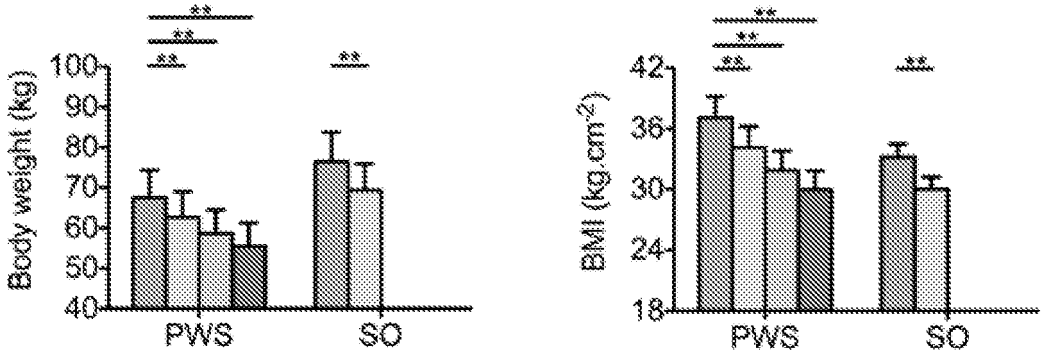


Figure 1A

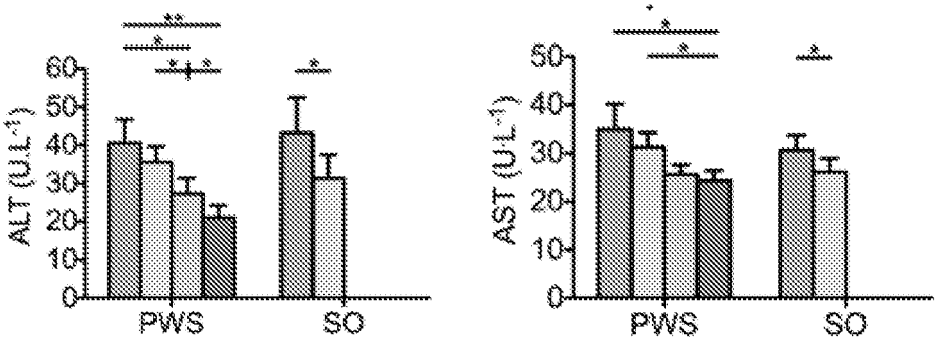


Figure 1B

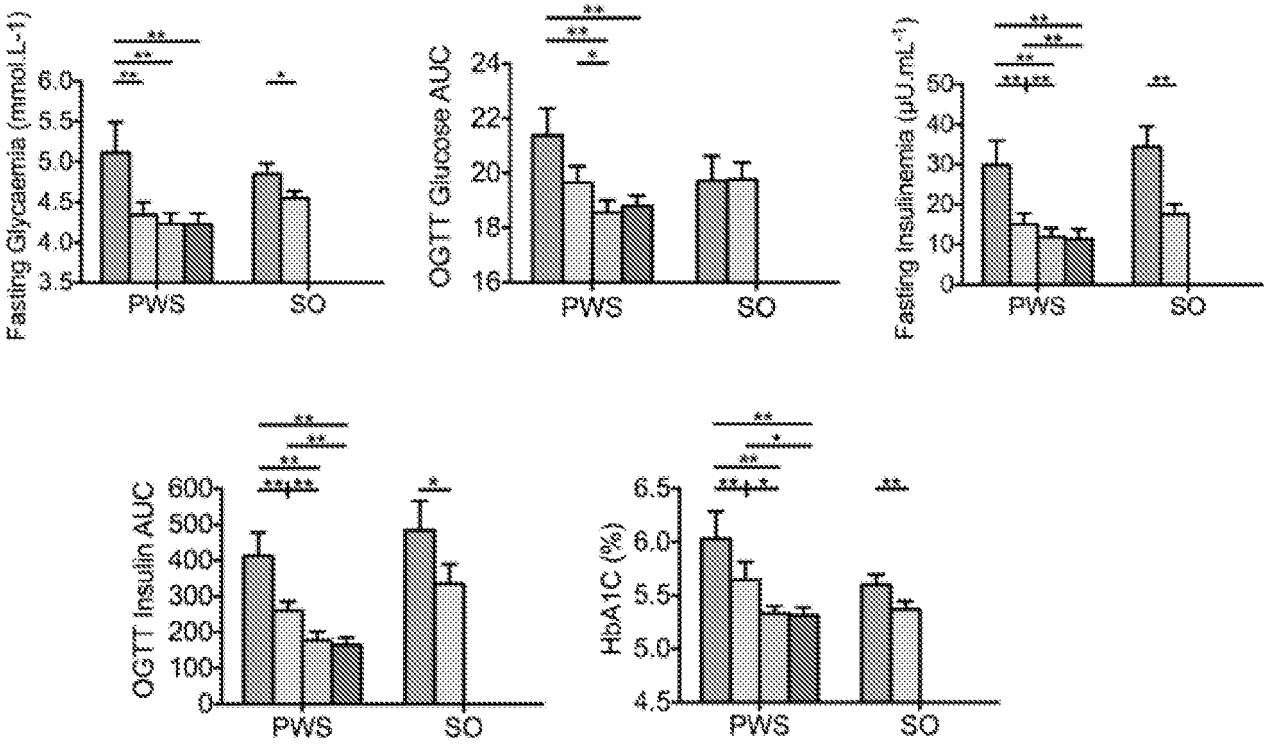


Figure 1C

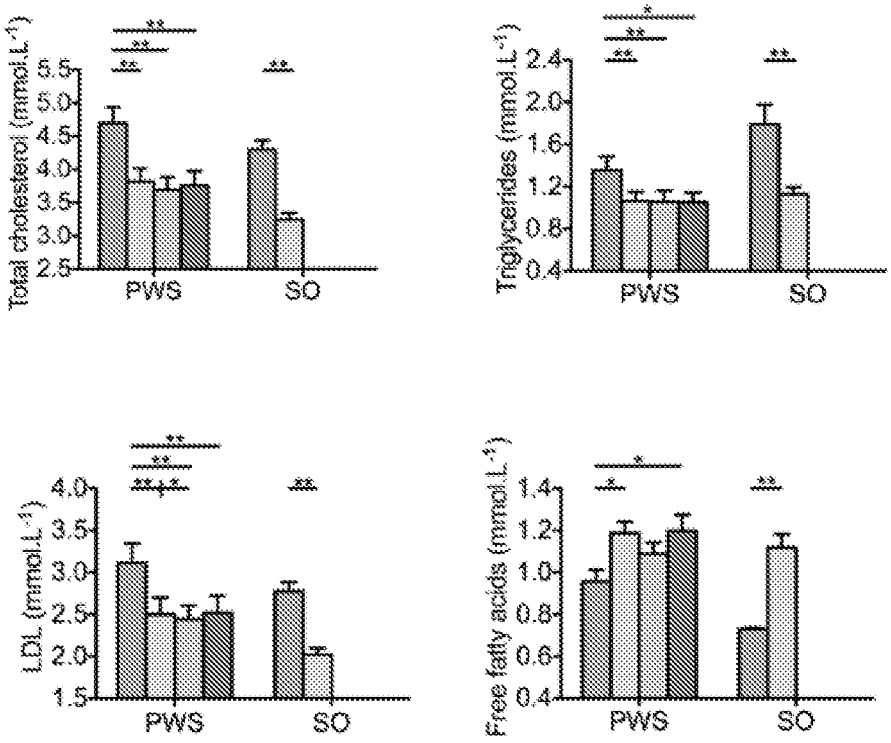

Total cholesterol (mmol.L-1)
5.5
5.0
4.5
4.0
3.5
3.0
2.5
PWS
SO
Triglycerides (mmol.L-1)
2.4
2.0
1.6
1.2
0.8
0.4
PWS
SO
