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Supplemental Material to:

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Differences in microbial signatures between rectal mucosal biopsies and rectal swabs

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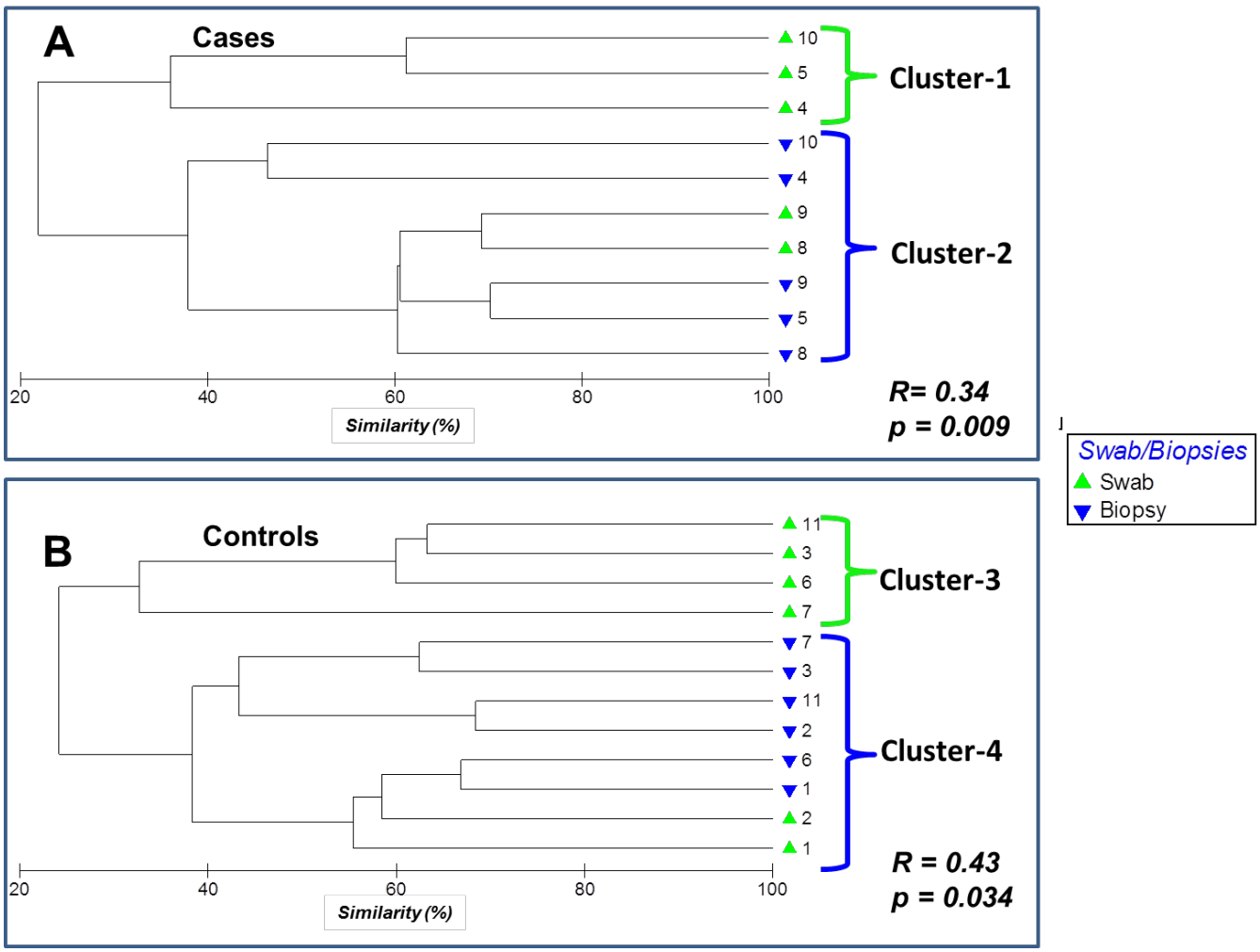
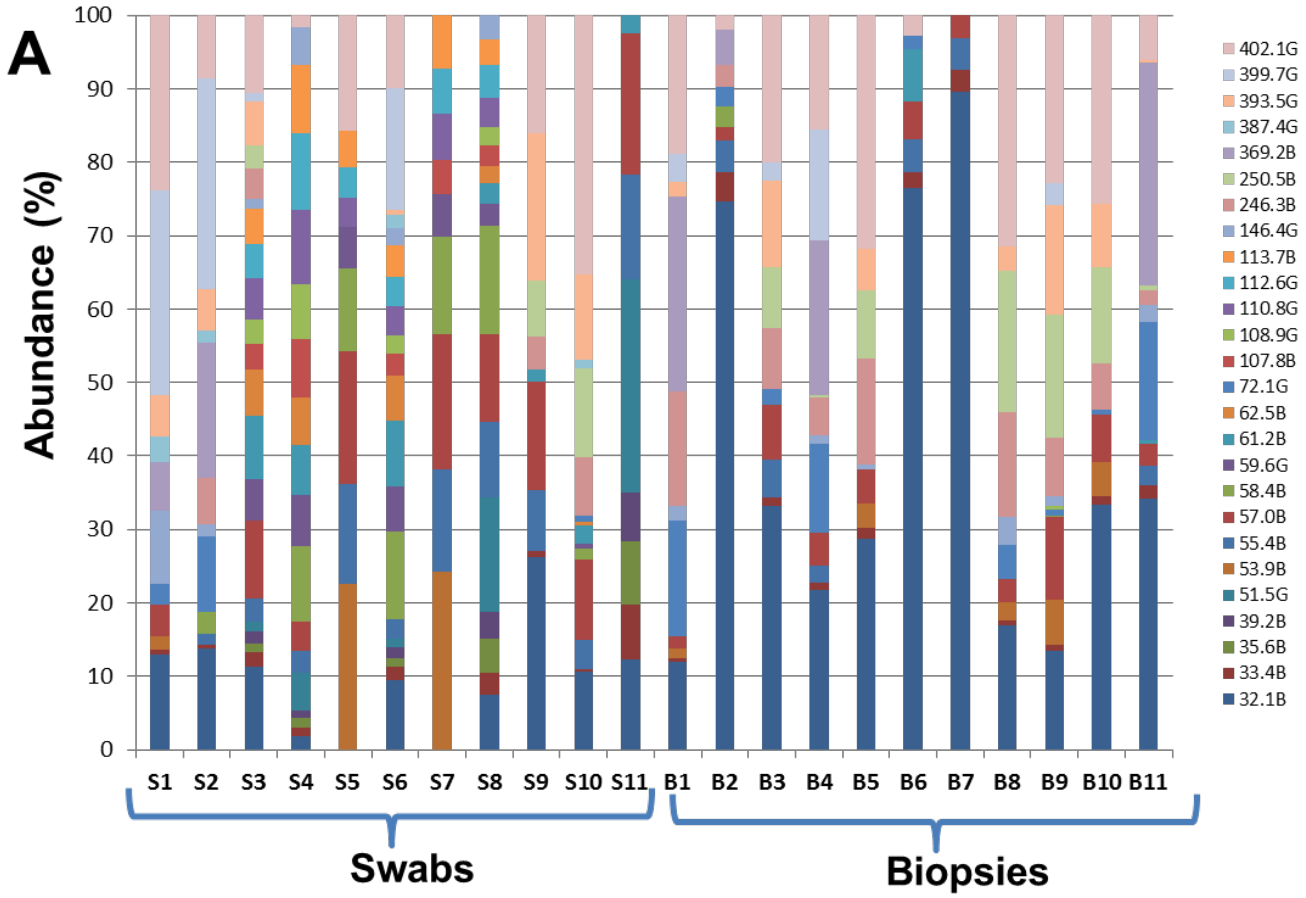
Supplemental Figure 1: Hierarchical Clustering of bacterial communities in rectal swabs and rectal biopsies by adenoma status. Bray-Curtis similarities were used to construct dendrograms composed of the samples provided by the participants (1-11). Each participant is represented twice: for the rectal swab (green triangles) and rectal biopsy (blue triangles). A: adenoma cases B: non-adenoma controls. Significance values were calculated from Analysis of Similarity (ANOSIM).



