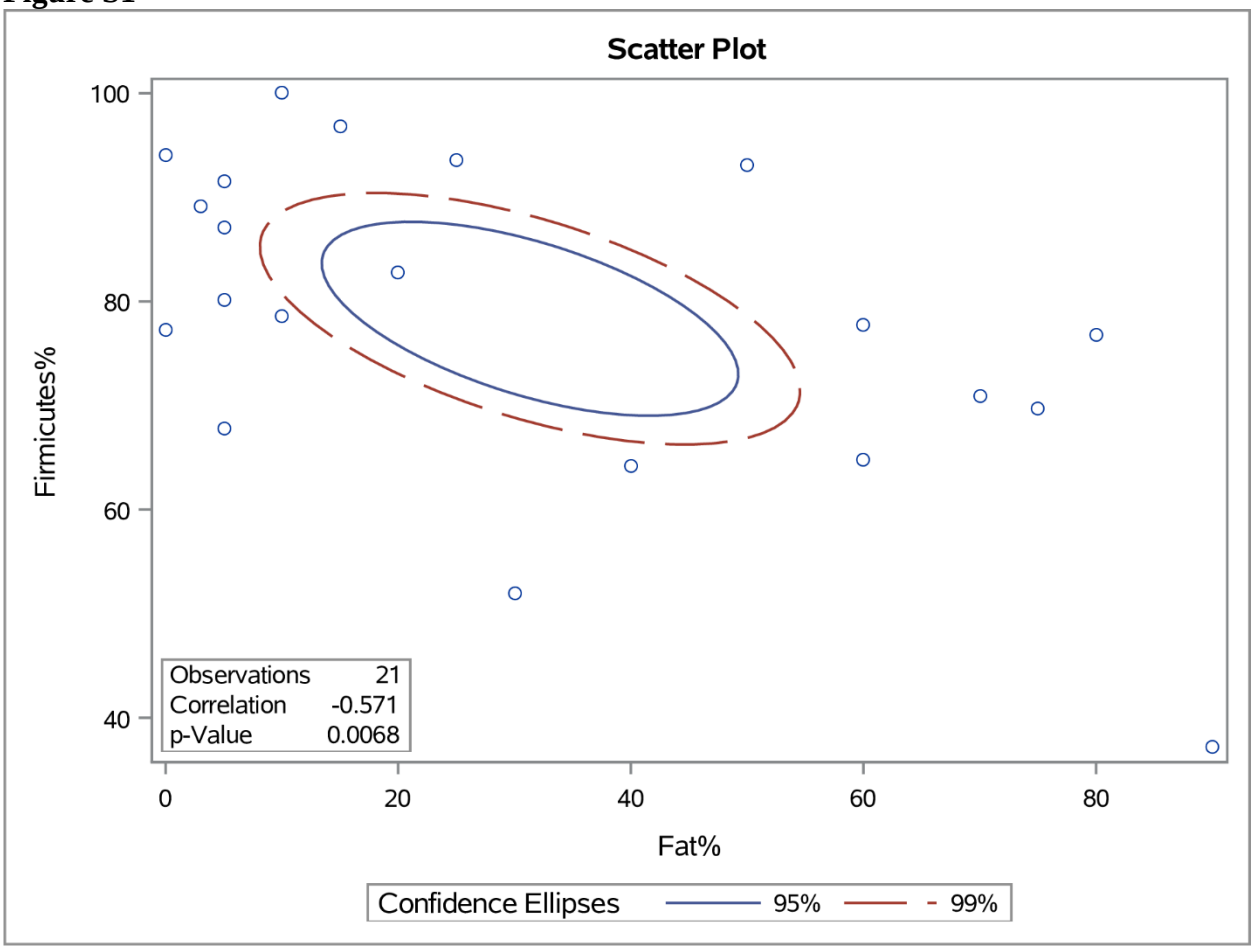
SDC

Figure S1-S11: Correlation plots

Figure S1



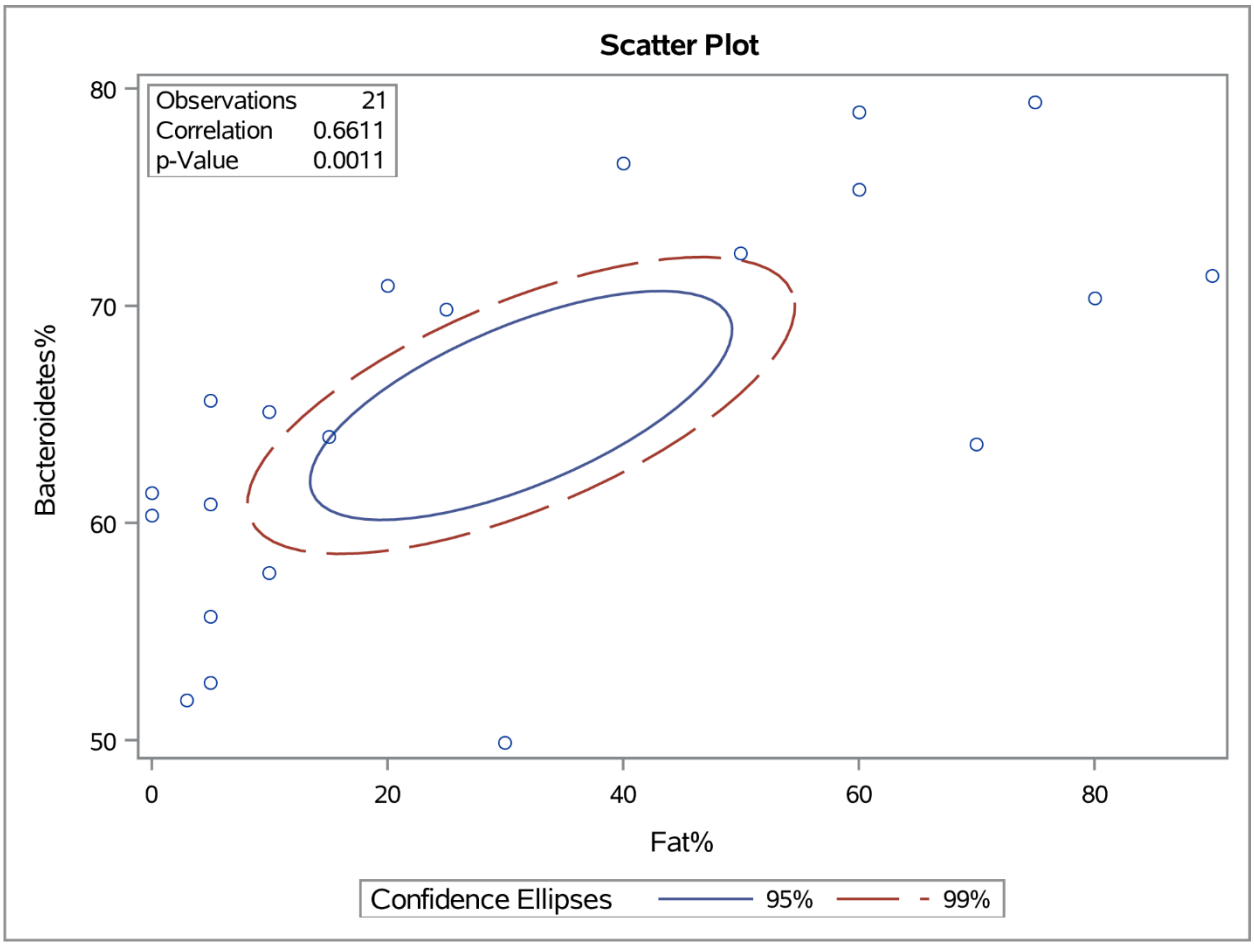

Scatter Plot
Observations 21
Correlation 0.6611
p-Value 0.0011
Bacteroidetes%
80
70
60
50
0
20
40