LDL (mmol.L-1)
4.0
3.5
3.0
2.5
2.0
1.5
PWS
SO
Free fatty acids (mmol.L-1)
1.4
1.2
1.0
0.8
0.6
0.4
PWS
SO

Figure 1D

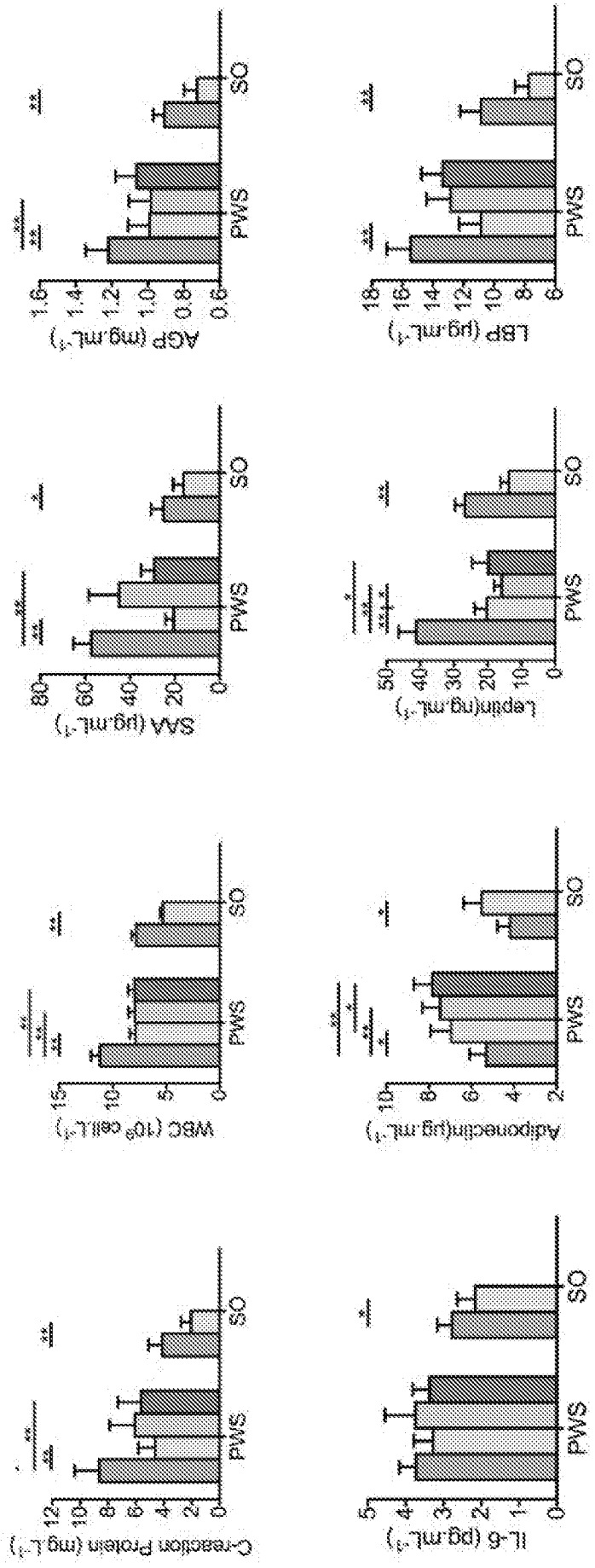

C-reaction Protein (mg.L-1)
IL-6 (pg.mL-1)
WBC (10^9 cell.L-1)
Adiponectin(μg.mL-1)
SAA (μg.mL-1)
Leptin(ng.mL-1)
AGP (mg.mL-1)
LBP (μg.mL-1)
PWS
SO
0 day
30 day
60 day
90 day

