Supplementary table 1. Fecal abundances of the 20 CRC-associated bacterial gene markers by metagenome sequencing

#	sequer	sample_n	study_id	group	370640	482585	1704941	2736705	3246804	1696299	2040133	2361423	3173495	181682	3531210	3976414	2211919	1804565	2206475	1559769	4256106	3611706	3319526	4171064
1	ERS848(	M2-PK00	yu2015_16	CRC	0	0	0	0	0.05134	11.828	3.39682	107.763	87.0463	0.45763	0	13.4009	1.02976	7.76767	0	37.2947	0.49503	0.27413	28.8815	3.47407
2	ERS848(	M122A	yu2015_16	CRC	0	0.49406	3.46143	0	0	3.66237	22.5734	29.8174	28.3565	0.24953	0	12.6294	0.46726	8.74579	1.47034	30.2933	0	0	27.0321	14.4423
3	ERS848(	M2-PK01	yu2015_16	CRC	0	0.12041	0.67977	0.24721	0	27.5634	9.57936	116.488	96.3634	0.05179	0	10.9021	0.23214	6.10606	0.24294	32.9307	0	0	7.81513	1.39471
4	ERS848(	M2-PK01	yu2015_16	CRC	0	0.3876	0.56041	0	0	4.75376	1.2004	353.597	333.009	0	0	16.8485	0.34524	1.80808	0	109.603	0	0.10039	26.172	3.29418
5	ERS848(	M2-PK00	yu2015_16	CRC	0	0.07494	0	0.21691	0.95556	5.51398	1.52976	2.58211	2.47917	0.14689	0	2.50117	1.97321	0.18855	0.5339	23.6867	0	0.42085	10.9793	1.05397
6	ERS848(	M2-PK01	yu2015_16	CRC	0	2.16176	0.0917	0.91866	0	0.06559	1.7758	0.57598	0.71296	0.39548	0	1.72261	0	1.86532	0.07768	19.364	0	0.19949	4.49679	2.99577
7	ERS848(	M2-PK01	yu2015_16	CRC	0	146.458	0	1.91866	0	0.05806	16.9405	6.02206	6.36574	0.11205	0	2.81701	1.82738	3.63131	0.41525	19.9347	0	0	1.15846	0.16296
8	ERS848(	M123A	yu2015_16	CRC	0	7.27338	0.33188	0	1.72184	3.43118	0.15278	53.8027	44.088	14.3183	0	0.61772	0	0.06902	0	11.72	0	0	0.36688	0
9	ERS848(	A21A	yu2015_16	control	0.26701	0.03463	0.54003	0	0	0.2957	2.44048	0	0	25.3983	0	0.79138	1.50595	0.60269	2.11158	5.88134	0	0.34878	0.98858	0.24868
10	ERS848(	M2-PK01	yu2015_16	CRC	0	0.2677	3.47453	0	0	1.76237	5.09723	0.4951	0.32407	0.22034	0	3.68182	0	0	1.08757	11.1973	0	0	8.63811	6.23598
11	ERS848(	506A	yu2015_16	control	0	0.08114	0.11499	0	0	0	0.30159	0	0	0	0	7.47435	2.67262	0.45455	6.30932	20.6333	0	0.27284	27.5782	20.2148
12	ERS848(	M2-PK01	yu2015_16	CRC	0	0.0615	0	0	0	3.73441	4.03572	0.64093	1.07176	0.81639	0	8.72494	0	1.61448	0.49859	4.73067	0	0	16.06	2.51111
13	ERS848(	M2-PK01	yu2015_16	CRC	0	0.88992	0	2.33812	0.11954	0.32366	1.43849	0.09314	0.18287	0.13465	0	8.46969	1.73214	9.05723	0.31921	24.2587	0	13.9305	29.7016	2.54497
14	ERS848(	M116A	yu2015_16	CRC	0	2.08062	2.88792	7.24721	1.45517	6.64301	13.994	1.81618	3.82176	0.83804	0	24.1585	4.02679	1.73064	0.63701	28.5453	0	0	29.7116	2.08783
15	ERS848(	M115A	yu2015_16	CRC	0	1.26253	0.77293	0.1244	0.28199	0.32258	3.83929	0.53186	0.49769	0	0	0.11655	0	0.06902	0	6.62667	0	0	0.44968	0