60
80
Fat%
Confidence Ellipses
95%
99%

Figure S2

Figure S3

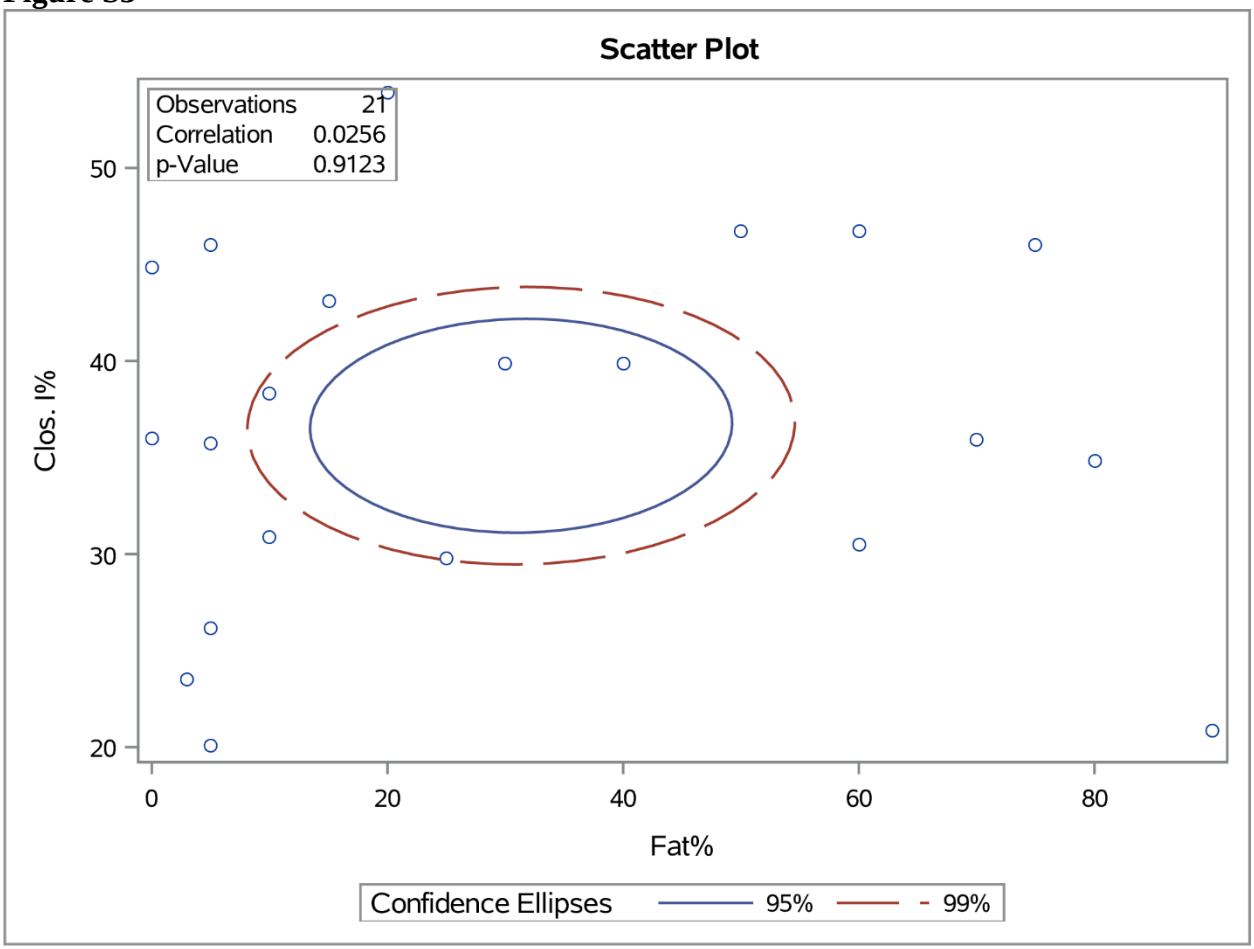

Scatter Plot
Observations 21
Correlation 0.0256
p-Value 0.9123
Clos. I%
50
40
30
20
0
20
40
60
80
Fat%
Confidence Ellipses
95%
99%