Figure 1E

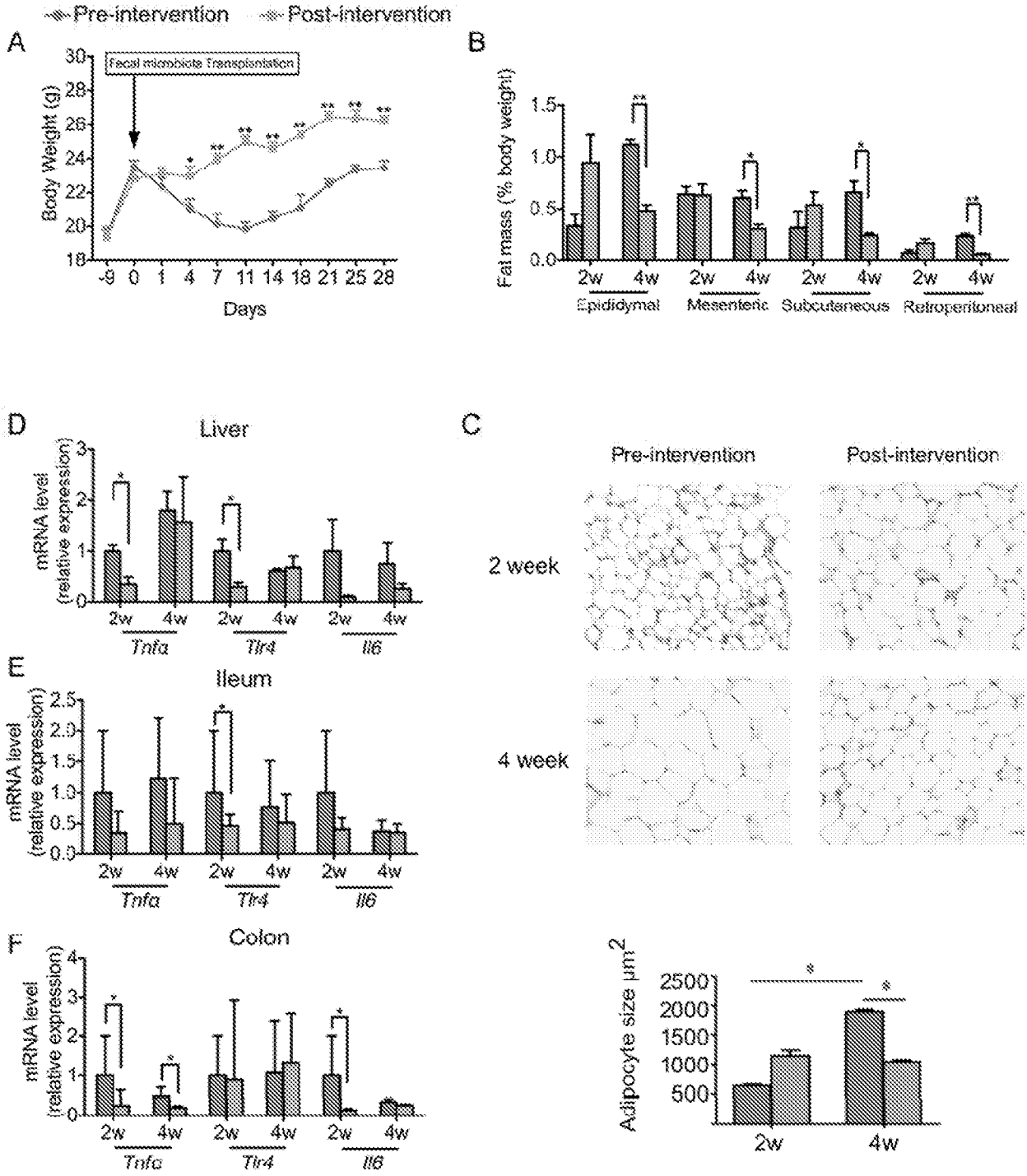

A
Pre-intervention
Post-intervention
Fecal microbiota transplantation
Body Weight (g)
Days
B
Fat mass (% body weight)
2w
4w
Epididymal
Mesenteric
Subcutaneous
Retroperitoneal
C
Pre-intervention
Post-intervention
2 week
4 week
D
Liver
mRNA level (relative expression)
Tnfa
Tlr4
Il6
E
Ileum
F
Colon
Adipocyte size μm2

