

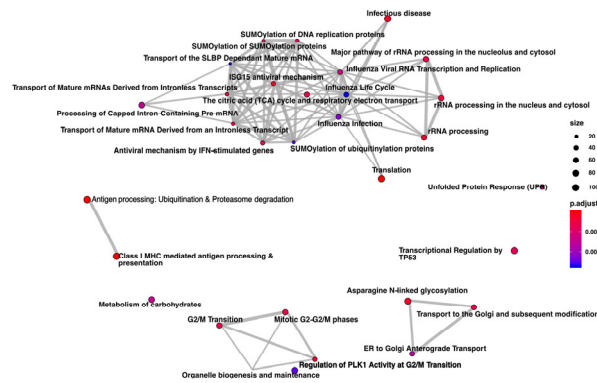
SUPPLEMENTARY

Table S1. Anthropometric and biochemical variables.

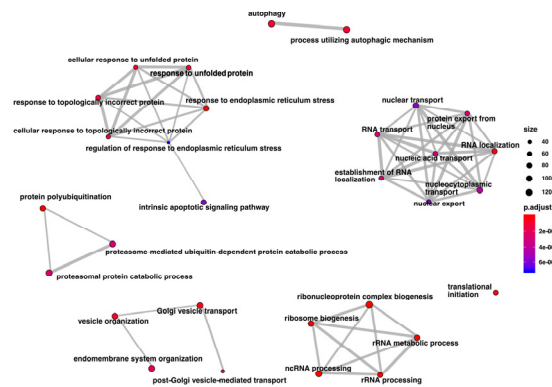
	<b>NOb</b>	<b>Ob.LIR</b>	<b>Ob.HIR</b>
<b>Age</b>	49.75±7.93	45.75±9.35	48.00±10.73
<b>Gender (M/F)</b>	2 / 2	0/4	3 / 1
<b>Diabetes</b>	0	0	1
<b>Statins</b>	0	0	1
<b>Metformin</b>	0	0	1
<b>Waist</b>	85.75±8.84 <sup>a</sup>	133.75±11.61 <sup>b</sup>	154.00±18.20 <sup>b</sup>
<b>BMI</b>	24.04±2.09 <sup>a</sup>	51.34±0.00 <sup>b</sup>	52.6±0.50 <sup>b</sup>
<b>Glucose</b>	104.75±9.57	99.5±12.87	122.75±26.31
<b>Insulin</b>	12.73±7.88 <sup>a</sup>	14.27±3.28 <sup>a</sup>	36.657±7.57 <sup>b</sup>
<b>HOMA-IR</b>	3.30±2.06 <sup>a</sup>	3.53±1.11 <sup>a</sup>	10.80±1.55 <sup>b</sup>
<b>Tg</b>	123.25±45.96	147.75±39.81	112±25.78
<b>Chol</b>	229.25±36.48	209±42.24	174.5±39.06
<b>HDL-Cho</b>	55.25±23.30	42.75±8.26	45.50±5.80
<b>LDL-Cho</b>	156.25±47.89	133.85±44.82	105.80±33.72

Abbreviations: Body mass index (BMI); Homeostatic model assessment of insulin resistance (HOMA-IR); triglycerides (Tg); total cholesterol (Chol); high-density lipoprotein cholesterol (HDL-Cho); low-density lipoprotein cholesterol (LDL-Cho). Different letters mean differences among groups (pval<0.05).