Figure S4

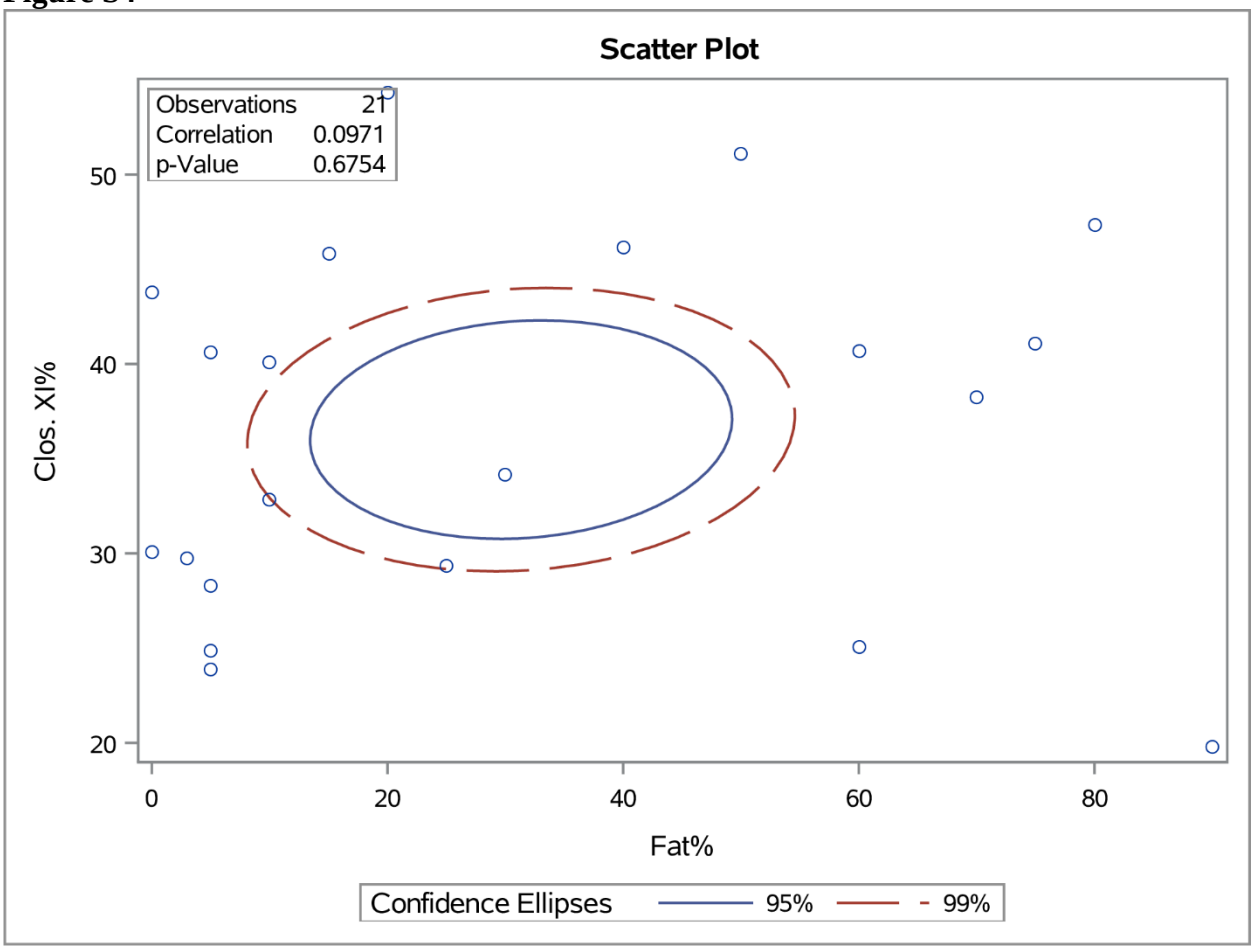

Scatter Plot
Observations 21
Correlation 0.0971
p-Value 0.6754
Clos. XI%
50
40
30
20
0
20
40
60
80
Fat%
Confidence Ellipses
95%
99%