16	ERS848(	M2-PK00	yu2015_16	CRC	0	6.84857	0	0.2488	2.0774	0.4043	19.4425	1.61397	1.02546	0	0	1.58042	0.12202	3.19697	3.7161	58.0827	0	0.19305	6.56959	6.52698
17	ERS848(	M2-PK00	yu2015_16	CRC	0	4.63411	0	0.52632	0	0	2.51984	0	0	0.41337	0	3.66783	0	2.65489	0.08192	22.664	0	0.26512	16.1792	6.36402
18	ERS848(	M2-PK00	yu2015_16	CRC	0	0	0.22125	0.1244	0	1.40753	1.04564	2.74265	2.35185	0.0339	0	1.98718	2.08036	1.50673	0.47175	15.912	0	0	5.31049	2.06349
19	ERS848(	A60A	yu2015_16	control	0	3.6	6.28093	0.34928	0	0.87312	5.21032	0.37745	0.18287	2.77307	0	1.5	0.56845	0.28956	1.7613	16.4013	0	0	3.55888	0.63598
20	ERS848(	M89A	yu2015_16	CRC	0	0.02067	0.18632	0.48644	0	2.55269	63.877	0	0	0	0	0	2.36905	0.90741	0	2.75333	0	0	0.49893	0
21	ERS848(	A51A	yu2015_16	control	0	0.077	0	0	0	1.75484	0.44643	0	0	0.21846	0	5.31119	1.86607	0.36027	14.9251	31.996	0	0	14.8515	3.55873
22	ERS848(	M84A	yu2015_16	CRC	0	0	0.55022	0	0.05977	0.07634	0.46032	1.42892	0.62037	0.03955	0	34.9417	1.58929	0.06734	0	42.2227	0	0	72.3291	5.32592
23	ERS848(	M118A	yu2015_16	CRC	0	0.15866	6.82678	0	0	2.32581	10.6468	6.02574	6.68055	4.74105	0	4.74009	0.46429	0.6936	0	11.0027	0	0	18.8258	10.2593
24	ERS848(	M117A	yu2015_16	CRC	0	0	0	0	0	0.23763	0.46429	0.17892	0	0.1177	0	5.90093	1.20833	0.66667	2.55226	10.3067	0	1.12741	3.53247	0.81587
25	ERS848(	509A	yu2015_16	control	0.19638	0.23256	0	0.47847	0.02912	0.0871	1.86905	0	0	0	0	12.0361	5.40178	1.61616	0	7.336	0	0	18.1392	4.56085
26	ERS848(	M113A	yu2015_16	CRC	0	1.56589	0.08588	1.84689	0.76092	0.61183	2.99206	0.3799	1.36806	0	0	0.61072	0.22917	1.09428	0	18.5627	0	0	0.27266	0
27	ERS848(	M2-PK01	yu2015_16	CRC	0	0.30026	3.41921	0.23605	0	71.0871	2.36508	62.3713	44.2917	0.37006	0	8.03379	0.48214	4.52357	1.40396	25.0907	0	17.8919	12.242	1.35979
28	ERS848(	M2-PK00	yu2015_16	CRC	0	3.48321	0	3.34769	0.23678	1.09893	12.5853	0.76471	0.73611	1.2307	0	10.3193	0.29762	0.86532	3.39407	13.8133	0	1.79794	6.32691	6.11323
29	ERS848(	M2-PK00	yu2015_16	CRC	0	0.06202	0	0	0.34943	1.70538	7.7381	0.09559	0.85185	0	0	2.66084	31.3661	0.4798	0	94.696	0	0	7.57816	1.30688
30	ERS848(	M2-PK01	yu2015_16	CRC	0	0.50543	0.32606	0.2488	0	2.05914	1.7381	0	0	0.13654	0	1.29487	0.23512	0.31482	0	6.18933	0	0.5444	4.16702	0.68571
31	ERS848(	M2-PK03	yu2015_16	CRC	0	0.11835	0.22853	0.11962	0	0.1785	0	0.3848	0.18287	4.85593	0	9.14335	25.6696	23.6902	1.5678	177.455	0	0.1583	56.1163	5.18624
32	ERS848(	M2-PK02	yu2015_16	CRC	0	0.58708	0	0.36204	0	0.74839	4.43452	4.63235	2.17593	1.32674	0	1.39977	1.09226	0	0	114.121	0	0	12.1256	0.97249