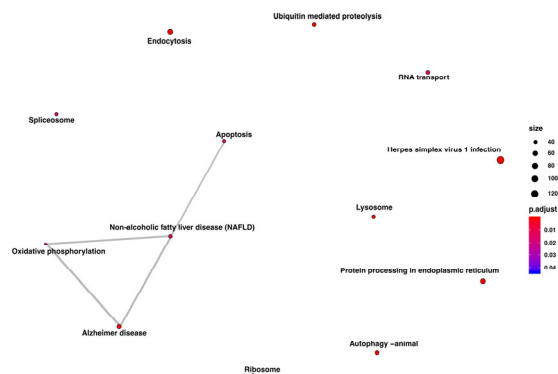
## A Reactome



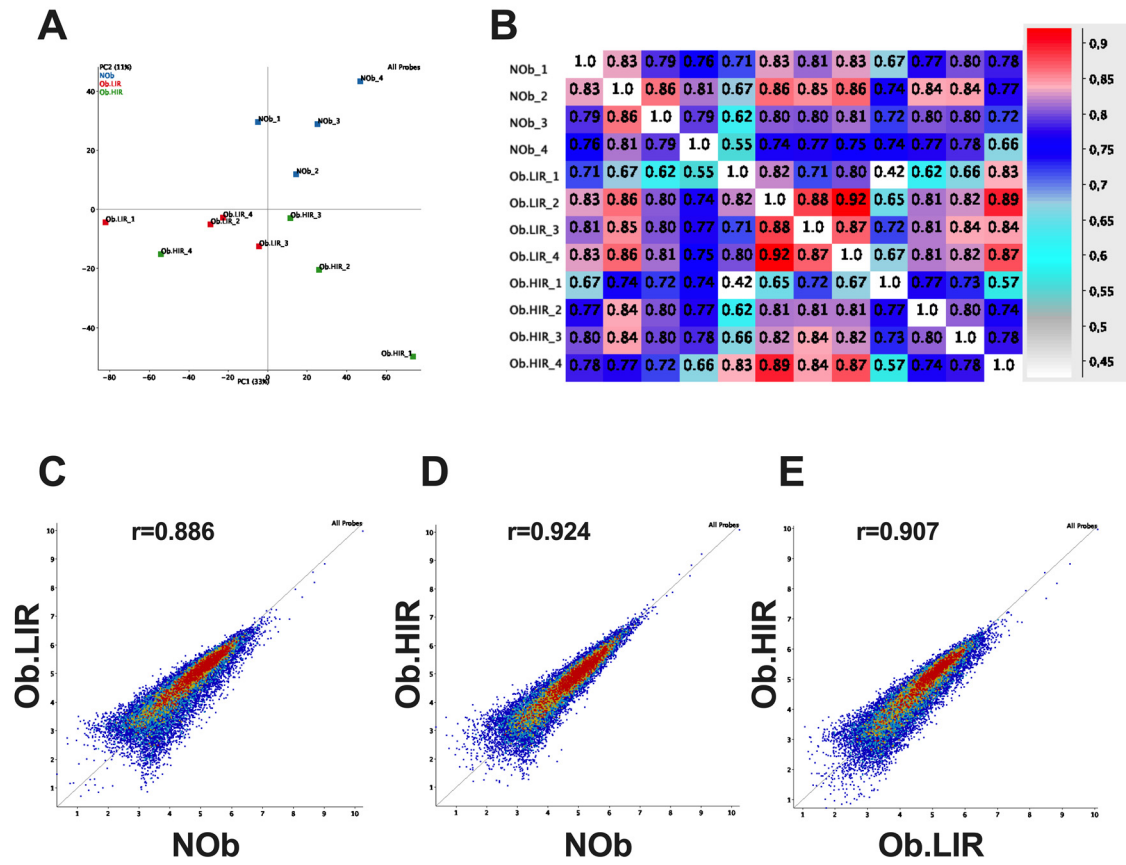
## B GO



## C KEGG



**Figure S1. The top significantly H3K4me3 enriched pathways analyzed by Reactome (A), GO biological function (B) and KEGG (C) databases.**



**Figure S2.** Store similarity for H3K4me3 enrichment among study participants. PCA plot (A) and correlation matrix (B). H3K4m3 store similarity among the 3 groups (C, D and E).