Figure 2

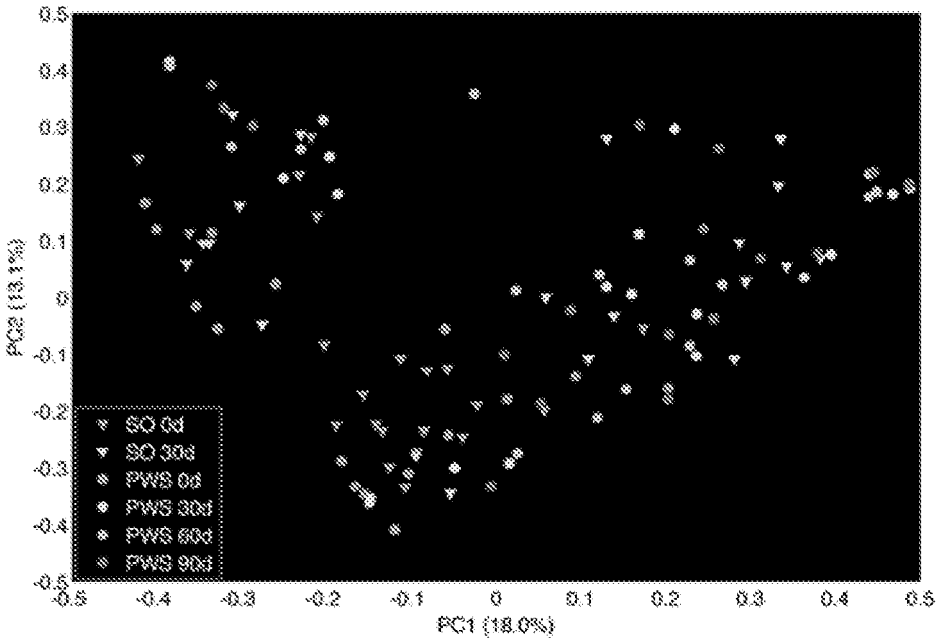


Figure 3A

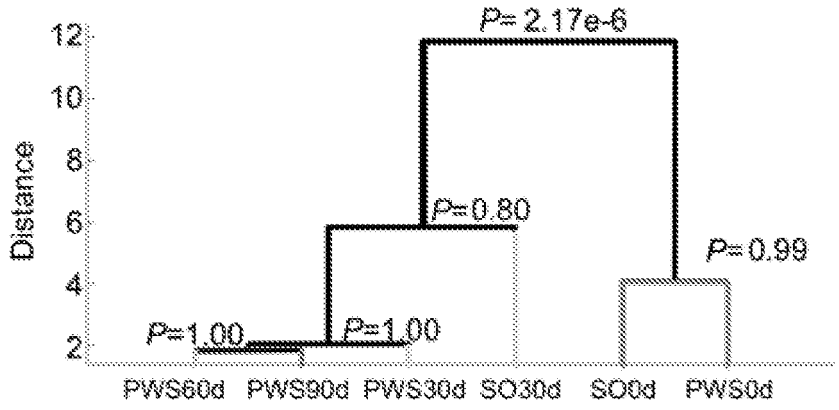


Figure 3B

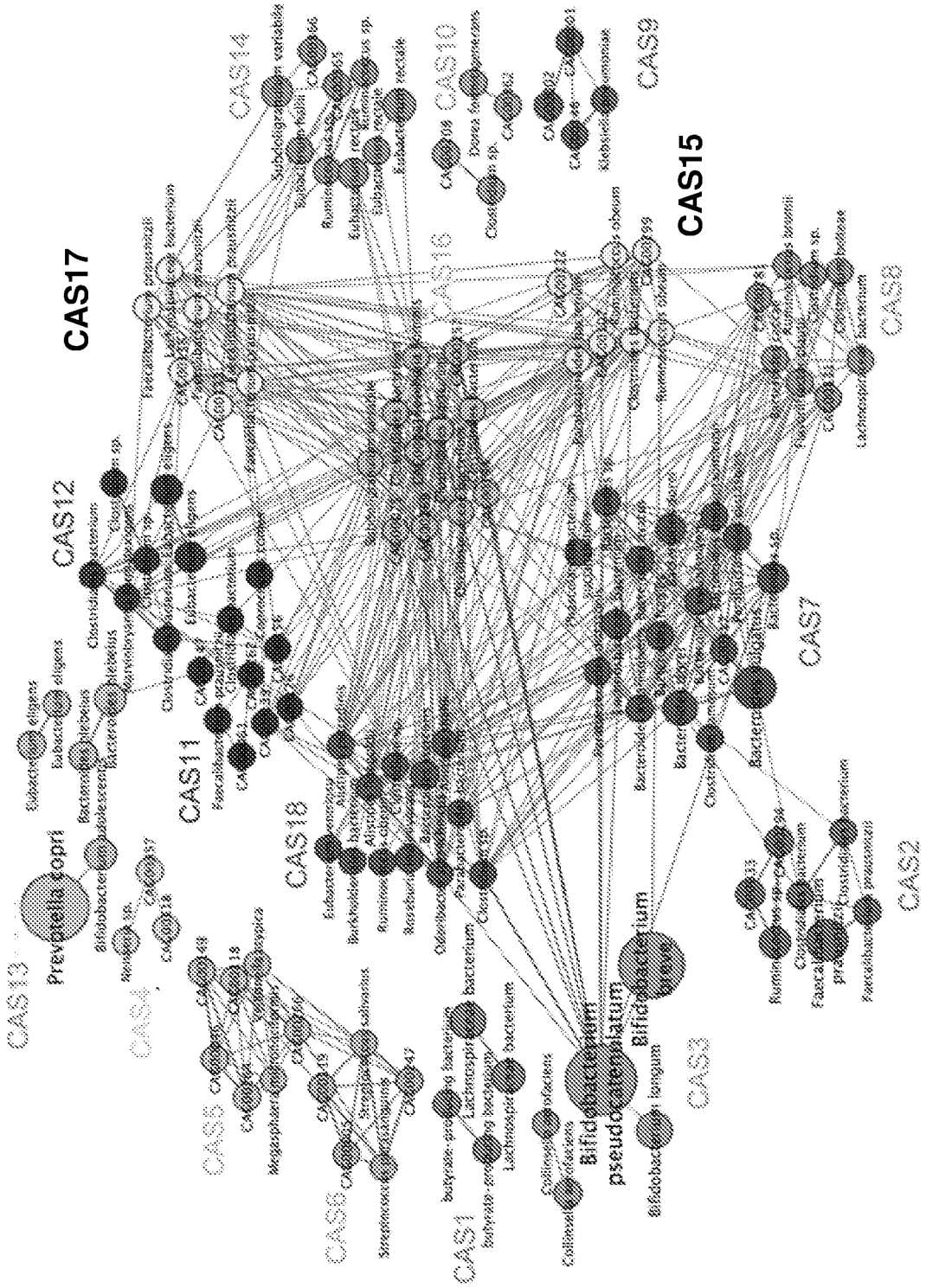

CAS13
CAS4
CAS17
CAS12
CAS14
CAS11
CAS18
CAS16
CAS10
CAS9
CAS15
CAS8
CAS7
CAS5
CAS6
CAS1
CAS3
CAS2
Prevotella copri
Bifidobacterium pseudocatenulatum
Bifidobacterium longum

Figure 3C

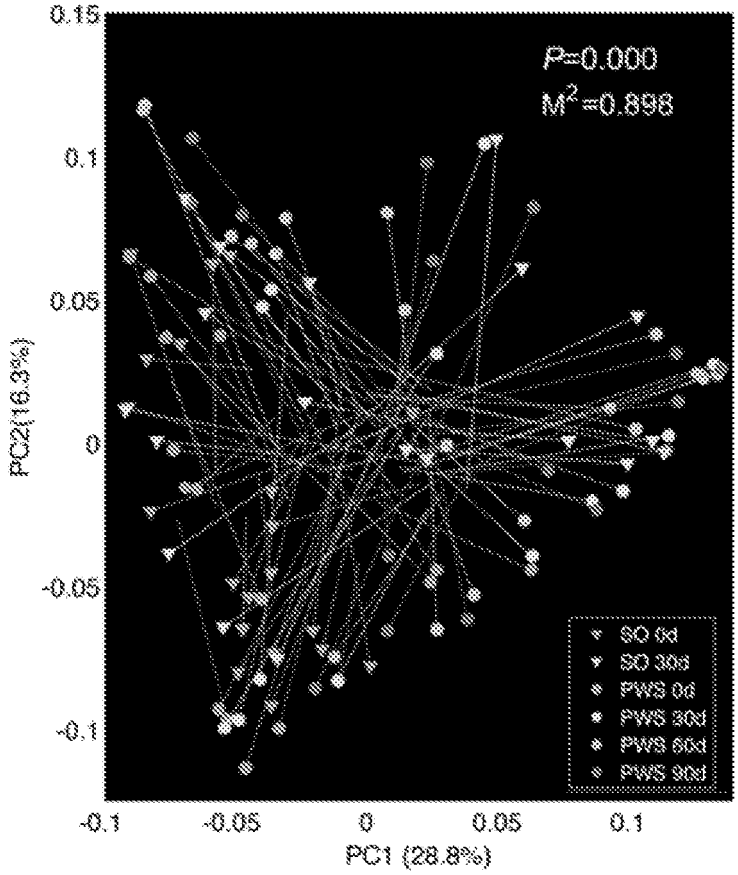

P=0.000
M2=0.898
0.15
0.1
0.05
0
-0.05
-0.1
PC2(16.3%)
-0.1
-0.05
0
0.05
0.1
PC1 (28.8%)
SO 0d
SO 30d
PWS 0d
PWS 30d
PWS 60d
PWS 90d

