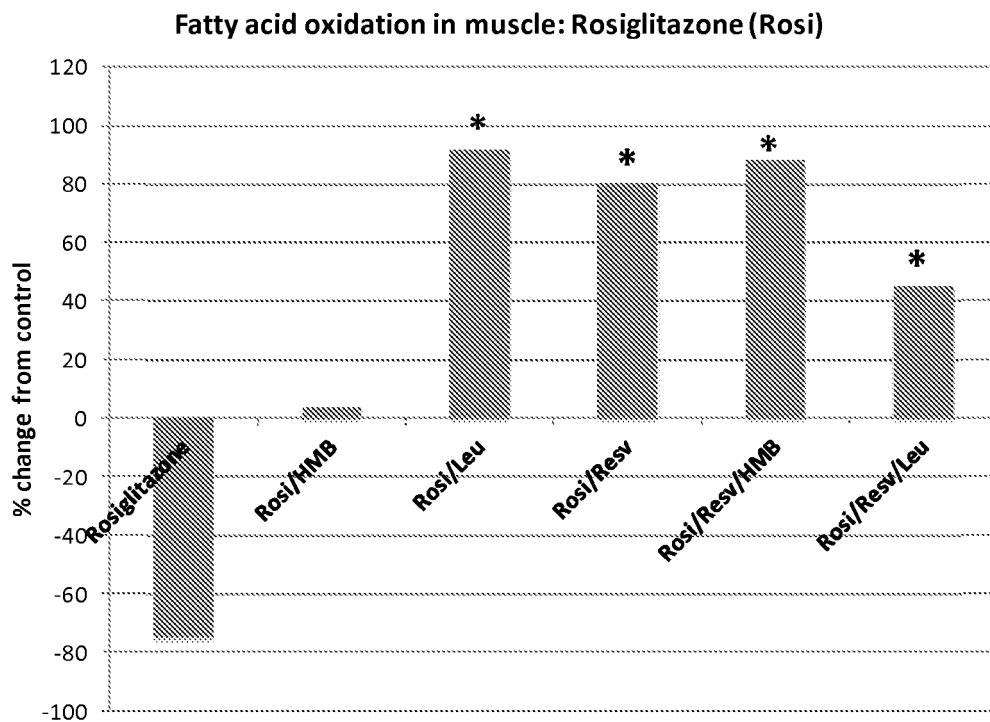


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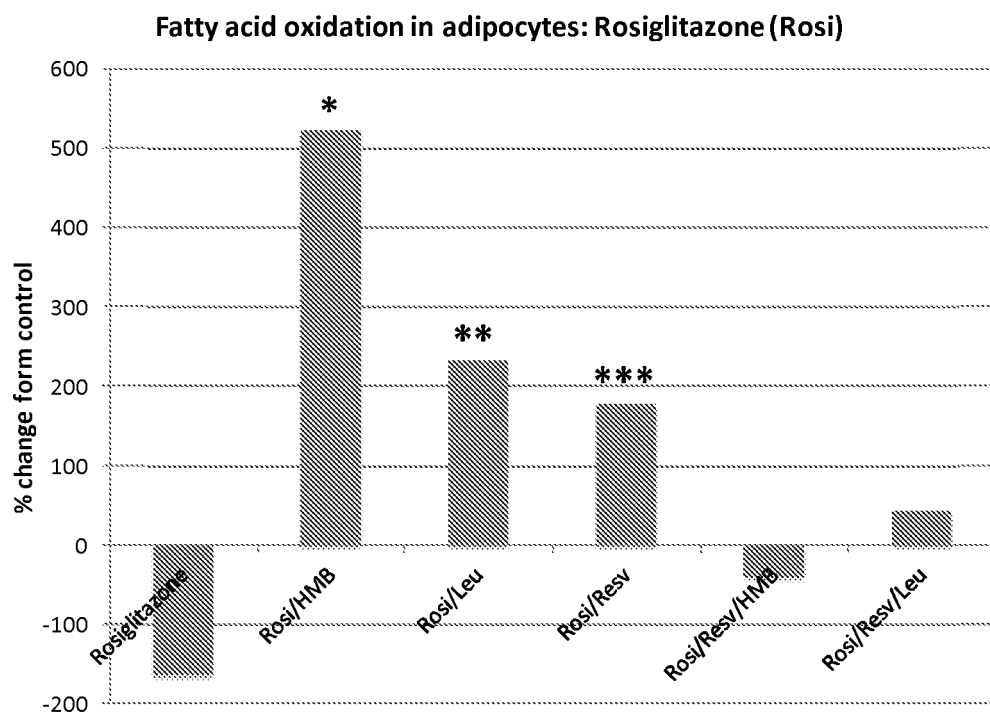


Figure 51

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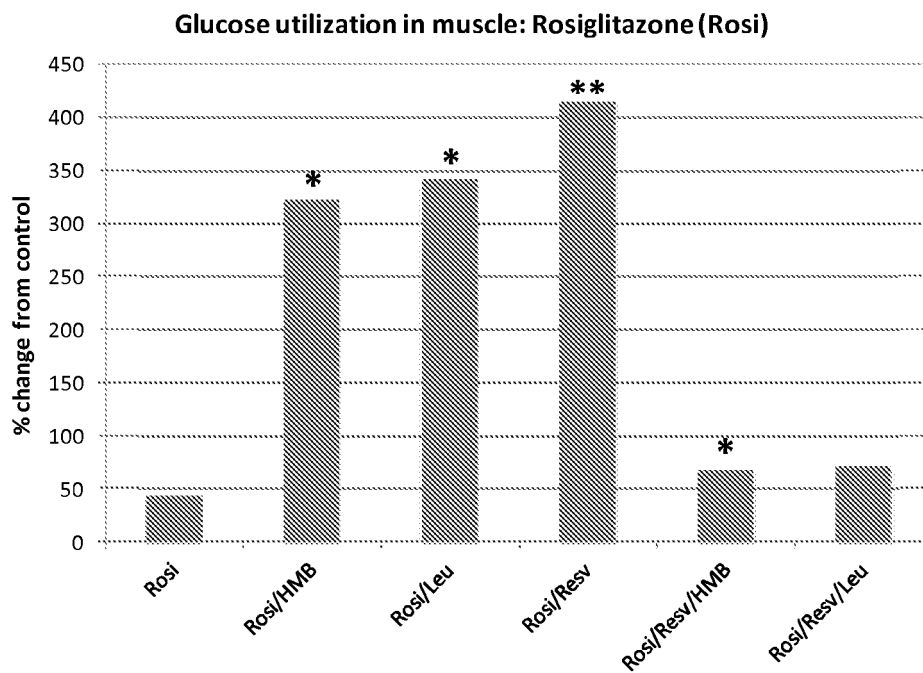