Supplemental Figure 2: (A) Distribution of top contributing TRFs to the differences in bacterial composition between swabs and biopsies were determined by Similarity Percentage Analysis (SIMPER). Bars represent either the swab (S1-11) or the biopsy samples (B1-B11) collected from each subject. Each color represents a TRF and its percentage contribution. (B) Pair-wise comparisons of bacterial community composition based on Bray-Curtis similarities; swabs (S), top row; biopsies (B), left column. Values range from 0-100%, where 0% denotes no similarity between a pair of samples and 100% denotes complete similarity between a pair of samples.



B

	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11
B1	61.4										
B2	27.7	40.6									
B3	35.9	34.3	48.8								
B4	49.6	61.9	33.8	17.6							
B5	34.2	37.6	37.9	13.5	20.7						
B6	26.2	23.8	32.8	24.5	20.1	28.4					
B7	17.7	14.7	23.7	14.6	15.9	13.6	16.4				
B8	41.5	39.8	34.9	14.4	19.3	18.8	9.5	17.8			
B9	36.3	46.2	36.5	12.8	21.5	24.2	13.5	18.3	60.1		
B10	35.3	30.7	38.7	11.3	25.6	17.8	15.1	17.5	67.3	67.8	
B11	35.9	43.3	36.4	19.6	18.2	24.2	10.7	26.2	48.4	41.1	27.1

Bray-Curtis Similarity
0-20
21-40
41-60
61-80
81-100