Figure 3D

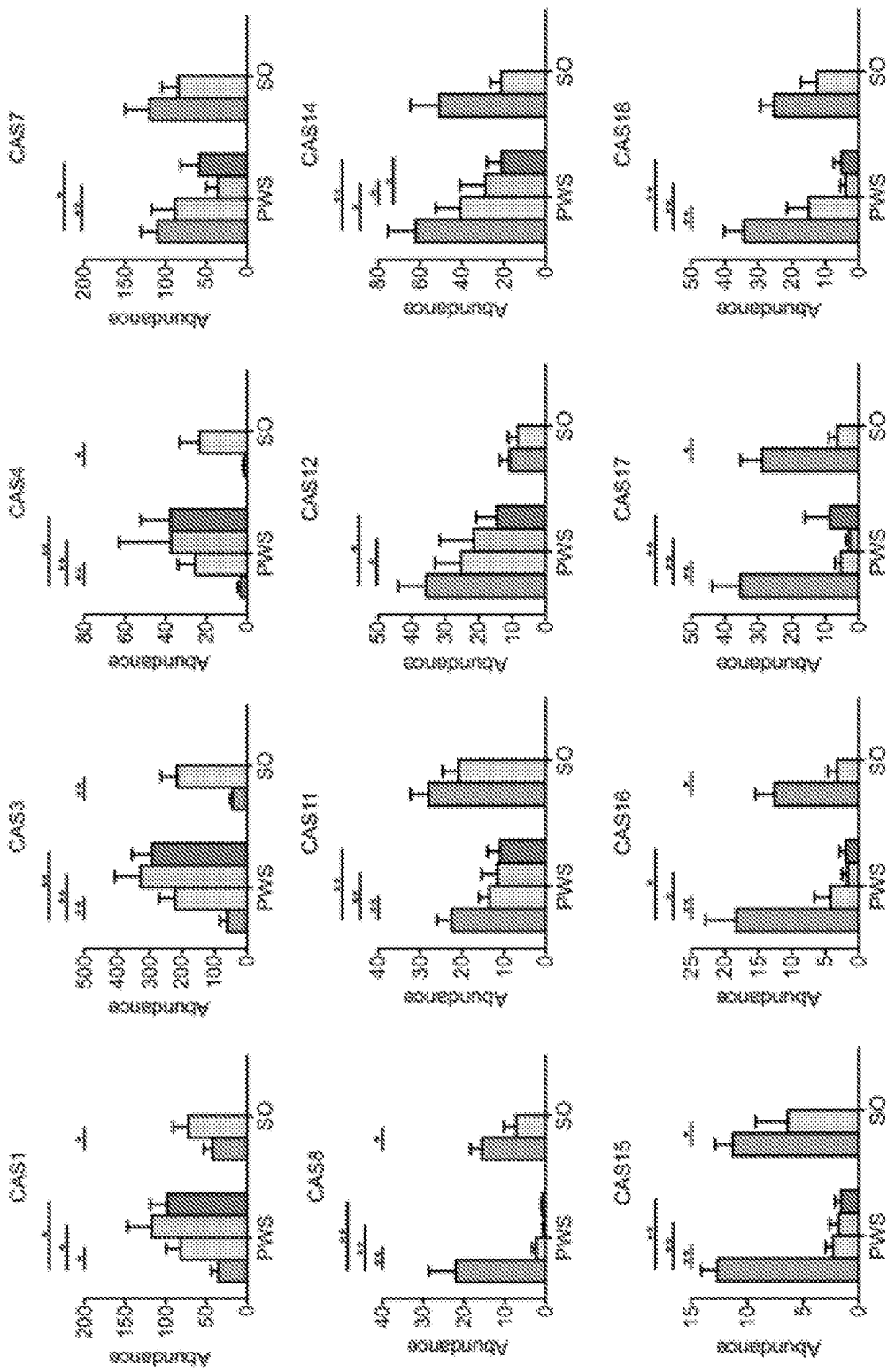

CAS1
CAS3
CAS4
CAS7
CAS8
CAS11
CAS12
CAS14
CAS15
CAS16
CAS17
CAS18
Abundance
PWS
SO

Figure 3E

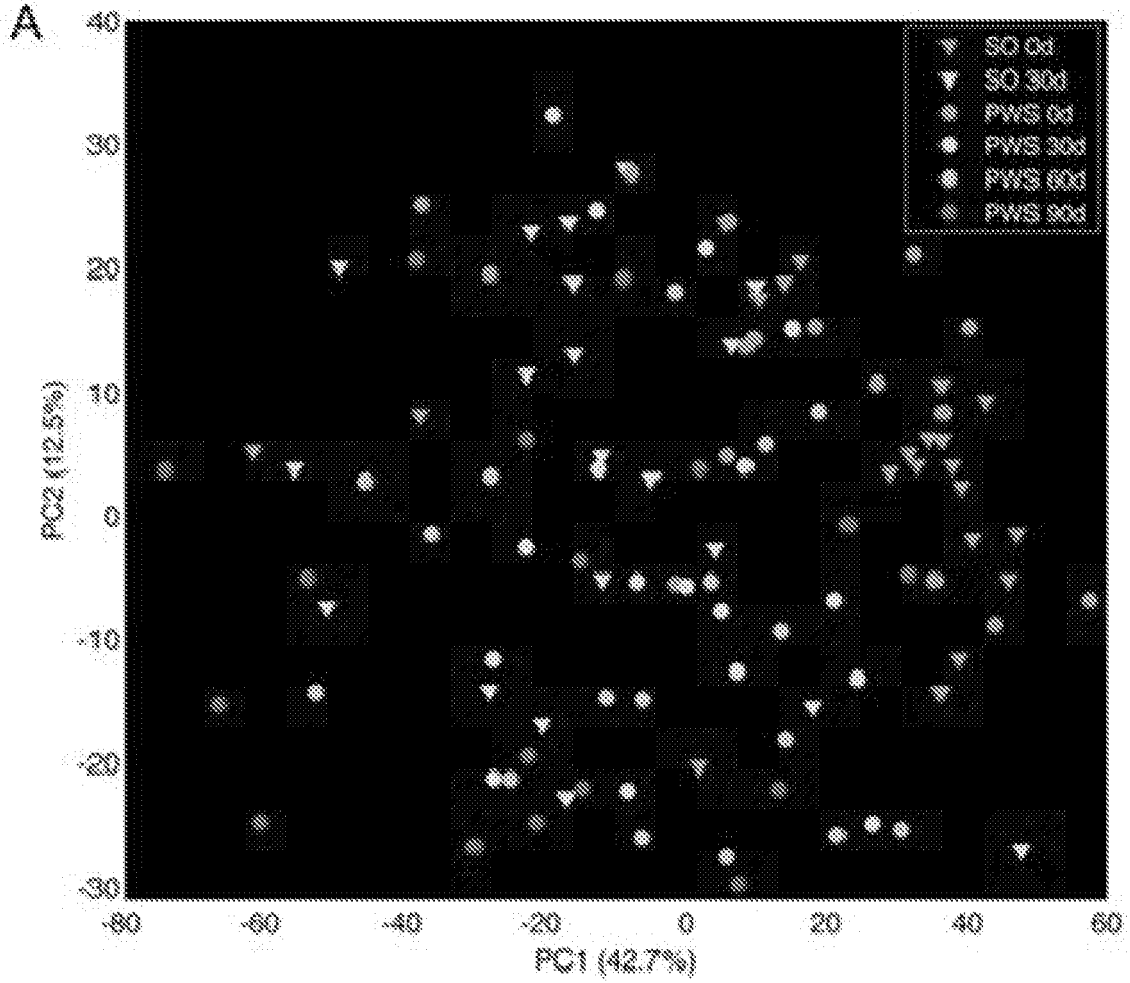

A
SO Ctl
SO 30d
PWS Ctl
PWS 30d
PWS 60d
PWS 90d
PC2 (12.5%)