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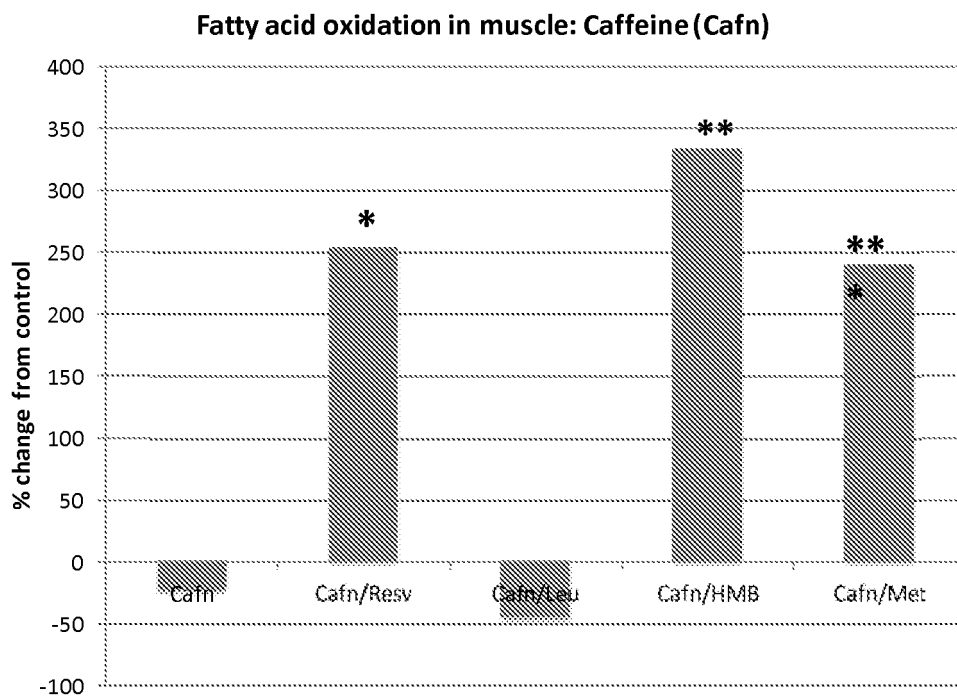


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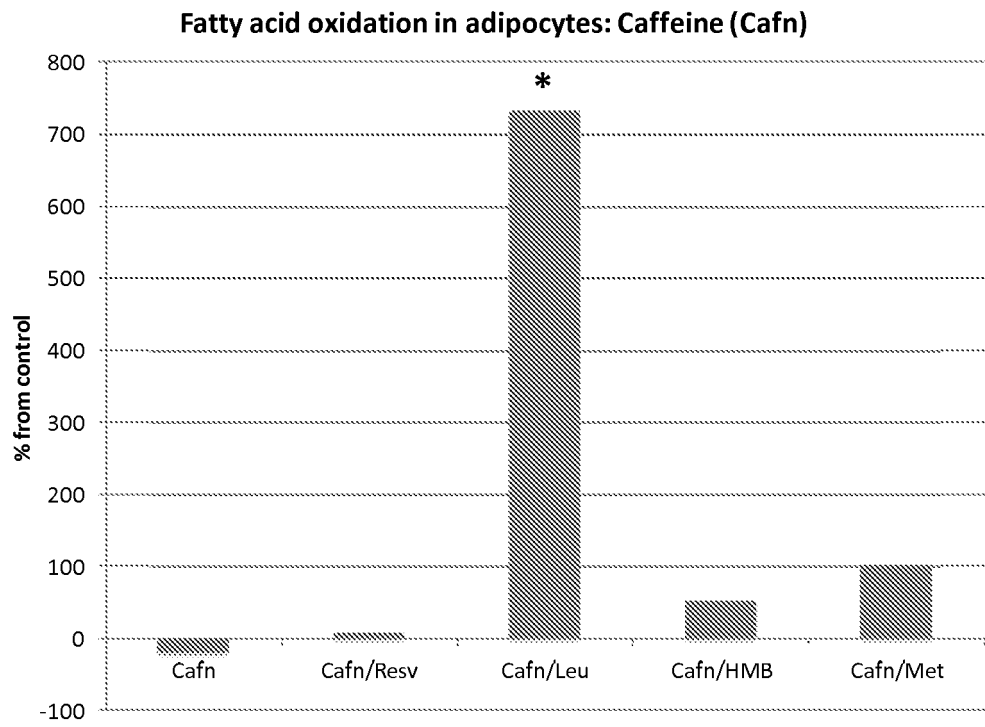


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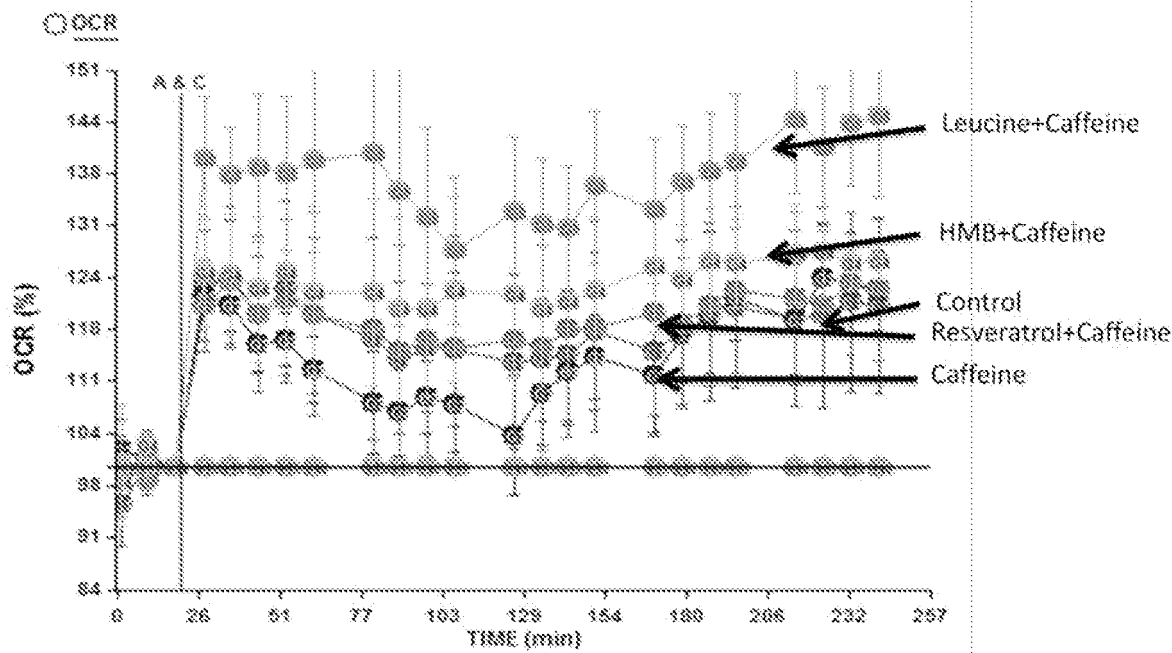


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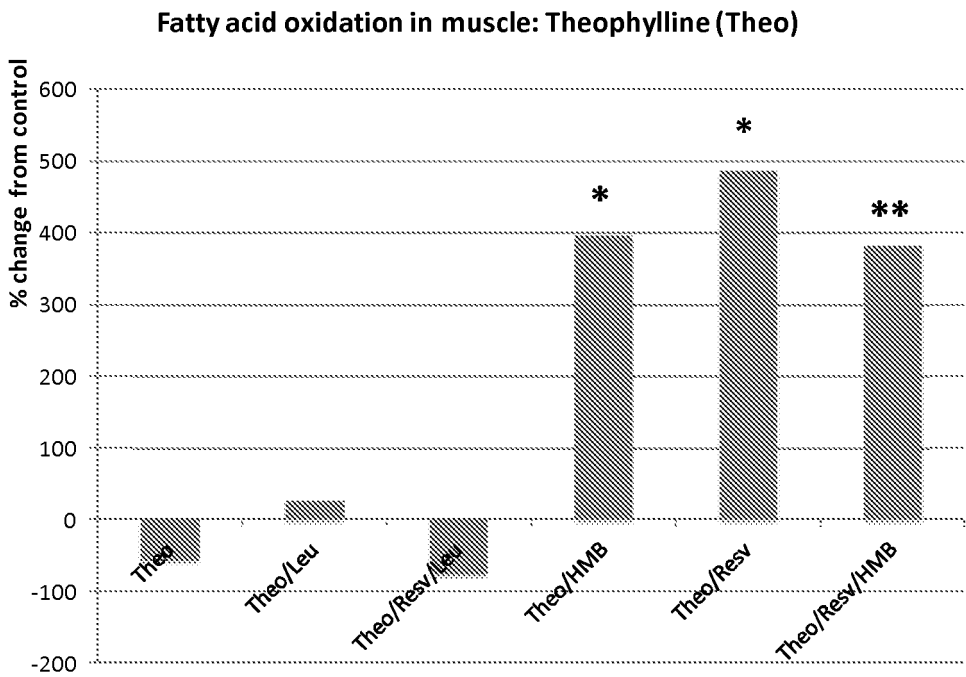


