Table 1

Project #	Sequence Type	N	Pre- surgery	Post- surgery 1 month	Post- surgery 3 months	Post- surgery 6 months	Post- surgery 1 year	Post- surgery 2 years	Post- surgery 3 years	Publication	Dataset Names	Age	вмі	Sex (F/M)	Site
PRJNA612042	16S rRNA	22	9			7	6			Ilhan et al 2020	Ilhan	b	b	b	Arizona, USA
PRJNA395660	16S rRNA	71	25		20		14	8	<b>4</b> ª	Assal et al 2019	Assal	45.8 ± 7.1	46.4 ± 5.5	25/25	Sao Paulo, Brazil
PRJEB14082	16S rRNA	38	19			19 <sup>c</sup>				BOCABS Afshar et al 2018	Afshar <sup>c</sup>	b	b	b	UK
PRJEB12947	WGS	33	13		12		33			Palleja et al 2016	Palleja	b	b	8/5	Denmark
This study	16S rRNA	61	30	21		10					BS	43.5 ± 10.0	44.7 ± 7.1	26/4	Fargo and Ohio, USA
This study	WGS	135	52	38		27	18				BS	42.8 ± 9.8	45.1 ± 6.1	46/6	Fargo and Ohio, USA

Figure 1 Spearman coefficient = 0.665 Ε Adjusted p < 2.2e-16 Veillonella 10.0 1.0 Spearman Coefficient 0.5 Assal-3 months vs. baseline PCoA 10.9% Atopobium 0.0 Peptostreptococcus Streptococcus . Different timepoint Same timepoint -0.5 Granulicatella Fusobacterium Rothia Butyricimonas -1.0 Afshar Assal Solobacterium • BS Ilhan -1.5 -1.0 0.0 0.5 1.0 Anaerostipes Different study Same study PCoA 23.3% BS-1 month vs. baseline Spearman coefficient = 0.648 В D Adjusted p < 2.2e-16Afshar Assal 0.7 -Veillonella . 0.6 -1.0 0.5 -Hydrogenoanaerobacterium Coefficient 0.4 vs. baseline 0.5 PCoA 10.9% Mogibacterium 0.0 Butyricimonas

Lachnospira Spearman (- 5.0 BS Ilhan Assal-1 year -0.5 Afshar\_0 Afshar Assal\_0 Assal\_1 -1.0 BS 0 BS\_1 Ilhan\_0 0.4 -2 - Butyricicoccus Faecalitalea 0.3 -Anaerostipes -1.5 -0.50.5 1.0 Afshar Assal BS Afshar Assal BS Ilhan -2.5 2.5 5.0 7.5 10.0 Studies PCoA 23.3% Assal-3 months vs. baseline