33	ERS848(	M2-PK80	yu2015_16	control	0	0.04134	0	0	0	2.23011	9.54564	0	0.12963	10.92	0	14.2412	18.5268	8.03704	1.25	106.432	20.3607	1.71943	86.8901	30.4402
34	ERS848(	M2-PK03	yu2015_16	CRC	0	0	0.21106	0.24561	0.11954	0.15376	0.38492	0	0	0.56497	0	17.5058	1.98512	4.17677	0	33.82	0	0	58.4954	29.7957
35	ERS848(	M2-PK04	yu2015_16	CRC	0	0.68889	7.87191	0.24721	1.10115	0.94301	2.25992	0.35784	0.47222	0.08098	0	1.12238	1.03572	0.98485	0.21186	11.5147	0	0	2.6167	0.34603
36	ERS848(	M2-PK04	yu2015_16	CRC	0	0.37468	0	0.1244	0.05441	2.36882	4.53373	0.28799	0.36343	0.22034	0	13.993	0.9256	7.05387	9.61158	40.4507	0	3.50708	41.7145	12.5471
37	ERS848(	M2-PK02	yu2015_16	CRC	0	0.97209	0	0.23126	0.47586	4.59893	5.35516	0.1875	0	0.03861	0	0.8683	1.92559	1.31987	0.43785	28.6973	0	0.08108	4.97074	0.39259
38	ERS848(	M2-PK02	yu2015_16	CRC	0	0	3.39447	0.59968	0	12.1979	42.2976	30.049	24.7731	0.31356	0	6.35198	0.56845	10.1936	0.31356	20.5733	0	0.09395	23.0271	3.90688
39	ERS848(	M2-PK03	yu2015_16	CRC	0	0	5.07569	0.49761	0	21.4269	0.86508	78.5184	51.338	0.17985	0	8.85547	1.61012	2.71381	1.30509	12.4053	0	8.574	21.9258	5.15979
40	ERS848(	M2-PK00	yu2015_16	CRC	0	0.05736	0	0	0	2.90753	1.11706	2.05515	0.55093	0	0	6.14335	0	1.26263	0	60.5813	0	0.09781	62.3126	2.39577
41	ERS848(	M2-PK01	yu2015_16	CRC	0	0	0	0	0	0.92796	0.92063	0.09436	0.71991	0.62618	0	6.25641	0.23512	0.1734	0	6.87467	0.19486	0.10039	31.5624	4.28254
42	ERS848(	M2-PK02	yu2015_16	CRC	0	20.4393	0.49054	2.31419	9.73641	10.2882	10.8492	191.763	143.153	2.36818	0	15.345	8.97321	2.39731	41.5593	69.1907	0	1.41956	46.1078	8.10687
43	ERS848(	M2-PK00	yu2015_16	CRC	0	1.96021	3.29985	0.61244	1.69425	8.13333	14.5754	8.78554	6.14352	5.5678	0	5.72611	4.39881	1.19697	0.55791	68.512	0	0	18.2106	1.54392
44	ERS848(	M2-PK02	yu2015_16	CRC	0	0.35401	0.22999	0	0.11494	1.87634	10.2381	0.95221	0.36806	0.45104	0	38.127	1.64286	0.39562	5.49152	40.5013	0	0.09009	59.7709	11.0455
45	ERS848(	M2-PK02	yu2015_16	CRC	0	0	0	0	0	2.9828	0	2.46937	1.21528	0.26648	0	60.4941	3.92559	3.41077	0.38842	72.424	0	0.09395	204.116	30.3365
46	ERS848(	M2-PK03	yu2015_16	CRC	0	1.32352	0.11208	0.86603	0	0.93441	0.45635	0.19363	0.18056	1.21563	0	8.84265	0.59524	5.25926	0.09887	12.5773	0.12852	0.80566	50.4689	8.97883
47	ERS848(	M2-PK02	yu2015_16	CRC	0	1.2093	5.52401	1.37799	0.23831	3.13118	1.39087	3.7549	2.47917	0	0	7.6282	2.12203	1.98148	2.4209	6.16133	0.5796	0	27.7216	6.72064
48	ERS848(	536A	yu2015_16	control	0.2696	0.03411	0	0.1244	0	4.0871	2.45833	0.06985	0.18519	2.70527	0	43.8205	1.50595	24.5286	8.16102	33.3427	0.48839	8.53024	97.828	15.1206
