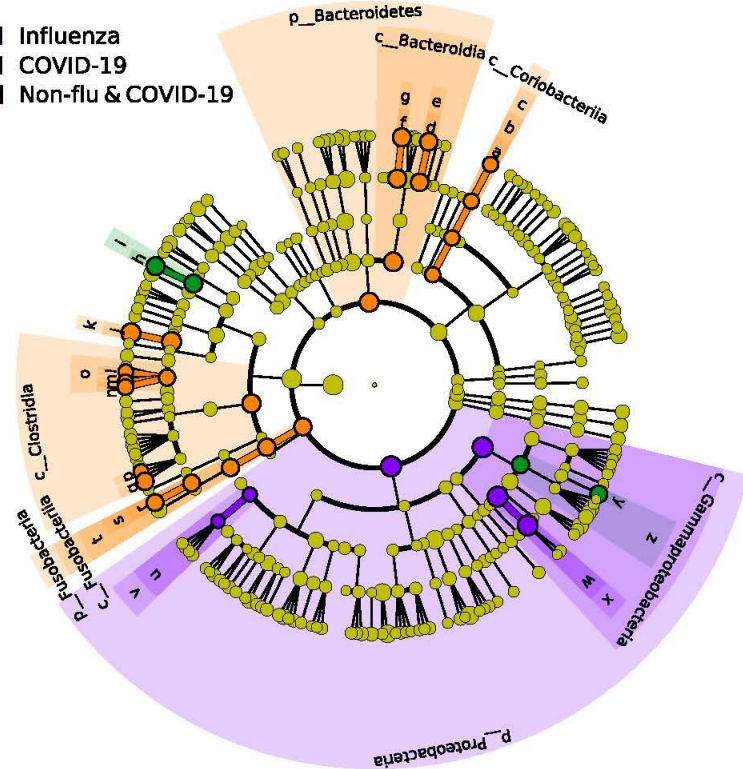


Supplementary Figure 1 The rarefaction curve of upper respiratory bacterial profile in 4 groups.

(a)

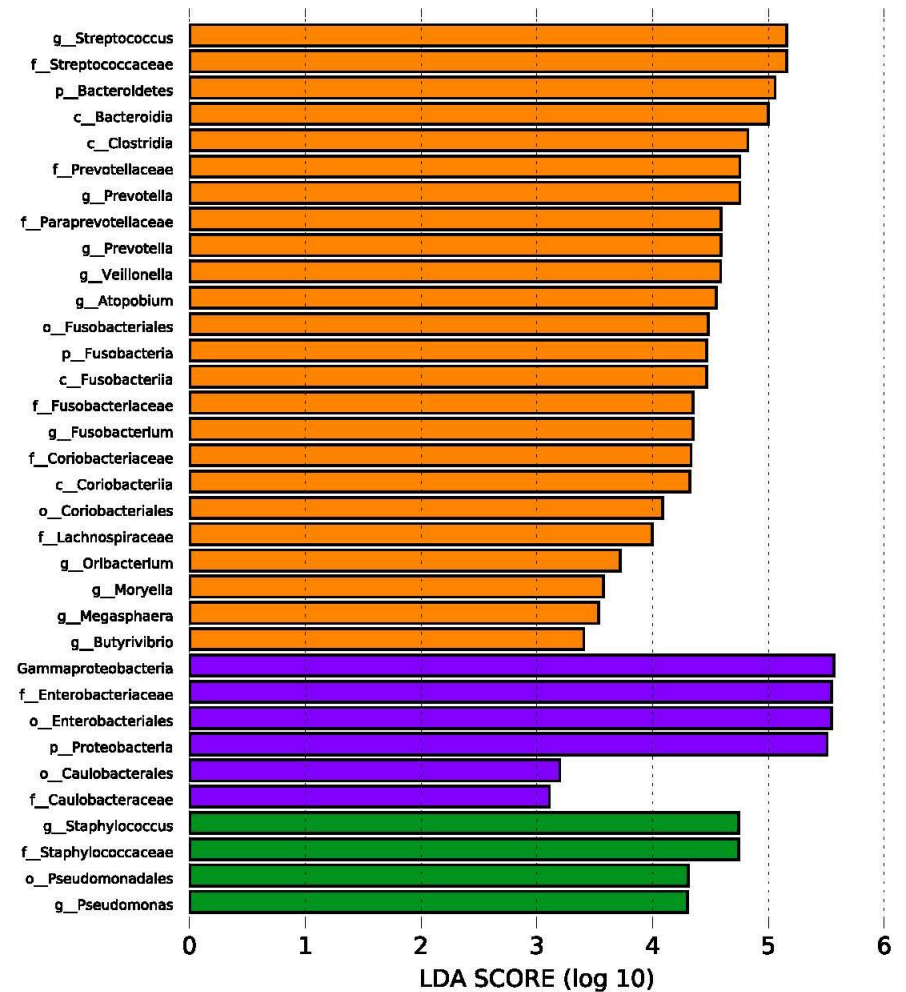
■ Influenza
■ COVID-19
■ Non-flu & COVID-19



a: g_Atopobium	j: g_Streptococcus	s: f_Fusobacteriaceae
b: f_Coriobacteriaceae	k: f_Streptococcaceae	t: o_Fusobacteriales
c: o_Coriobacteriales	l: g_Butyrvibrio	u: f_Caulobacteraceae
d: g_Prevotella	m: g_Moryella	v: o_Caulobacterales
e: f_Paraprevotellaceae	n: g_Oribacterium	w: f_Enterobacteriaceae
f: g_Prevotella	o: f_Lachnospiraceae	x: o_Enterobacteriales
g: f_Prevotellaceae	p: g_Megasphaera	y: g_Pseudomonas
h: g_Staphylococcus	q: g_Veillonella	z: o_Pseudomonadales
i: f_Staphylococcaceae	r: g_Fusobacterium	

(b)

■ Influenza ■ COVID-19 ■ Non-flu & COVID-19



Supplementary Figure 2 Linear discriminant analysis Effect Size (LEfSe) analysis of bacterial profiles in 3 groups. (a) A cladogram of the differentially enriched taxa (LDA scores > 4 and P<0.05). (b) The bar graph shows the LDA scores of significantly enriched taxa (influenza = purple, COVID-19 = green, and Non-Flu & COVID-19 = orange).