

Table S1 Species and genera associated with anastomotic healing

Taxa	Mean		log2(FC)	p-value ^a	Carrier rate	
	impaired	well			impaired	well
Species						
<i>Alistipes shahii</i>	0	1.79×10 ⁻³	10.50	0.031	0%	47%
<i>Dialister pneumosintes</i>	0	1.28×10 ⁻³	10.01	0.017	0%	53%
<i>Corynebacterium suicordis</i>	1.11×10 ⁻⁴	0	-6.49	<0.001	43%	0%
<i>Porphyromonas asaccharolytica</i>	4.14×10 ⁻⁴	1.11×10 ⁻⁴	-1.89	0.017	71%	27%
<i>Vibrio diazotrophicus</i>	1.27×10 ⁻⁴	5.20×10 ⁻⁵	-1.29	0.014	57%	13%
<i>Clostridium leptum</i>	5.67×10 ⁻⁴	2.40×10 ⁻⁴	-1.24	0.023	86%	27%
<i>Sutterella parvirubra</i>	5.09×10 ⁻⁴	0	-8.68	0.004	29%	0%
<i>Paraeggerthella hongkongensis</i>	3.87×10 ⁻⁴	2.47×10 ⁻⁶	-7.29	0.027	29%	3%
<i>Arcobacter butzleri</i>	4.29×10 ⁻⁴	3.71×10 ⁻⁶	-6.85	0.012	43%	7%
<i>Flavobacterium johnsoniae</i>	1.38×10 ⁻⁴	0	-6.80	0.045	14%	0%
<i>Peptoniphilus lacrimalis</i>	1.11×10 ⁻⁴	0	-6.49	0.045	14%	0%
<i>Peptococcus niger</i>	1.01×10 ⁻⁴	1.24×10 ⁻⁶	-6.35	0.030	29%	3%
<i>Sphingobacterium spiritivorum</i>	9.01×10 ⁻⁵	0	-6.19	0.045	14%	0%
<i>Myroides marinus</i>	8.48×10 ⁻⁵	0	-6.10	0.045	14%	0%
<i>Lysinibacillus macroides</i>	8.48×10 ⁻⁵	0	-6.10	0.045	14%	0%
<i>Clostridium sporogenes</i>	7.42×10 ⁻⁵	0	-5.91	0.045	14%	0%
<i>Brevibacillus fluminis</i>	5.83×10 ⁻⁵	0	-5.56	0.045	14%	0%
<i>Marinobacter daqiaonensis</i>	4.24×10 ⁻⁵	0	-5.10	0.045	14%	0%
<i>Desulfovibrio desulfuricans</i>	3.18×10 ⁻⁵	0	-4.68	0.045	14%	0%
<i>Azospirillum brasilense</i>	2.12×10 ⁻⁵	0	-4.10	0.045	14%	0%
<i>Prevotella baroniae</i>	2.12×10 ⁻⁵	0	-4.10	0.045	14%	0%
<i>Prevotella ruminicola</i>	2.12×10 ⁻⁵	0	-4.10	0.045	14%	0%
<i>Kroppenstedtia eburnea</i>	2.12×10 ⁻⁵	0	-4.10	0.045	14%	0%
<i>Shewanella putrefaciens</i>	3.18×10 ⁻⁵	2.47×10 ⁻⁶	-3.68	0.033	29%	3%
<i>Negativicoccus succinicivorans</i>	5.30×10 ⁻⁵	6.19×10 ⁻⁶	-3.10	0.033	29%	3%
<i>Anaerobiospirillum thomasi</i>	1.06×10 ⁻⁵	0	-3.10	0.045	14%	0%
<i>Serratia symbiotica</i>	1.06×10 ⁻⁵	0	-3.10	0.045	14%	0%
<i>Porphyromonas uenonis</i>	1.16×10 ⁻³	1.87×10 ⁻⁴	-2.63	0.022	57%	17%
<i>Dokdonella ginsengisoli</i>	5.30×10 ⁻⁶	0	-2.10	0.045	14%	0%
<i>Prevotella heparinolytica</i>	5.30×10 ⁻⁶	0	-2.10	0.045	14%	0%
<i>Parasutterella secunda</i>	3.71×10 ⁻⁵	9.90×10 ⁻⁶	-1.91	0.019	43%	7%
<i>Ectothiorhodospira shaposhnikovii</i>	1.17×10 ⁻⁴	5.07×10 ⁻⁵	-1.20	0.040	43%	10%
<i>Dialister micraerophilus</i>	7.79×10 ⁻⁴	6.68×10 ⁻⁴	-.22	0.024	57%	20%
Genera						
<i>Pannonibacter</i>	2.23×10 ⁻⁴	0	-7.49	0.045	14%	0%
<i>Paraeggerthella</i>	3.87×10 ⁻⁴	2.47×10 ⁻⁶	-7.29	0.027	29%	3%
<i>Proteocatella</i>	1.27×10 ⁻⁴	0	-6.68	0.045	14%	0%
<i>Anaeroplasma</i>	1.06×10 ⁻⁴	0	-6.42	0.045	14%	0%
<i>Aureimonas</i>	9.54×10 ⁻⁵	1.24×10 ⁻⁶	-6.27	0.030	29%	3%

