

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

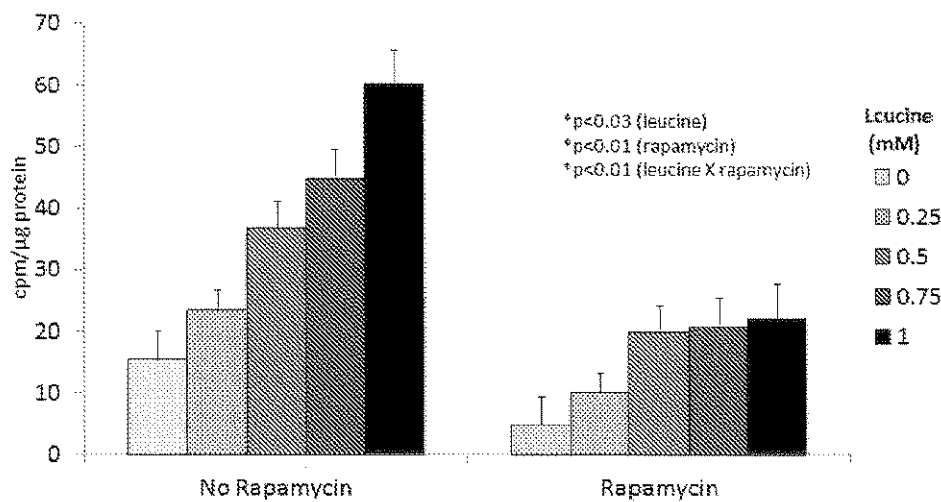


Figure 1

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

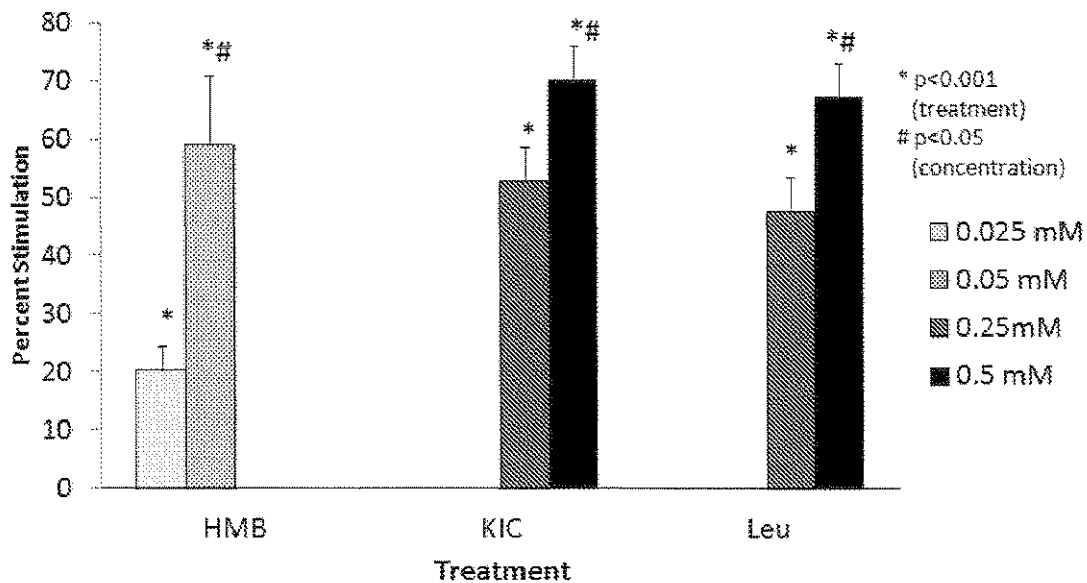


Figure 2

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

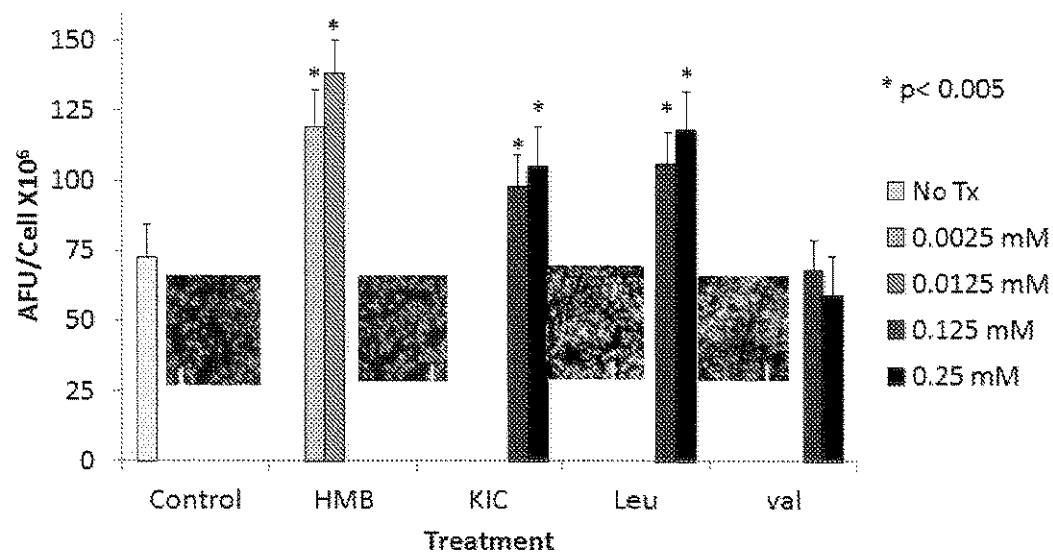


Figure 3

Expression of Mitochondrial Regulatory & Component Genes

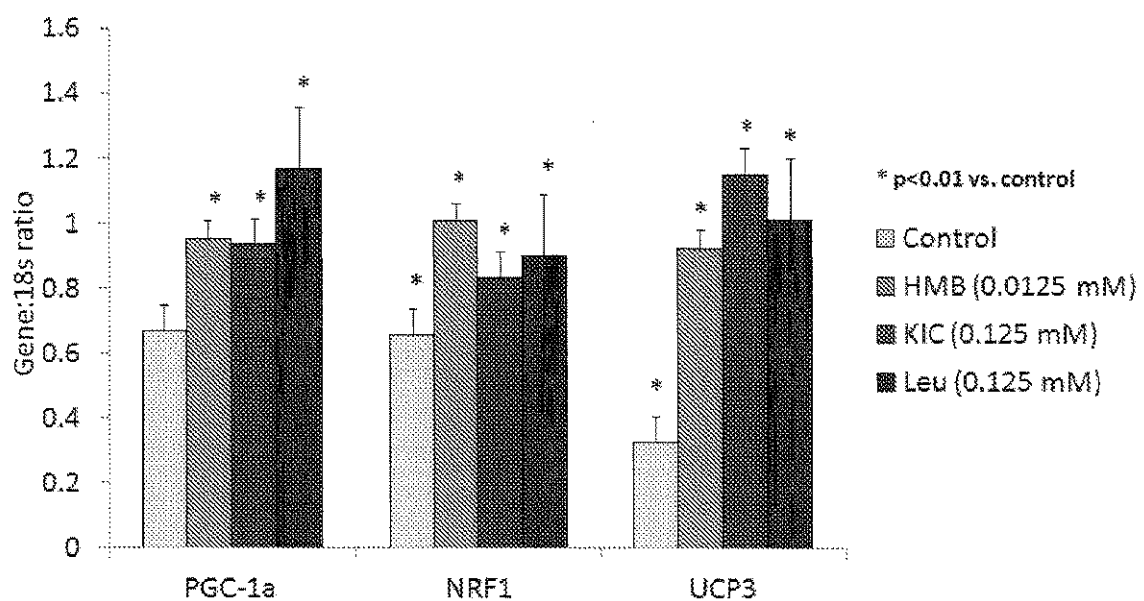


Figure 4

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SIRT1 activation by Leucine, KIC and HMB

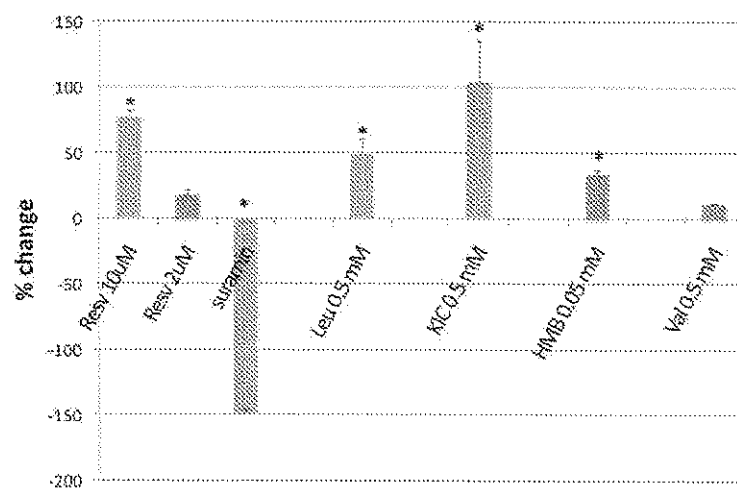
* Significant different from control, $p < 0.05$, $n = 4-6$

Figure 5

HMB-Resveratrol Synergy in Activation of SIRT3

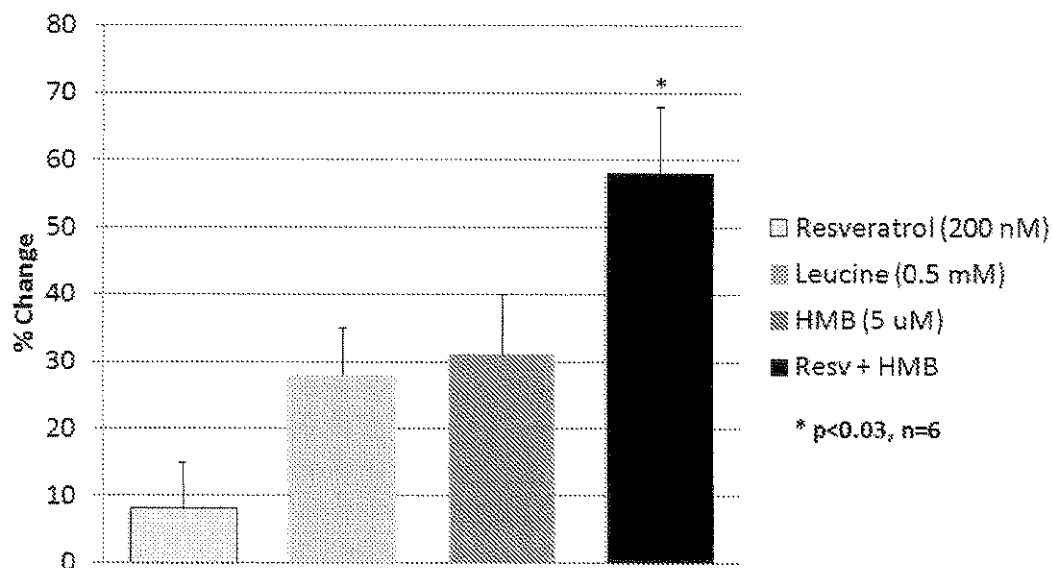
* $p < 0.03$, $n = 6$

Figure 6

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

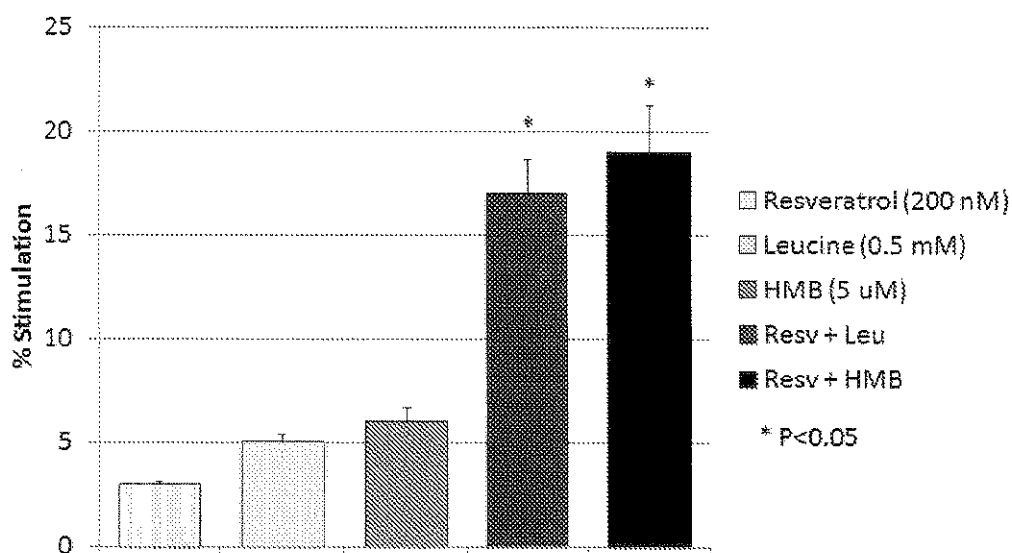


Figure 7

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

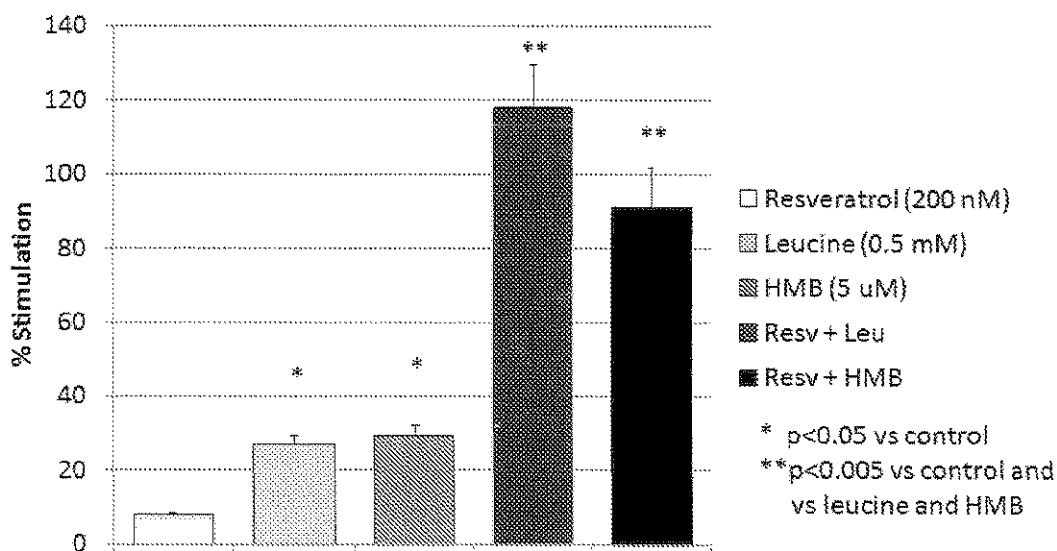


Figure 8

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Resveratrol-HMB synergy in glucose uptake using FDG-PET

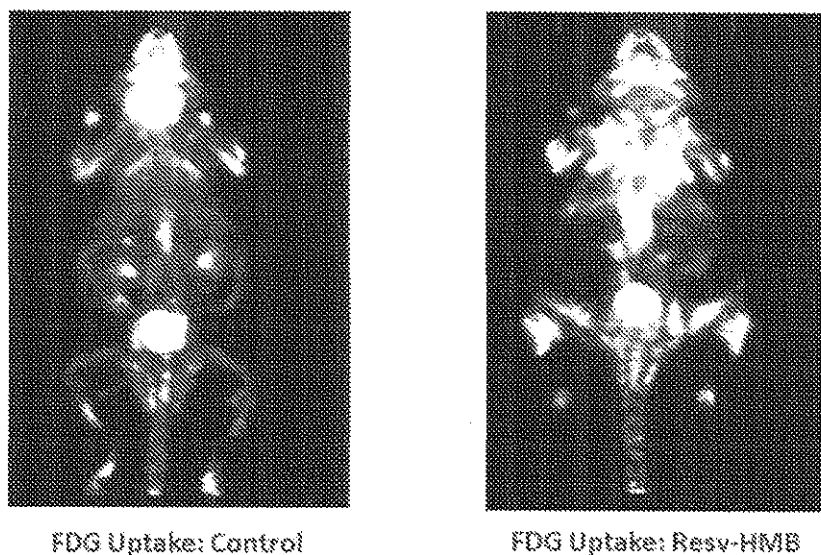


Figure 9

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

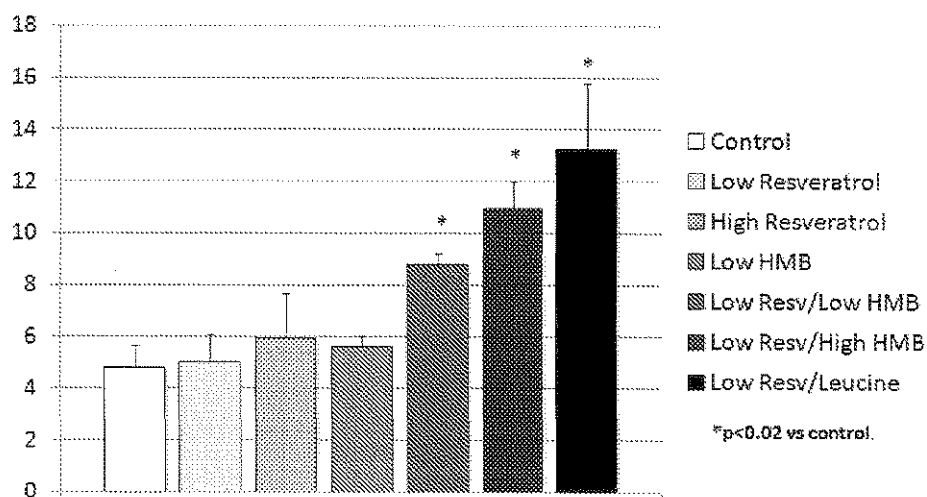


Figure 10

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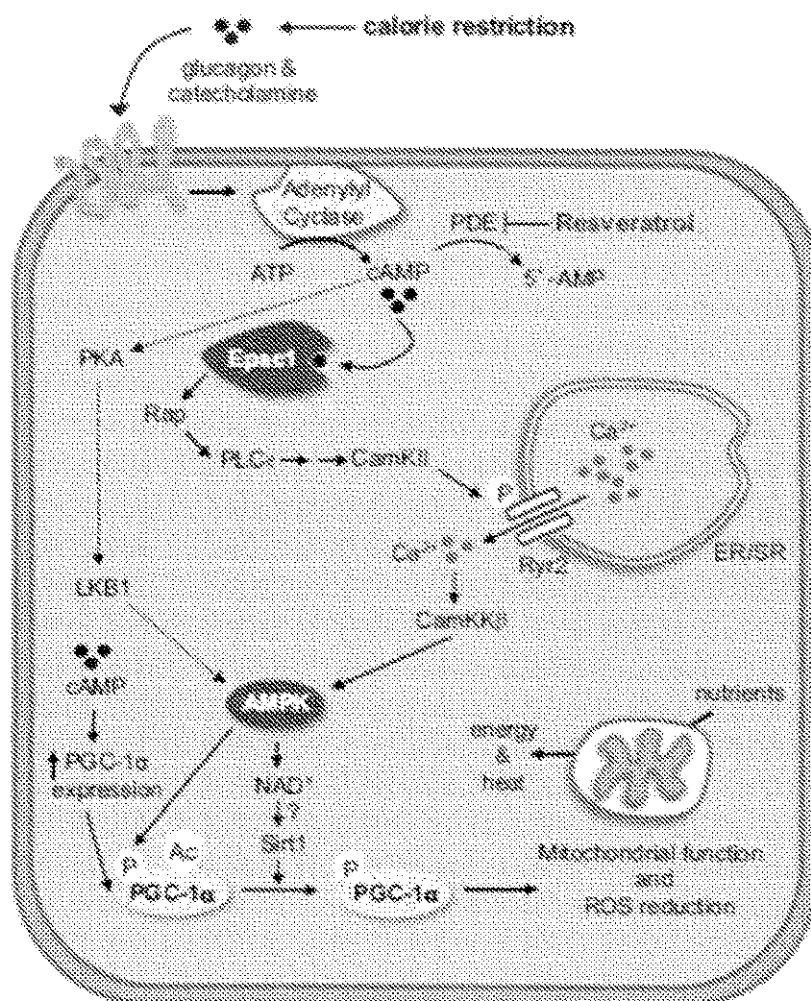