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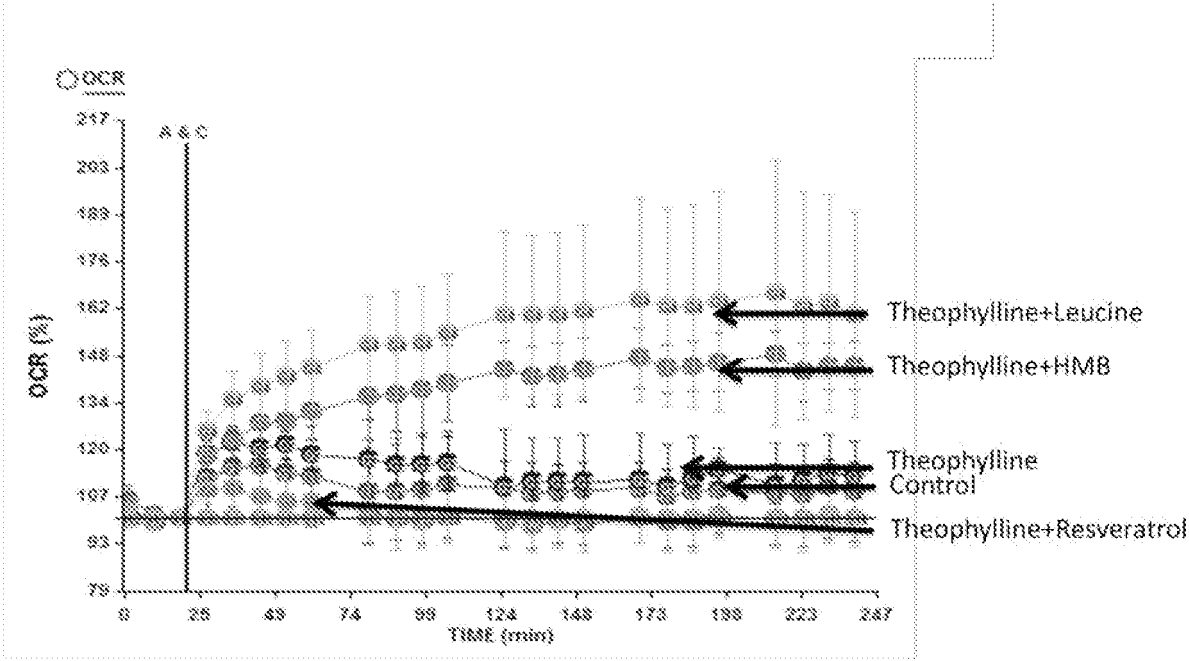


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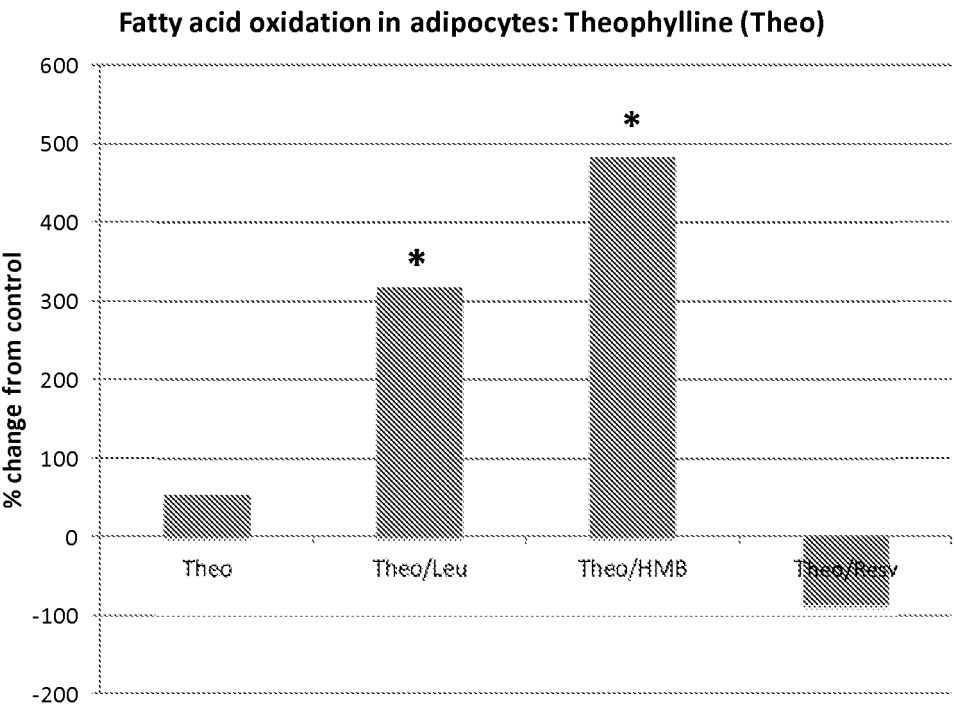