Figure S5

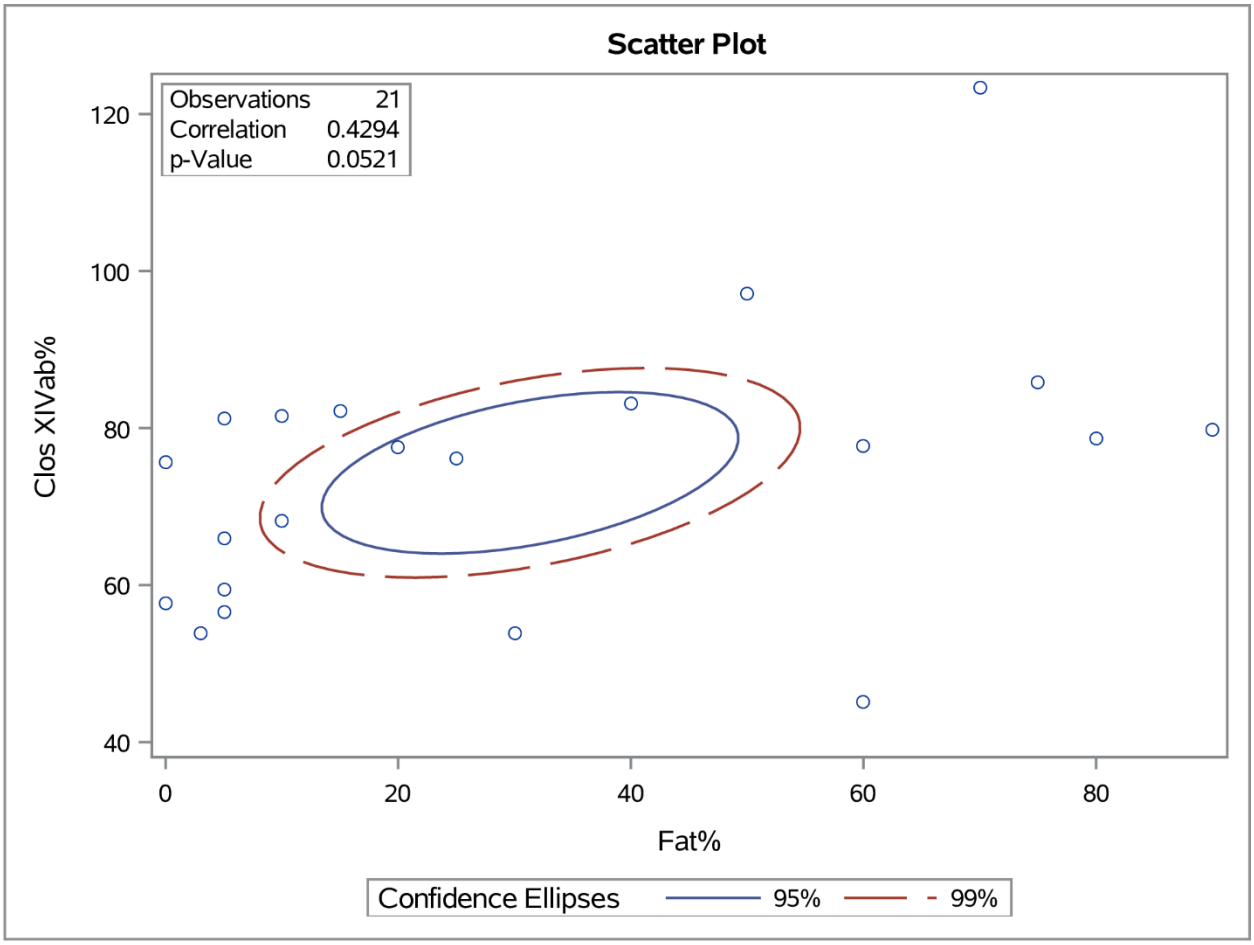

Scatter Plot
Observations 21
Correlation 0.4294
p-Value 0.0521
Clos XIVab%
120
100
80
60
40
0
20
40
60
80
Fat%
Confidence Ellipses
95%
99%

Figure S6

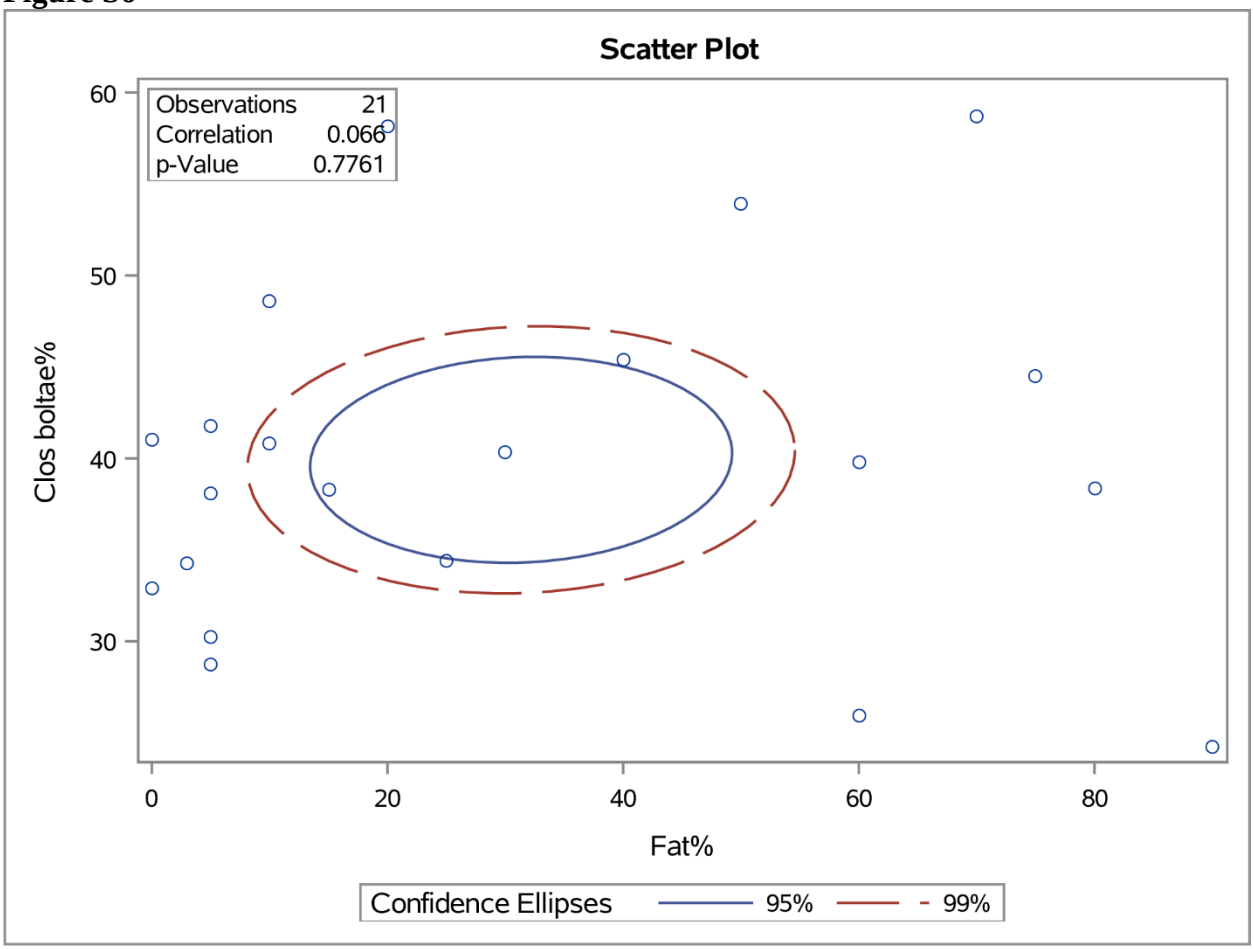

Scatter Plot
Observations 21
Correlation 0.066
p-Value 0.7761
Clos boltae%
Fat%
60
50
40
30
0
20
40
60
80
Confidence Ellipses
95%
99%

