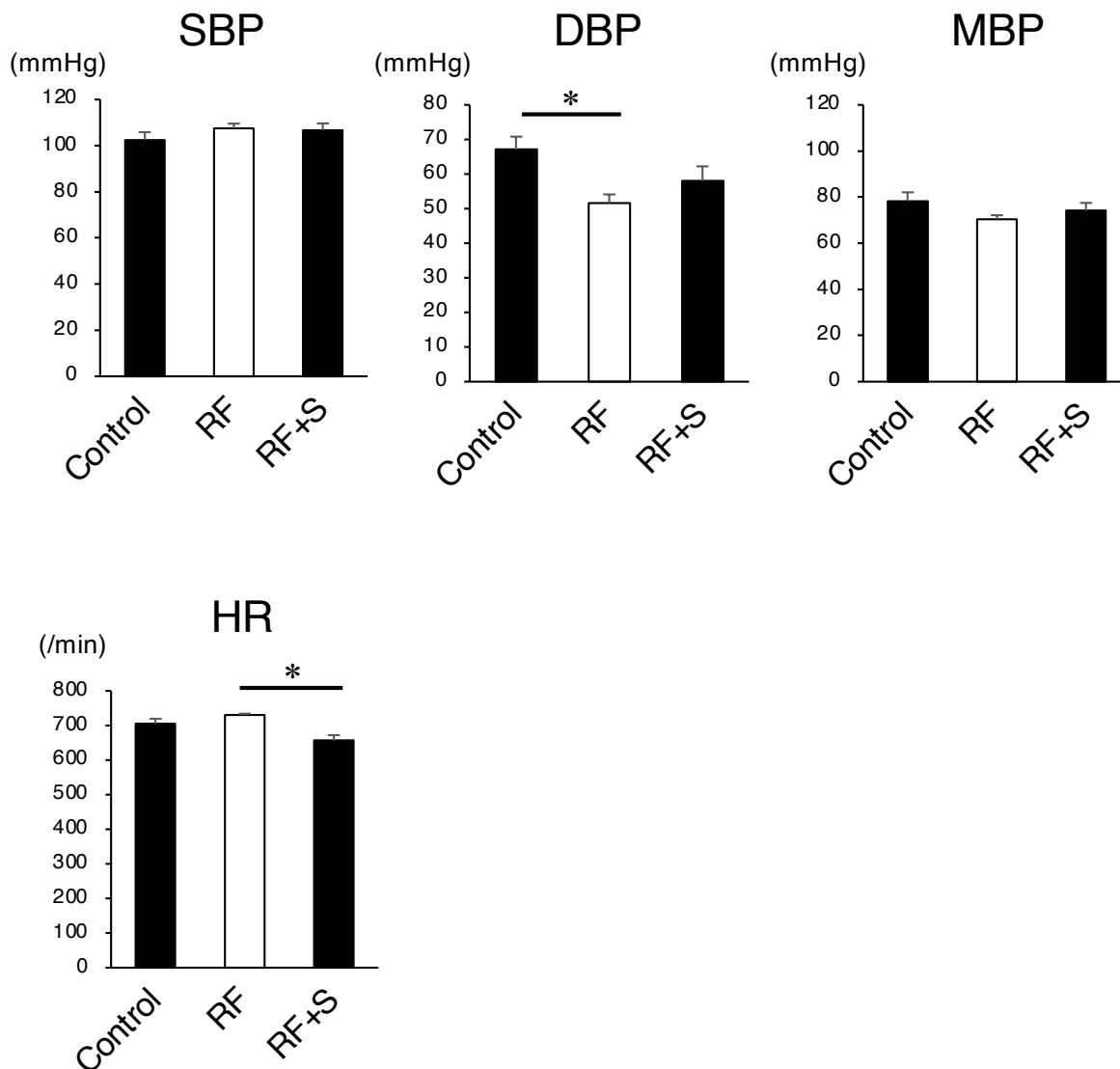


Supplementary Data set

Title: SGLT-1-specific inhibition ameliorates renal failure and alters the gut microbial community in mice with adenine-induced renal failure

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Shun Watanabe*, Yoshitomi Kanemitsu, Daisuke Saigusa,
Ryota Kujirai, Wakako Ohtsubo, Mariko Ichijo,
Yukako Akiyama, Eikan Mishima, Yoshitsugu Oikawa, Tetsuro
Matsuhashi, Takafumi Toyohara, Chitose Suzuki, Takehiro Suzuki,
Nariyasu Mano, Yoshiteru Kagawa, Yuji Ohwada, Takane Katayama,
Toru Nakayama, Yoshihisa Tomioka and Takaaki Abe

