Appendix D16 - A

Dependent Variable	
Abundance	
pН	
3.3239	
t = 101.4124	
p = 0.0000***	
-0.1651	
t = -9.3979	
p = 0.0000***	
32	
0.7464	
0.7380	
0.0937 (df = 30)	
88.3196*** (df = 1; 30)	

Note: *p<0.1; **p<0.05; ***p<0.01

Model:

 $lmer_k_pHvsGA <- lm(pH \sim D_gluconic1, \, data = lmer_model_Data)$

Appendix D16 - B

	Dependent Variable:
_	Abundance
	Saccharomyces
Constant	0.65
	t = 0.67
	p = 0.5
pН	-0.069
-	t = -0.218
	p = 0.83
Glucose	-0.036
	t = -2.14
	p = 0.04**
Sucrose	-0.0104
	t = -1.24
	p = 0.227
Acetic_acid	-0.0845
	t = -2.0192
	p = 0.0544*
D_gluconic	0.0887
	t = 1.2209
	p = 0.2336
Succinic acid	1.7153
	t = 1.1801
	p = 0.2491
Observations	32
R ²	0.40
Adjusted R ²	0.25
Residual Std. Error (df = 25)	0.12
F Statistic (df = 6; 25)	2.7215**
Note: *n<0.1: **n<0.05: ***n<0.01	

Note: *p<0.1; **p<0.05; ***p<0.01

Model:

 $lmer_sacc <- lm(Abundance \ (\textit{Saccharomyces}) \sim pH + glucose1 + sucrose1 + Acetic_acid1 + D_gluconic1 + Succinic_acid1, \ data = Mixed_Data_sac)$

Appendix D16 - C

	Dependent Variable:	
	Abundance	
	Gluconobacter	
Constant	-0.04	
	t = -0.44	
	p = 0.68	
Sucrose	0.01	
	t = 3.61	
	p = 0.01***	
Glucose	-0.10	
	t = -3.17	
	p = 0.02**	
Fructose	0.14	
	t = 3.62	
	p = 0.01***	
Succinic_acid	-1.57	
	t = -2.98	
	p = 0.02**	
Acetic_acid	0.21	
	t = 1.84	
	p = 0.11	
Observations	14	
R ²	0.68	
Adjusted R ²	0.48	
Residual Std. Error (df = 8)	0.03	
F Statistic (df = 5; 8)	3.41*	

Note: Overall model showed no statistical significance (p = 0.14)

Model:

 $gluco_lm <- lm(Abundance \sim sucrose1 + glucose1 + Fructose1 + Succinic_acid1 + Acetic_acid1, data = Gluco_Data)$

^{*}p<0.1; **p<0.05; ***p<0.01

	Dependent Variable:	
	Abundance	
	Saccharomyces	
Constant	0.84	
	t = 1.61	
	p = 0.15	
Sucrose	0.002	
	t = 0.13	
	p = 0.90	
Fructose1	0.12	
	t = 0.47	
	p = 0.65	
Glucose1	-0.14	
	t = -0.54	
	p = 0.61	
D_gluconic acid	1.77	
	t = 1.58	
	p = 0.16	
Succinic_acid	-3.44	
_	t = -1.11	
	p = 0.30	
Observations	14	
R ²	0.52	
Adjusted R ²	0.21	
Residual Std. Error	0.18 (df = 8)	
F Statistic	1.71 (df = 5; 8)	

Note: Overall model showed no statistical significance (p = 0.44) *p<0.1; **p<0.05; ***p<0.01

Model:

 $sacc_lm <- lm(Abundance \sim sucrose1 + Fructose1 + glucose1 + D_gluconic1 + Succinic_acid1, \ data = saccharo_Data)$