Figure S7

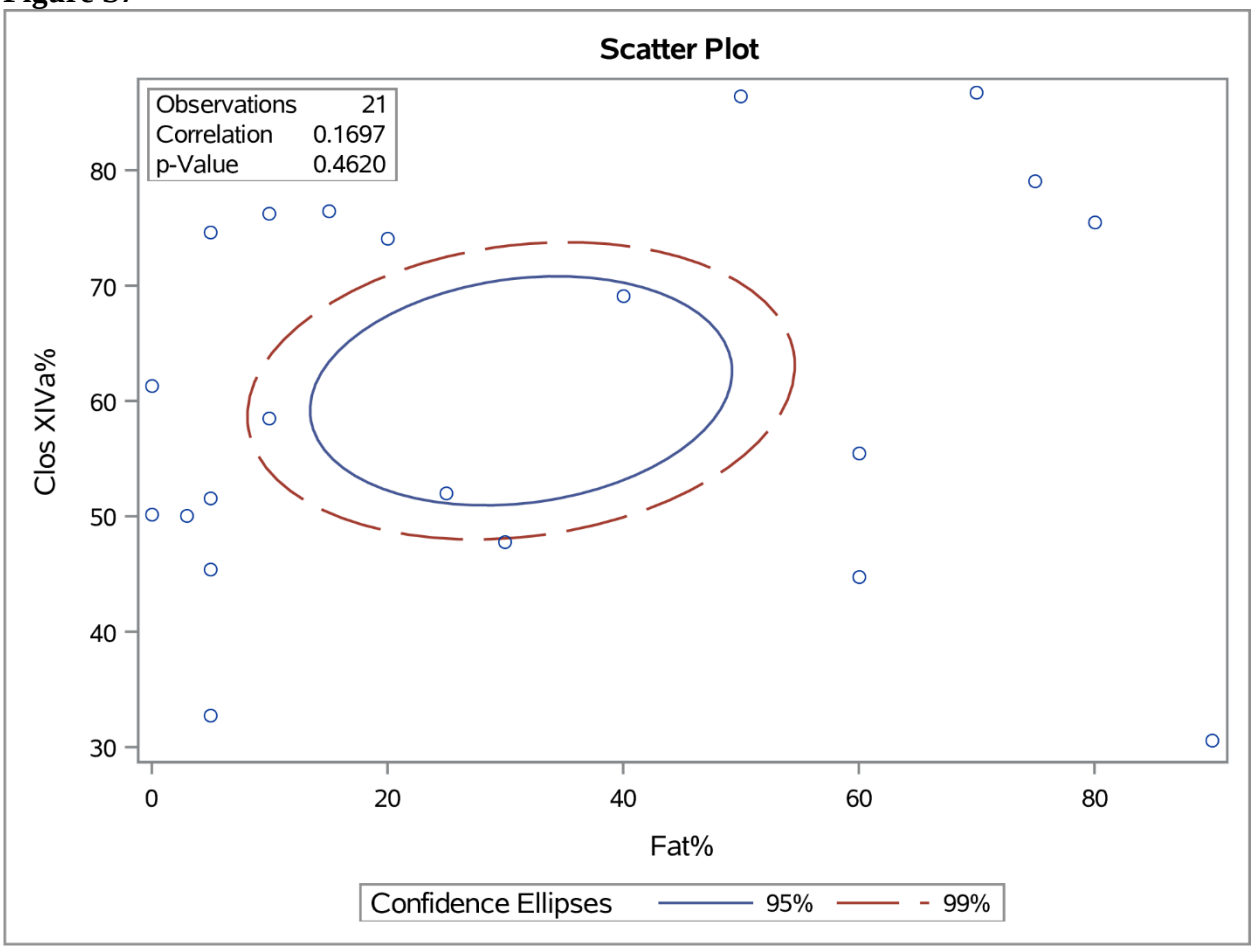

Scatter Plot
Observations 21
Correlation 0.1697
p-Value 0.4620
Clos XIVa%
80
70
60
50
40
30
0
20
40
60
80
Fat%
Confidence Ellipses
95%
99%