Figure 11

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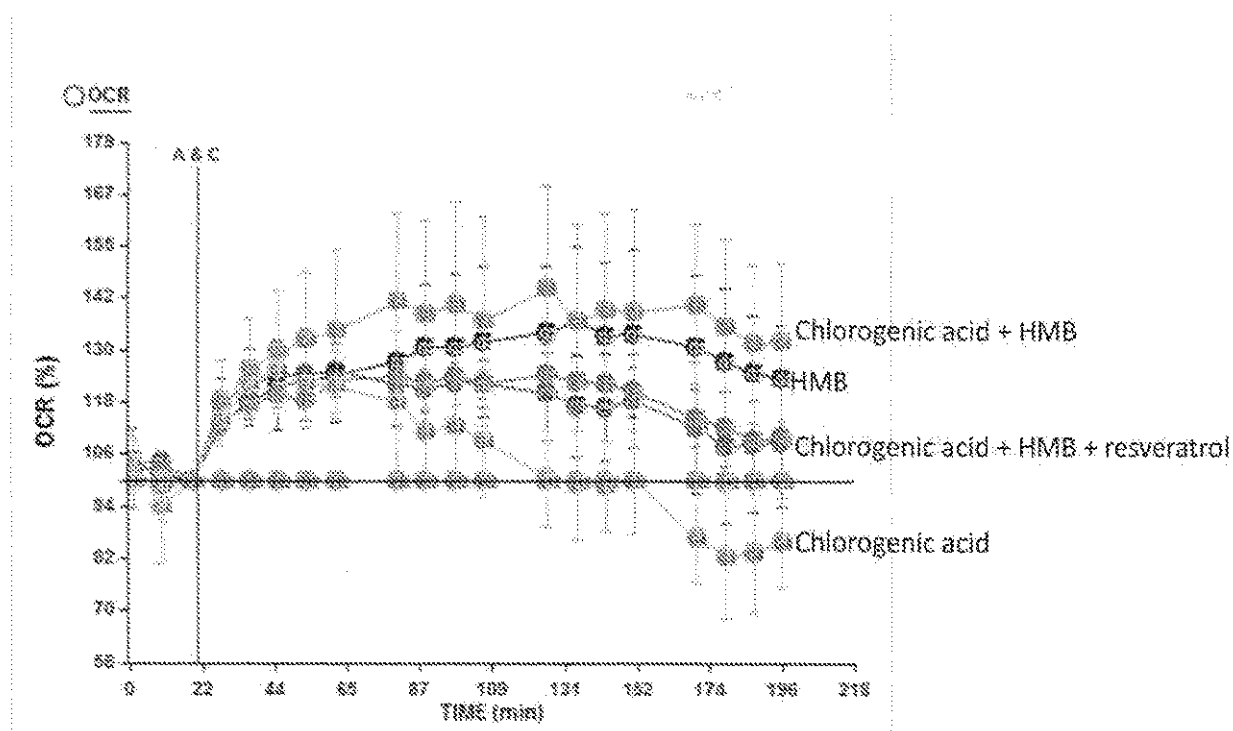


Figure 12

Fatty acid oxidation Chlorogenic acid (CA),

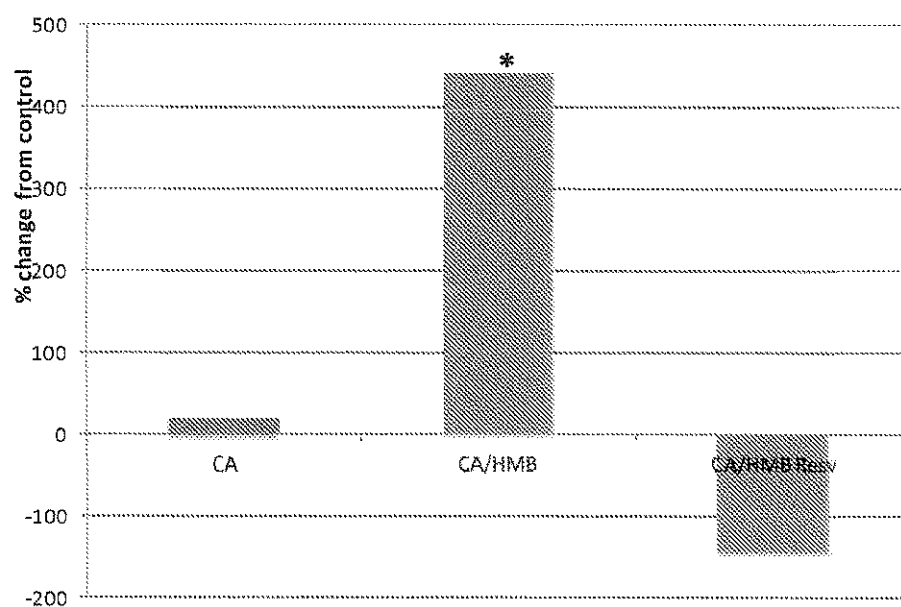
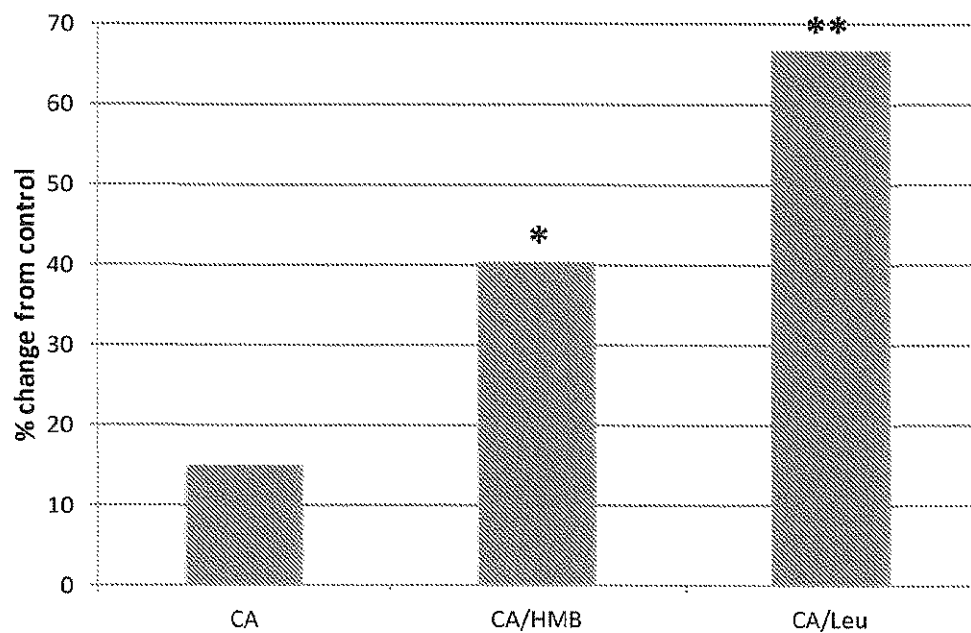
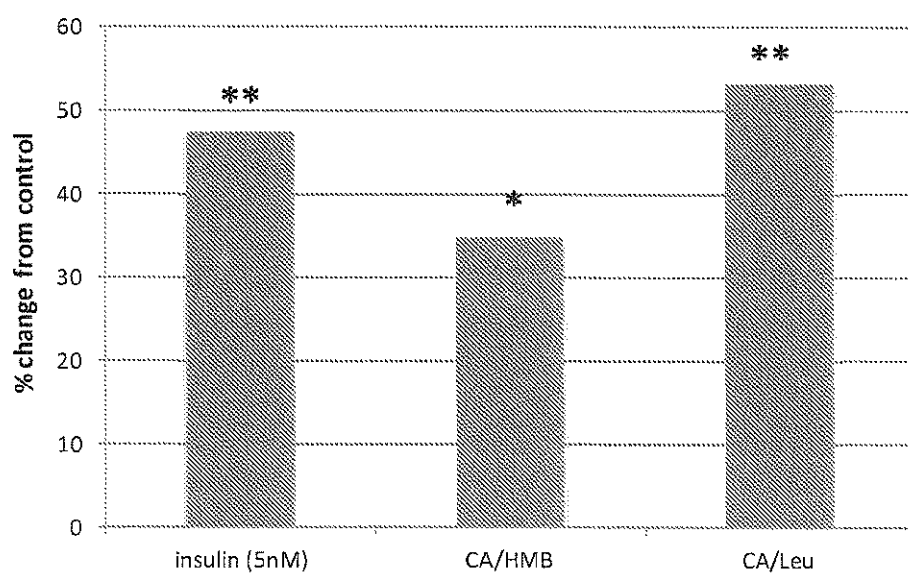


Figure 13

Sirt1 activity in adipocytes: Chlorogenic acid (CA)**Figure 14****Glucose Utilization (ECAR) in adipocytes: Chlorogenic acid (CA)****Figure 15**

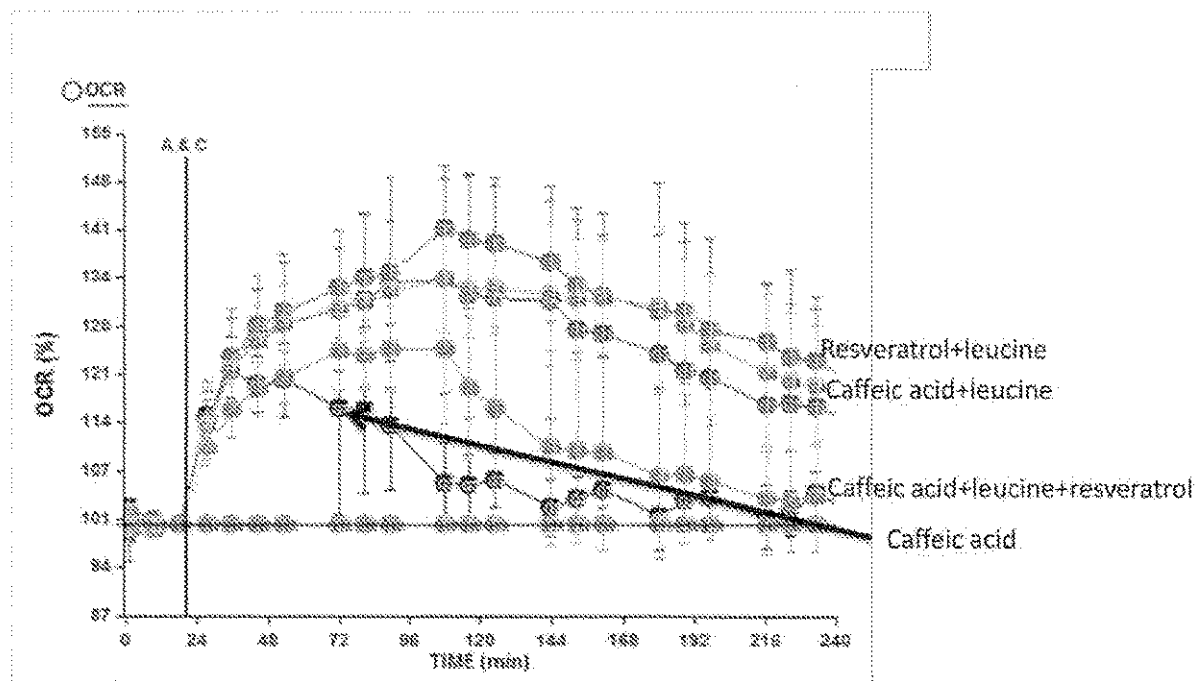


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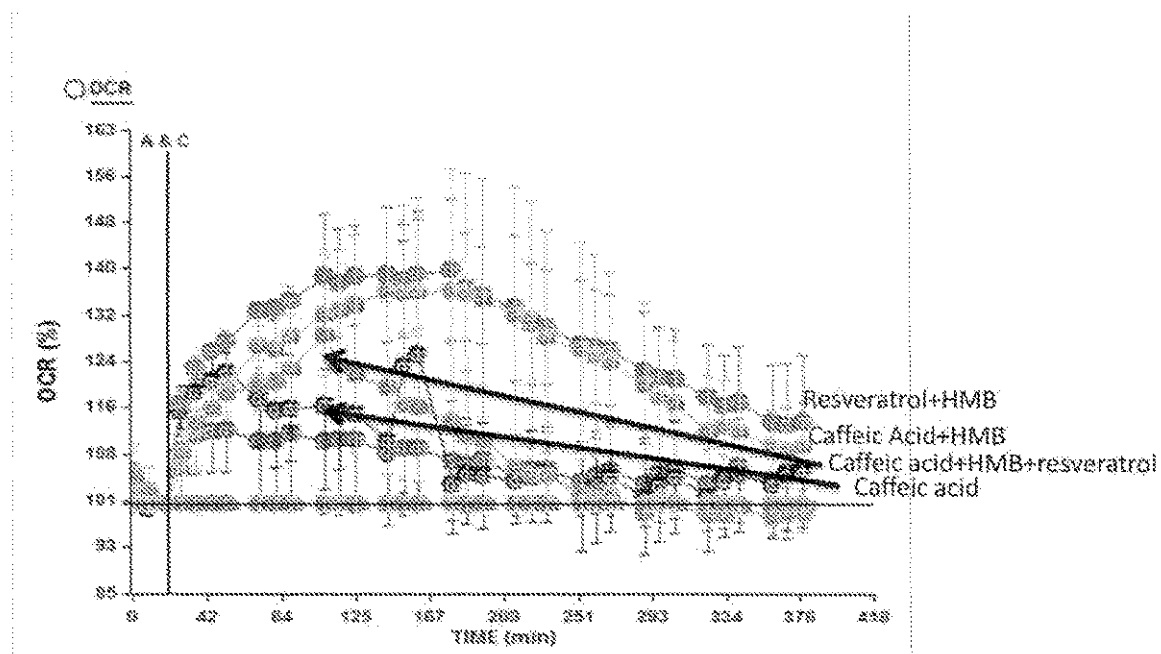


Figure 17

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Fatty acid oxidation Caffeic acid (CAF)

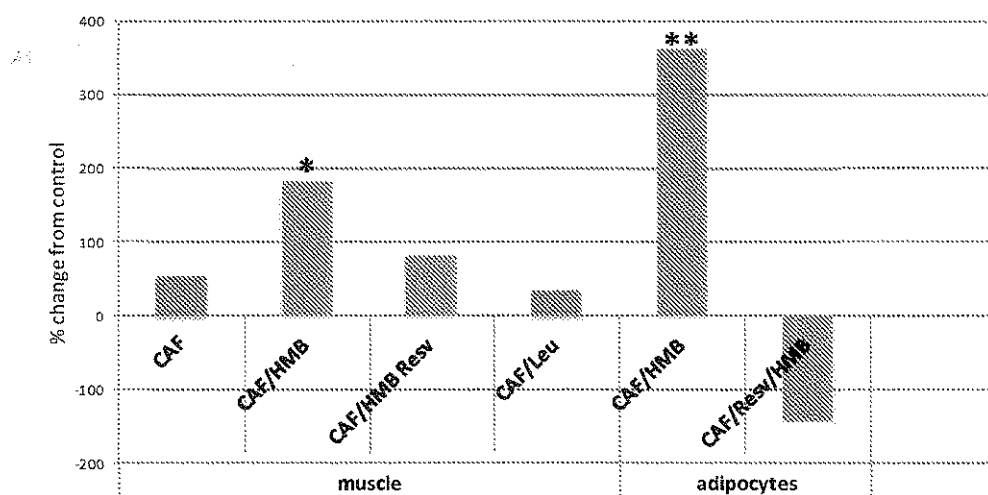


Figure 18

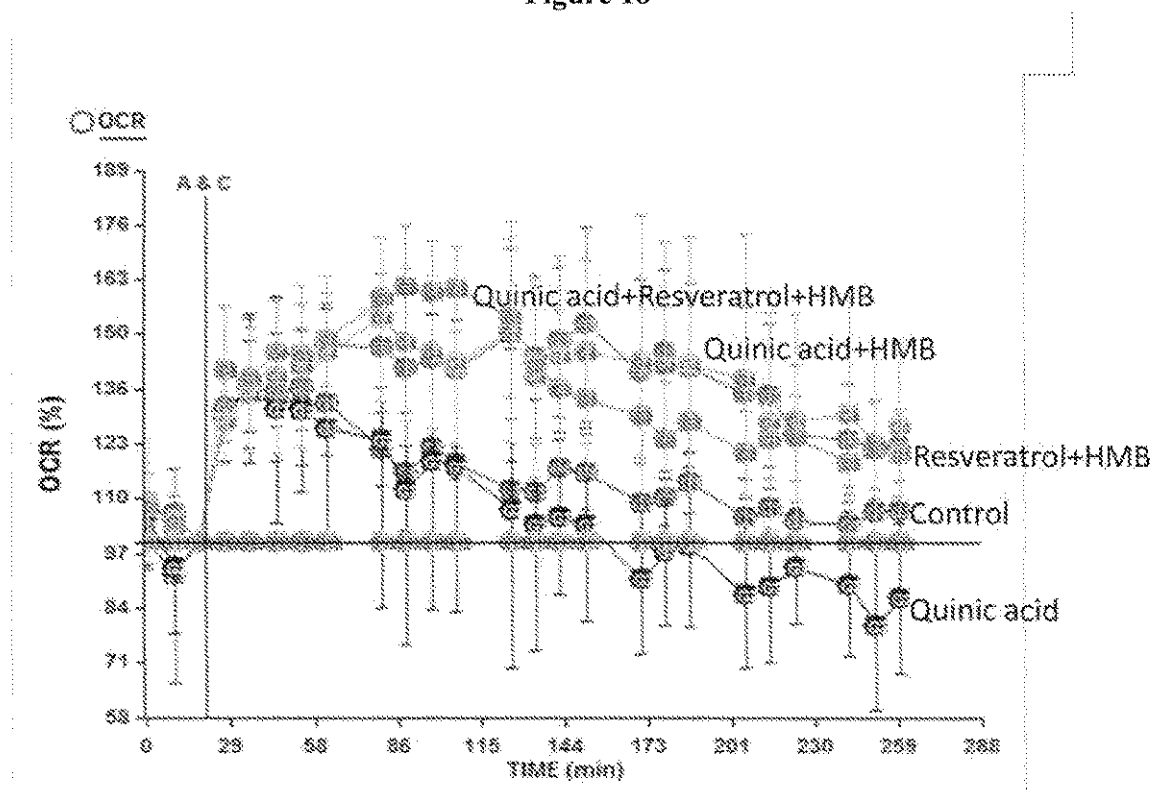


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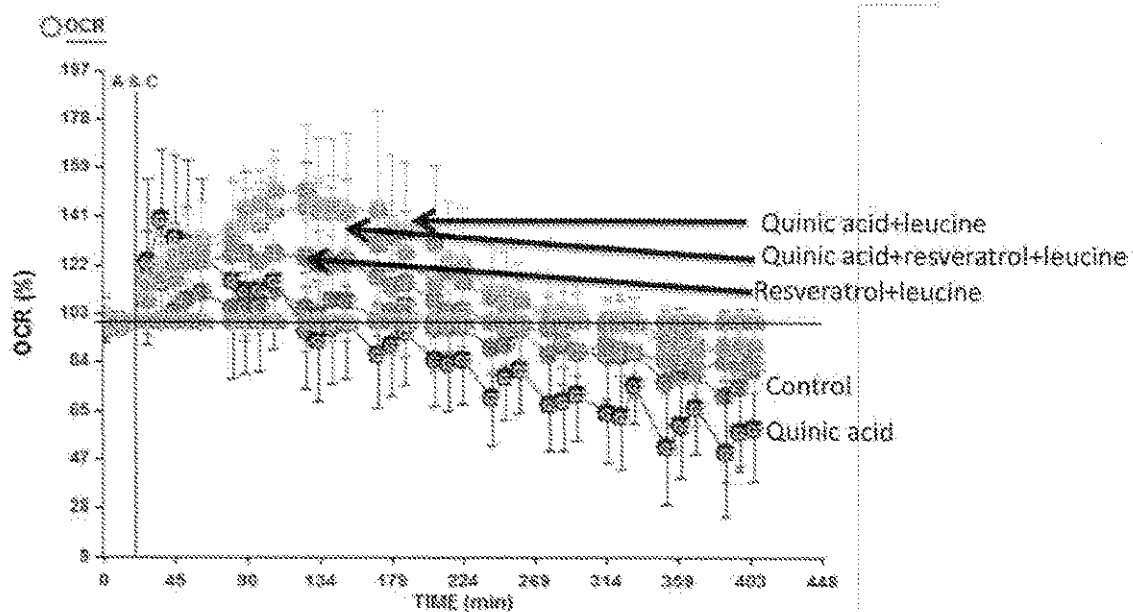