## RNA seq in groups

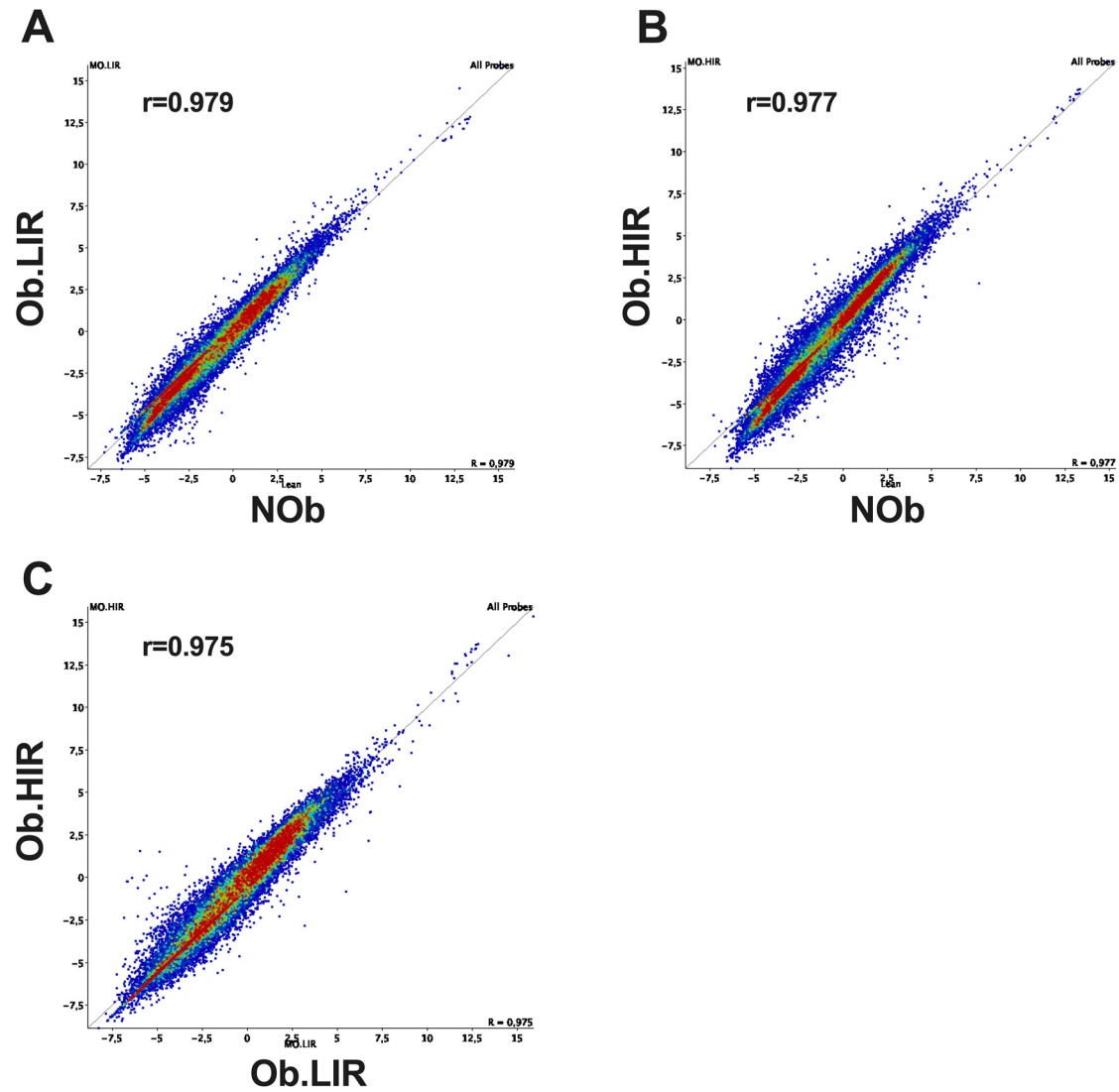


Figure S3. Store similarity for mRNA expression among study groups.