Supplementary Figure 1

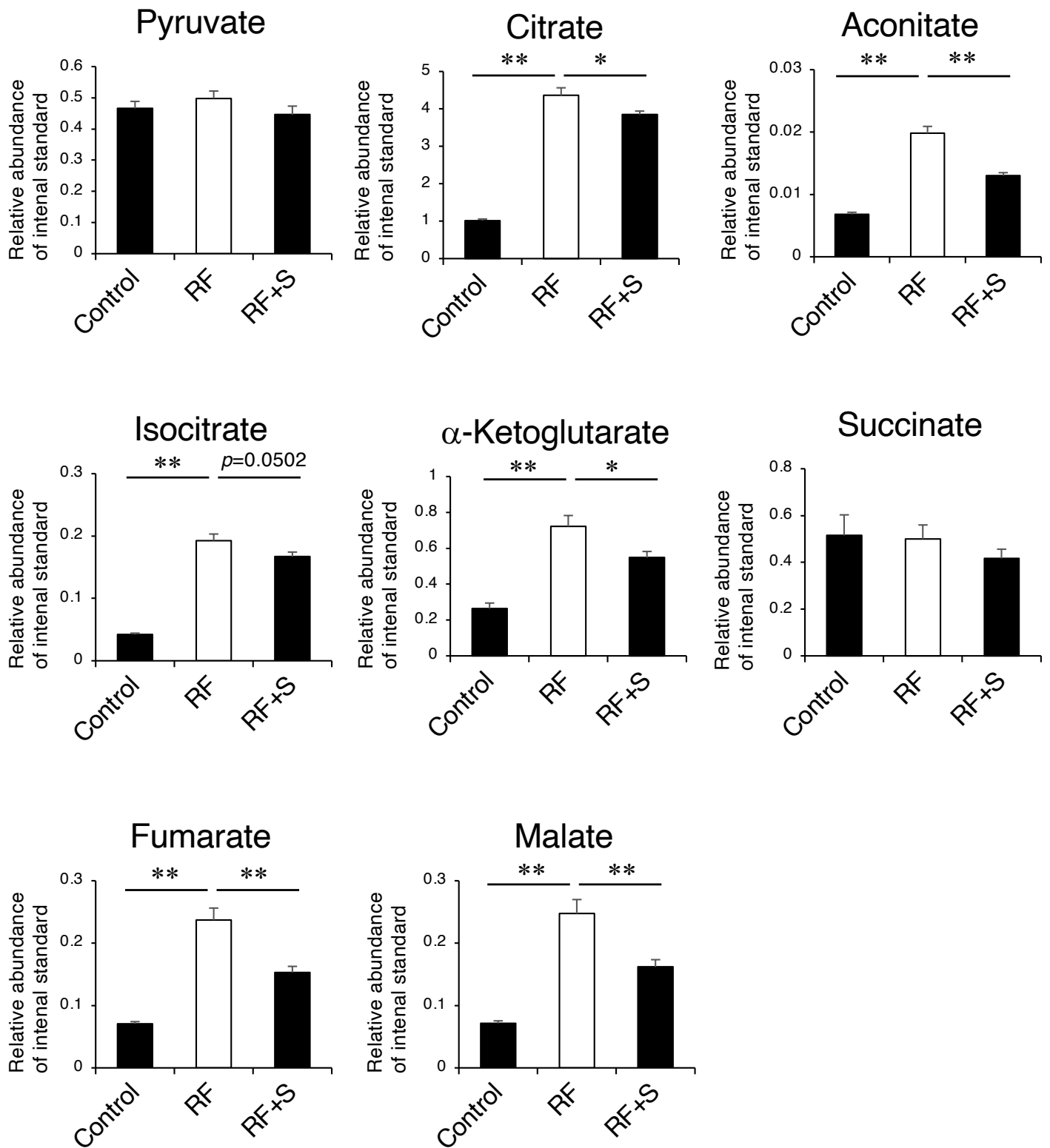


Blood pressure and heart rate were measured by MK-2000ST (Muromachi, Japan). Control (n=6), RF: renal failure (n=6), RF + S: renal failure with SGL5213 treatment (n=6) SBP: systolic blood pressure, DBP: diastolic blood pressure, MBP: mean blood pressure HR: heart rate.

Data were shown by mean \pm SEM.

* $p < 0.05$, Ordinary one-way ANOVA followed by Dunnett's multiple comparison test vs RF.