PC1 (42.7%)
40
30
20
10
0
-10
-20
-30
-80
-60
-40
-20
0
20
40
60

Figure 4A

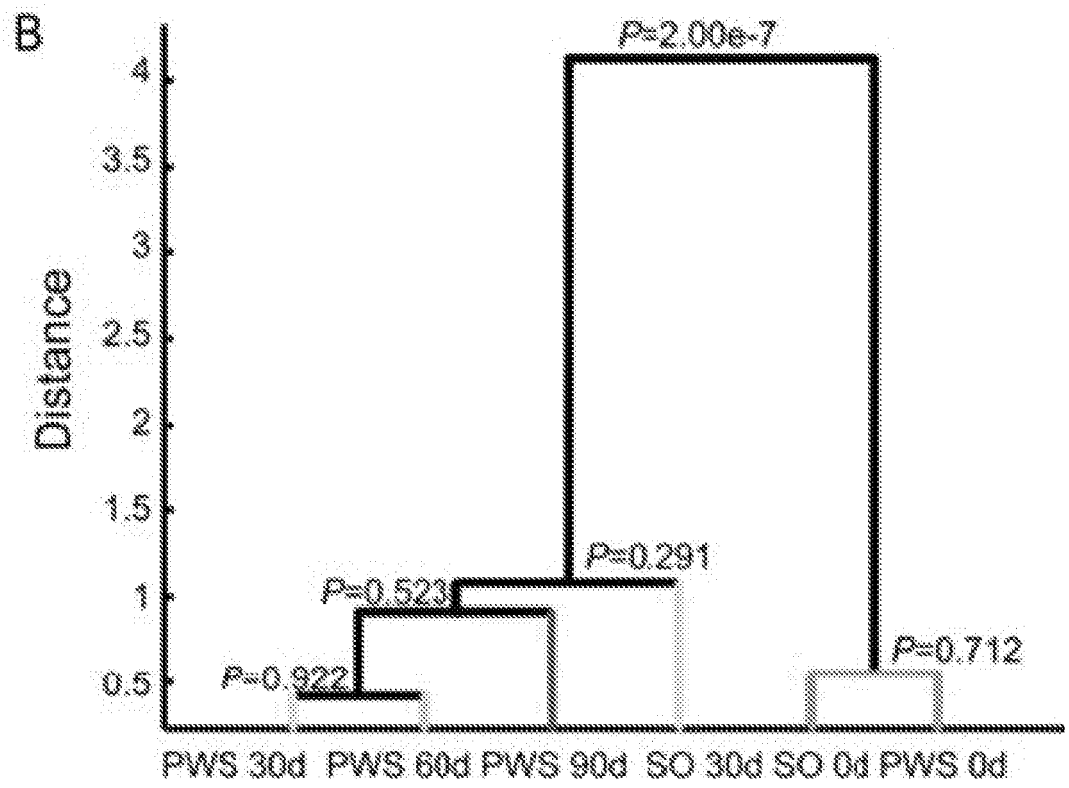

B
Distance
4
3.5
3
2.5
2
1.5
1
0.5
P=2.00e-7
P=0.291
P=0.523
P=0.922
P=0.712
PWS 30d
PWS 60d
PWS 90d
SO 30d
SO 0d
PWS 0d