Figure 20

Fatty acid oxidation in adipocytes: Quinic acid (QA)

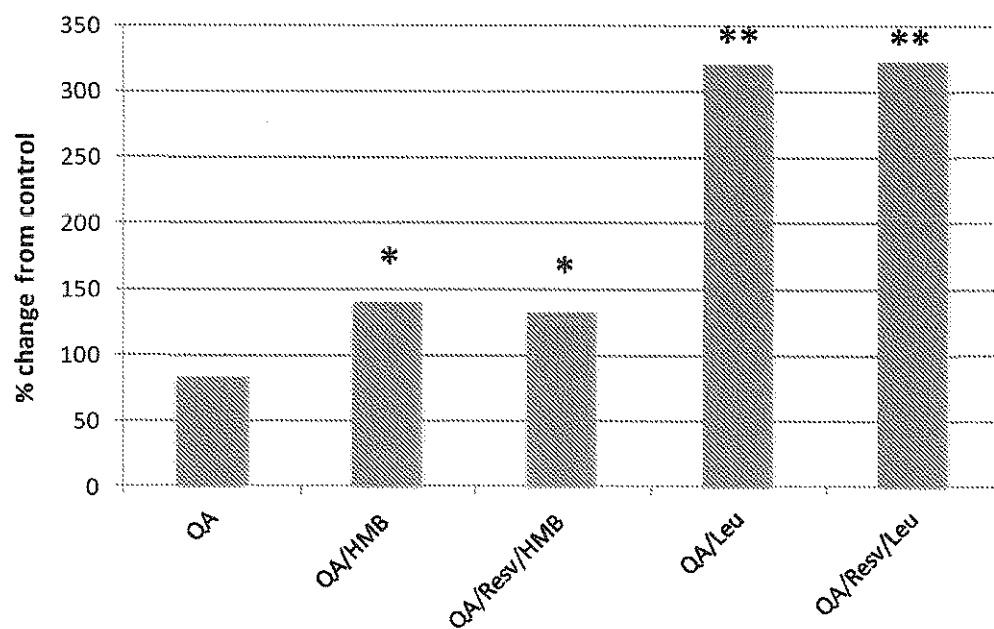


Figure 21

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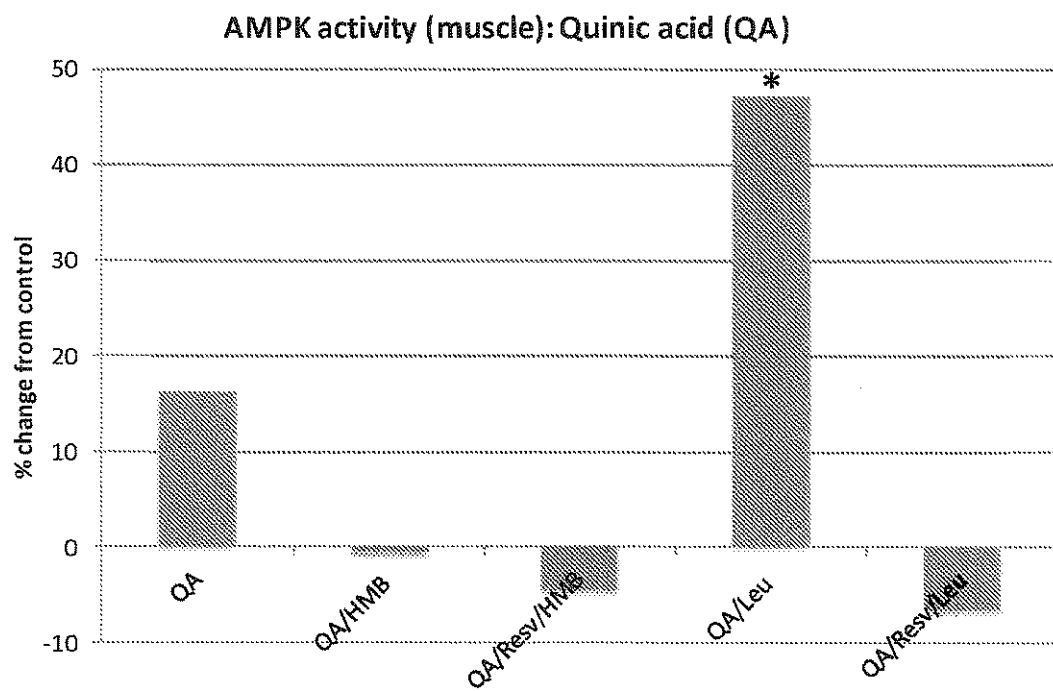


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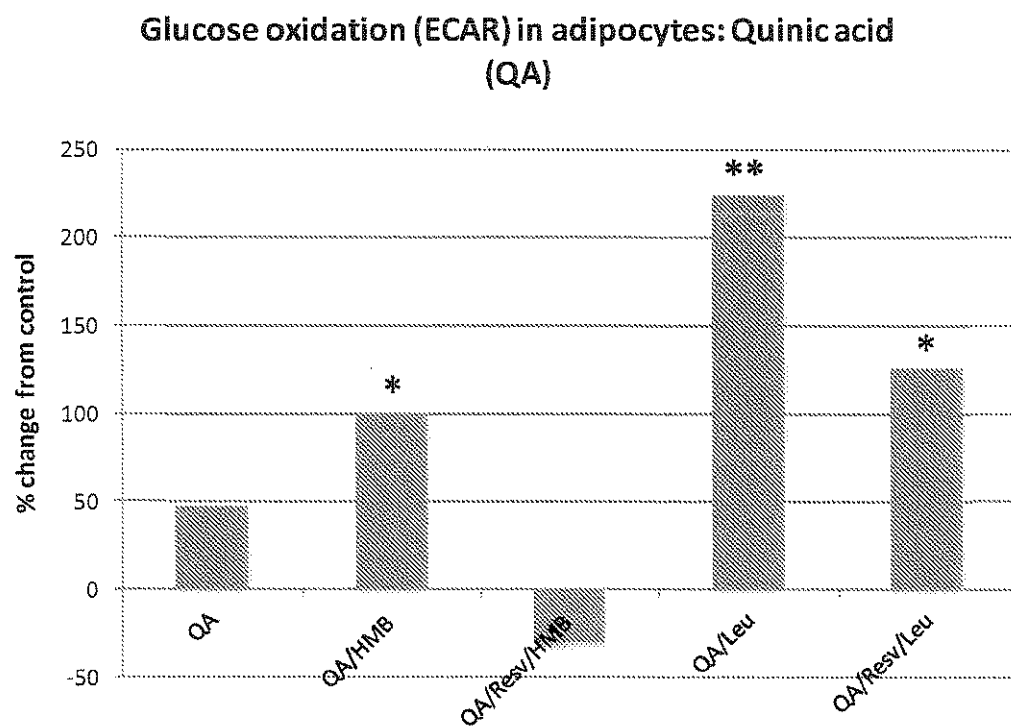


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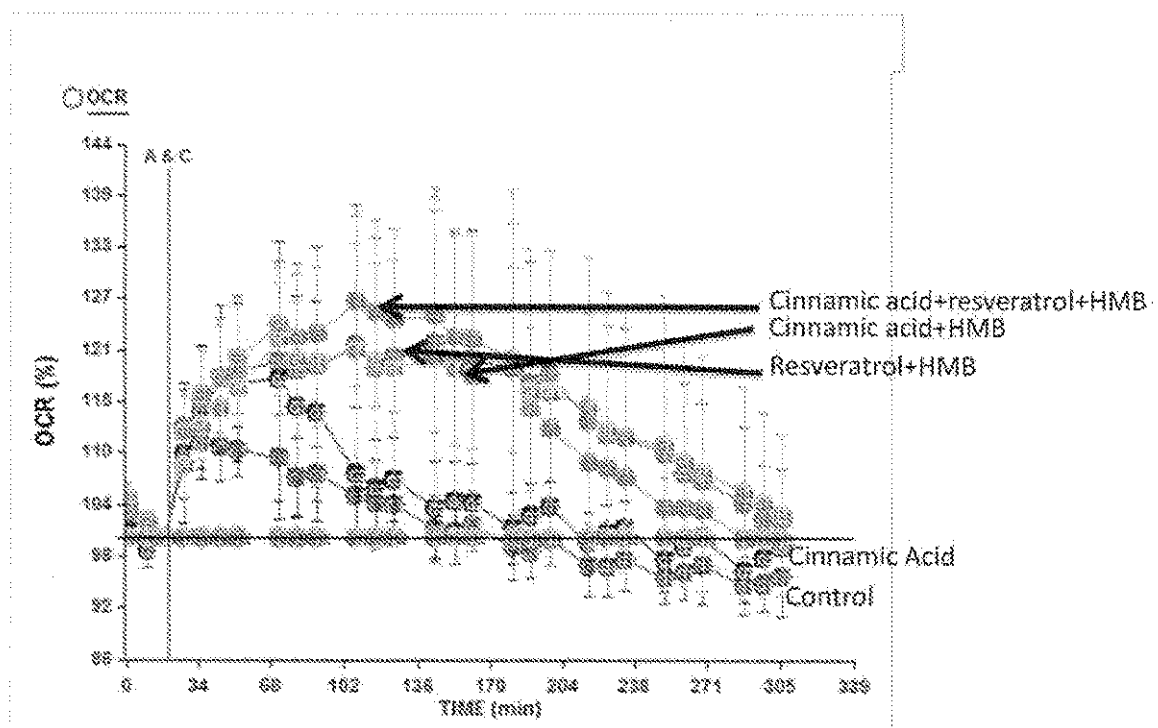


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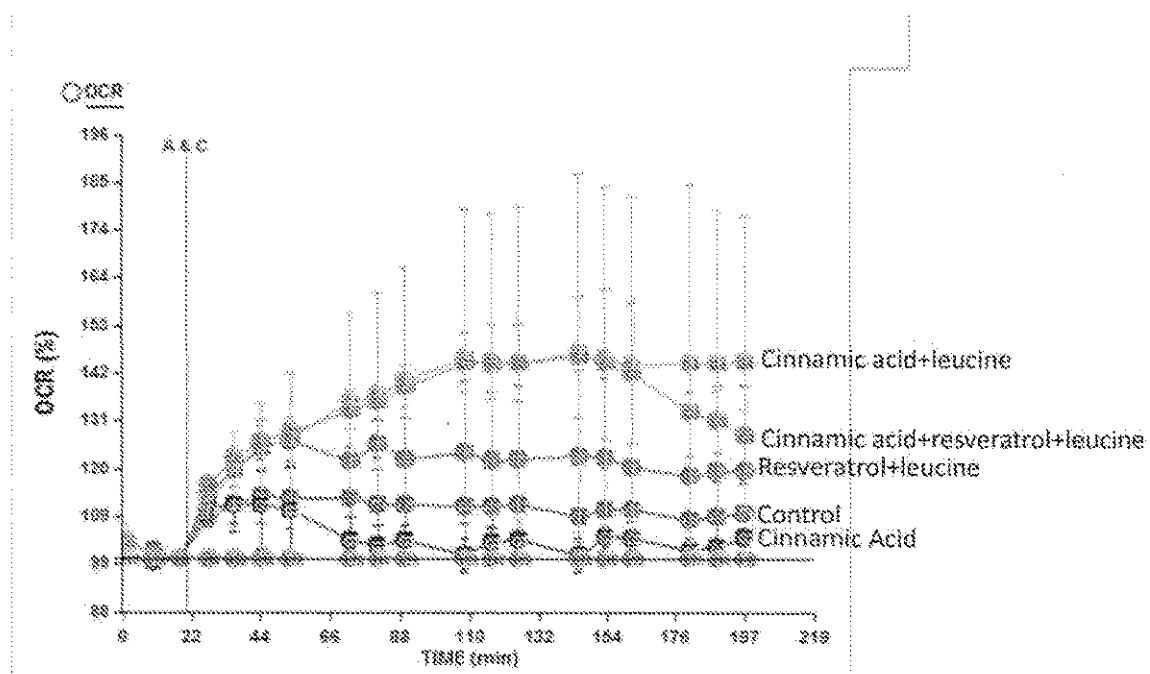


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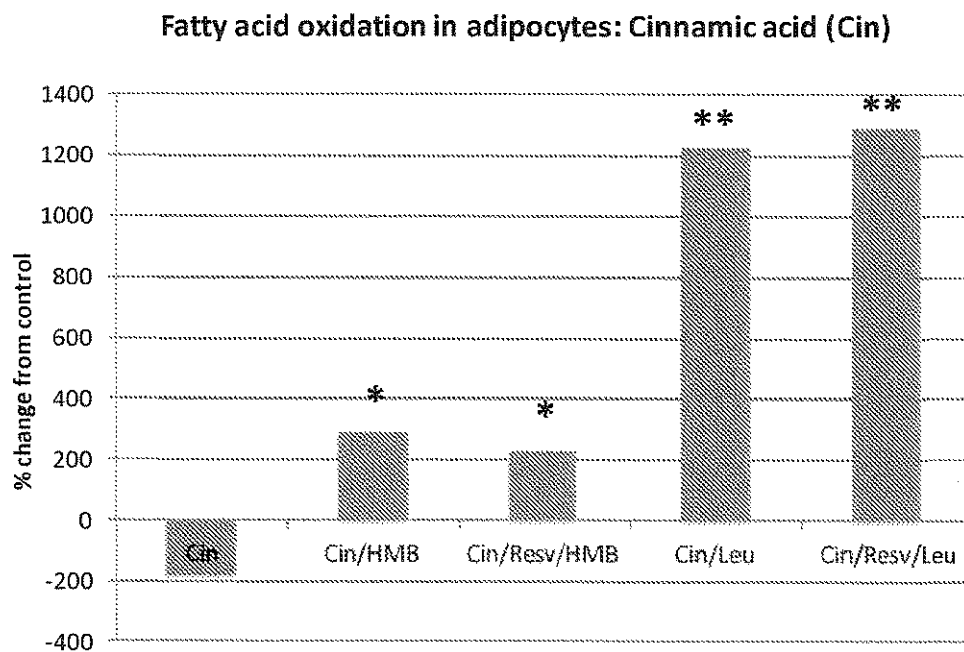


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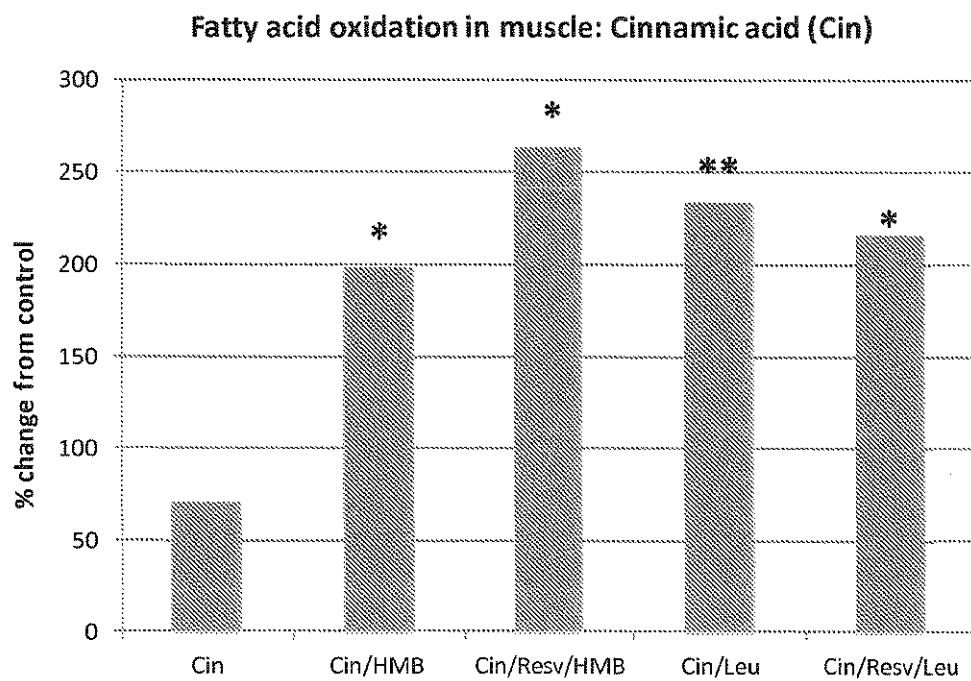


Figure 27

AMPK activity in adipocytes: Cinnamic acid (Cin)

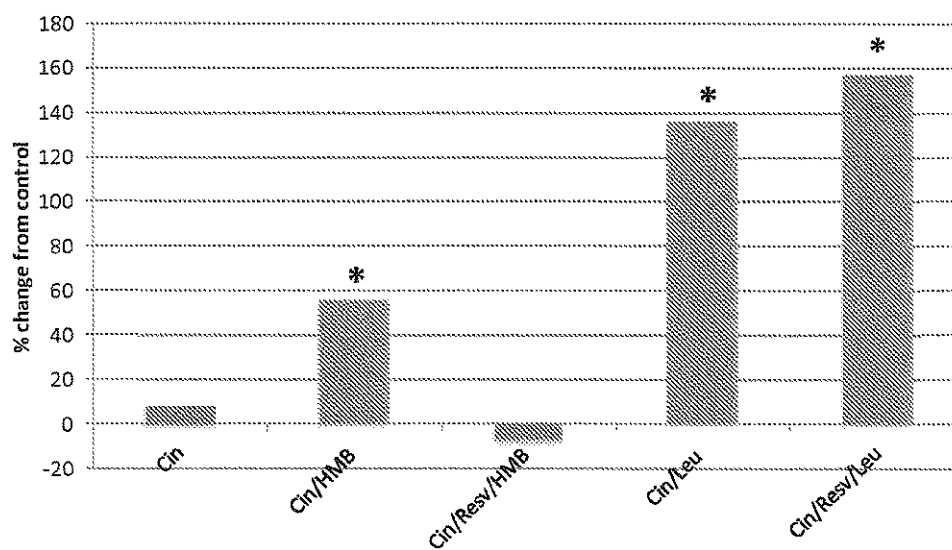


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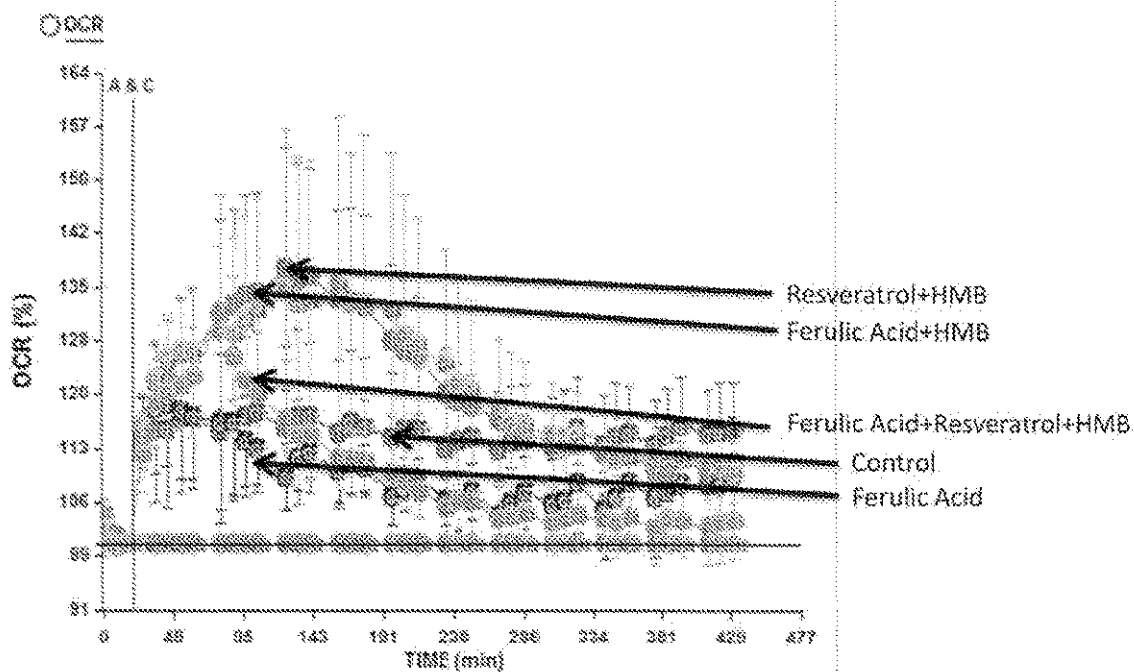