49	ERS848(	534A	yu2015_16	control	0	0.05943	18.1077	0	0	6.75591	0	0	0	2.57627	0	0.30303	9.89582	0.28788	0	55.0854	32.0357	0.19434	1.7773	1.41905
50	ERS848(	530A	yu2015_16	control	0	0	0	0	0	0.25807	4.71826	0.18995	0	0.05744	0	0.05944	2.78572	0	0	11.144	0	0.10039	0.05282	0
51	ERS848(	519A	yu2015_16	control	0	0.04134	0	0	0	1.93979	1.18849	0	0	2.30414	14.3826	64.0349	7.51786	25	18.9717	105.516	1.66501	21.9948	134.127	40.891
52	ERS848(	517A	yu2015_16	control	0	0	0	0	0	0	0	0	0	0.28531	0	17.831	4.59821	2.86532	0	10.5613	4.96186	0	50.0842	17.745
53	ERS848(	516A	yu2015_16	control	0	0.95917	0.31296	3.45614	0	0.17097	0.91667	0	0	0	0	21.7541	0	2.6633	59.2952	14.896	0	0	42.5582	65.9671
54	ERS848(	515A	yu2015_16	control	0	0	0.34498	0	0.05977	0.21935	4.91468	0.87745	0.14815	1.36064	0	141.345	3.56845	3.88047	48.9901	54.776	0	0	261.151	38.6434
55	ERS848(	512A	yu2015_16	control	0.04048	0.03204	0	0	0	0.32258	0.61905	0	0	0.12053	94.2475	16.7494	5.84822	5.68014	7.63701	36.596	0.26202	5.55212	16.3198	3.95026
56	ERS848(	502A	yu2015_16	control	0	0	0	0	0	0.73333	0	0	0	5.34841	0.8992	32.8508	2.4494	2.92424	1.51554	20.5107	0	0.18919	58.8158	20.8593
57	ERS848(	A10A	yu2015_16	CRC	0	6.65788	7.39301	4.82137	8.22069	0.99355	6.09523	22.9596	20.2963	0	0	0.37879	0	1.20707	0	34.4373	0	0	0.16274	0.07302

#	sequer	sample_n	study_id	group	370640	482585	1704941	2736705	3246804	1696299	2040133	2361423	3173495	181682	3531210	3976414	2211919	1804565	2206475	1559769	4256106	3611706	3319526	4171064
58	ERS848(	M2-PK50	yu2015_16	control	0	0	0	0	0	0	0	0.25123	0.36806	0.18456	0	15.2762	1.58929	1.52862	5.74011	51.7707	0	0	54.414	7.4455
59	ERS848(	M2-PK51	yu2015_16	control	3.03187	0	0	0	0	0	0.60119	0	0	0	0	0	5.99404	0.5	0	66.128	0	0	0.50036	0.16191
60	ERS848(	522A	yu2015_16	control	0	0.34367	0.11499	0	0	0.4914	0.9127	0.18995	0.39583	1.65066	10.0584	23.2482	0	0.32155	14.5565	32.2653	0	0	44.1727	5.87725
61	ERS848(	M2-PK52	yu2015_16	control	5.32386	0.49819	0	0	0	3.69032	5.39286	0.0625	0.18287	10.0706	0	14.9056	4.6994	5.44445	5.46045	53.1827	0	76.8391	34.0378	11.6667
62	ERS848(	M2-PK52	yu2015_16	control	0	0	0	0	0	0.64516	0.15476	0	0	4.15348	0	53.3543	2.83334	5.70707	5.06921	36.8453	0	27.547	109.175	16.472
63	ERS848(	M2-PK53	yu2015_16	control	0	0.11886	0	0	0	0.98602	0.60913	0	0	1.87288	0	10.6224	2.97619	2.17509	0.78814	22.8333	0	0	18.7216	7.5217
64	ERS848(	M2-PK53	yu2015_16	control	0	0	0	0	0	12.9527	1.63889	0	0	0.64219	0.26461	13.2657	0.65774	1.1128	6.88136	9.23466	0.06302	7.1583	22.2669	3.70582
65	ERS848(	M2-PK54	yu2015_16	control	0	0	0	0	0	1.13226	0.60516	0	0	2.26836	0	5.62004	1.65476	2.05387	6.67231	11.4613	0.13018	0	34.7445	6.48148