Supplementary Figure 2

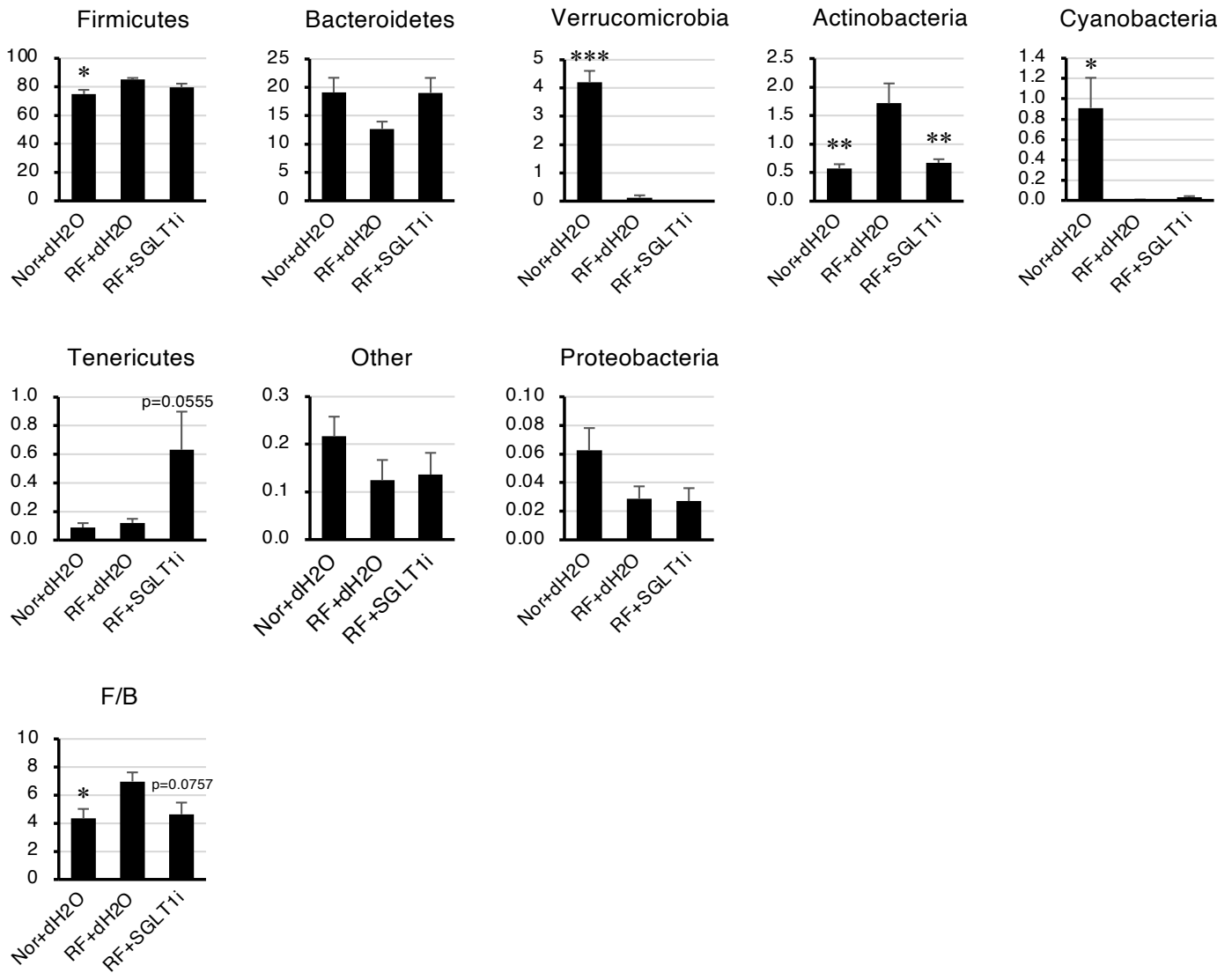


Internal standard: 2-Isopropylmalic acid-3TMS

Mean \pm SEM. * p <0.05, ** p <0.01 Ordinary one-way ANOVA followed by Dunnett's multiple comparison test vs RF.