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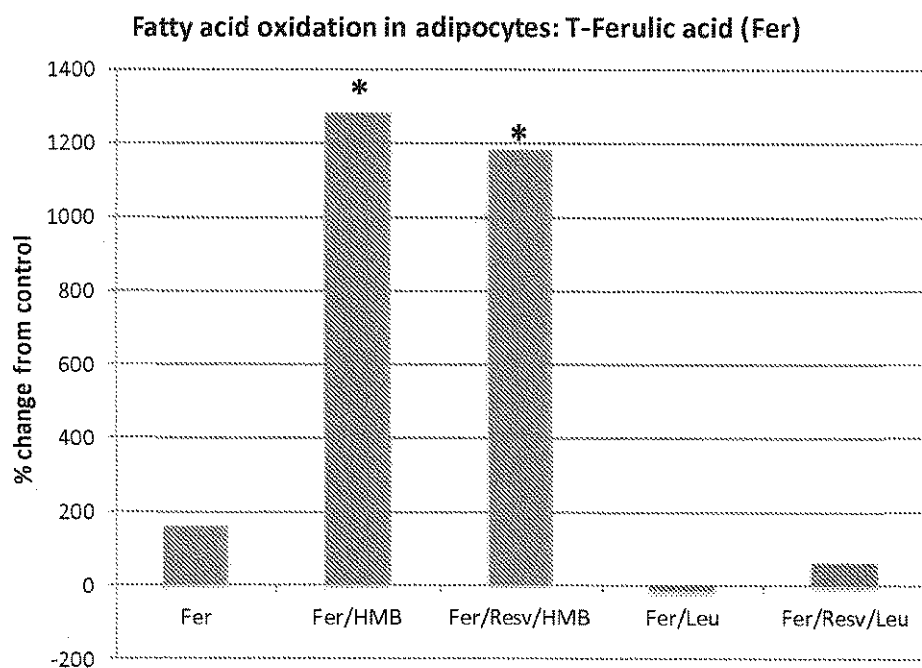


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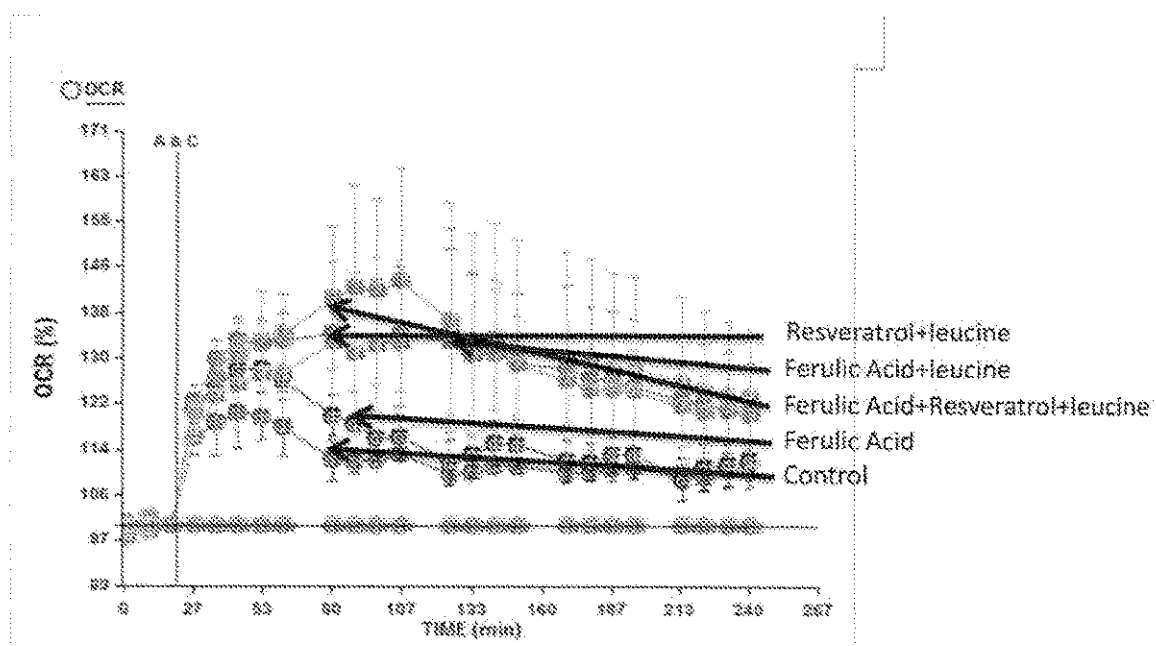


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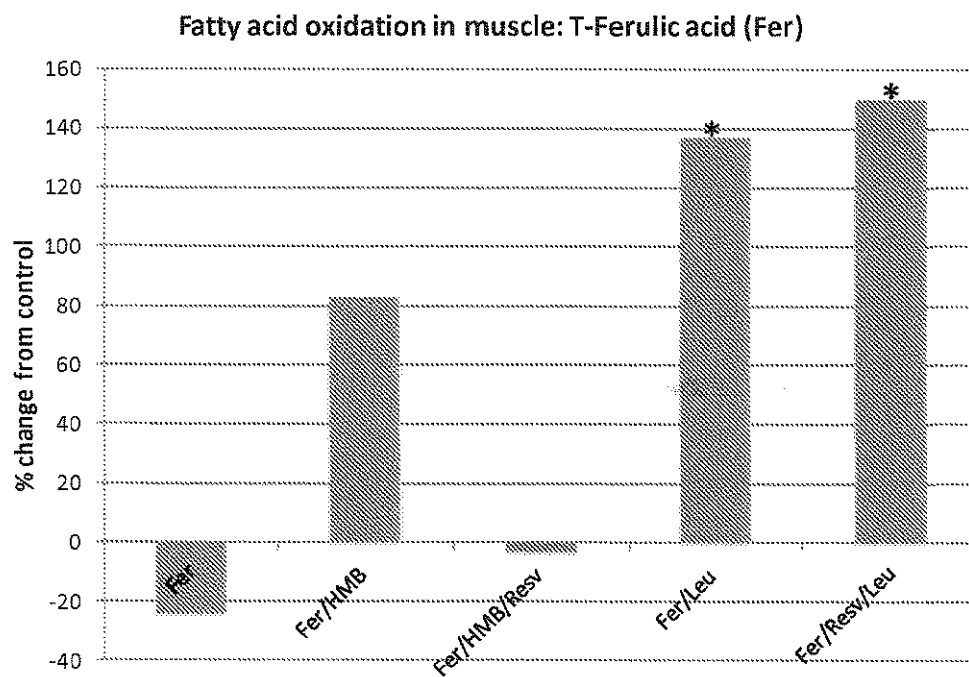


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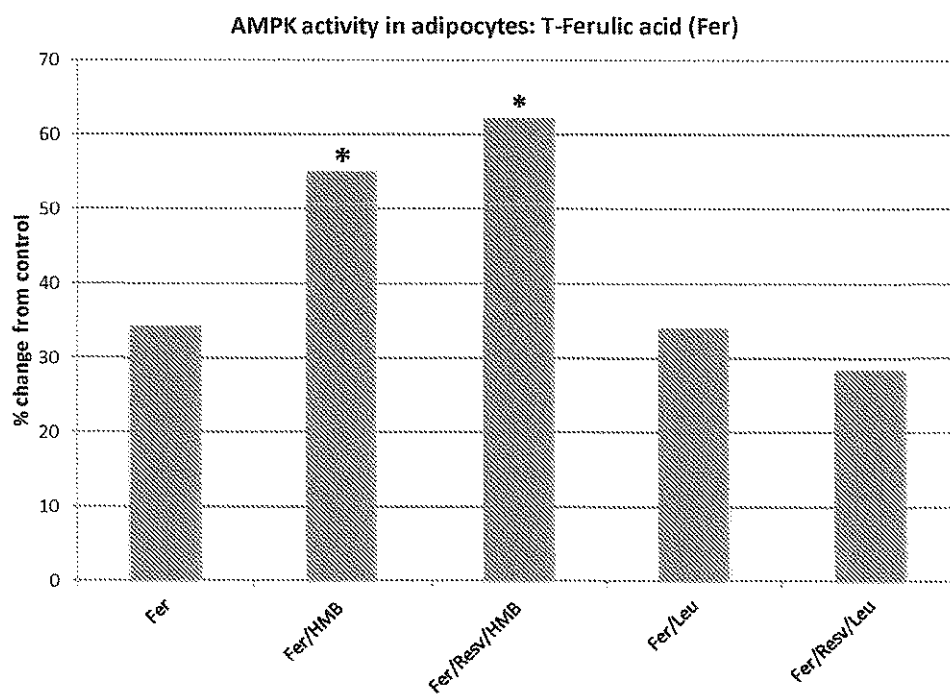


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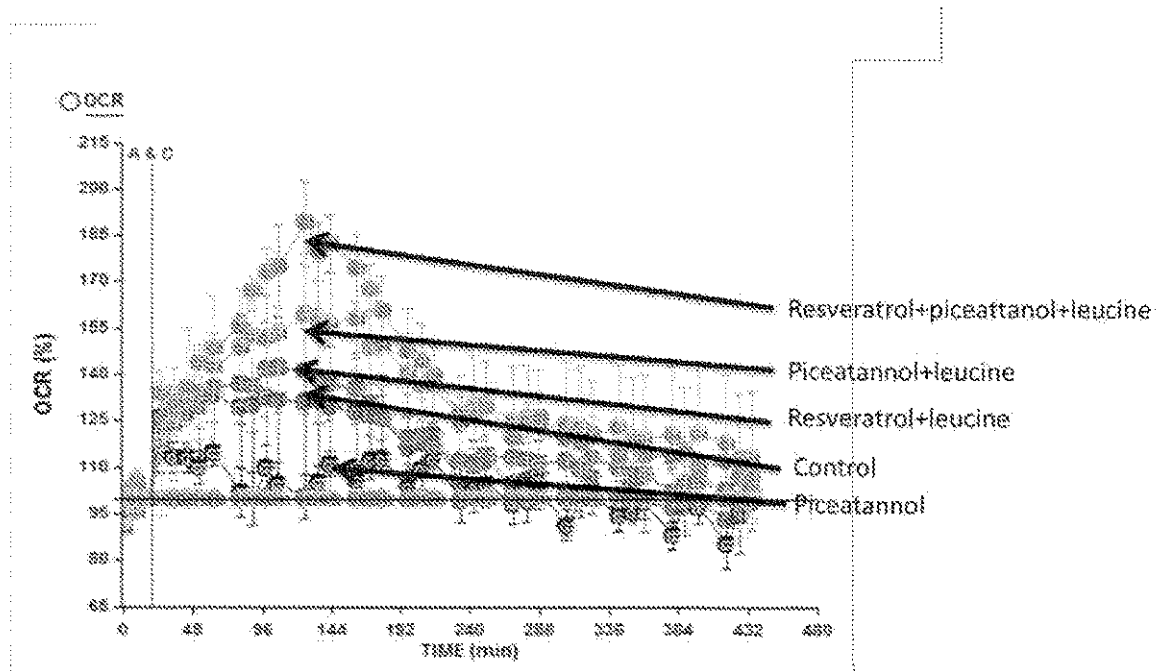


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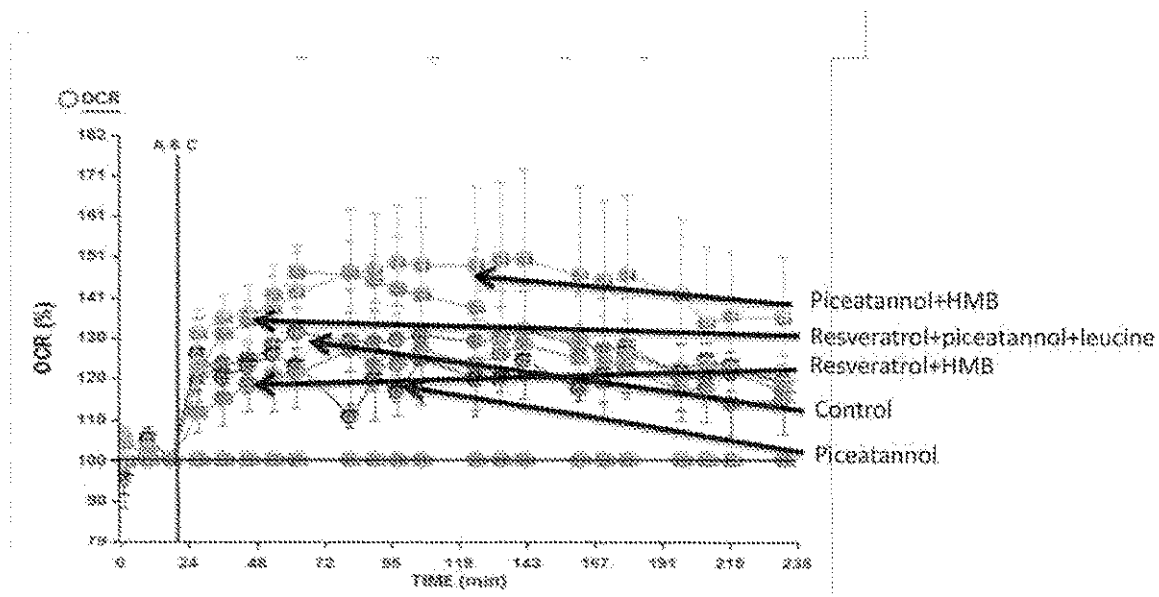


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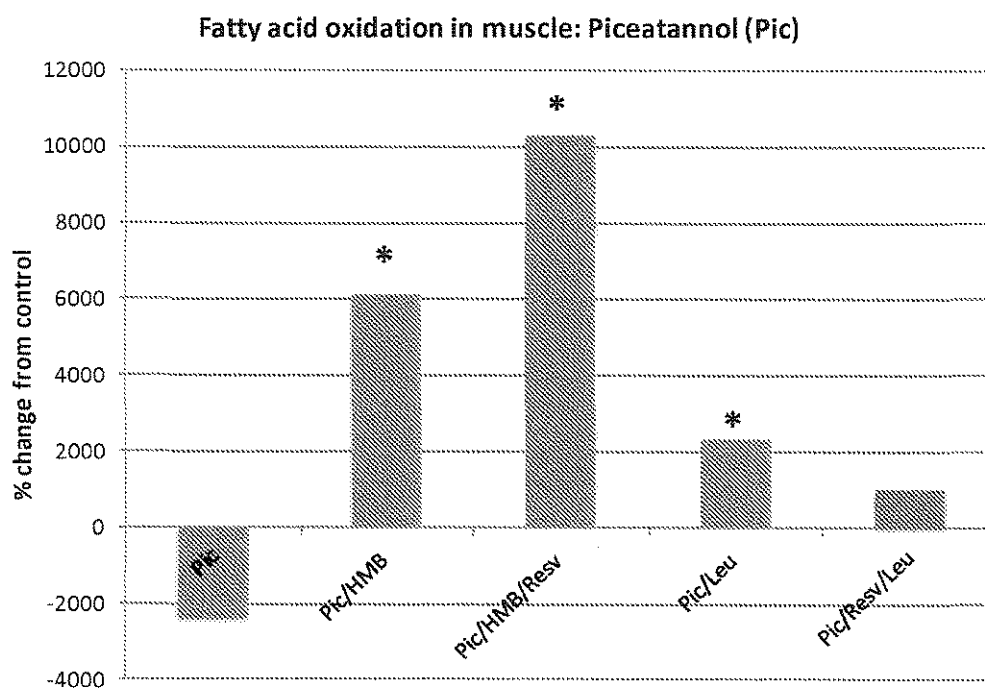


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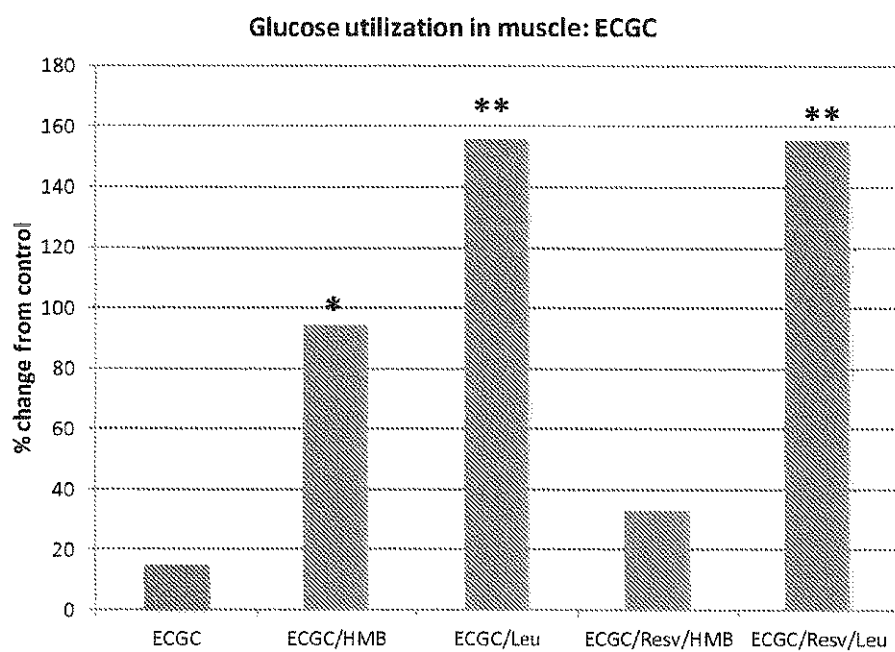


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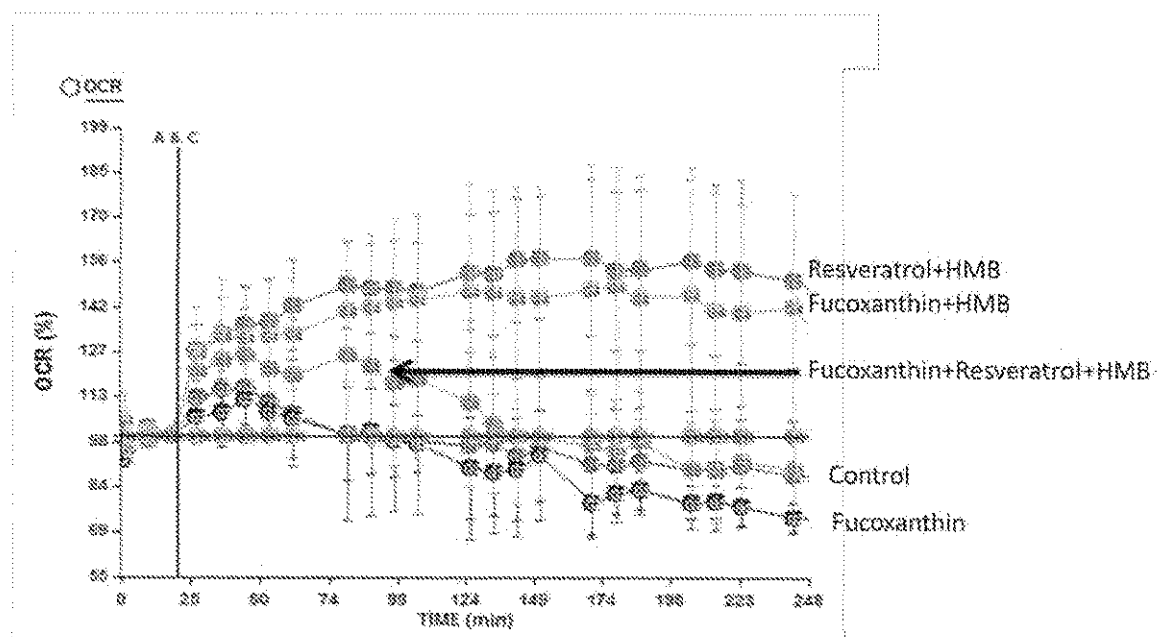