66	ERS848(	M2-PK54	yu2015_16	control	0	0.0801	0	0.11324	0	0.4828	2.02778	0.1924	0	21.9124	0	136.657	1.97619	0.61448	3.5339	28.6467	0	0	278.615	82.5312
67	ERS848(	M2-PK55	yu2015_16	control	0	0.02067	0	0.36842	0	0.77097	5.56151	0	0	2.56121	0	5.04895	3.52083	3.59427	3.57627	19.856	2.34577	257.322	23.1977	8.24126
68	ERS848(	M2-PK55	yu2015_16	control	0	0	0	0	0	1.21075	1.25198	0	0	0.09605	0	35.4475	2.10417	36.3182	4.05226	44.4827	1.32172	1.86615	118.829	23.3323
69	ERS848(	M2-PK60	yu2015_16	control	0	0.30336	0	0	0	0.54624	2.21032	0	0	0.10923	0	7.57459	2.14583	1.08586	0.48729	27.384	0	1.28314	17.2248	3.21587
70	ERS848(	M2-PK61	yu2015_16	control	0	0.09974	1.67977	0.1244	0	28.428	1.36508	159.824	163.19	0.03861	0.0882	15.2284	2.22917	1.96465	1.46469	46.9107	0	39.0836	32.2905	3.86561
71	ERS848(	M2-PK61	yu2015_16	control	2.24203	0	0	0	0	0.36452	0.43651	0	0	0.04708	0	9.75757	3.125	1.92593	0.48164	24.2027	1.1874	15.408	26.7124	5.73016
72	ERS848(	M2-PK61	yu2015_16	control	0.06546	0.01602	0	0	0	0.12473	2.13293	0	0	6.65819	0	61.5384	4.10715	5.00674	10.5508	43.168	0	0	96.3176	16.0688
73	ERS848(	M2-PK63	yu2015_16	control	1.76141	0.20207	0	0	0	0.77849	4.23412	0.0723	0	14.5603	0	20.7681	3.08929	10.6835	5.64972	54.3347	0	0.73616	48.1313	12.4952
74	ERS848(	M2-PK64	yu2015_16	control	0	1.5168	0.18341	0.12121	0	0.17312	4.13691	0.09681	0.18519	0.05367	0	0.51399	0	20.1094	2.27119	25.02	0	2.27542	0.0464	0
75	ERS848(	M2-PK64	yu2015_16	control	1.05082	0.01602	0	0.12121	0	0.43979	0.2996	0.15441	0	3.66667	0	19.6352	1.38691	4.04209	1.05791	29.9053	0.32421	0.1583	54.7145	13.7429
76	ERS848(	M2-PK64	yu2015_16	control	0	0.40207	1.88646	0.24721	0	2.58494	2.44841	0	0	0.62147	0	0.6352	2.20238	0.26431	0.17373	18.3493	0	0	1.43754	0.15979
77	ERS848(	M2-PK65	yu2015_16	control	0	0.22481	0	0	1.03755	0.03333	38.8135	0	0	0.71563	0.6575	21.7517	17.2262	0.65488	0.28107	143.609	0	0	60.758	14.6222
78	ERS848(	M2-PK65	yu2015_16	control	0	0.29044	0	0	0	1.13118	7.25595	0	0	5.04426	0	33.5408	4.05655	7.12795	0.86441	36.556	0	0.6139	76.0864	16.1704
79	ERS848(	M2-PK65	yu2015_16	control	0	0	0	0	0.05977	2.27419	2.24206	0	0	6.42185	0	68.3403	17.2411	8.00841	22.0607	79.244	9.65009	3.76834	141.528	69.6465
80	ERS848(	M2-PK66	yu2015_16	control	1.51077	0.03463	0	0.24402	0	0.85699	0	0.62745	0	0.42185	0	19.31	2.82441	4.38552	0	22.2293	0	5.39897	48.4333	4.6127
81	ERS848(	M2-PK69	yu2015_16	control	0	0	0	0	0	1.69462	1.79563	0	0	3.7307	0	10.3054	1.5119	2.29461	1.5452	15.7653	0.18906	43.3552	29.4133	9.81375
82	ERS848(	M2-PK70	yu2015_16	control	0	0.17313	0	0	0	7.31936	3.59326	0	0	0.0904	0	11.1643	5.99702	2.58586	0.44774	44.8173	0	2.42214	24.06	11.4413