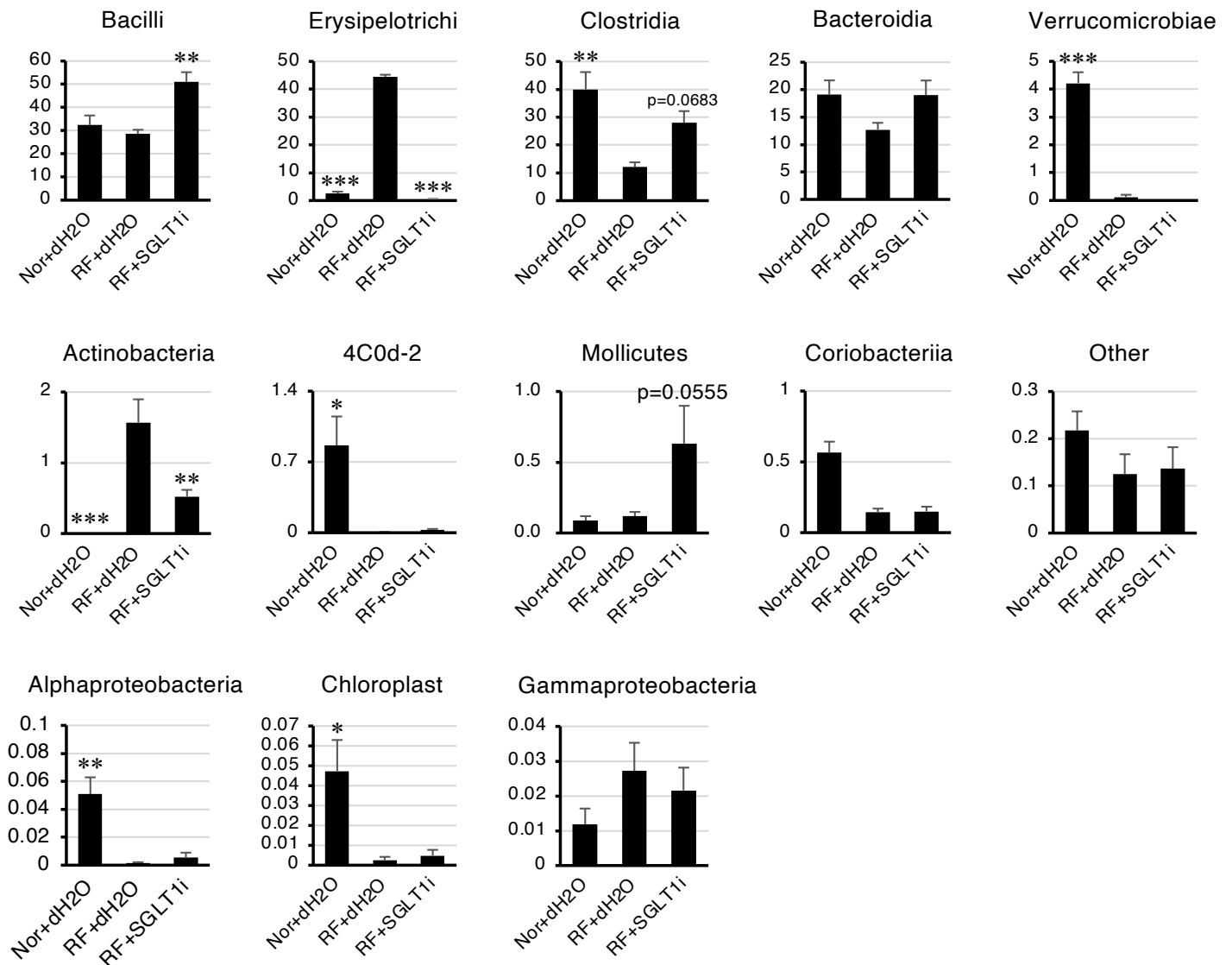
Supplementary Figure 3

phylum



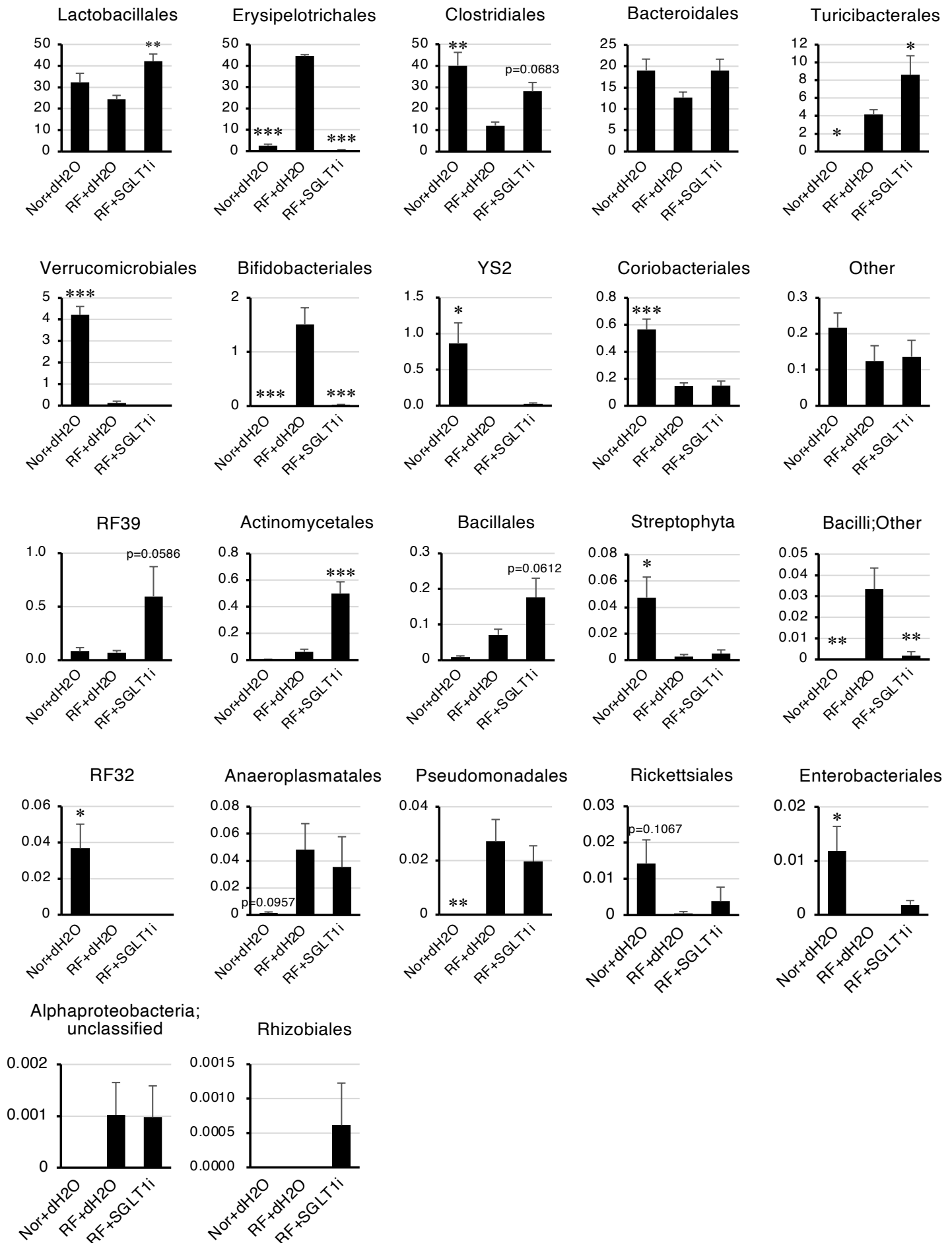
Supplementary Figure 4

class



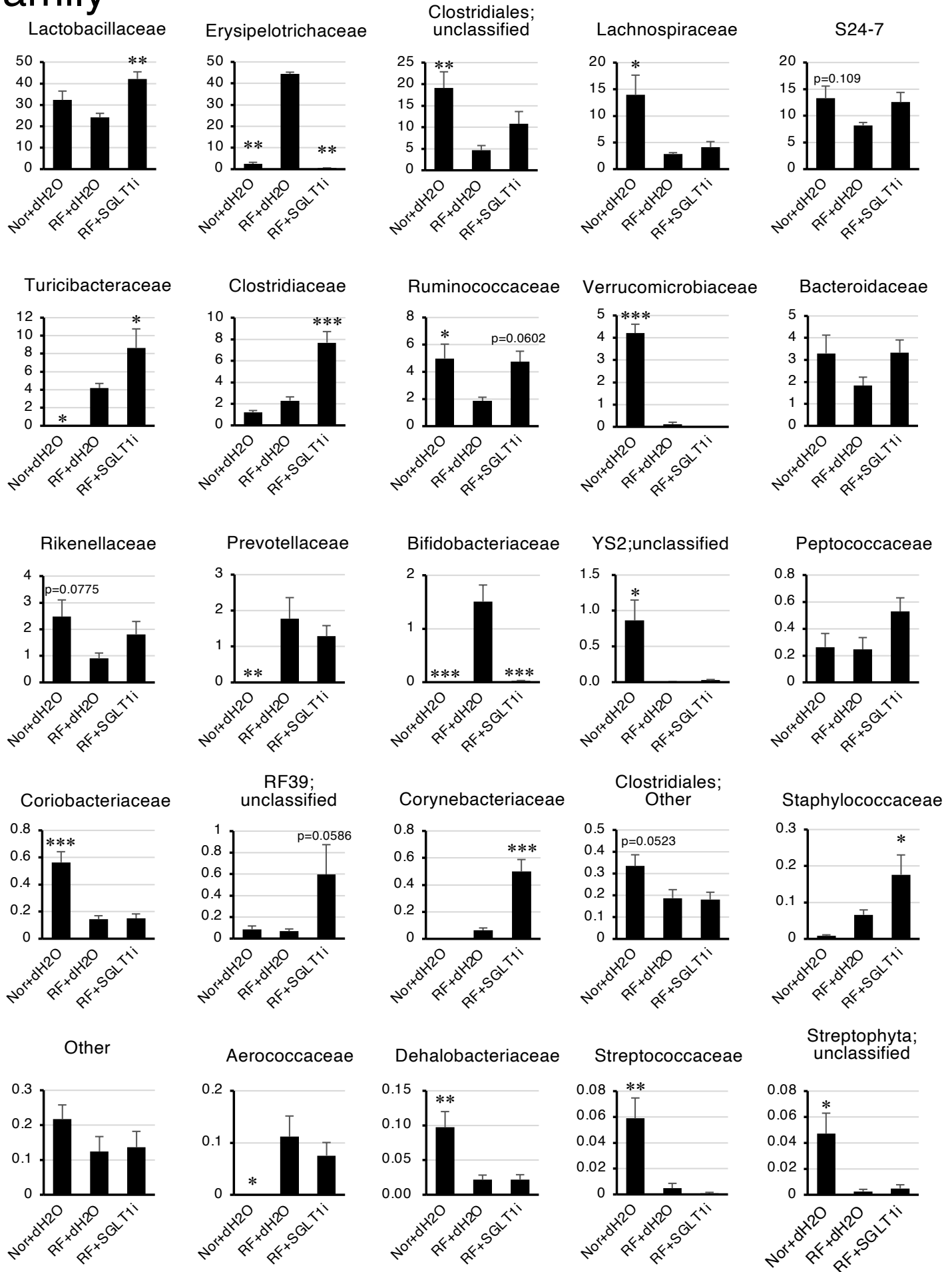