Figure 2

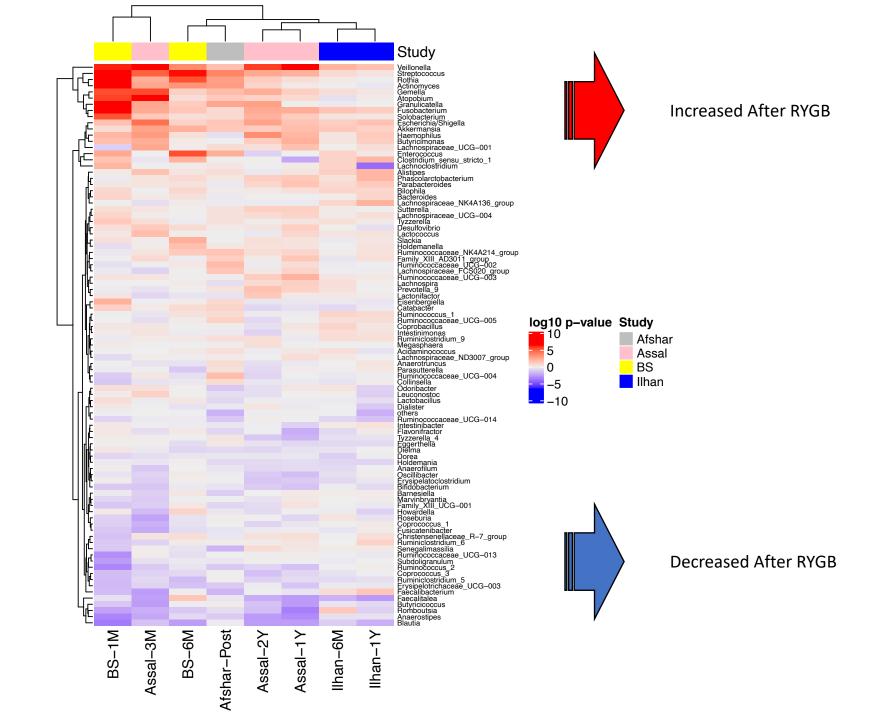


Figure 3

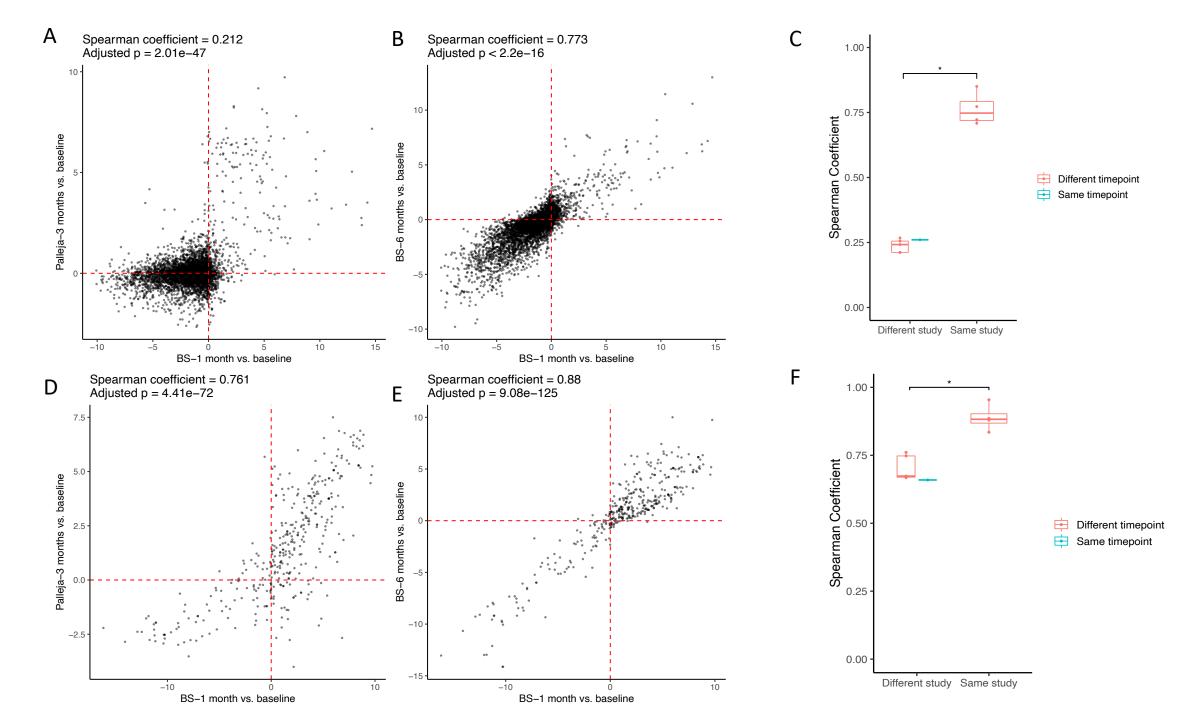


Figure 4

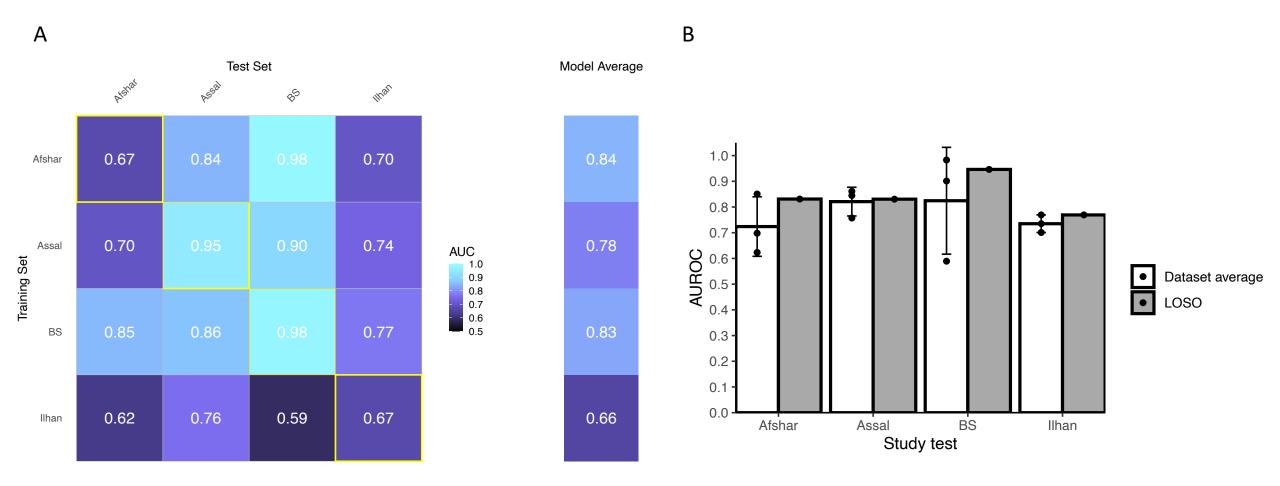


Figure 5