83	ERS848	M2-PK70	yu2015_16	control	0.50991	0	0	0	0	1.3	0.72818	0	0	1.21092	0	3.98252	2.73512	0.41077	5.83051	6.93334	0.06551	0.37194	8.36188	1.43175
84	ERS848	M2-PK70	yu2015_16	control	0	0.09406	0	0	0	0.49677	1.72222	0	0	0.95386	0	15.0524	0.42262	3.90909	23.9195	18.16	0.96103	2.54183	31.6845	5.59788
85	ERS848	M2-PK71	yu2015_16	control	0	0.02067	0	0	0	0	0.77579	0	0	0.34463	0	20.7611	14.0804	4.22896	0	47.404	24.558	0	41.4875	3.90159
86	ERS848	M2-PK71	yu2015_16	control	0	0	0	0	0	0.26667	1.42262	0	0	17.0028	0	30.4137	0.1875	1.83165	48.1229	62.3693	0	24.2612	65.4011	26.8614
87	ERS848	M2-PK72	yu2015_16	control	0	0.02067	0	0	0	0.79462	1.6369	0	0	0.2194	0	3.70513	1.13095	1.30303	0.31921	8.536	8.91708	0.82111	14.1492	1.65503
88	ERS848	M2-PK72	yu2015_16	control	0	0.6646	0.09898	0	0	1.54086	1.19643	0	0.17824	0.3484	0	15.2599	2.74405	7.6734	1.6822	12.952	0	1.12613	21.1085	7.63809
89	ERS848	M2-PK72	yu2015_16	control	0	0.03721	0	0	0	0.31505	8.7262	0	0	1.04332	0	10.8019	0	5.20034	0.13701	29.244	0.44942	12.906	30.9079	6.70793
90	ERS848	M2-PK73	yu2015_16	control	9.51076	0.29767	0	0	0.05977	0.06452	0.74405	0	0	0.48588	0	5.5338	4.22619	5.64983	0.21751	29.996	0	2.07078	17.1627	8.27725
91	ERS848	M2-PK73	yu2015_16	control	0	0	0	0	0	0.34731	0.85913	0	0	1.73164	0	12.5618	0.9256	3.03199	0.29944	11.58	0.2927	18.1737	20.4561	3.21375
92	ERS848	M2-PK75	yu2015_16	control	1.55039	0.06305	0	0	0	0.13656	2.61111	0	0	3.03484	0	10.6107	1.0506	2.98653	3.70904	24.588	0.61028	0.44402	29.8751	5.27407
93	ERS848	M2-PK75	yu2015_16	control	0	0.11628	0.3639	0	0	1.6914	3.375	0.91544	1.08565	1.49435	0	42.6457	8.54761	12.7997	3.10593	91.1347	11.476	0	119.712	39.8508
94	ERS848	M2-PK79	yu2015_16	control	0	2.44238	0	0	0	0.41505	1.12302	0.57843	0.50463	23.8428	0	19.7669	11.1577	12.4108	0	53.4534	0	0.1583	49.424	21.0286
95	ERS848	M2-PK04	yu2015_16	CRC	0	2.41602	0.09461	0	0	1.54731	34.5833	0.43873	1.0463	0	0	0.72611	0	0	0	16.3627	0	0.14929	0.9222	0.07937
96	ERS848	M2-PK04	yu2015_16	CRC	0	2.26822	0.22853	1.10367	0.17625	0.37097	32.9167	9.14462	11.2824	10.4623	0	95.0955	5.97024	0.19529	0	47.8413	0	22.6178	204.116	51.0529
97	ERS848	M2-PK04	yu2015_16	CRC	0	5.31731	0.29258	4.66507	0	1.77097	18.1369	3.36274	4.29629	0	0	2.17016	0.79464	0.9495	0	8.16534	0.06302	0	3.65382	0.34392
98	ERS848	M2-PK04	yu2015_16	CRC	0	0.27804	0.53712	0.24083	5.36552	1.40645	14.4524	2.83946	2.48611	0	0	8.79021	0	9.87205	0.68927	18.904	0	0.1879	15.7723	2.34074
99	ERS848	M2-PK05	yu2015_16	CRC	0	0.52506	0.11499	0	6.00154	1.32688	10.9464	0	0	0	0	8.38927	0	0.05051	0	30.8773	0	0	19.5375	19.6042