Figure 4B

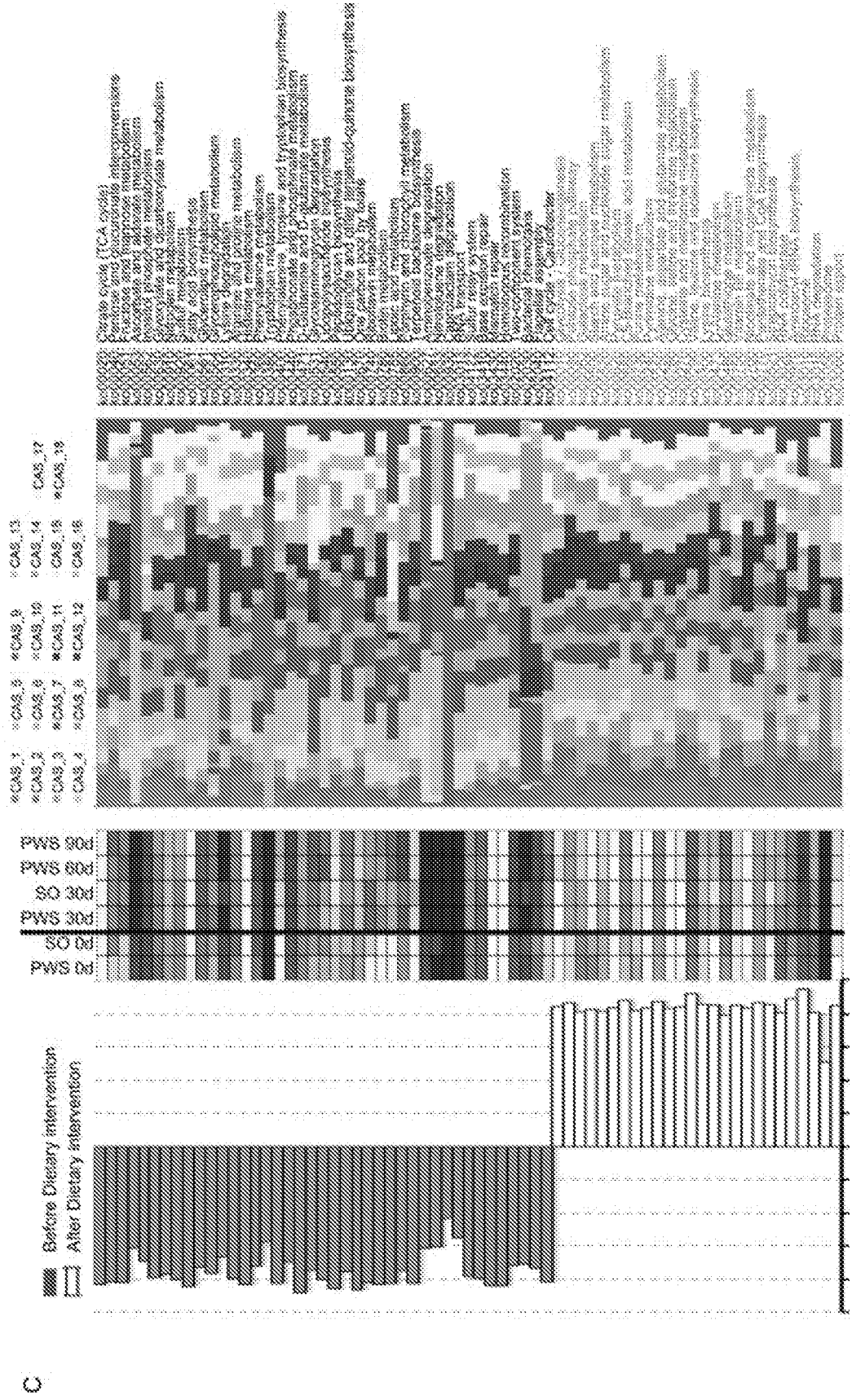

Before Dietary intervention
After Dietary intervention
PWS 0d
SO 0d
PWS 30d
SO 30d
PWS 60d
PWS 90d

Figure 4C

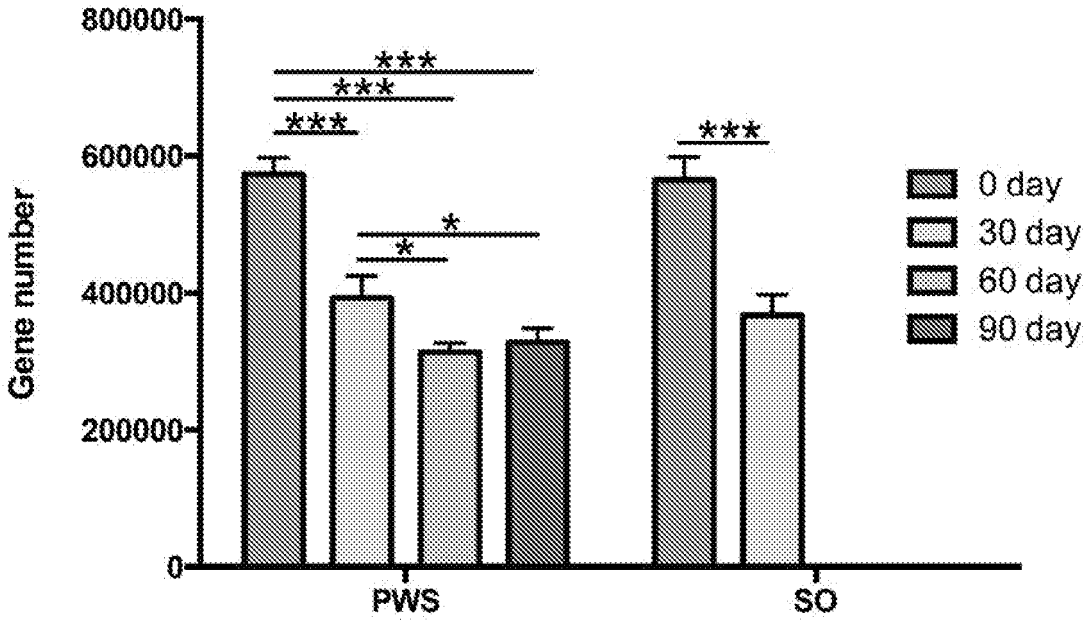

800000
600000
400000
200000
0
Gene number
***
***
***
*
*
***
PWS
SO
0 day
30 day
60 day
90 day