Supplementary Figure 5

order



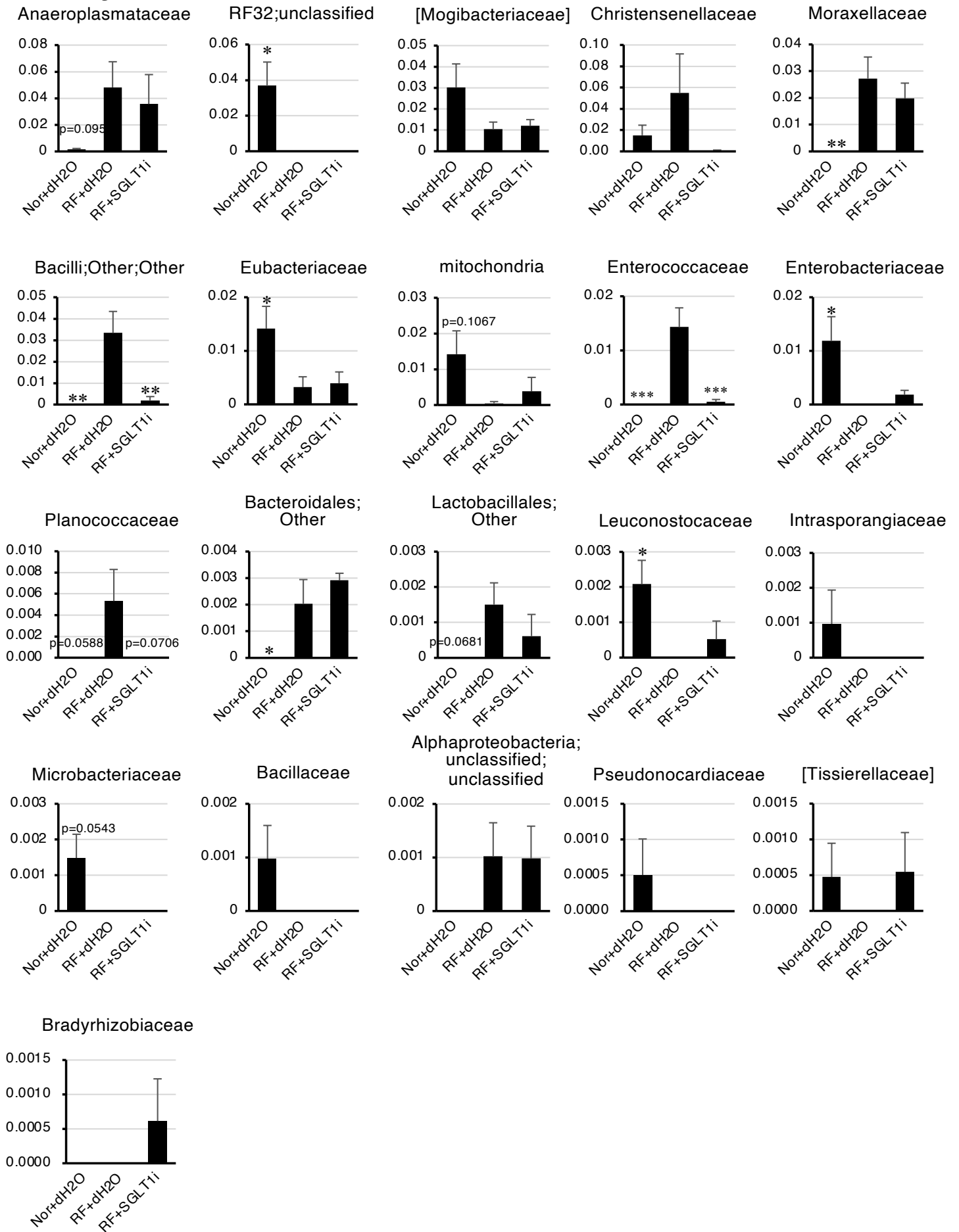
Supplementary Figure 6-1

family



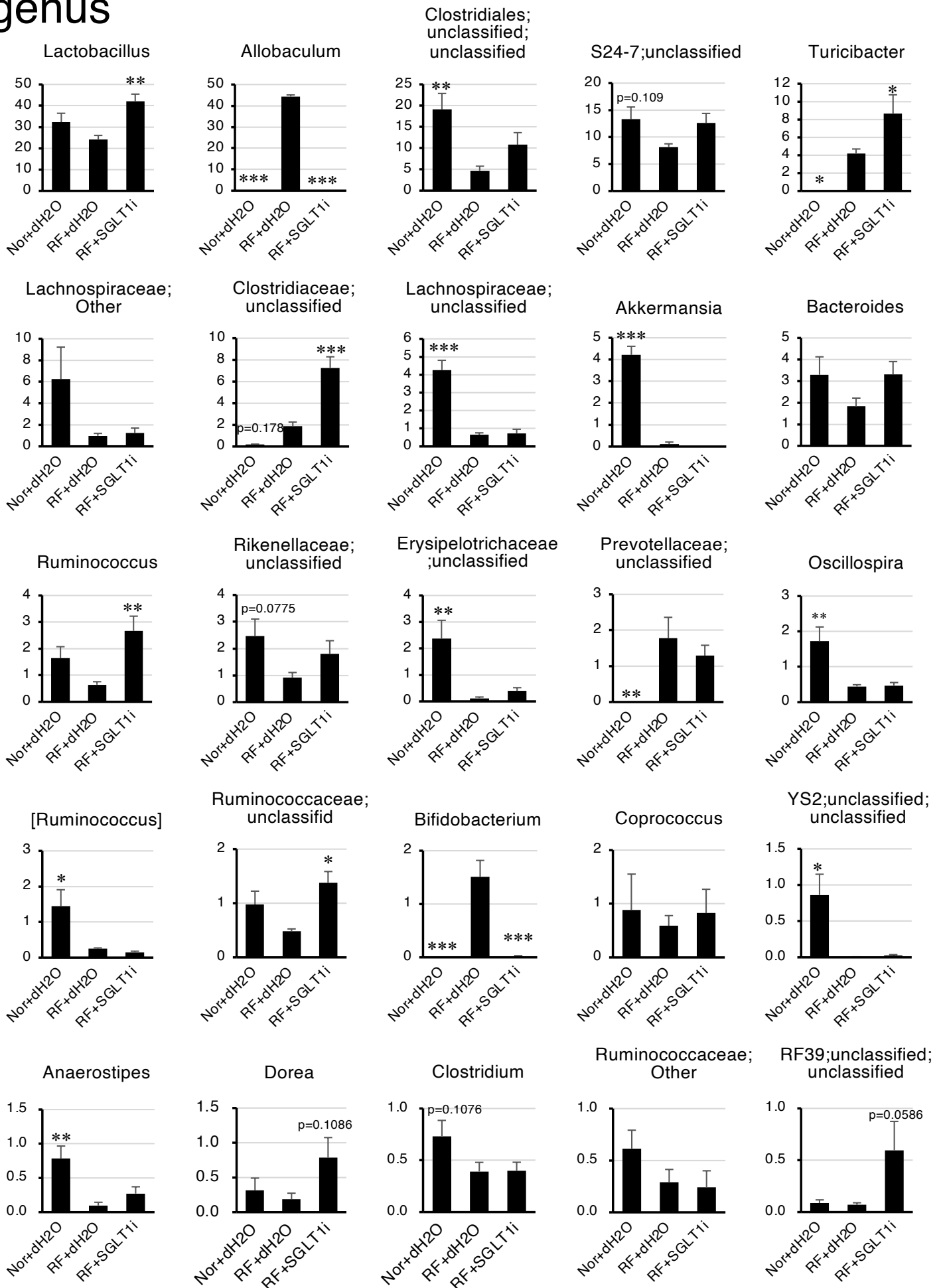
Supplementary Figure 6-2

family



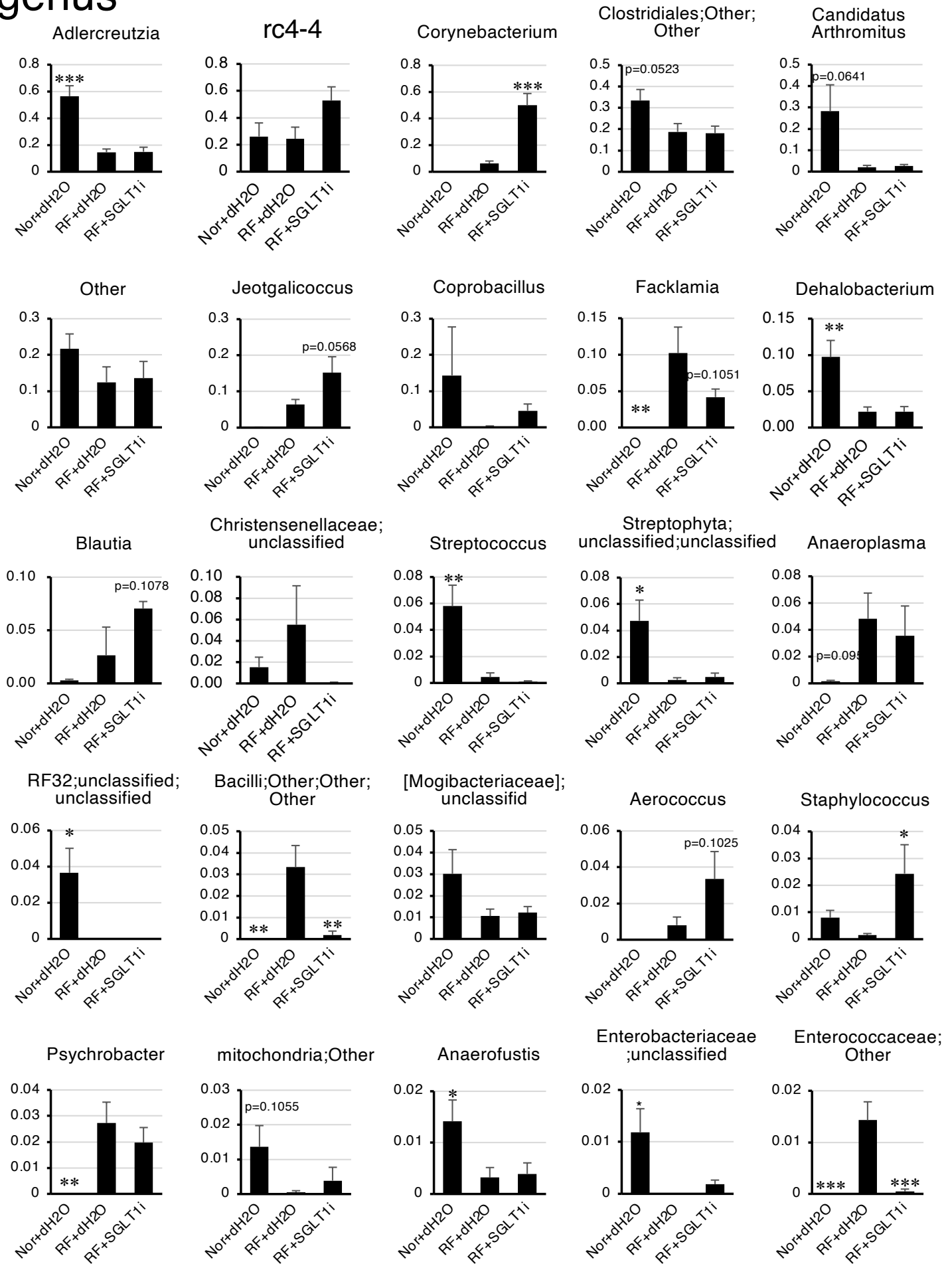