Figure S8

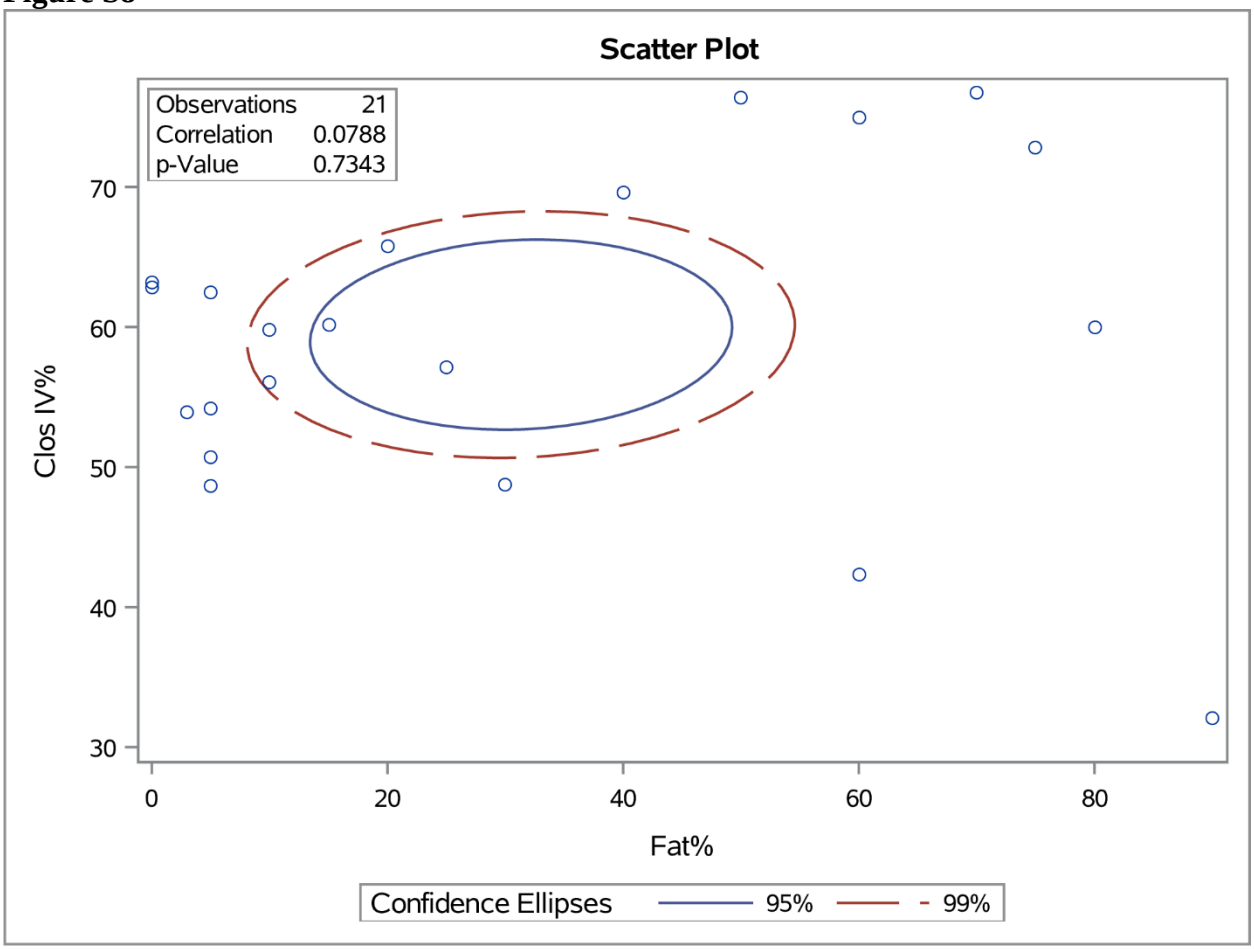

Scatter Plot
Observations 21
Correlation 0.0788
p-Value 0.7343
Clos IV%
70
60
50
40
30
0
20
40
60
80
Fat%
Confidence Ellipses
95%
99%

Figure S9

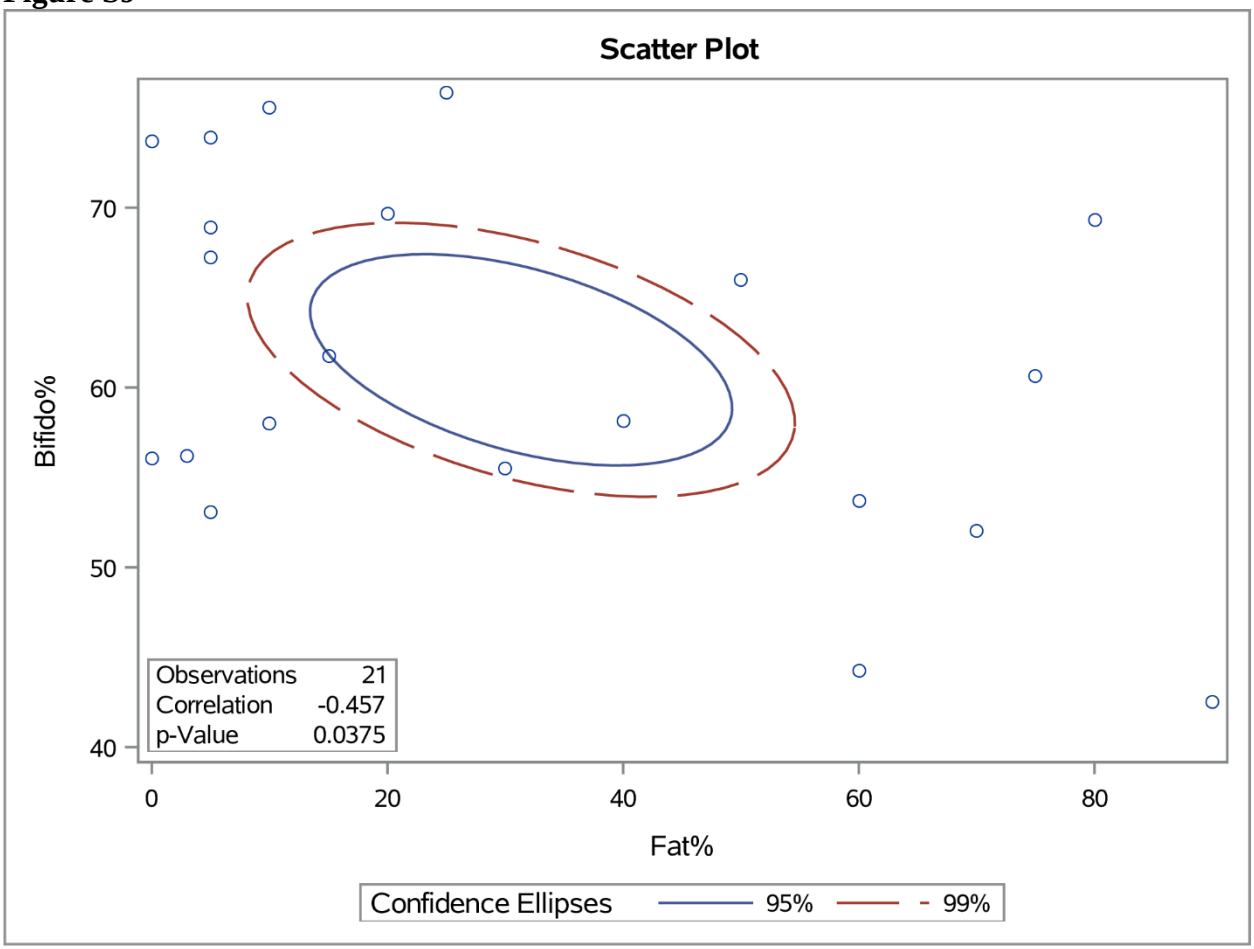

Scatter Plot
Bifido%
70
60
50
40
0
20
40
60
80
Fat%
Observations 21
Correlation -0.457
p-Value 0.0375
Confidence Ellipses
95%
99%