Figure 5

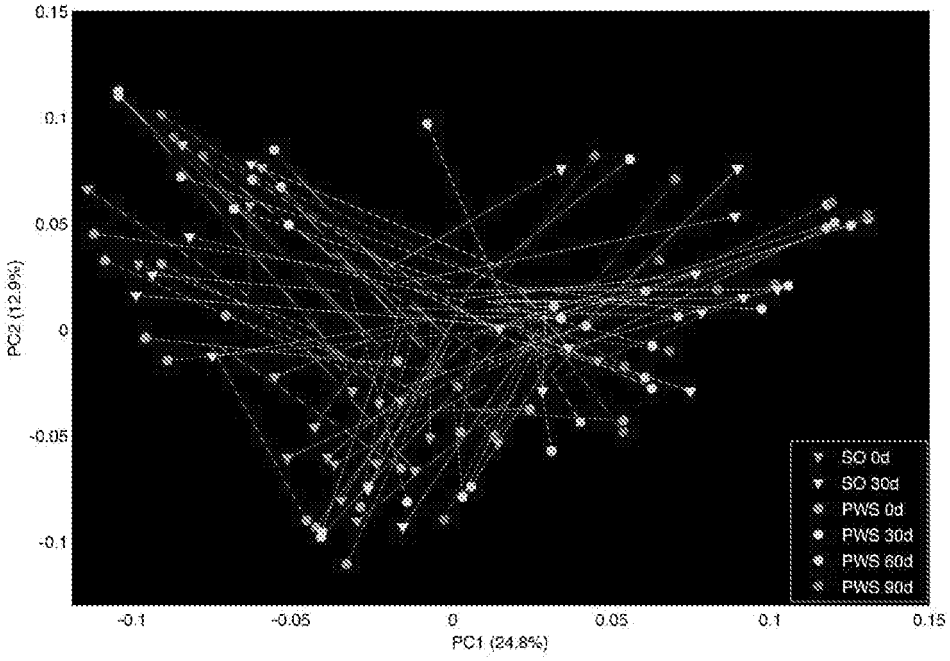

0.15
0.1
0.05
0
-0.05
-0.1
PC2 (12.9%)
-0.1
-0.05
0
0.05
0.1
0.15
PC1 (24.8%)
SO 0d
SO 30d
PWS 0d
PWS 30d
PWS 60d
PWS 90d

Figure 6

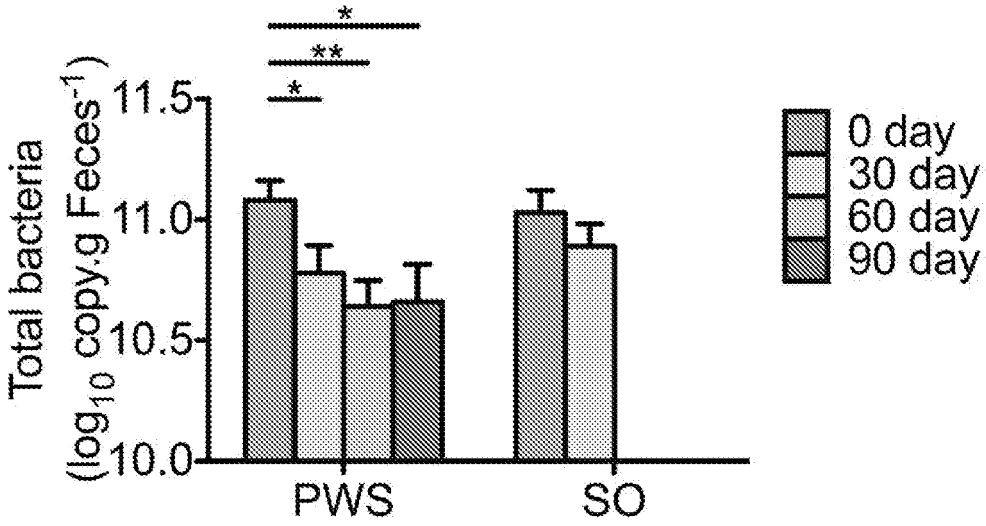

*
**
*
Total bacteria
(log10 copy.g Feces-1)
11.5
11.0
10.5
10.0
PWS
SO
0 day
30 day
60 day
90 day

Figure 7

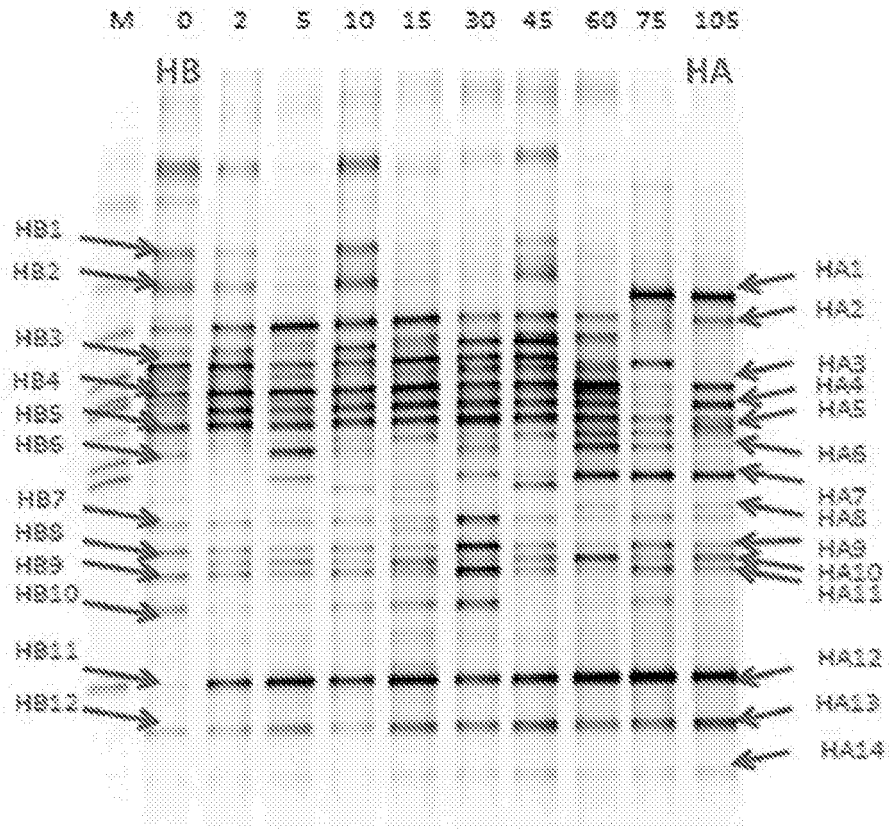

M
0
2
5
10
15
30
45
60
75
105
HB
HA
HB1
HB2
HB3
HB4
HB5
HB6
HB7
HB8
HB9
HB10
HB11
HB12
HA1
HA2
HA3
HA4
HA5
HA6
HA7
HA8
HA9
HA10
HA11
HA12
HA13
HA14

Figure 8