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Mucosal microbiota of intestinal polyps reveals putative biomarkers of colorectal cancer

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Supplementary information

Additional files

Table S1: Clinicopathologic data of 12 patients with polyps after colonoscopy

Table S2: 16S rRNA microbial profiling data

Table S3: List of the public CRC datasets

Figure S1: Evaluation of alpha-diversity in CMP and HMT samples

Table S1. Clinicopathologic data of 12 patients with polyps after colonoscopy.

Samples	Sex	height (cm)	weight (kg)	BMI	symptoms	bowel motion	n° polyps	CMP sites	HMT sites	histology
1	M	180	96	29.6	pain/abdominal swelling	infrequent	2	rectum	sigmoid	hyperplastic
2	F	165	60	22.2	pain/abdominal swelling	infrequent	1	sigmoid	rectum	hyperplastic
3	F	180	75	23.1	pain/abdominal swelling	regular	2	sigmoid	rectum	hyperplastic
4	M	175	60	19.6	no symptoms	regular	5	transverse colon	sigmoid	hyperplastic
5	M	160	68	26.5	no symptoms	regular	2	sigmoid	sigmoid	tubular adenomas
6	M	175	83	25.6	pain/abdominal swelling	regular	2	transverse colon	sigmoid	tubular adenomas
7	M	162	71	26.1	no symptoms	regular	2	ascending colon	sigmoid	tubular adenomas
8	F	145	37	17.6	hematochezia	constipation	1	rectum	sigmoid	hyperplastic
9	F	165	72	26.5	pain/abdominal swelling	infrequent	1	sigmoid	rectum	hyperplastic
11	F	153	72	30.7	no symptoms	regular	2	sigmoid	rectum	hyperplastic
12	M	176	84	27.2	no symptoms	regular	1	sigmoid	sigmoid	hyperplastic
13	M	162	80	30.5	no symptoms	regular	1	ascending colon	sigmoid	tubular adenomas

Table S2: 16S rRNA microbial profiling data.

Samples	Number of sequenced pe reads	Number of pe reads with mean quality > 20	Number of merged pe reads	Human sequences	Length outside bounds of 100 and 400	Ambiguous bases	Homopolymers > 7	Mismatch in primers >1	Reverse primer not found	Final Read Number
1_HMP	76352	75090	66727	556	0	0	3	31987	68	34113
1_CMP	99597	96947	89782	7454	0	0	4	28562	103	53659
2_HMP	262569	249759	242886	34817	0	0	17	5835	199	202018
2_CMP	120637	117531	114142	3698	0	0	2	2869	72	107501
3_HMP	70571	68276	60599	12564	0	772	29	3025	81	44127
3_CMP	62914	59825	53078	16100	0	578	31	2535	51	33783
4_HMP	65358	64641	60572	3578	0	1051	24	4918	115	63516
4_CMP	41247	39954	35490	15046	0	738	7	4171	102	59414
5_HMP	91031	89145	82349	12725	0	1239	1	3872	109	59684
5_CMP	78916	77830	71003	6571	0	808	3	3050	82	39719
6_HMP	77288	76378	70066	5161	0	1684	8	4183	135	70286
6_CMP	59515	58448	51852	8190	0	1411	1	4043	101	60432
7_HMP	95790	94194	84655	8359	0	884	9	3838	144	51676
7_CMP	74620	73970	66399	410	0	710	16	3179	68	42553
8_HMP	78125	76939	70644	14093	0	825	1	4052	180	52284
8_CMP	101175	98829	91152	44626	0	558	14	3538	99	49062
9_HMP	64850	64070	57440	98	0	825	1	4052	180	52284
9_CMP	76965	75690	68954	15683	0	558	14	3538	99	49062
11_HMP	84825	83923	76741	3315	0	1538	2	4067	114	67705
11_CMP	66890	65438	57745	1064	0	1228	1	3651	98	51703
12_HMP	87497	85409	78754	9015	0	1307	6	4065	86	64275
12_CMP	77867	75333	68322	1779	0	950	4	4755	81	60753
13_HMP	80426	79034	73216	5866	0	835	9	4447	107	61952
13_CMP	64472	63420	56664	4241	0	0	2	4511	337	47573

Supplementary Figure legend

Figure S1. Evaluation of alpha-diversity in CMP and HMT samples. Panel A shows the average rarefaction curve representing variation of the Chao1 diversity index at increasing sequencing depth of CMP and HMT samples. Panel B displays the average rarefaction curve representing all 24 samples: dashed lines represents all 12 CMP samples and straight lines represents all 12 HMT samples. X-axis show the number of reads.