100	ERS848	M2-PK05	yu2015_16	CRC	0	1.41706	0	0.1244	0	0.29247	4.89683	0.28431	0.53472	8.33804	0	11.2564	0	0.12458	17.6723	6.95067	0	0	14.6924	5.40106
101	ERS848	M2-PK05	yu2015_16	CRC	0	0.18088	0.32314	0.2488	0	0.7914	4.30357	1.31005	0.35648	0.1403	0	16.979	1.3125	3.05387	0.74294	55.7547	0	0	53.8779	15.7344
102	ERS848	M2-PK05	yu2015_16	CRC	0	0.39225	0.22271	0	0	0.17742	0.91667	0.09191	0.16667	20.0169	0	46.8613	3.26786	2.1532	5.45763	28.3107	0	0	106.669	18.2275
103	ERS848	M2-PK06	yu2015_16	CRC	0	0.27959	0.22416	0.1244	0	0.32151	0.44048	0.6152	0	0.73729	0	14.2366	5.44941	0	0	104.167	0	0	68.0149	87.5608
104	ERS848	M2-PK06	yu2015_16	CRC	0	0	0	0.35407	1.15709	0.04946	13.006	0.09804	0	0	0	3.48135	0.17857	4.05724	0	5.99467	0.29353	0.77992	4.7723	3.32487
105	ERS848	M2-PK06	yu2015_16	CRC	0	0.07649	1.15429	0	0	0.64624	0.15079	0.50735	0.53241	0.11299	0	2.85664	0	0.95118	0.14972	6.77334	0	0	6.38687	1.17143
106	ERS848	M2-PK06	yu2015_16	CRC	0	0.10129	0	0	0	0.33871	0.30159	0.09681	0.18287	1.87194	0	9.38578	0.23512	6.6128	0	40.0347	5.82173	4.10811	26.576	4.43915
107	ERS848	M2-PK06	yu2015_16	CRC	0	0.446	0.2198	0.2504	0.35632	3.89247	5.70833	14.8113	8.62038	0.09887	0	3.22028	1.21726	0.60606	2.5904	18.3253	0	0	8.66667	0.7418
108	ERS848	M2-PK08	yu2015_16	CRC	0	0.41137	9.08734	0	0	5.47312	1.97024	44.6103	36.5648	6.69114	0	9.92074	0	1.95286	0	8.312	0	10.5174	24.4304	3.89206
109	ERS848	M2-PK08	yu2015_16	CRC	0	3.93695	0	1.48166	0.41226	0	9.03571	0.09681	0.29861	0	0	1.20863	0.90179	1.16667	0.52119	3.86934	0.13101	0	3.53819	0.76508
110	ERS848	MSC1A	yu2015_16	CRC	0	2.82842	3.19651	0.64434	0.33027	1.47527	4.23016	0.65809	0.18287	0.11017	0	18.6527	0	4.56565	0.27684	18.196	0.13184	4.05277	29.5967	3.12063
111	ERS848	MSC4A	yu2015_16	CRC	0	0.17261	0.10917	0	0	1.89892	3.49207	0.09681	0.18287	1.13936	0	16.183	0	1.91246	4.23587	21.44	0	0	41.1256	6.31217
112	ERS848	MSC5A	yu2015_16	CRC	0	0	0.20815	0	0	1.03441	0	12.7917	9.25694	0.78814	0	8.54312	0	0.76768	0	9.23333	0	1.02317	12.2698	4.27195
113	ERS848	MSC6A	yu2015_16	CRC	0	0.43566	0.11208	0	0.06054	0.96344	23.373	10.4669	6.84259	0.43785	0	5.79371	1.08631	1.1835	3.37288	20.1	0	1.03475	16.1834	1.91535
114	ERS848	MSC45A	yu2015_16	CRC	0	1.41189	0.50218	1.77671	0.06054	23.214	5.5635	56.9645	41.7593	0.21657	0	0.61072	1.625	2.11448	0.60876	22.408	0	0.32046	7.59529	0.07619

#	sequer	sample_n	study_id	group	370640	482585	1704941	2736705	3246804	1696299	2040133	2361423	3173495	181682	3531210	3976414	2211919	1804565	2206475	1559769	4256106	3611706	3319526	4171064
115	ERS8487	MSC54A	yu2015_16	CRC	0	2.5354	1.0524	1.77831	5.44981	1.50108	1.73413	9.0429	9.61574	0	0	0	0	0.76599	0	25.3587	0	0	0	0