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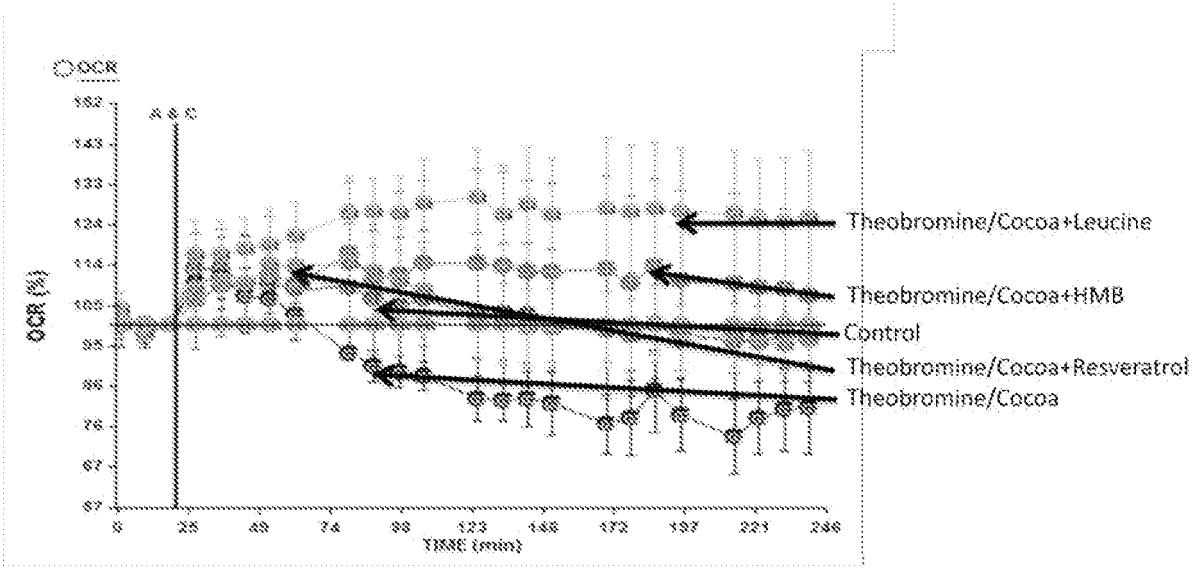
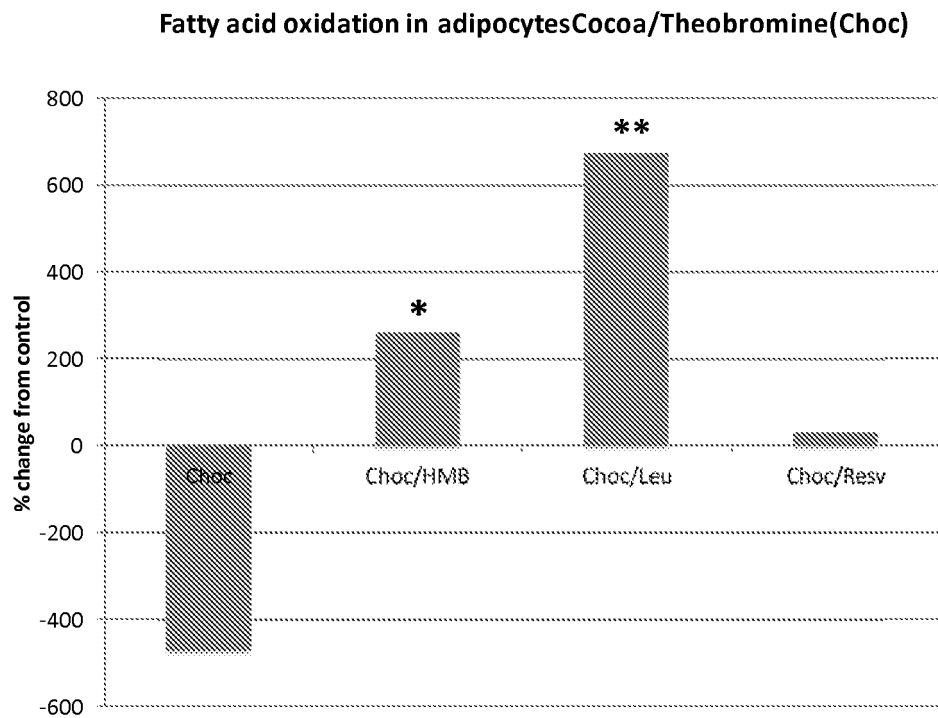
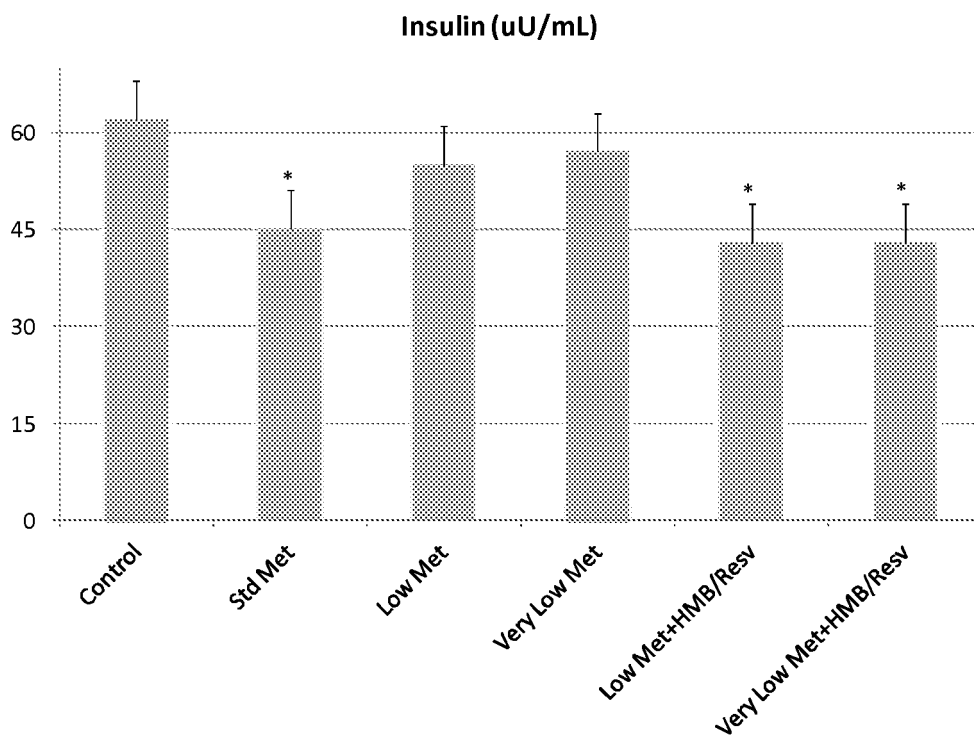


Figure 59

**Figure 60****Figure 61**

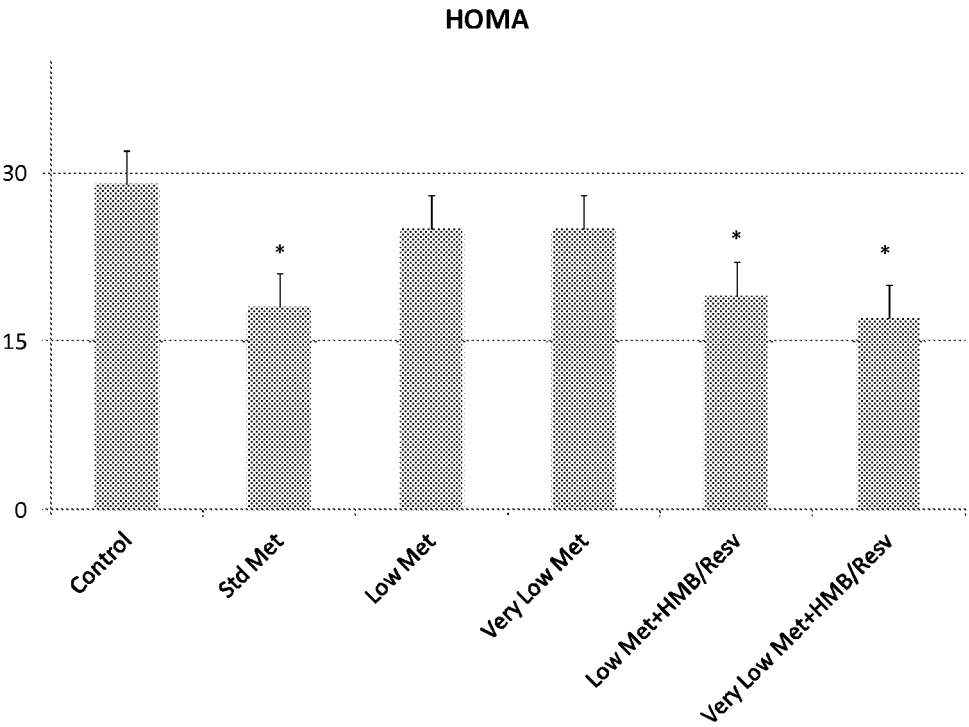


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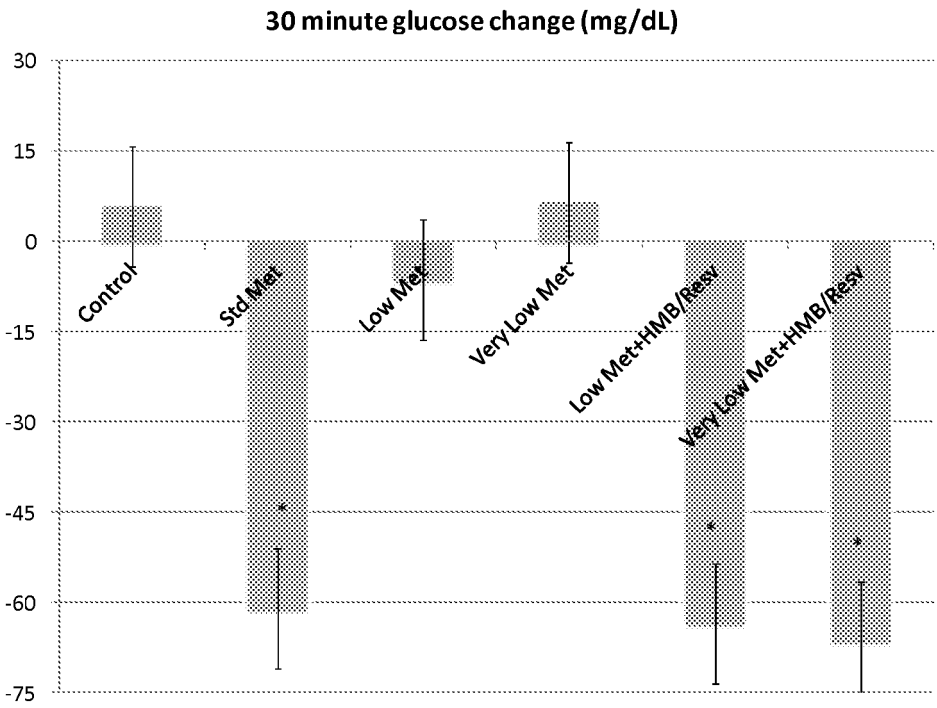


