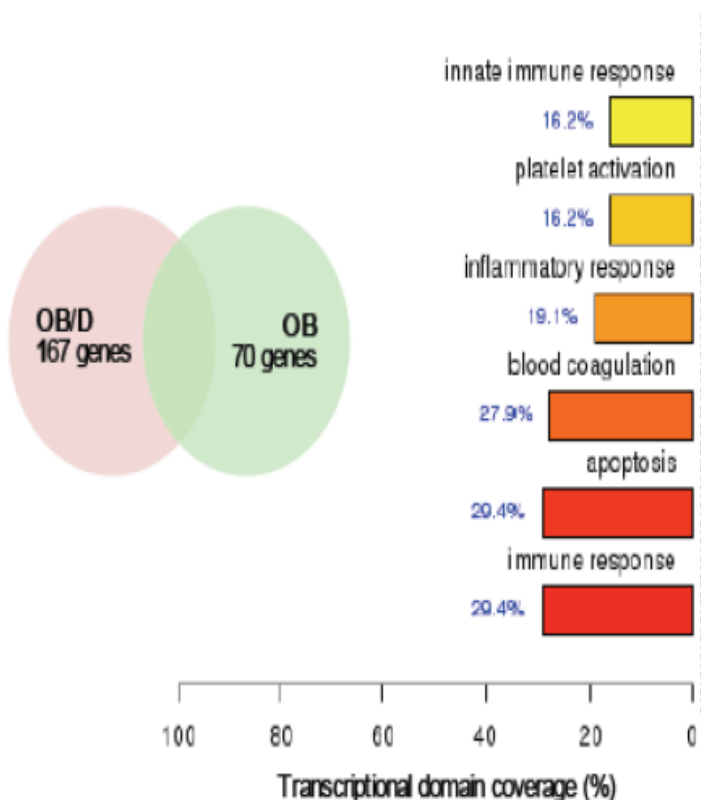


SUPPLEMENTARY DATA

**Supplementary Figure 1.** Transcriptomic signature of adipose tissue CD14<sup>+</sup> cells from type 2 diabetic obese patients. Genome-wide mRNA expression analysis using microarrays was performed in adipose tissue CD14<sup>+</sup> cells isolated from obese (OB, n = 6) and type-2 diabetic obese (OB/D, n = 6) subjects. (A) Venn diagram depicts the number of genes specifically regulated in CD14<sup>+</sup> cells isolated from OB and OB/D subjects. The functional themes regulated in CD14<sup>+</sup> cells isolated from OB/D subjects represented by enriched annotating categories of Gene Ontology (GO) are shown. (B) Summary of the top 10 up-regulated genes in CD14<sup>+</sup> cells isolated from OB/D compared to OB subjects. FDR represents the False Discovery Rate. Genes were considered significantly regulated when FDR is < 5 %.

**A** Transcriptomic signature of CD14<sup>+</sup> cells from OB/D

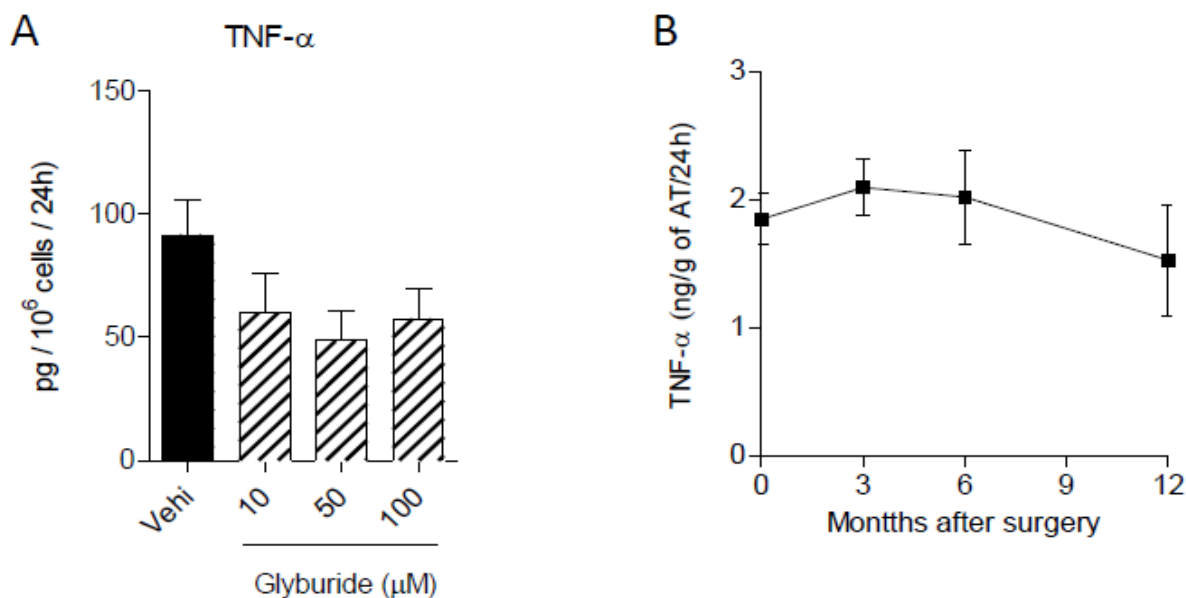


**B** Top 10 inflammatory genes in CD14<sup>+</sup> cells

Gene	Ratio OB/D:OB	FDR (%)
<i>NLRP3</i>	2.83	4.06
<i>TNF</i>	2.28	2.75
<i>RGS1</i>	2.00	0.00
<i>PTX3</i>	1.97	4.06
<i>CD163</i>	1.95	0.00
<i>SLC11A1</i>	1.87	4.06
<i>IL1B</i>	1.75	4.95
<i>TANK</i>	1.70	4.06
<i>IL8</i>	1.54	4.95
<i>CEBPB</i>	1.48	0.00

SUPPLEMENTARY DATA

**Supplementary Figure 2.** (A) NLRP-3-independent TNF- $\alpha$  production by adipose CD14+ cells. CD14+ cells were isolated from adipose tissue of obese subjects (n = 5) and treated with incremental doses of NLRP3-inhibitor glyburide. (B) TNF- $\alpha$  production by adipose tissue during RYGP-induced weight loss. Adipose tissue explants were obtained from obese subjects at the time of RYGP surgery (month 0) and at months 36 (n = 20) and 12 (n = 9). Data are shown as means  $\pm$  SEM.



**Supplementary Figure 3.** Expression of T cell cytokines in adipose CD3+ cell enriched fraction. Quantitative PCR analyses of *CD3* and T cell cytokine gene expression in cellular fractions prepared from adipose tissue biopsies of OB subjects (n=10). Ad: adipocytes; Neg: CD14-CD3- cells; SVF: stroma vascular fraction.