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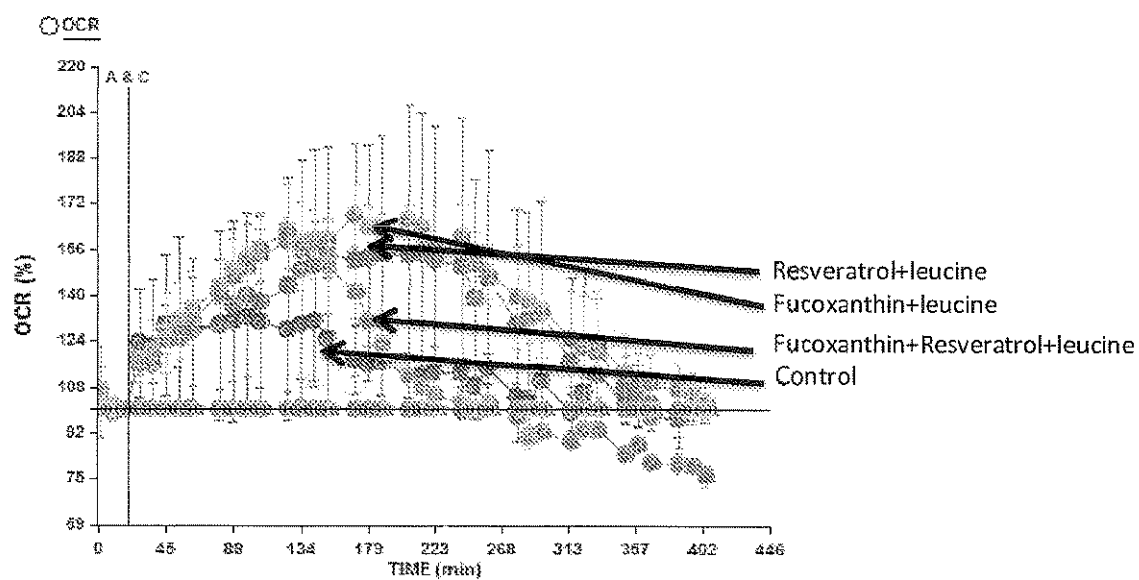


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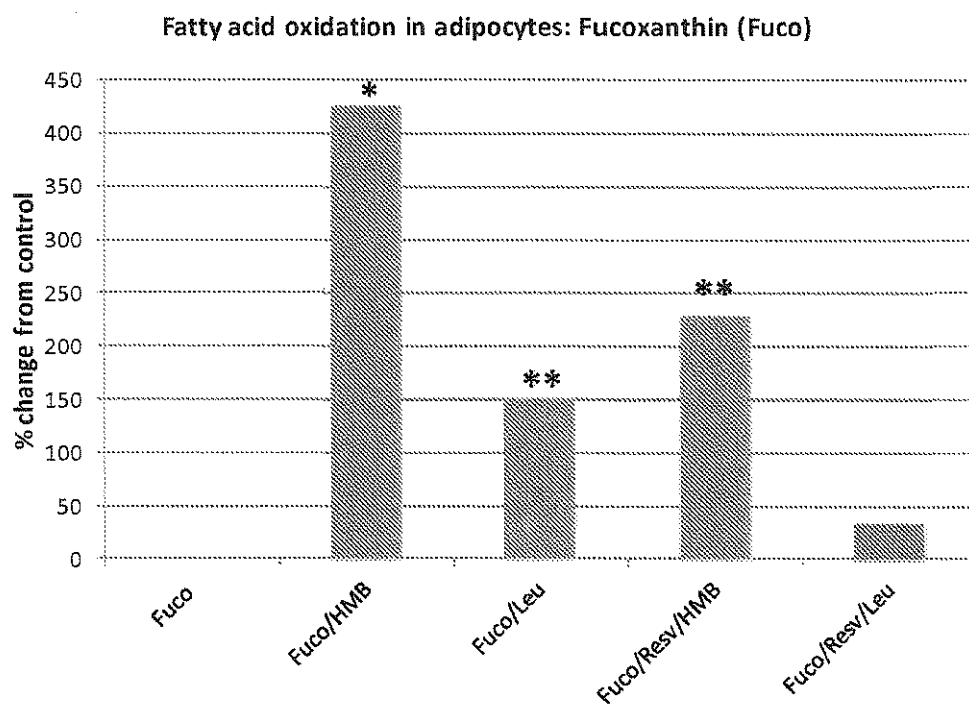


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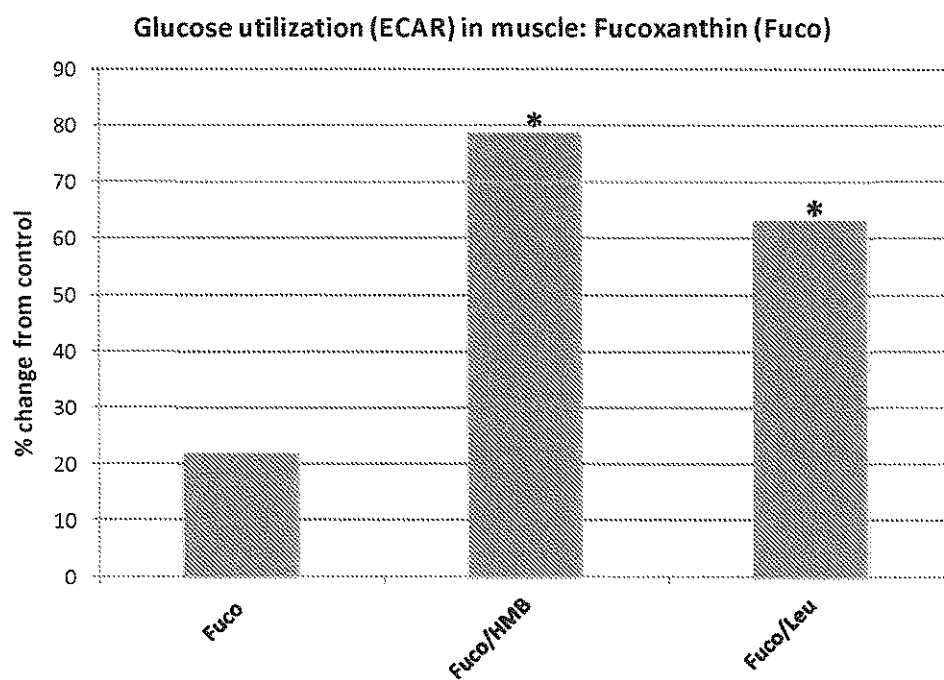


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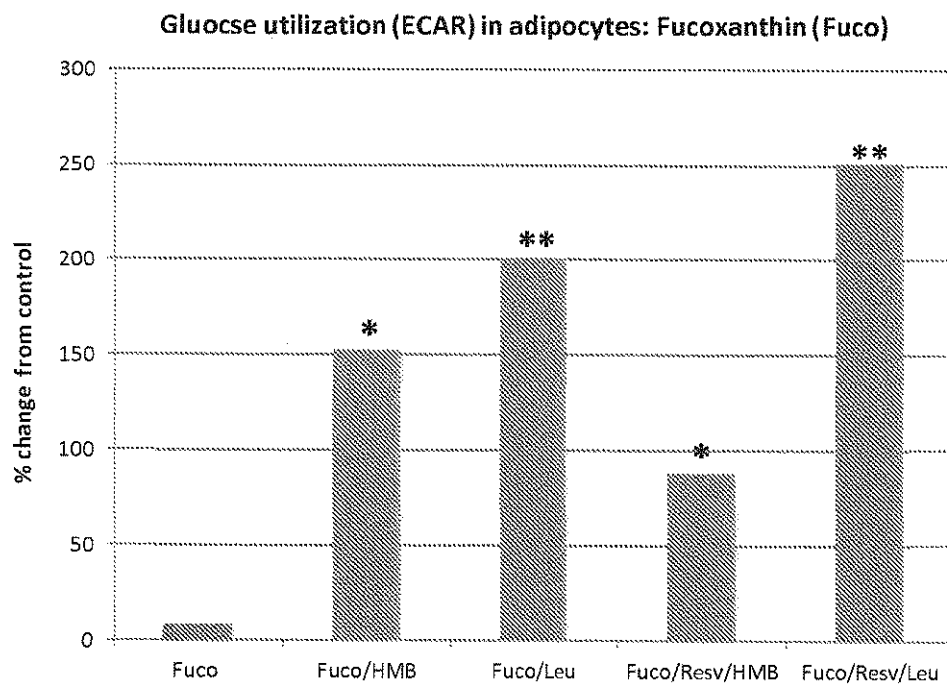


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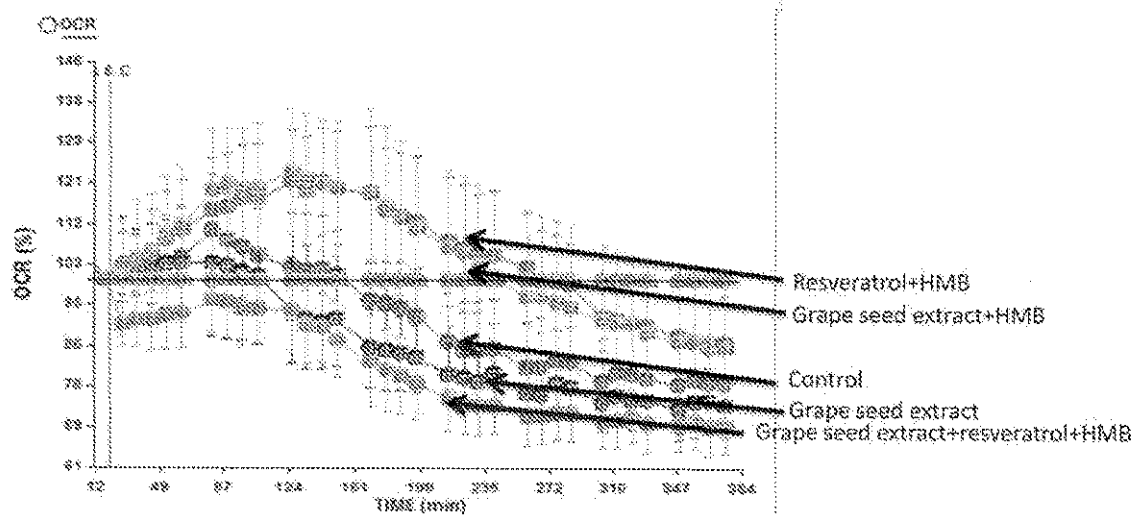


Figure 43

Fatty acid oxidation in adipocytes: Grape Seed Extract (GS)

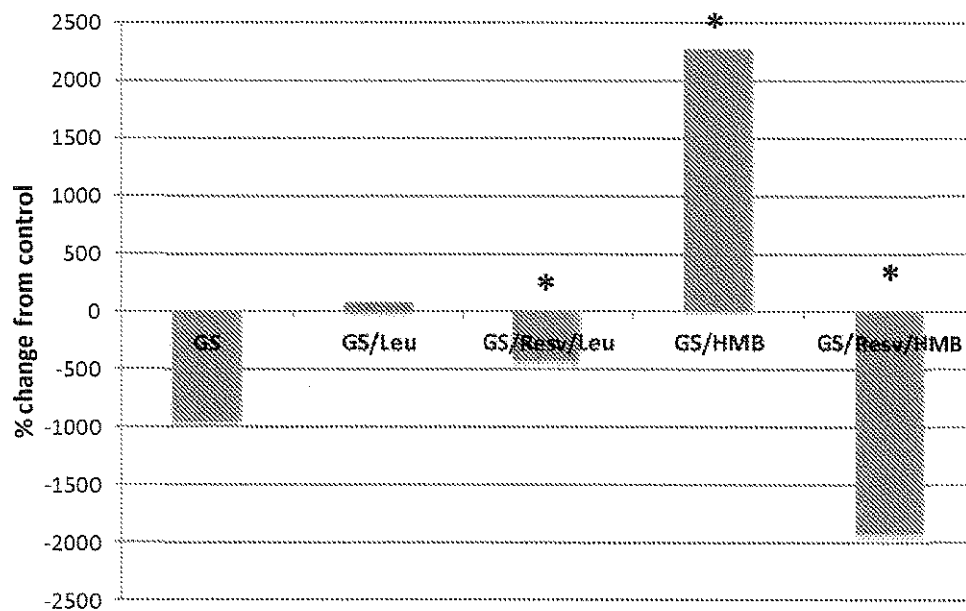


Figure 44

AMPK activity Grape Seed Extract (GS)

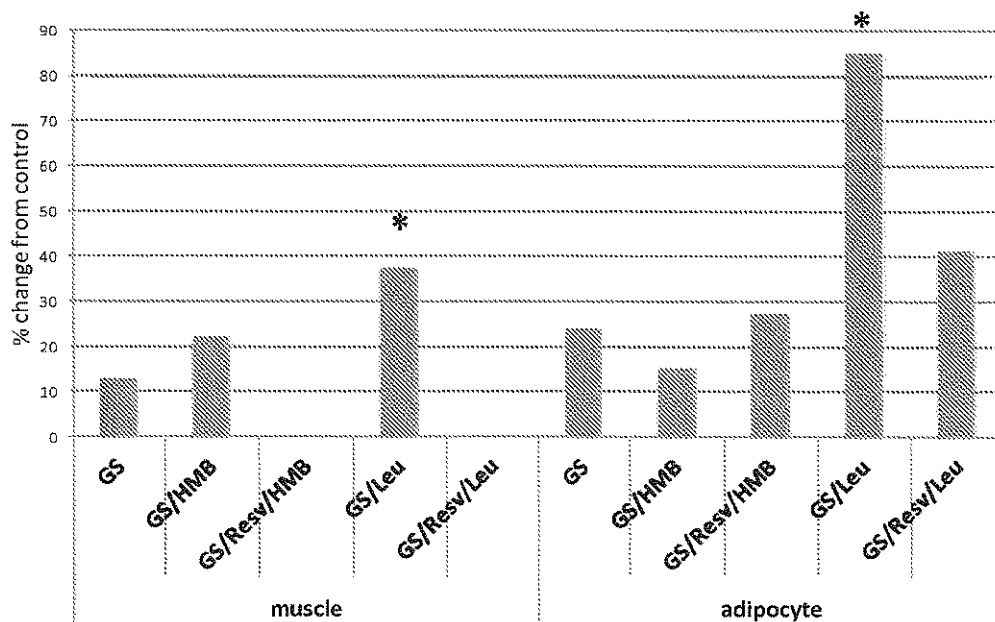


Figure 45

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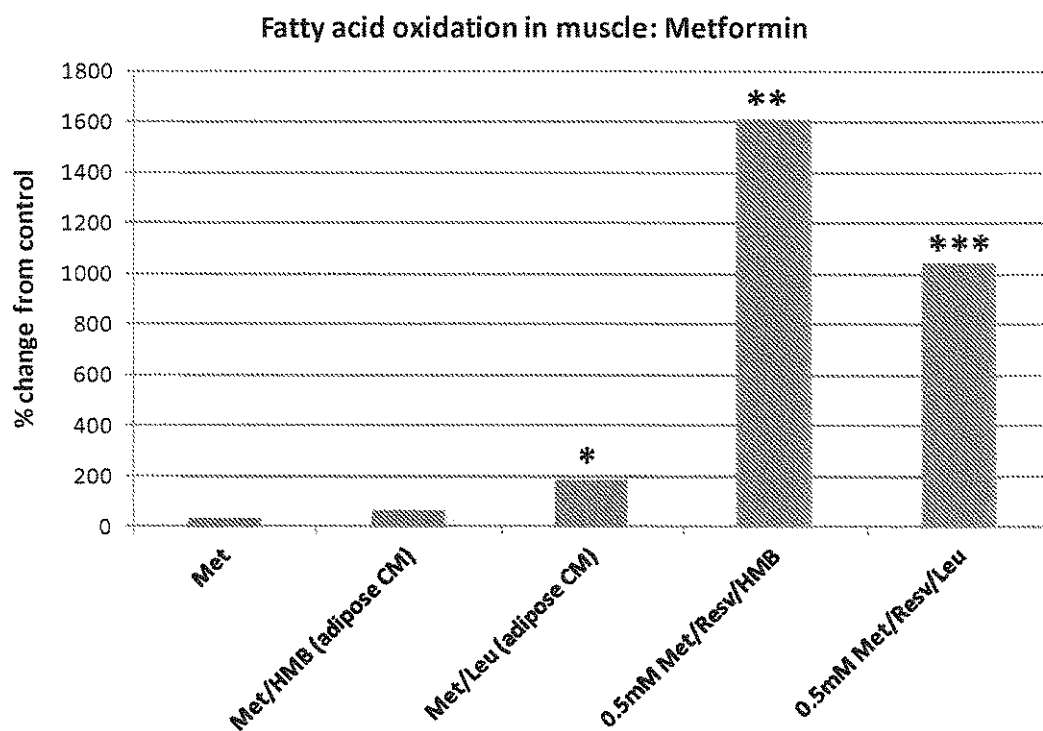


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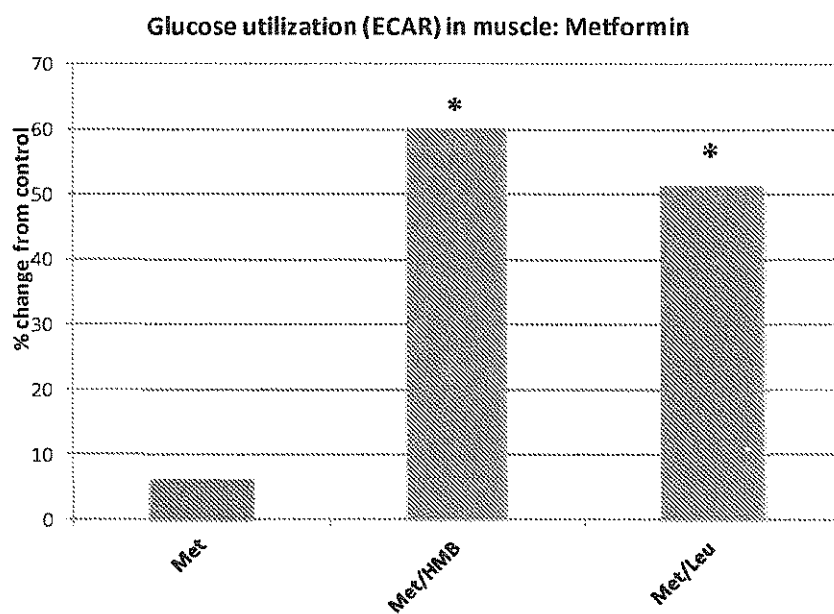