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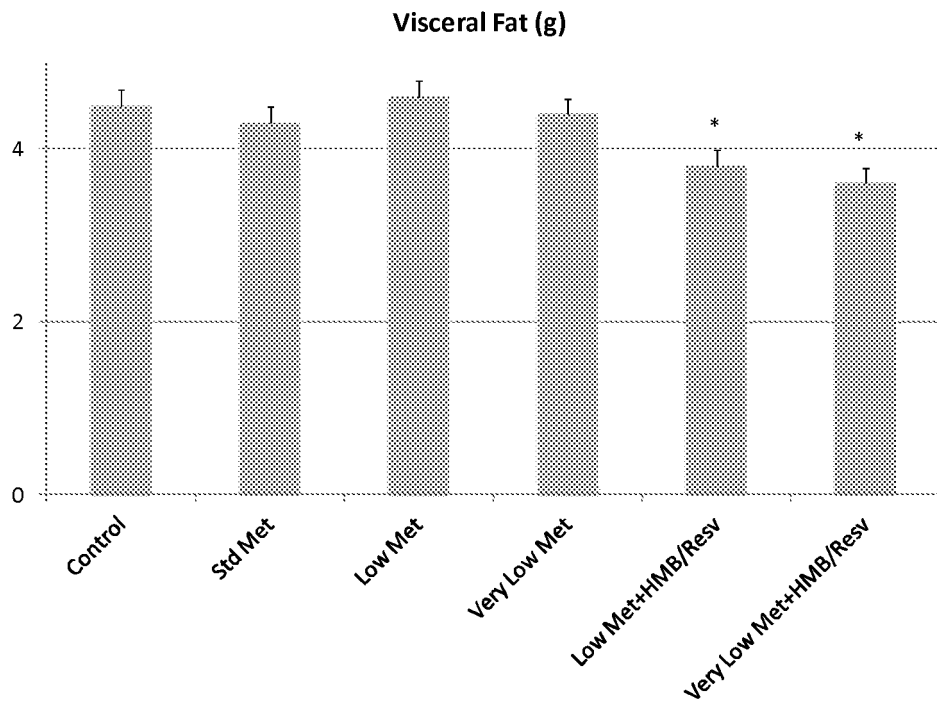


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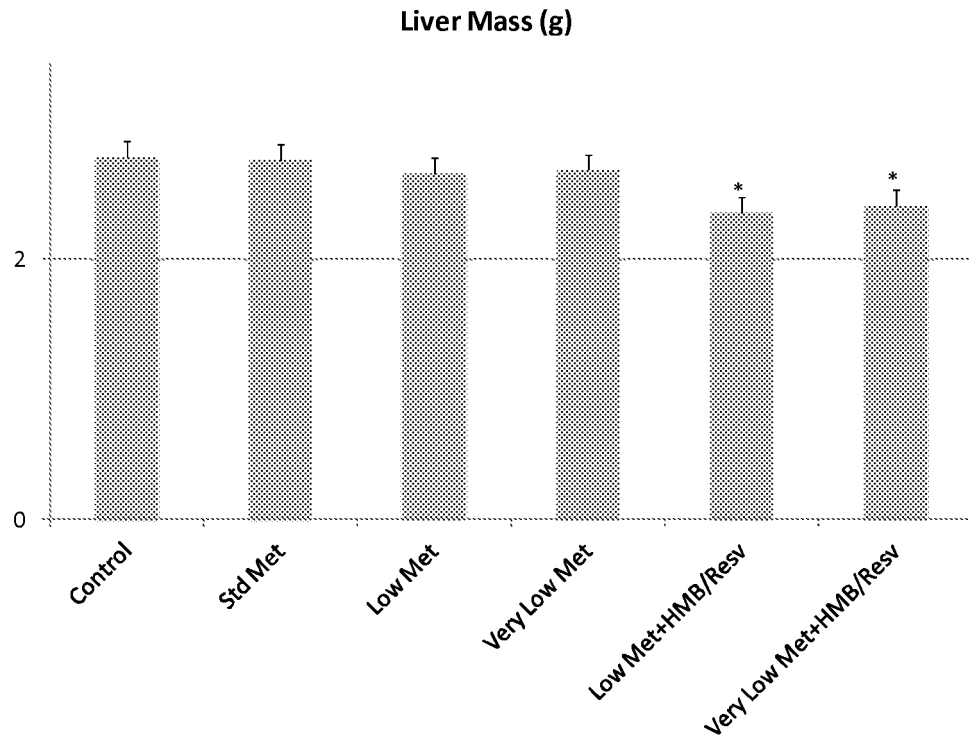


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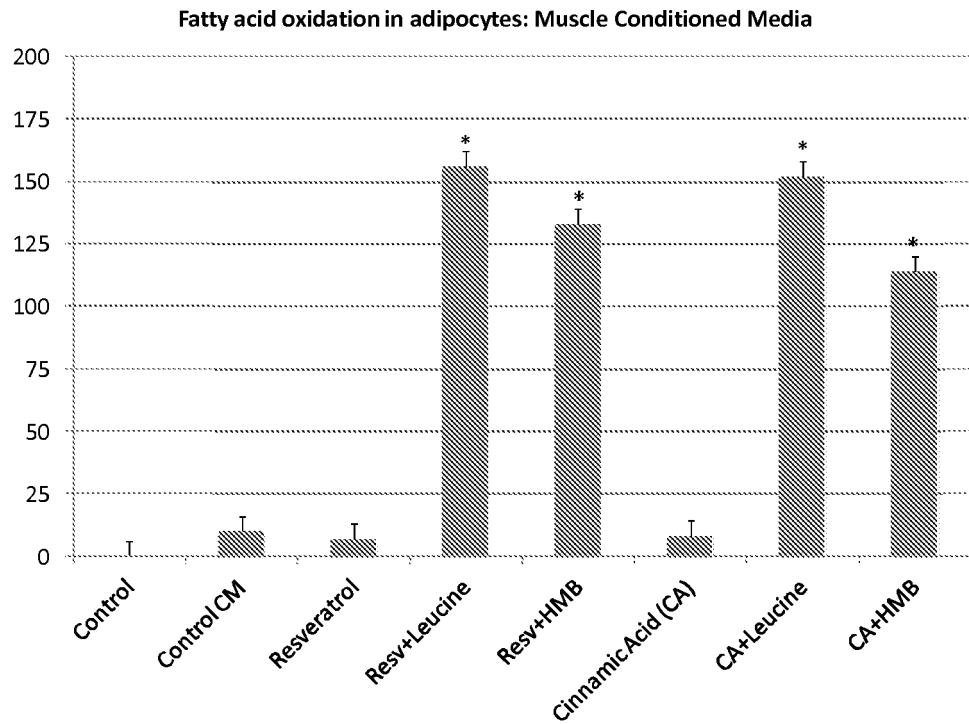