Figure S10

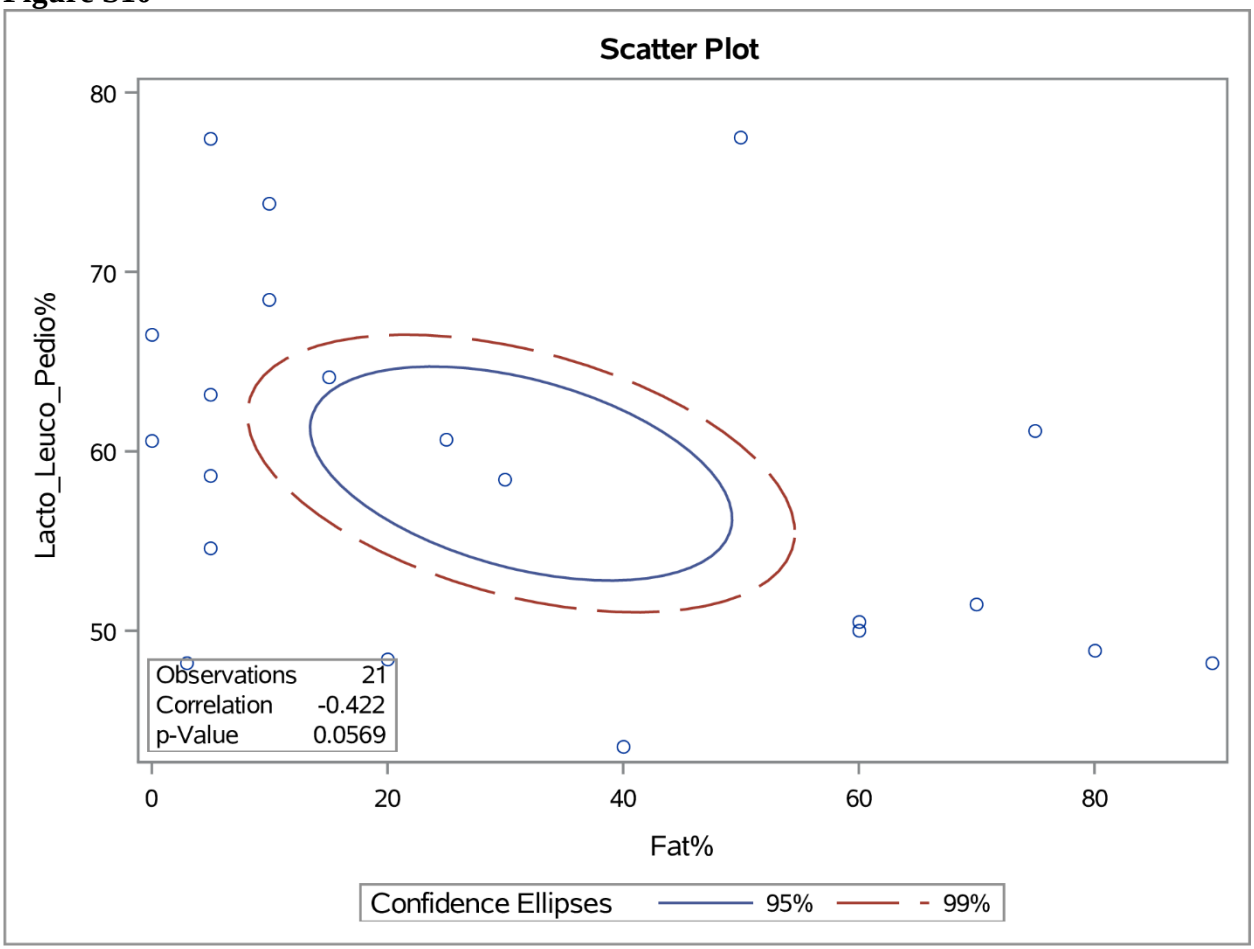

Scatter Plot
Lacto_Leuco_Pedio%
80
70
60
50
0
20
40
60
80
Fat%
Observations 21
Correlation -0.422
p-Value 0.0569
Confidence Ellipses
95%
99%