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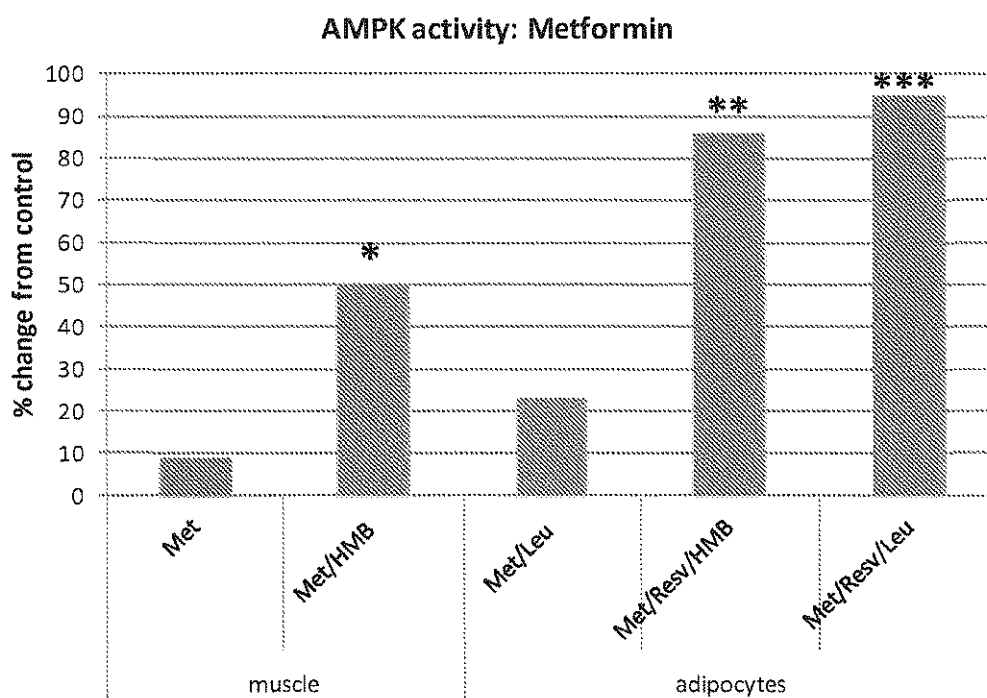


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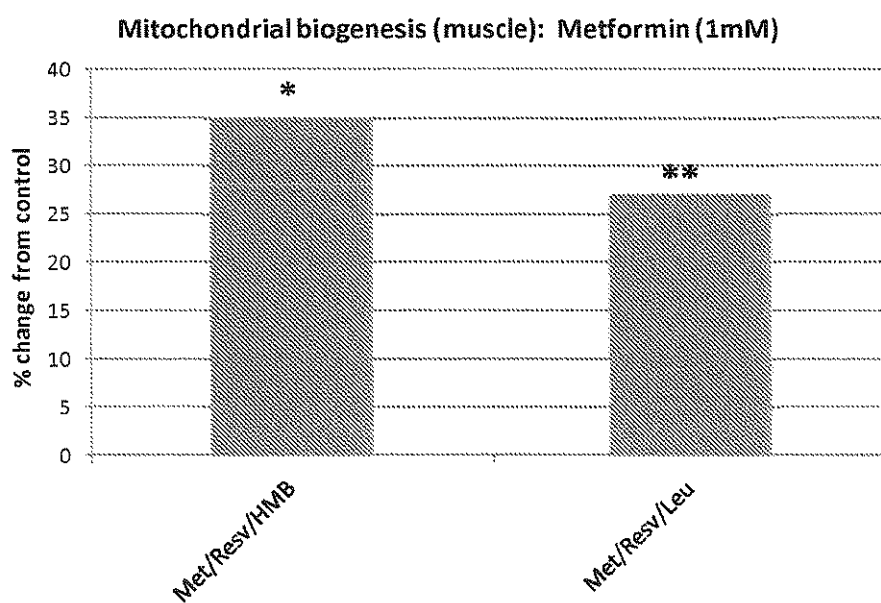


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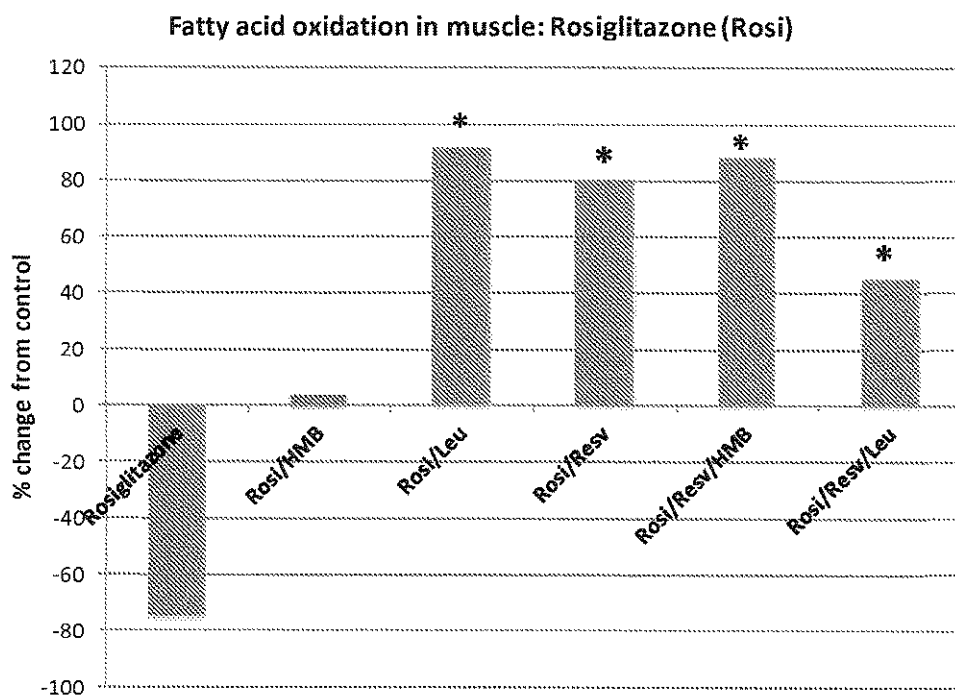


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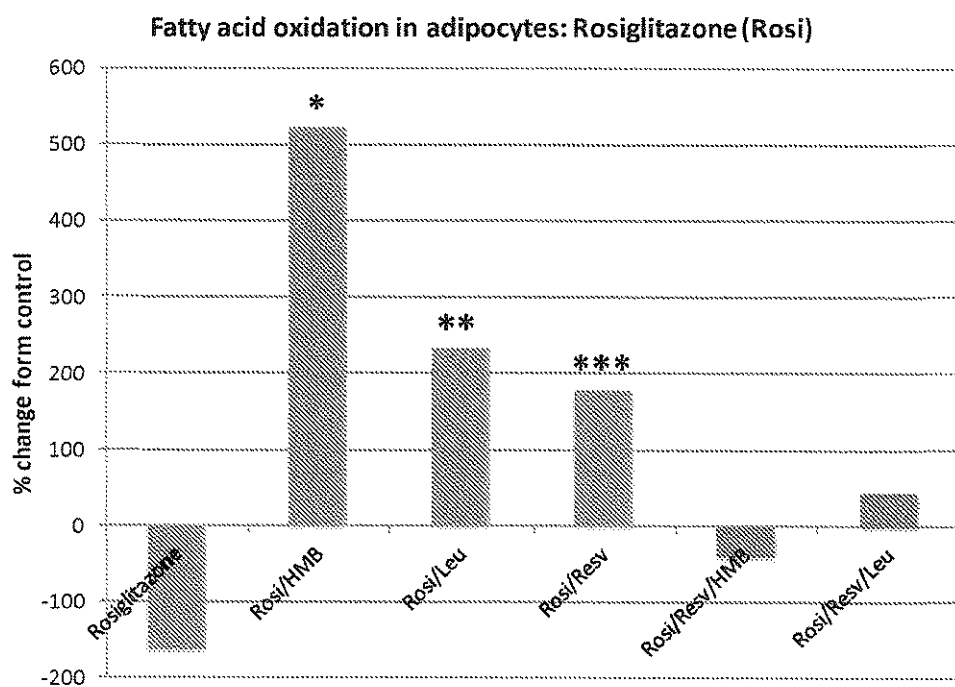


Figure 51

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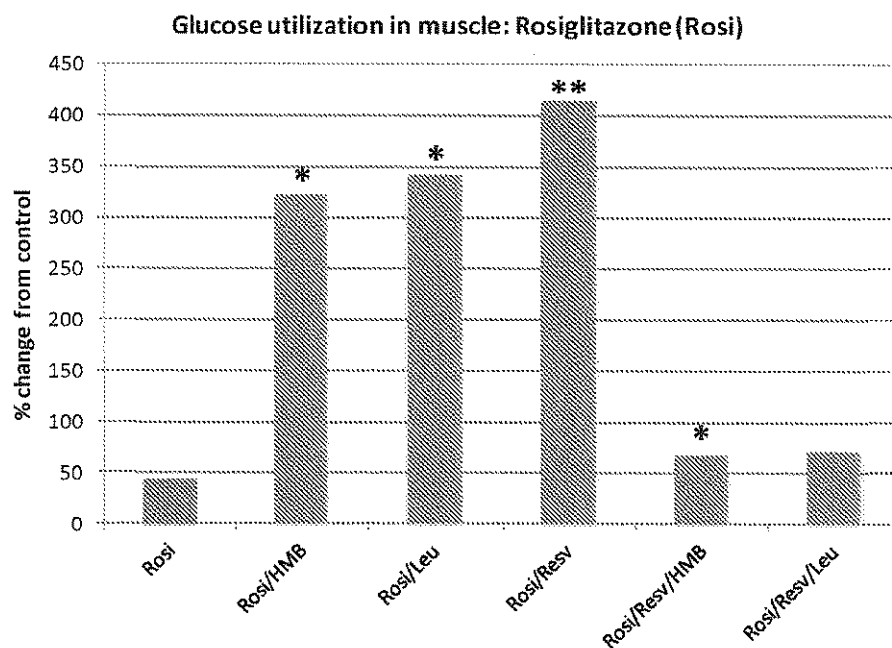


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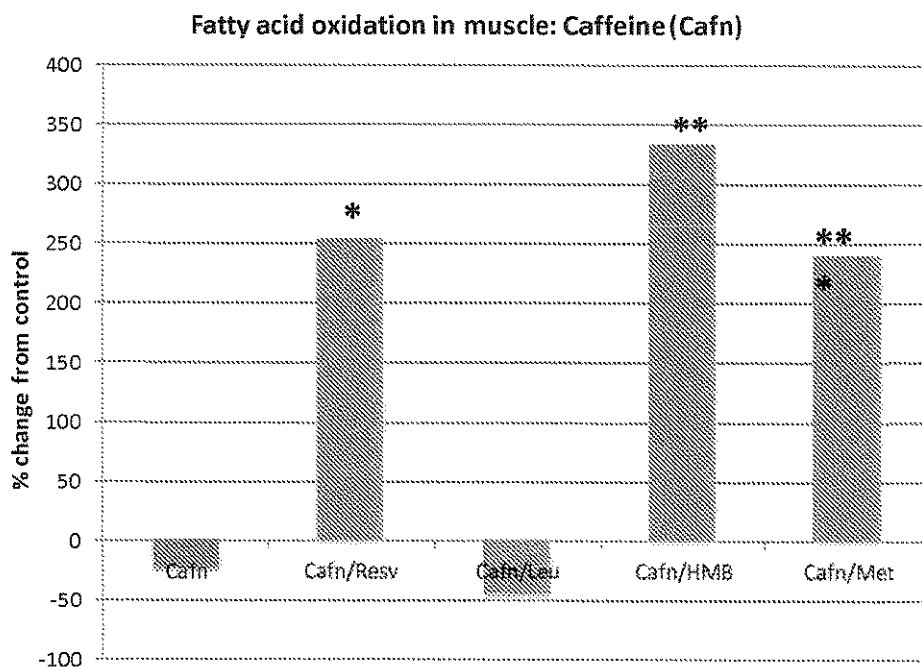


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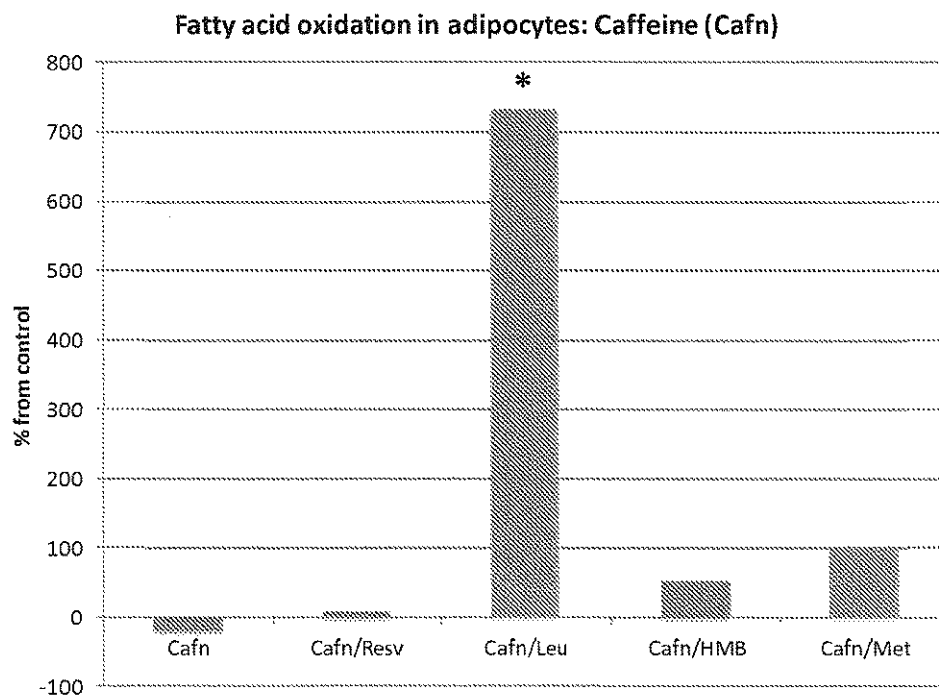


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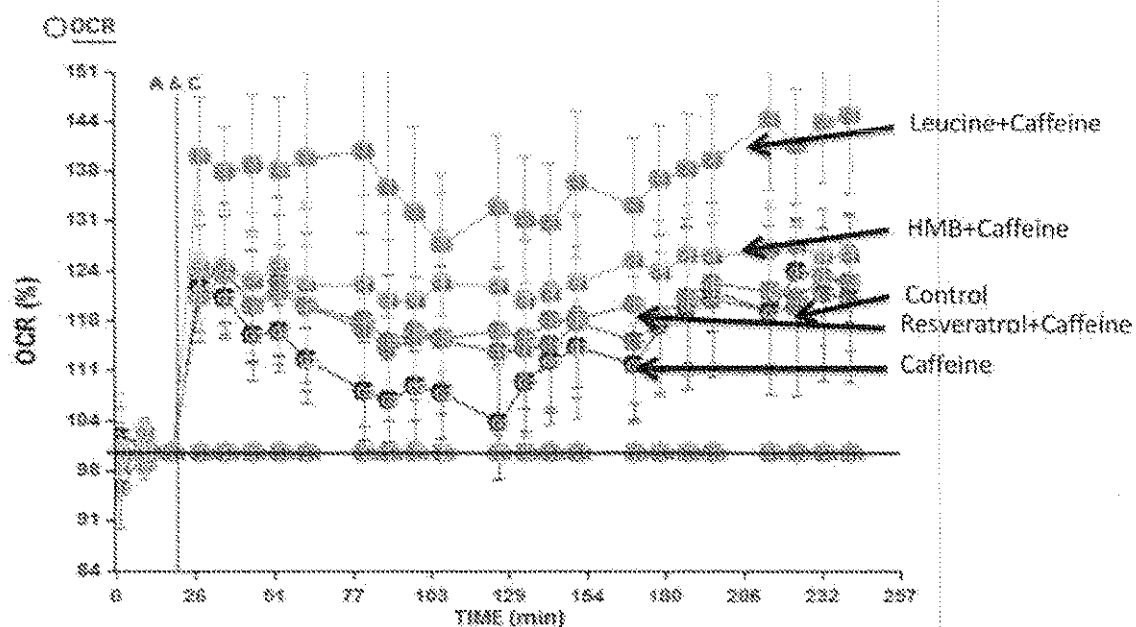


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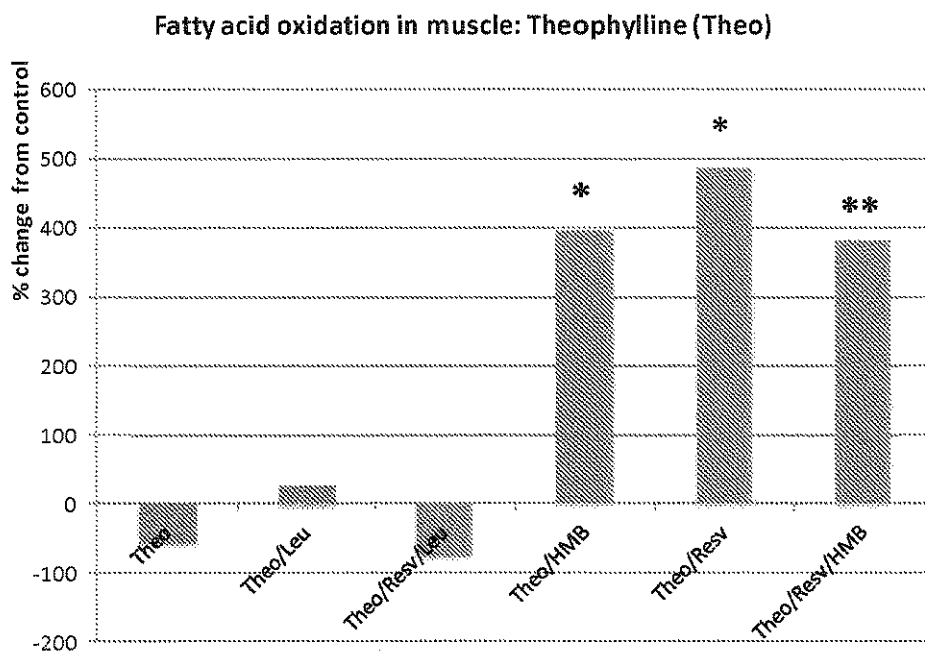


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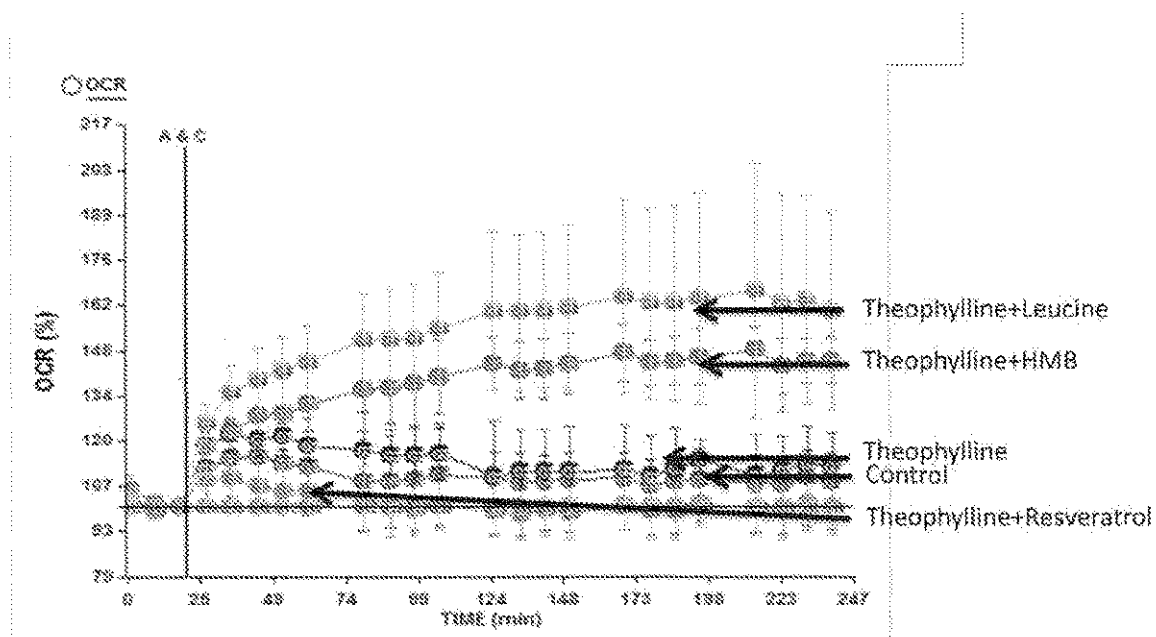