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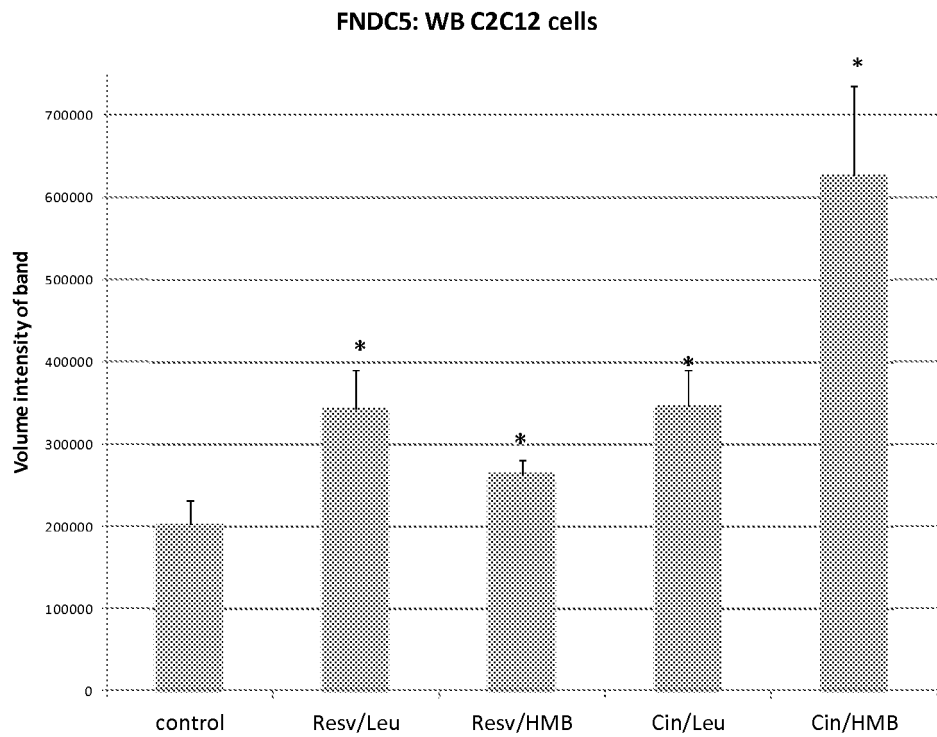


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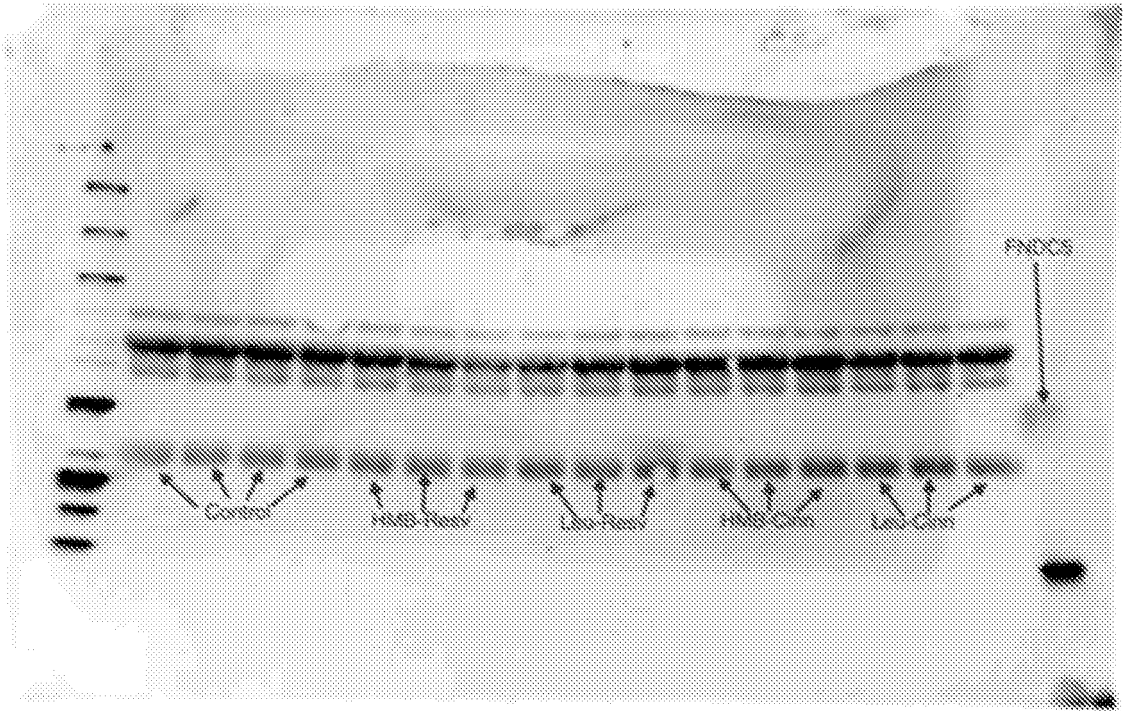


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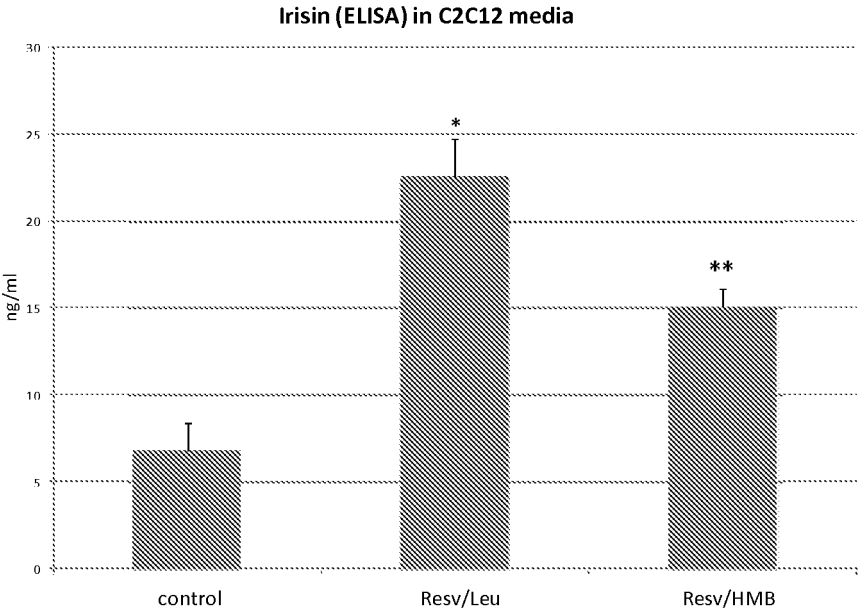