<i>Starkeya</i>	1.86×10 ⁻⁴	2.47×10 ⁻⁶	-6.23	0.033	29%	3%
<i>Lysinibacillus</i>	8.48×10 ⁻⁵	0	-6.10	0.045	14%	0%
<i>Erysipelothrix</i>	8.48×10 ⁻⁵	0	-6.10	0.045	14%	0%
<i>Gottschalkia</i>	6.89×10 ⁻⁵	0	-5.80	0.045	14%	0%
<i>Candidatus Tammella</i>	6.89×10 ⁻⁵	0	-5.80	0.045	14%	0%
<i>Sorangium</i>	6.89×10 ⁻⁵	0	-5.80	0.045	14%	0%
<i>Craurococcus</i>	6.36×10 ⁻⁵	0	-5.68	0.045	14%	0%
<i>Motiliproteus</i>	5.30×10 ⁻⁵	0	-5.42	0.045	14%	0%
<i>Natranaerovirga</i>	5.30×10 ⁻⁵	0	-5.42	0.045	14%	0%
<i>Polycyclovorans</i>	4.24×10 ⁻⁵	0	-5.10	0.045	14%	0%
<i>Gillisia</i>	4.24×10 ⁻⁵	0	-5.10	0.045	14%	0%
<i>Filifactor</i>	6.57×10 ⁻⁴	1.98×10 ⁻⁵	-5.05	0.020	57%	20%
<i>Anaerophaga</i>	3.71×10 ⁻⁵	0	-4.91	0.045	14%	0%
<i>Nafulsella</i>	3.18×10 ⁻⁵	0	-4.68	0.045	14%	0%
<i>Altererythrobacter</i>	2.65×10 ⁻⁵	0	-4.42	0.045	14%	0%
<i>Legionella</i>	2.65×10 ⁻⁵	0	-4.42	0.045	14%	0%
<i>Azospirillum</i>	2.12×10 ⁻⁵	0	-4.10	0.045	14%	0%
<i>Merdibacter</i>	2.12×10 ⁻⁵	0	-4.10	0.045	14%	0%
<i>Kroppenstedtia</i>	2.12×10 ⁻⁵	0	-4.10	0.045	14%	0%
<i>Trichococcus</i>	1.59×10 ⁻⁵	0	-3.68	0.045	14%	0%
<i>Desemzia</i>	1.59×10 ⁻⁵	0	-3.68	0.045	14%	0%
<i>Lutibacter</i>	1.59×10 ⁻⁵	0	-3.68	0.045	14%	0%
<i>Methylothera</i>	1.59×10 ⁻⁵	0	-3.68	0.004	29%	0%
<i>Succiniclasticum</i>	7.42×10 ⁻⁵	6.19×10 ⁻⁶	-3.58	0.033	29%	3%
<i>Acetanaerobacterium</i>	1.06×10 ⁻⁵	0	-3.10	0.045	14%	0%
<i>Candidatus Alysiosphaera</i>	1.06×10 ⁻⁵	0	-3.10	0.045	14%	0%
<i>Thalassotalea</i>	1.06×10 ⁻⁵	0	-3.10	0.045	14%	0%
<i>Sulfurifustis</i>	1.06×10 ⁻⁵	0	-3.10	0.045	14%	0%
<i>Anaerobiospirillum</i>	1.06×10 ⁻⁵	0	-3.10	0.045	14%	0%
<i>Porphyromonas</i>	6.42×10 ⁻²	7.93×10 ⁻³	-3.02	0.033	100%	90%
<i>Mesorhizobium</i>	3.18×10 ⁻⁵	2.07×10 ⁻⁴	2.70	0.039	14%	63%
<i>Candidatus Entothionella</i>	5.30×10 ⁻⁶	0	-2.10	0.045	14%	0%
<i>Dokdonella</i>	5.30×10 ⁻⁶	0	-2.10	0.045	14%	0%
<i>Gracilibacter</i>	5.30×10 ⁻⁶	0	-2.10	0.045	14%	0%
<i>Anaerocella</i>	5.30×10 ⁻⁶	0	-2.10	0.045	14%	0%
<i>Draconibacterium</i>	5.30×10 ⁻⁶	0	-2.10	0.045	14%	0%
<i>Peptococcus</i>	2.97×10 ⁻⁴	8.04×10 ⁻⁵	-1.88	0.025	71%	30%
<i>Ectothiorhodospira</i>	1.17×10 ⁻⁴	5.07×10 ⁻⁵	-1.20	0.040	43%	10%
<i>Sellimonas</i>	4.77×10 ⁻⁵	7.42×10 ⁻⁵	0.64	0.050	43%	10%
<i>Sanguibacteroides</i>	1.59×10 ⁻⁵	1.98×10 ⁻⁵	0.32	0.041	29%	3%

FC, fold change; a, Wilcoxon test