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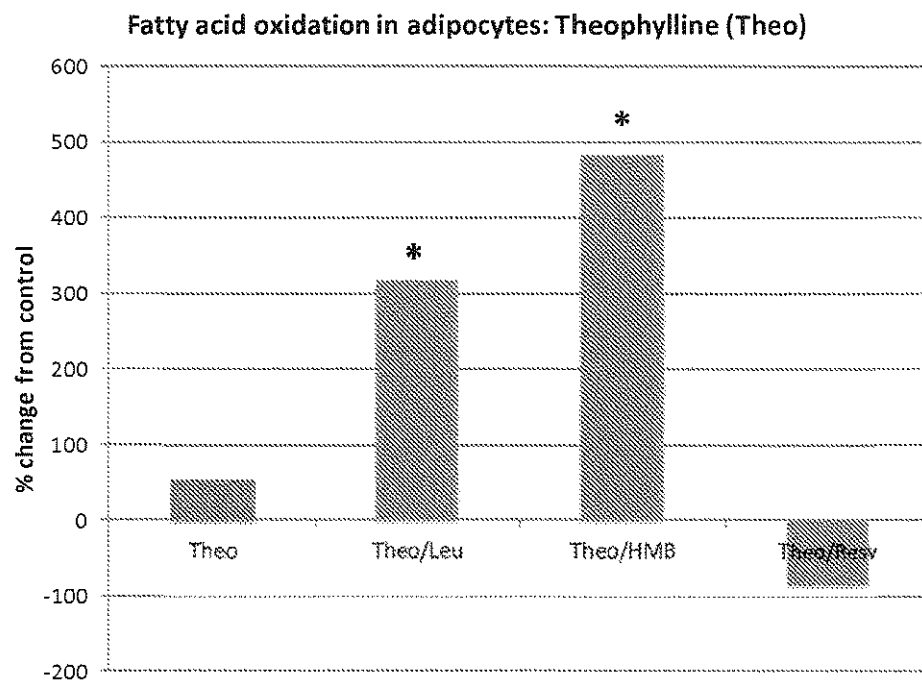


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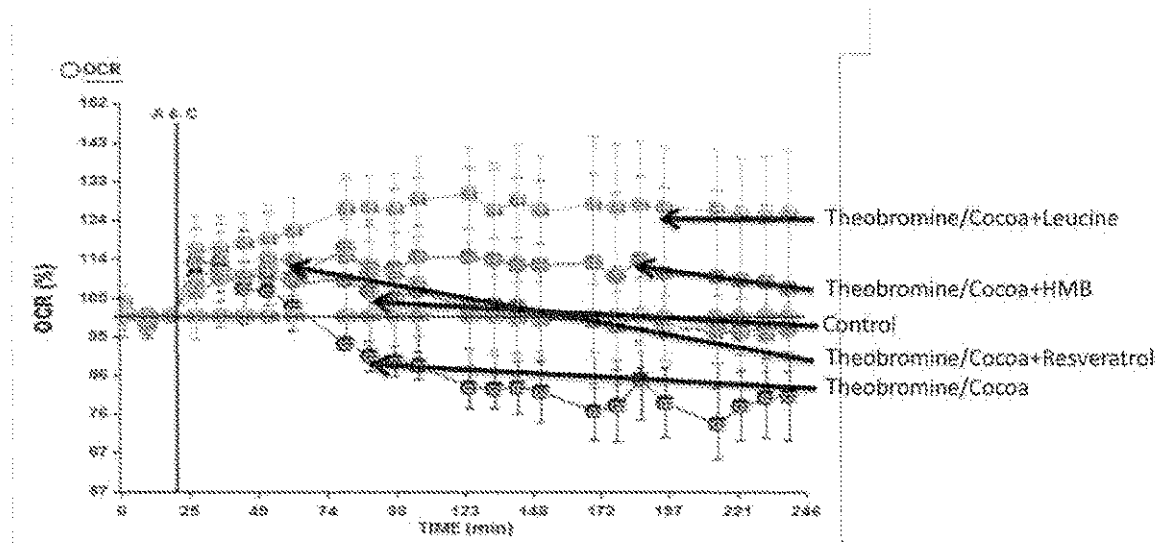


Figure 59

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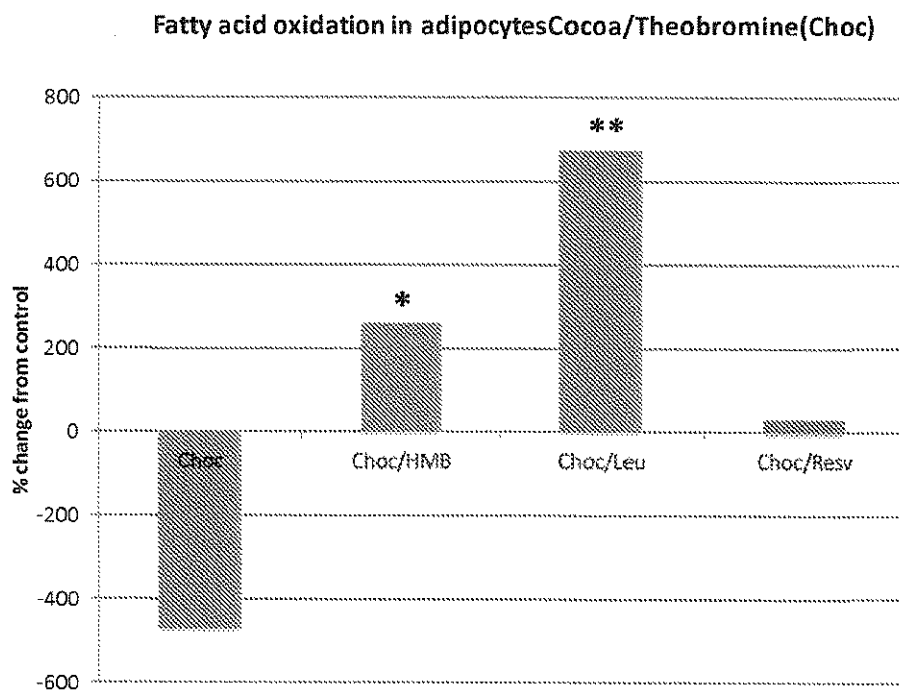


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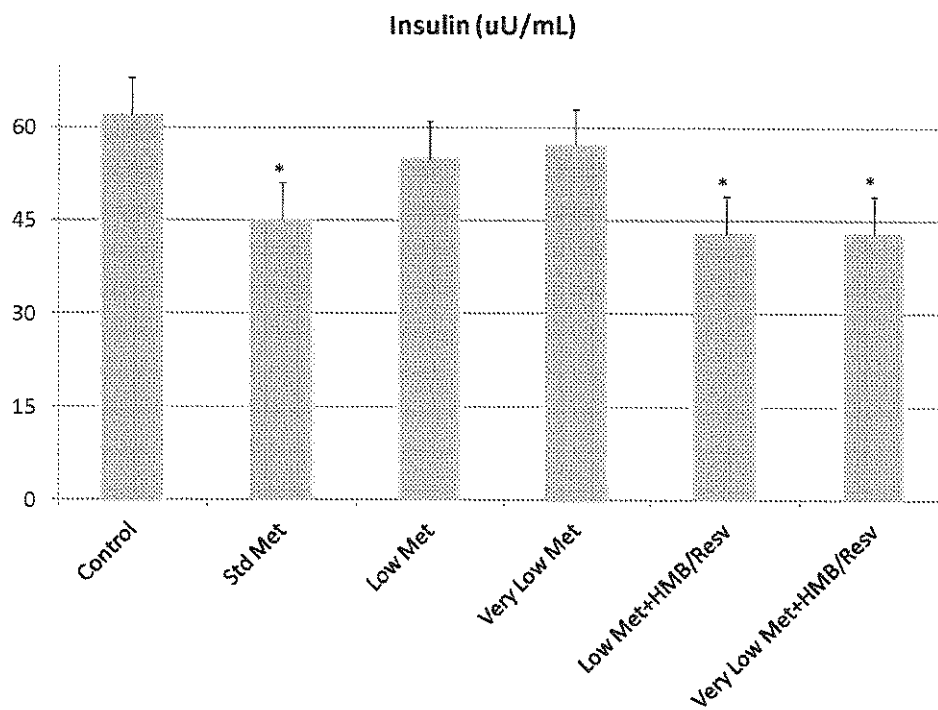


Figure 61

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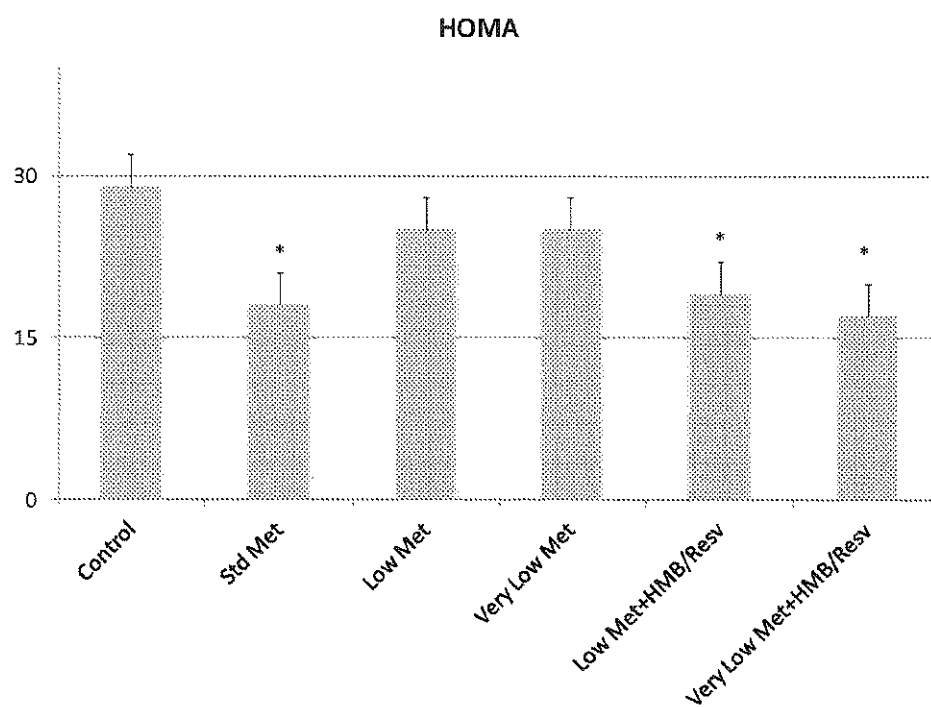


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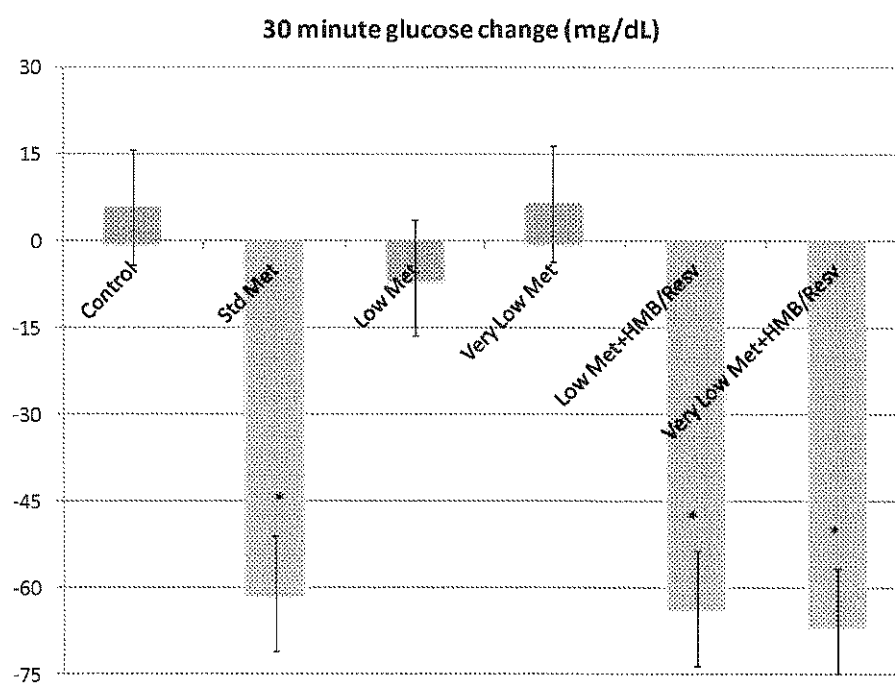


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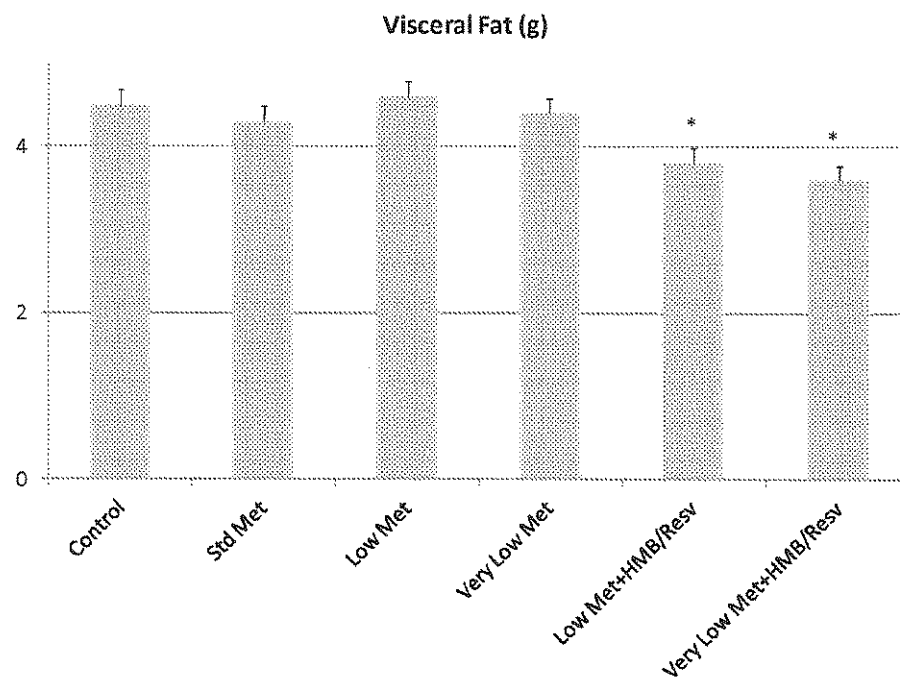


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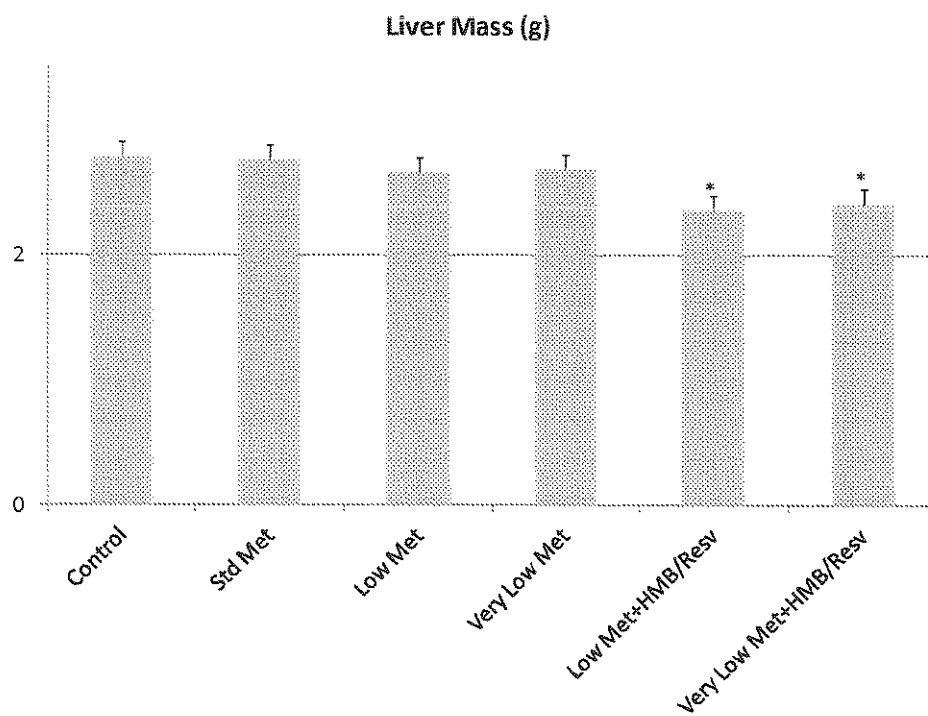


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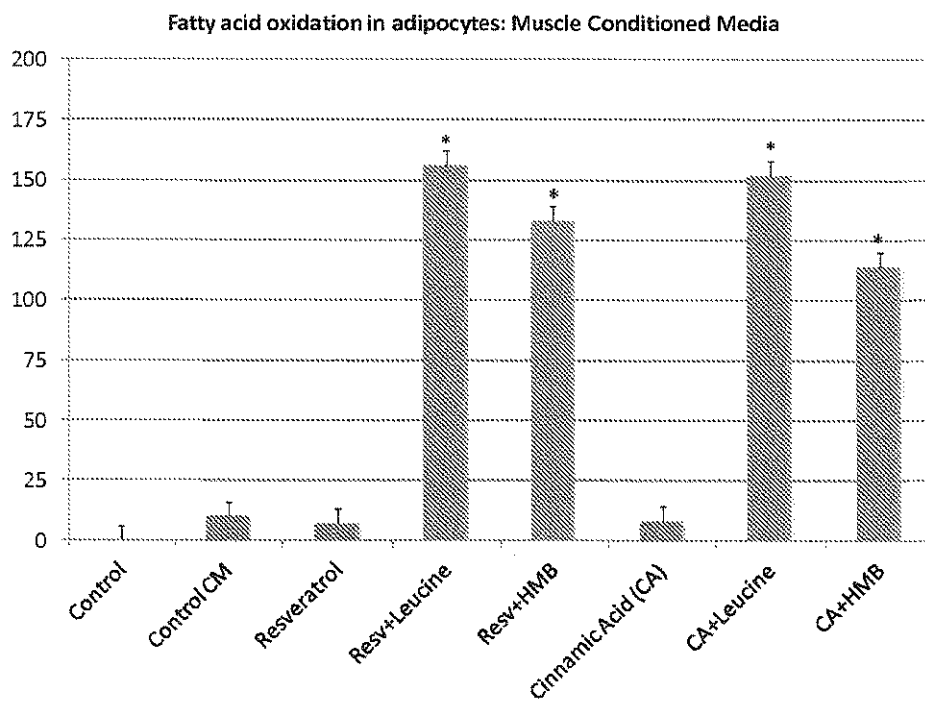