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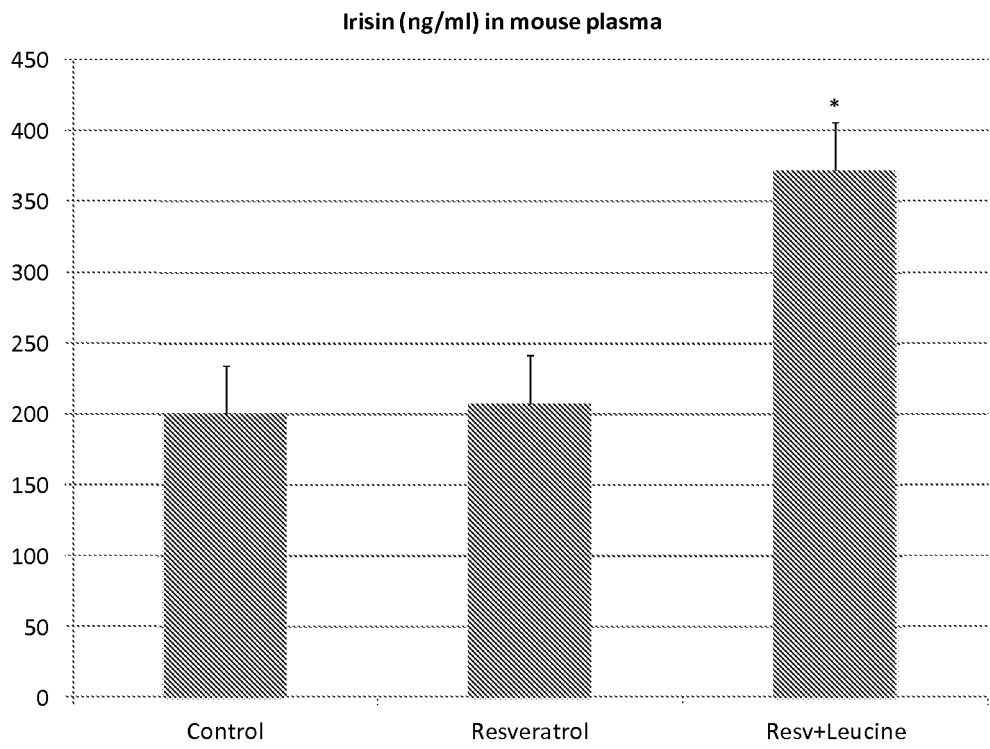


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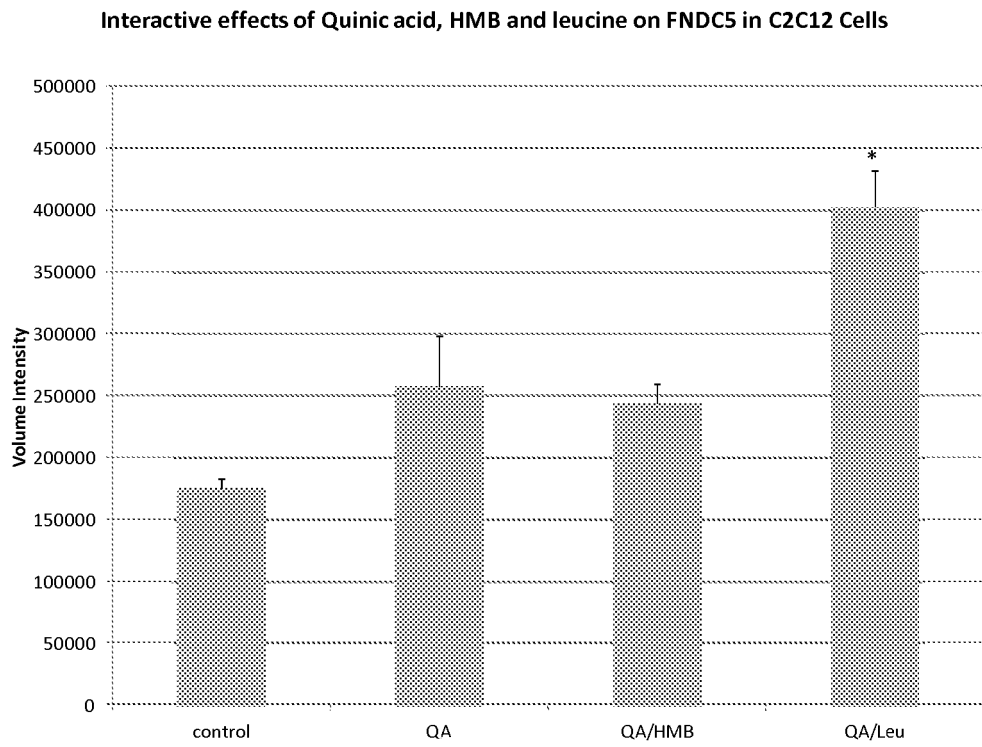


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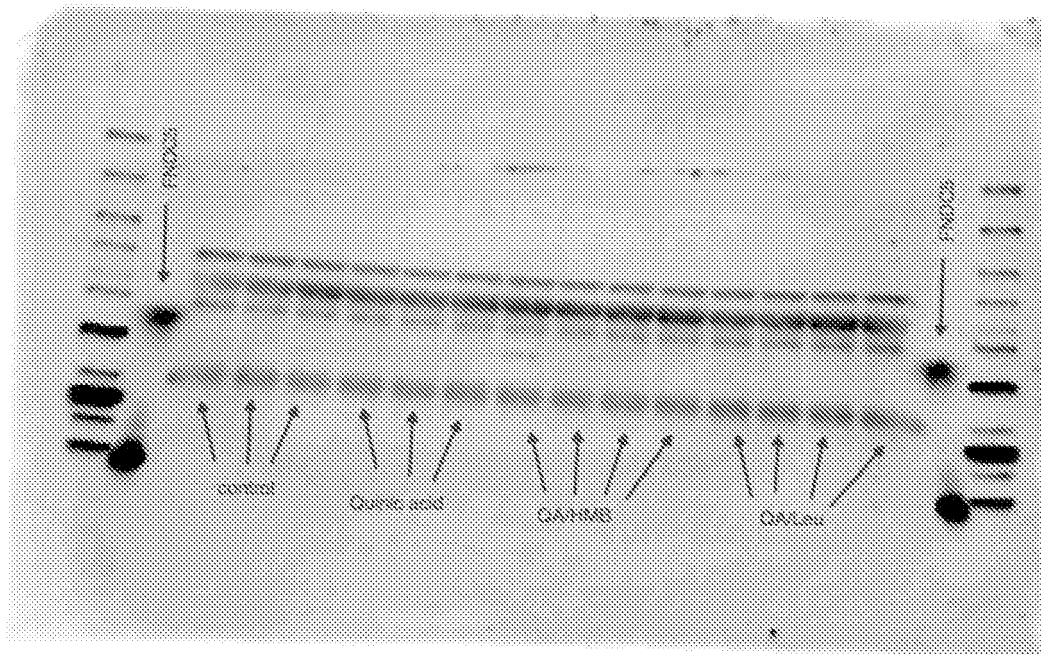


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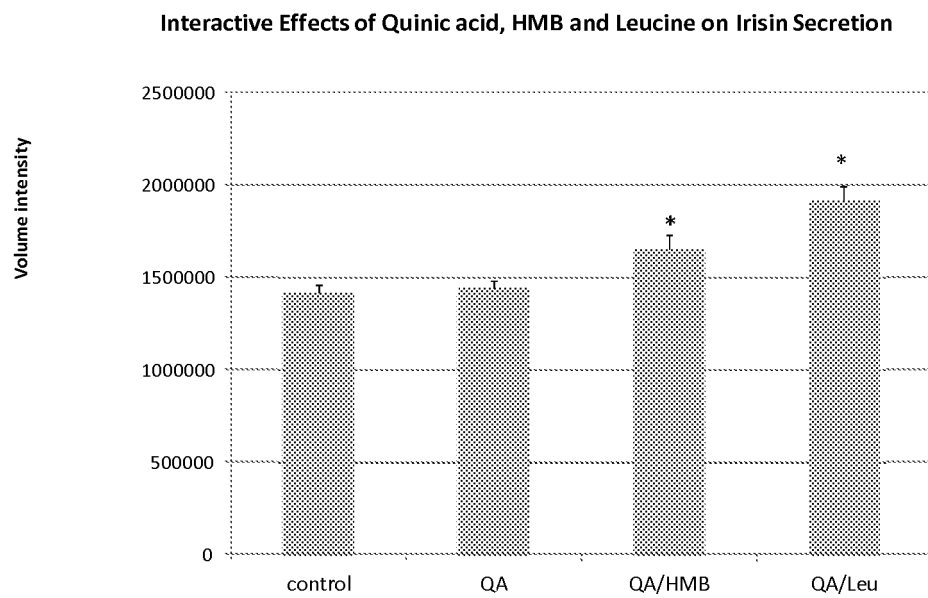


