

Supporting Information

Figure 1

Expression levels of seven selected genes in subcutaneous and mediastinal adipose tissue from microarray analysis

Table 1

Top 20 GO gene sets enriched in mediastinal as compared to subcutaneous adipose tissue identified by gene set enrichment analysis

Figure 2

Volcano plots of the top 20 enriched gene sets in mediastinal as compared to subcutaneous adipose tissue

Figure 1

Expression levels of seven selected genes in subcutaneous and mediastinal adipose tissue from exon array analysis

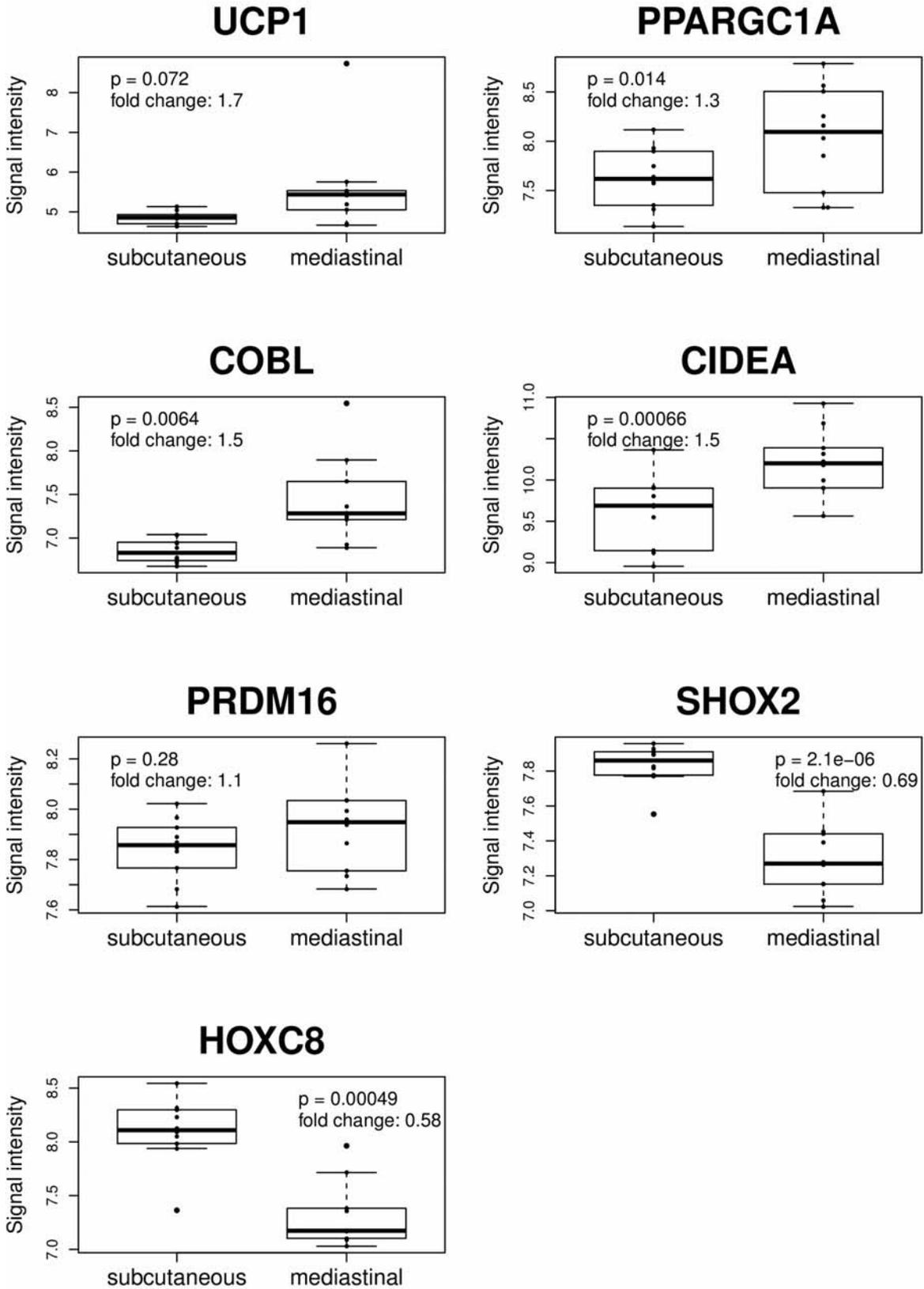


Table 1

Top 20 GO gene sets enriched in mediastinal as compared to subcutaneous adipose tissue identified by gene set enrichment analysis

Gene sets enriched in mediastinal adipose tissue	p	q
GO:0003723 RNA binding	3.68E-06	0.0022
GO:0005759 mitochondrial matrix	4.32E-06	0.0022
GO:0005743 mitochondrial inner membrane	3.29E-05	0.0110
GO:0016568 chromatin modification	0.0002	0.0437
GO:0003735 structural constituent of ribosome	0.0004	0.0714
GO:0006414 translational elongation	0.0006	0.0969
GO:0045449 regulation of transcription	0.0009	0.1254
GO:0008168 methyltransferase activity	0.0010	0.1301
GO:0005747 mitochondrial respiratory chain complex I	0.0017	0.1661
GO:0006412 translation	0.0017	0.1661
GO:0005840 ribosome	0.0019	0.1753
GO:0006635 fatty acid beta-oxidation	0.0024	0.1826
GO:0042645 mitochondrial nucleoid	0.0024	0.1826
GO:0008380 RNA splicing	0.0026	0.1826
GO:0005730 nucleolus	0.0027	0.1826
GO:0005681 spliceosome	0.0030	0.1909
GO:0030529 ribonucleoprotein complex	0.0039	0.2285
GO:0007166 cell surface receptor linked signal transduction	0.0051	0.2721
GO:0008137 NADH dehydrogenase (ubiquinone) activity	0.0052	0.2721
GO:0051539 4 iron, 4 sulfur cluster binding	0.0054	0.2722

Adjusted p-values (q-values) were calculated using the Benjamini and Hochberg step-up false discovery rate-controlling procedure [1].

Reference

1. Benjamini Y, Hochberg Y (1995) Controlling the False Discovery Rate: A Practical and Powerful Approach to Multiple Testing. *Journal of the Royal Statistical Society Series B (Methodological)* 57: 289–300. doi:10.2307/2346101.