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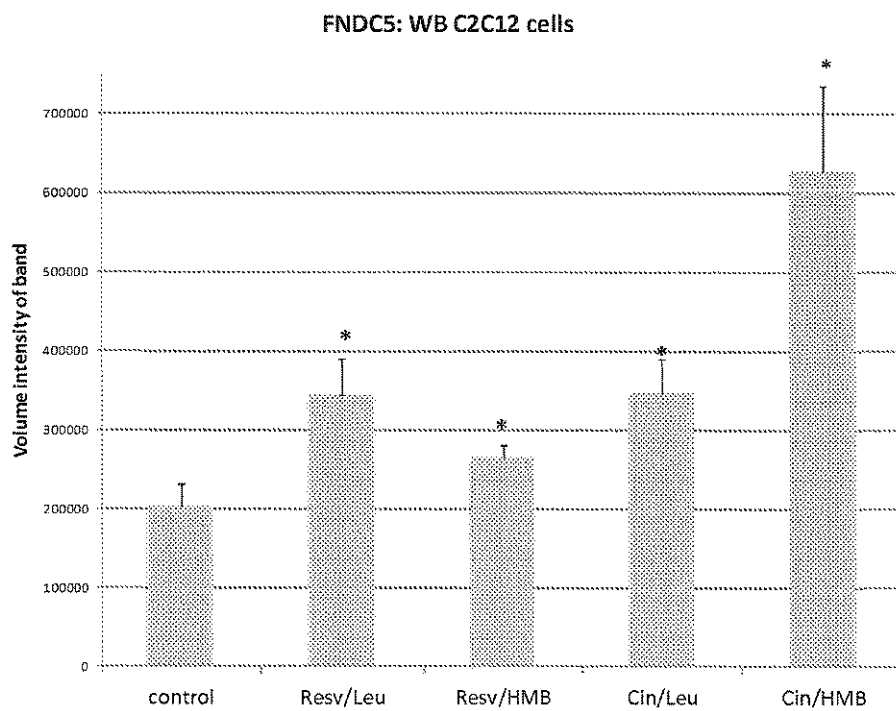


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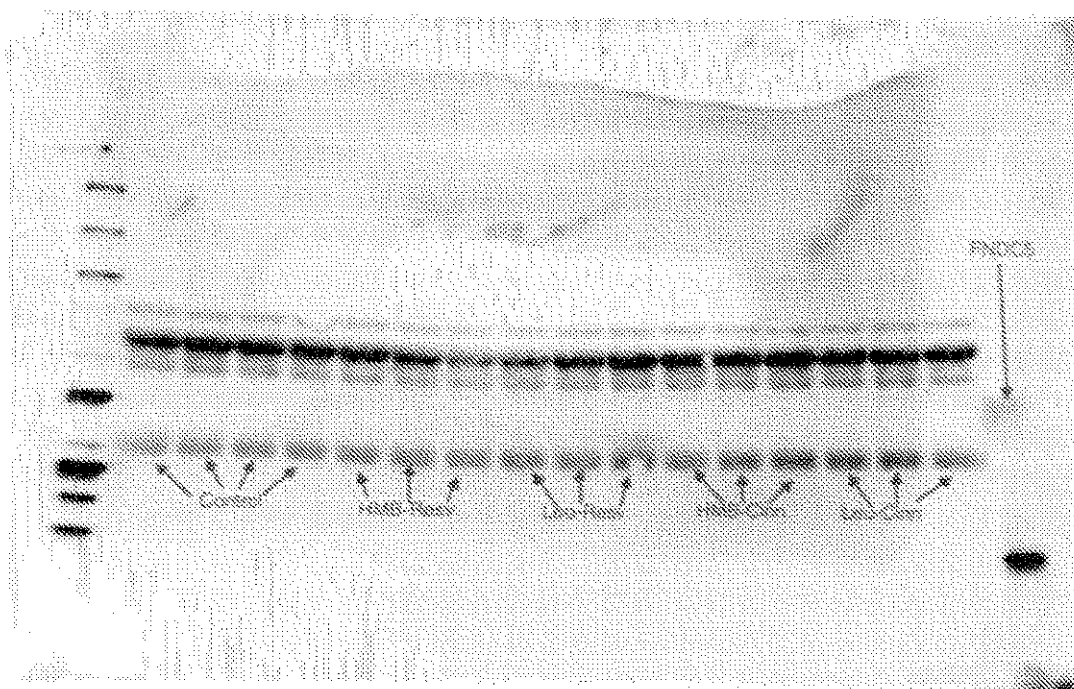


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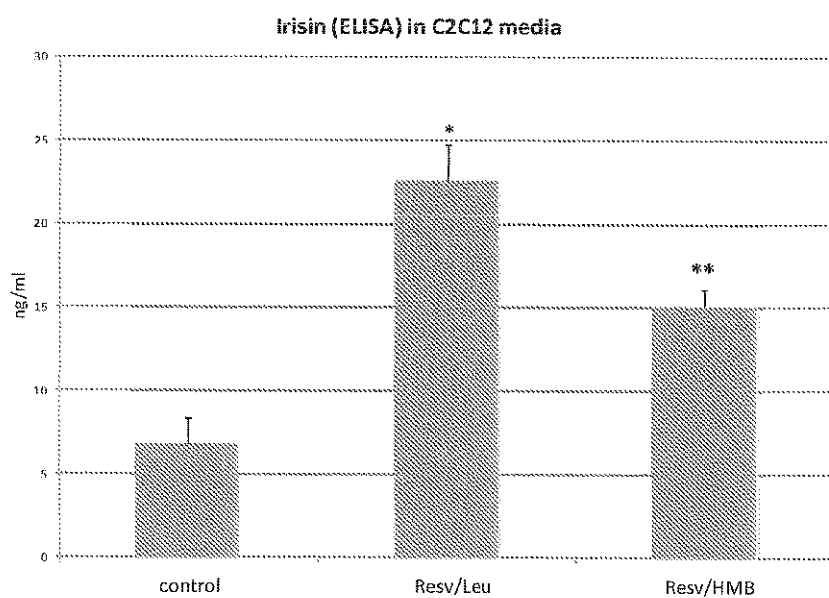
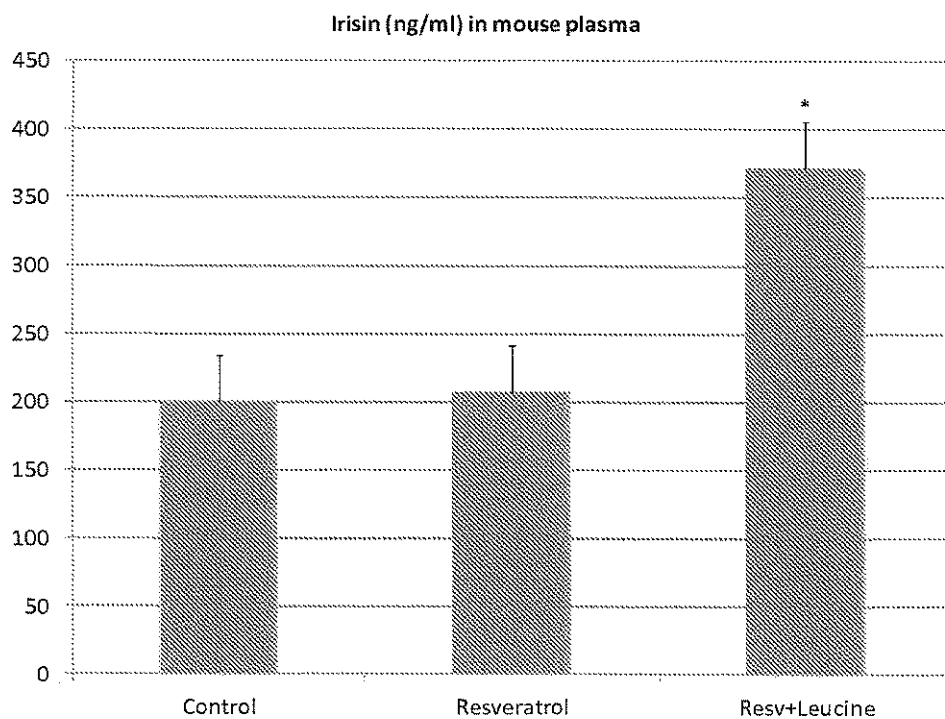
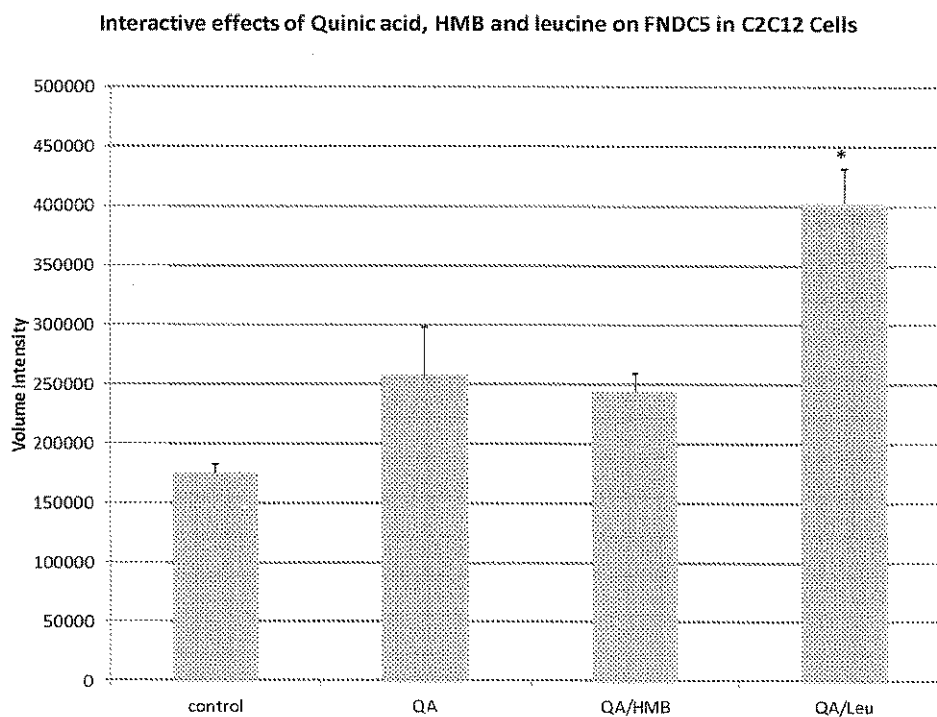


Figure 69

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**Figure 70****Figure 71**

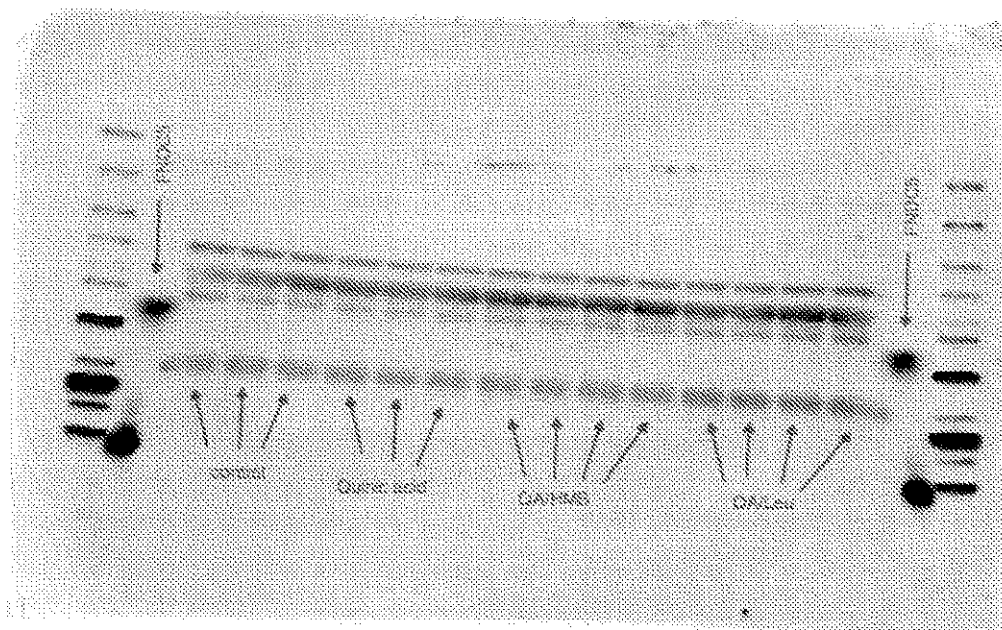


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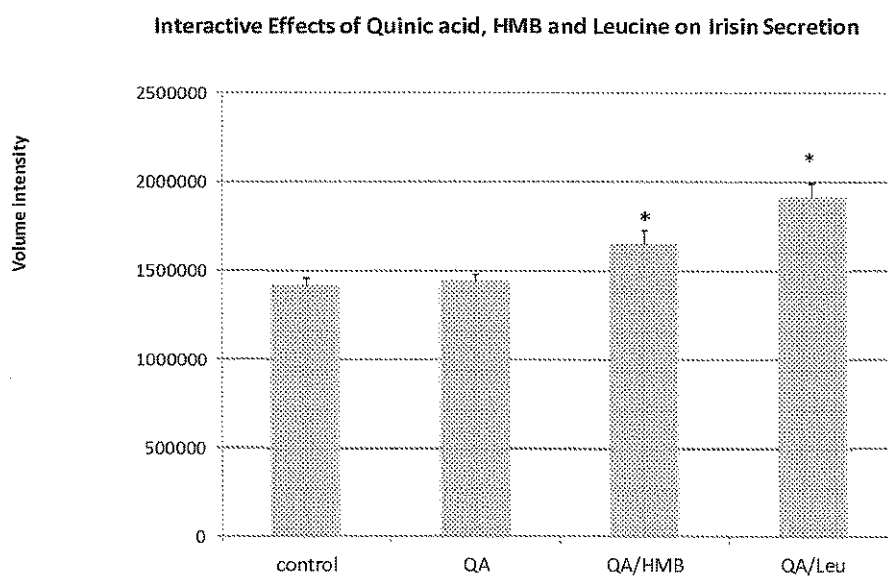


Figure 73

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

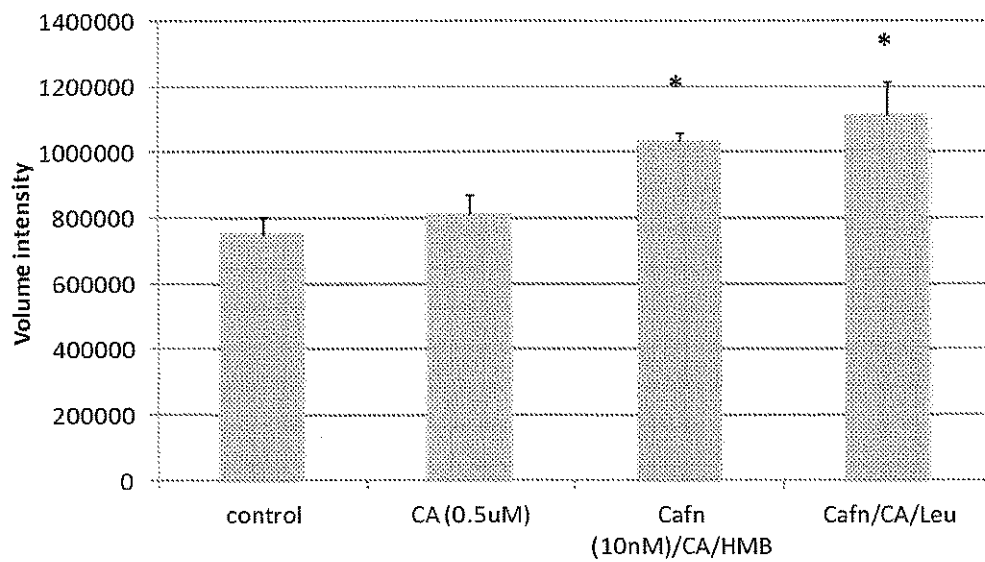


Figure 74

UCP1 mRNA in Mouse Subcutaneous Adipose Tissue

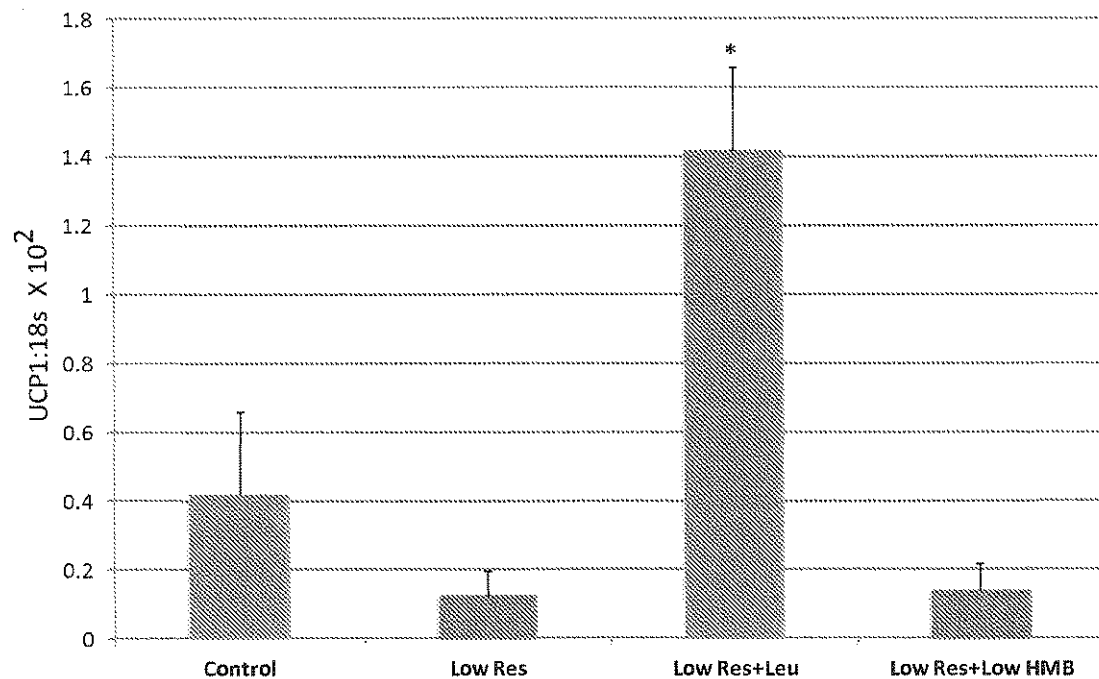
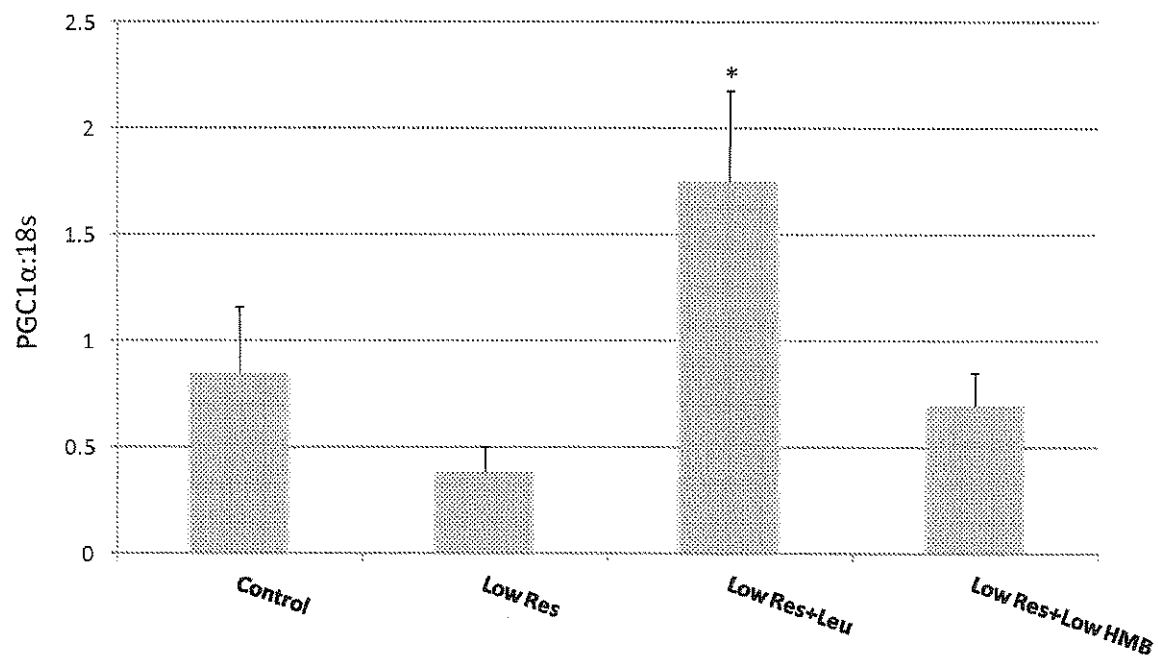


Figure 75

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