Figure 73

Synergistic effects of Caffeine with Chlorogenic Acid, Leucine and HMB on Irisin Secretion

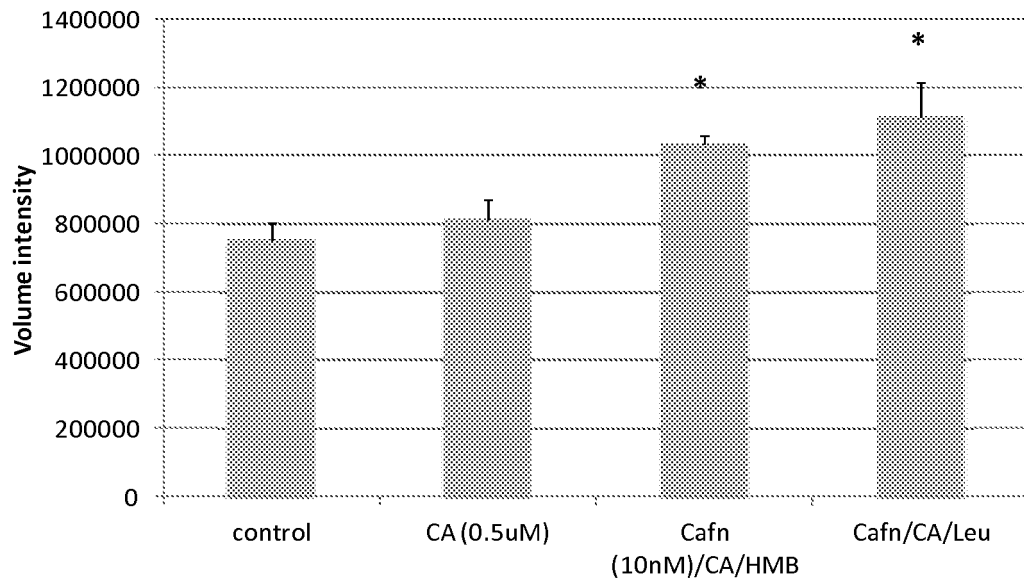


Figure 74

UCP1 mRNA in Mouse Subcutaneous Adipose Tissue

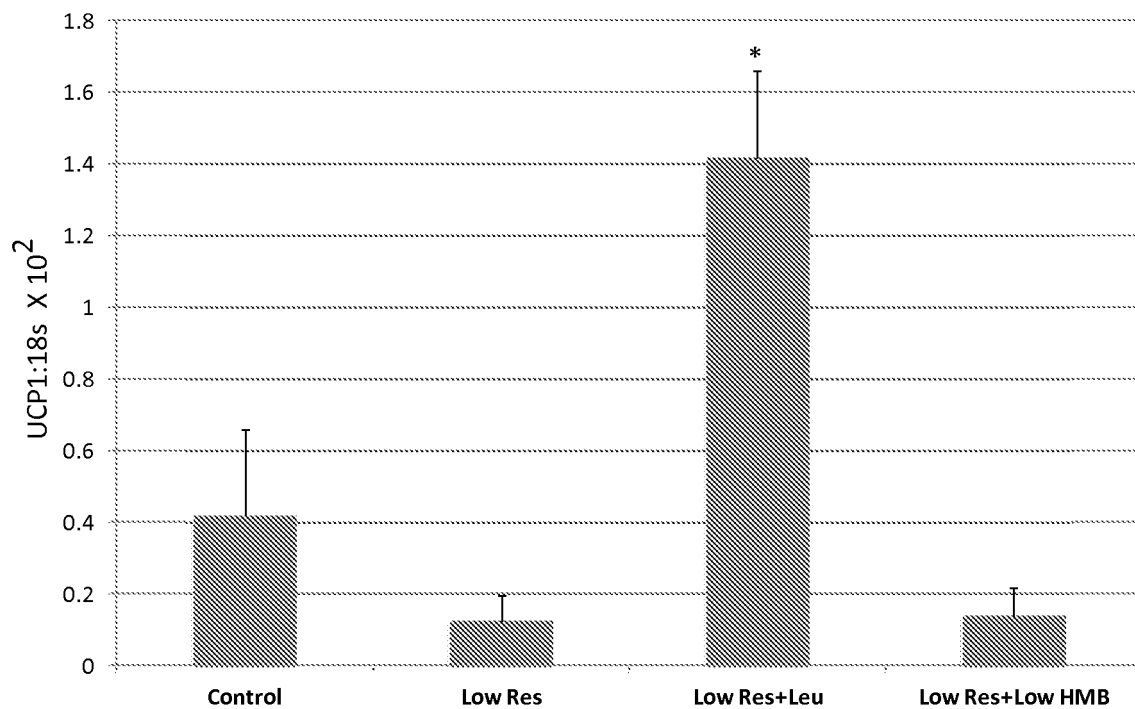
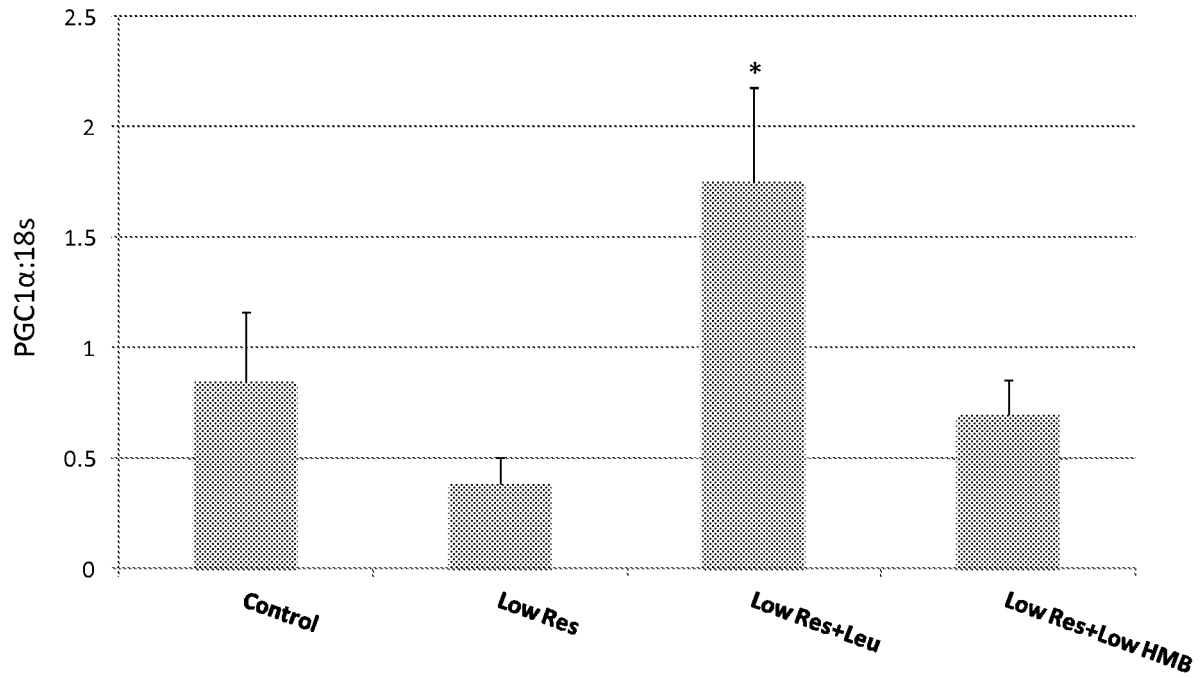


Figure 75

PGC1 α mRNA in Mouse Subcutaneous Adipose Tissue**Figure 76**