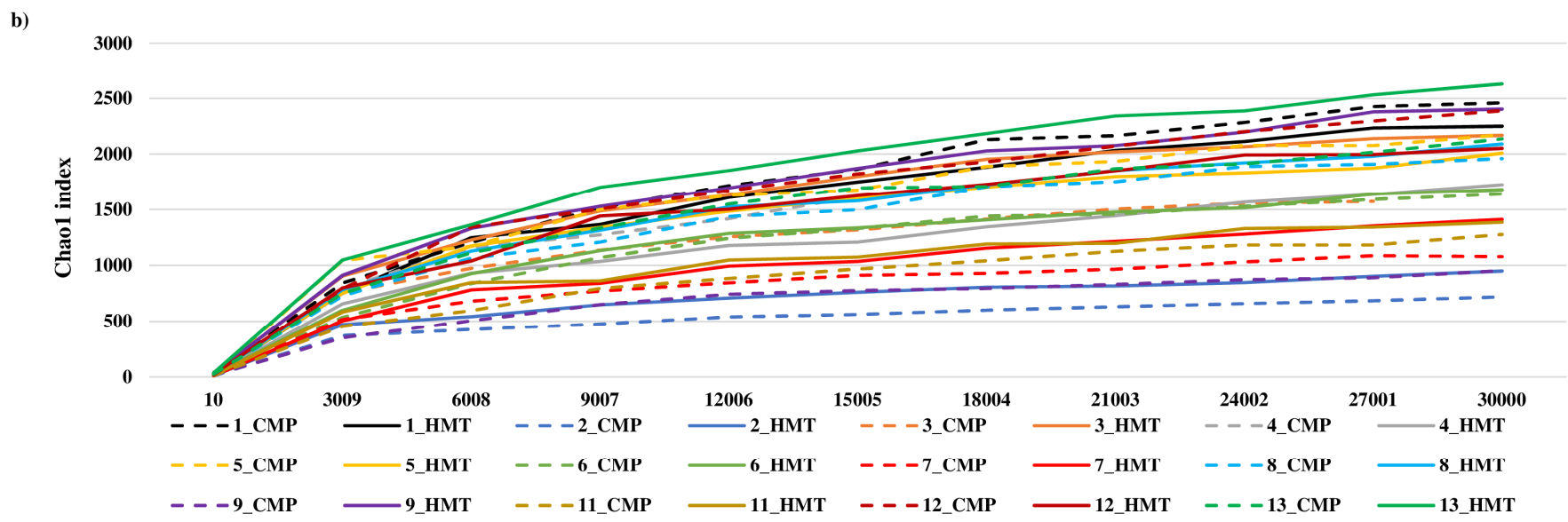
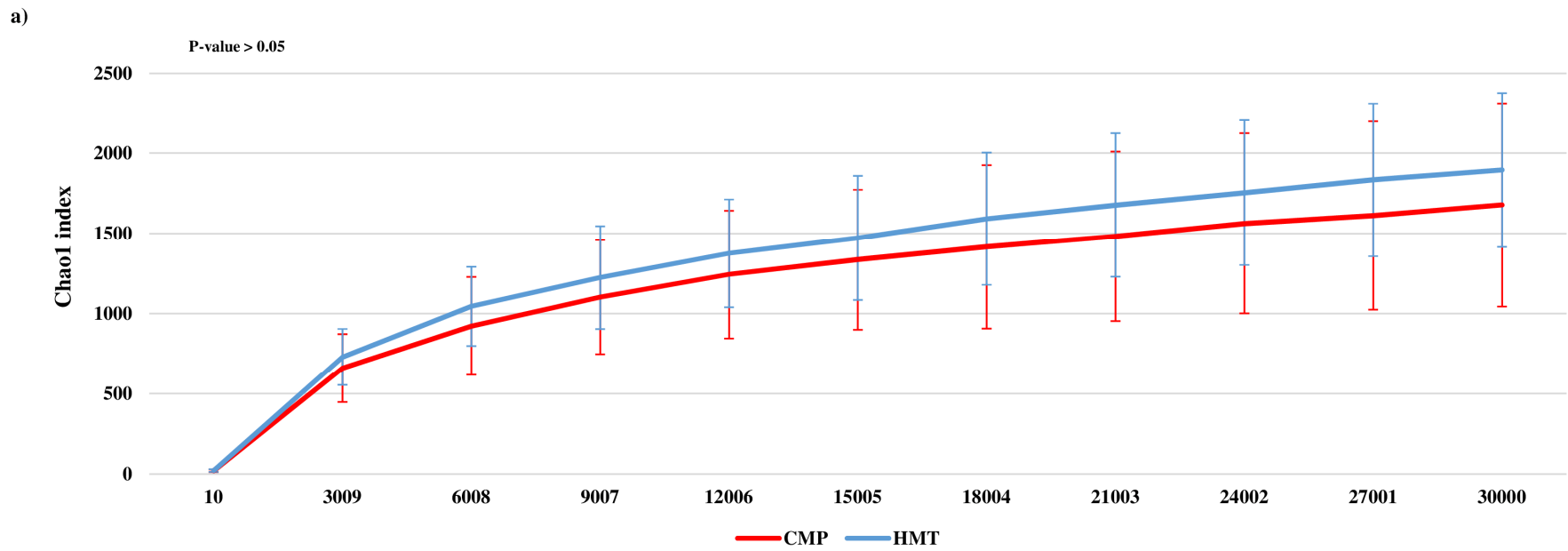


Figure S1