Supplementary Figure 7-1

genus



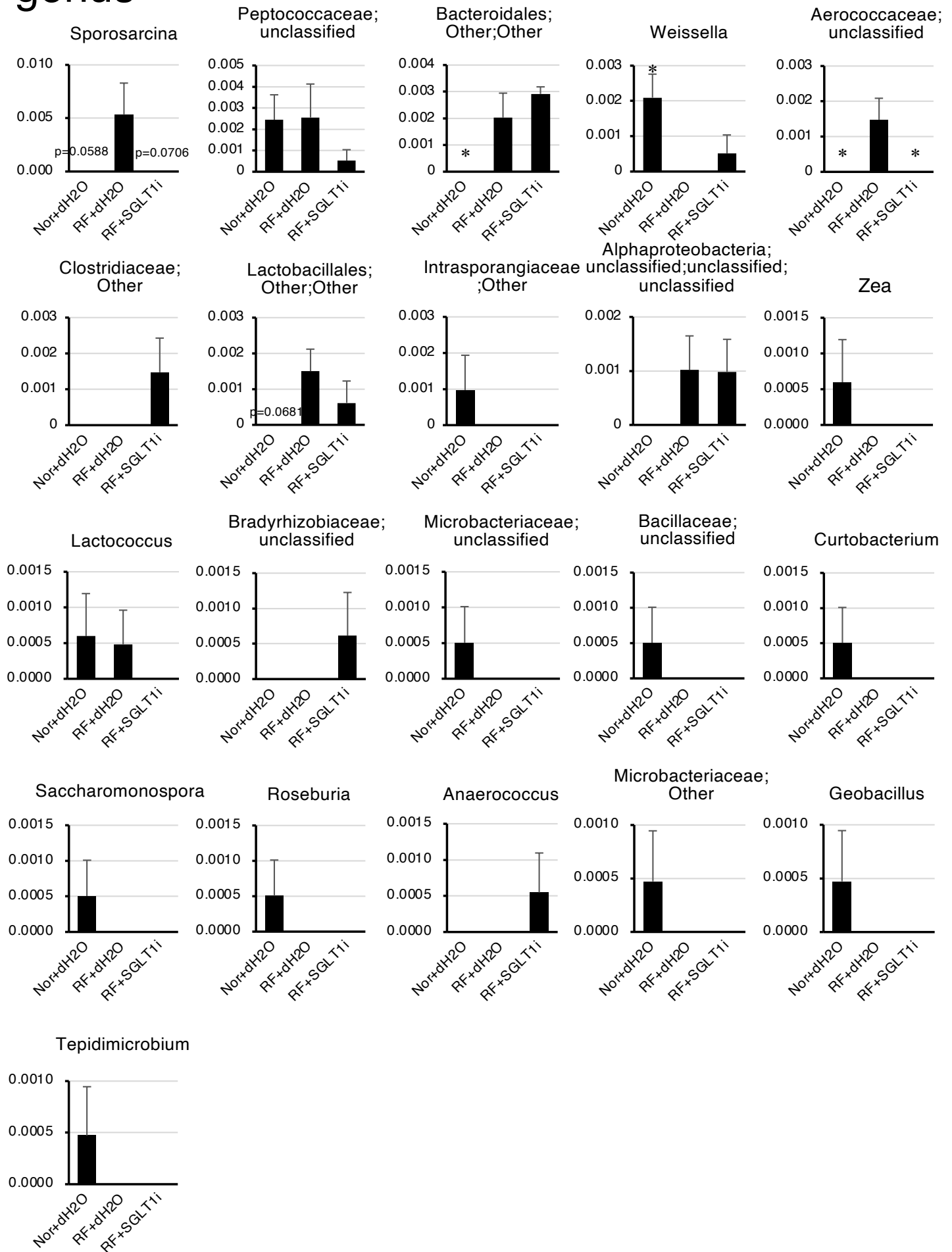
Supplementary Figure 7-2

genus



Supplementary Figure 7-3

genus



Supplementary Table 1

Taqman Gene Expression Assays

<i>Ccl2</i>	Mm00441242_m1
<i>Emr1</i>	Mm00802529_m1
<i>Tgfb1</i>	Mm01178820_m1
<i>Col1a1</i>	Mm00801666_g1
<i>Acta2</i>	Mm00725412_s1
<i>Cd68</i>	Mm03047343_m1

Supplementary Table 1

List of primers used in the PCR analysis. Primers were purchased from Applied Biosystems. The sequences of the primers and probes are certificated by the company, but not open by company policy.