Figure S11

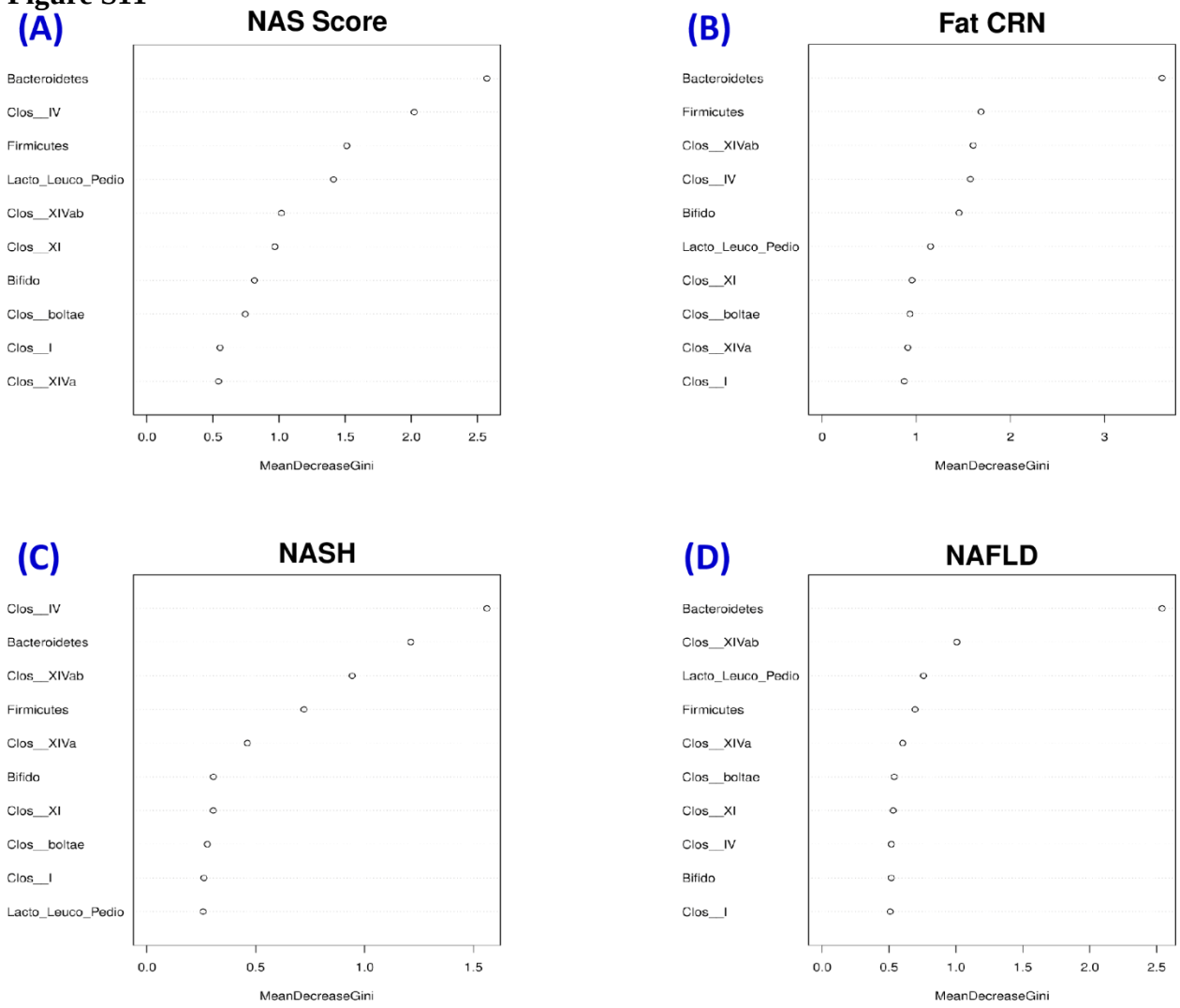


Figure S11. Importance of bacterial taxa in predicting NAS scores, steatosis, NASH, and NAFLD status computed by Random Forest model. Bacterial taxa (along the Y-axis) are arranged according to their importance in predicting NAS score (panel A), Steatosis (panel B), NASH status (panel C), and NAFLD status (panel D).

Table S1. Demographic and clinical data at the time of liver biopsy and stool collection.

Variables	**At Liver Biopsy**	**At the time of stool collection**	**P-value**
	N=21	**N=21**	
Age	61±7	62±7	0.48
BMI (kg/m^2)	33±7	33±8	0.68
AST (IU/mL)	37±24	38±21	0.86
ALT (IU/mL)	64±50	51±32	0.38
T. Bili (mg/dL)	0.5±0.2	0.7±0.4	0.09
ALP (IU/mL)	120±45	95±42	0.11
Albumin (g/dL)	3.8±0.5	4±0.4	0.02
Cr (mg/dL)	1.3±0.4	1.2±0.4	0.19
Hgb (g/dL)	13.2±2	13.4±2.1	0.64
WBC ($x10^3/uL$)	5.6±2.4	5.8±2.6	0.97
INR	1.1±0.08	1.04±0.1	0.32
Triglycerides (mg/dL)	274±210	213±109	0.51
Cholesterol (mg/dL)	178±35	164±38	0.37
HDL (mg/dL)	36±8	38±7.7	0.39
LDL (mg/dL)	95±33	91±38.6	0.70
HbA1c (%)	6.5±1.2	6.4±1.1	0.87

BMI – Body Mass Index, AST – Aspartate Aminotransferase, ALT – Alanine Aminotransferase, T. Bili - Total Bilirubin, ALP - Alkaline Phosphatase, Cr - Creatinine, Hgb - Hemoglobin, WBC – White Blood Cell Count, INR – International Normalized Ratio, HDL – High-density lipoprotein, LDL – Low-density lipoprotein, HbA1c – Hemoglobin A1c

Table S2. Demographic and clinical data at pretransplant and posttransplant period.

Variables	Pretransplant	Posttransplant[a]	**P-value**
	N=21	**N=21**	
Age	59±7	62±7	0.09
BMI (kg/m^2)	32.1 ±6.6	33±8	0.79
AST (IU/mL)	98.5±127.2	38±21	0.03
ALT (IU/mL)	55.5±47.0	51±32	0.59
T. Bili (mg/dL)	5.0±5.7	0.7±0.4	<0.0001
ALP (IU/mL)	156.6±93.9	95±42	0.008
Albumin (g/dL)	3.0±0.6	4±0.4	<0.0001
Cr (mg/dL)	1.4±0.7	1.2±0.4	0.26
Hgb (g/dL)	11.3±2.1	13.4±2.1	0.0003
WBC (x10^3/uL)	5.8±3.9	5.8±2.6	0.57
INR	1.8±0.6	1.04±0.1	<0.0001
Triglycerides (mg/dL)	123.8±52.7	213±109	0.008
Cholesterol (mg/dL)	149.3±42.2	164±38	0.45
HDL (mg/dL)	37.7±13.2	38±7.7	0.91
LDL (mg/dL)	90.1±35.5	91±38.6	1
HbA1c (%)	5.3±1.3	6.4±1.1	0.02

[a]Data presented at the time of stool collection

BMI – Body Mass Index, AST – Aspartate Aminotransferase, ALT – Alanine Aminotransferase, T. Bili - Total Bilirubin, ALP - Alkaline Phosphatase, Cr - Creatinine, Hgb - Hemoglobin, WBC – White Blood Cell Count, INR – International Normalized Ratio, HDL – High-density lipoprotein, LDL – Low-density lipoprotein, HbA1c – Hemoglobin A1c