116	ERS8487	MSC63A	yu2015_16	CRC	0	0.4186	3.38282	0.24402	0	0.93979	1.6508	1.81495	1.76158	0	0	5.65501	0	1.36532	0	11.4027	0	0	27.212	17.1788
117	ERS8487	MSC76A	yu2015_16	CRC	0.0646	0.59845	2.43086	0.70814	0.03831	5.83978	0.4623	12.9963	6.48841	0	0	3.46736	0	0.05892	0	2.71333	0	0.19434	10.8294	2.66138
118	ERS8487	MSC78A	yu2015_16	CRC	0	0.02067	0.21397	0.48804	3.1885	0.65591	2.94643	2.6875	1.09491	1.88512	0	0.65268	1.5	0.07744	10.2302	27.1853	0	0.10039	5.32191	8.86349
119	ERS8487	MSC79A	yu2015_16	CRC	0	5.20724	8.25765	0	1.0023	12.1505	3.97619	47.4804	43.4236	0.24106	0	10.5396	0.47024	2.00674	0	16.9053	0	0	65.7309	18.9905
120	ERS8487	MSC81A	yu2015_16	CRC	0	1.10749	0.11499	0.1244	0.20077	4.26989	8.37302	0.57966	0.97917	69.0838	0	0	0	0.16667	0	37.7693	0	0	0.40614	0.06455
121	ERS8487	MSC103A	yu2015_16	CRC	0.24892	0.25581	1.0393	0.24721	0	3.34409	18.881	0.82843	0.36574	0.03861	0	38.6841	0.97619	12.3165	3.48728	40.948	0	0.08494	84.6923	13.5249
122	ERS8487	MSC119A	yu2015_16	CRC	0	1.72765	0.34789	0	0	0.13656	0.74206	0.56863	0	0.15066	0	5.93823	0.99702	0.53367	0.31356	16.4373	0	0.21364	19.7873	4.86879
123	ERS8487	MSC120A	yu2015_16	CRC	0	0	0	0	0.11724	1.76989	7.4623	6.2451	3.35648	0.45386	0	12.4417	0.47321	4.54882	1.13277	64.456	0	0	18.5696	2.55238
124	ERS8487	M2-PK52(	yu2015_16	control	0.20241	0.01602	0	0	0	1.24839	1.58929	0	0	4.03013	0	14.2506	14.5208	13.9697	5.80933	103.845	0.72803	3.79279	66.1841	13.3799
125	ERS8487	M2-PK53	yu2015_16	control	0	0.28217	0	0	0	0.22043	3.0377	0.36152	0.36343	1.49906	0	17.1002	4.91964	3.26768	6.27119	109.372	0	13.2715	51.3283	7.18306
126	ERS8487	M2-PK05(	yu2015_16	CRC	0	0.50026	0	2.14354	0	0.29032	6.15873	0.2451	0.17824	0.09981	0	14.3939	0.09226	1.70875	1.06215	12.536	0	1.75804	48.8215	3.83915
127	ERS8487	M2-PK06(	yu2015_16	CRC	0	0.09561	0.11499	0.34609	0	0.97312	1.56349	0.3848	0.5162	0.8032	0	22.1142	1.80655	14.4007	3.39689	91.0827	0	1.02059	95.1913	16.7704
128	ERS8487	M2-PK08	yu2015_16	CRC	0	0	3.3115	2.11962	0	1.84301	98.9743	76.435	58.6713	1.06309	0	0.6352	0	7.33502	0	50.288	0	0	2.11278	1.06243
129	S1_001	ANS1033	yu2017	control	0	0	0	0	0	3.3828	6.96429	0	0	26.1205	0	58.9207	2.83333	1.71044	0.90113	50.2787	0	10.1982	88.9871	28.6656
130	S1_002	ANS1103	yu2017	control	0	0.02067	0	0	0	0.82258	0	0	0	0.03861	0	31.345	2.9375	1.36532	16.2698	42.1973	0	0	59.7823	17.5333
131	S1_003	ANS1120	yu2017	control	0	0	0	0	0	0.43333	0	0	0	0.14689	0	43.4638	5.17261	2.31481	0.96751	42.7547	0	0.53925	67.586	14.7217
132	S1_004	ANS1137	yu2017	control	0.03531	0.72403	1.39301	0	0.36858	2.83656	31.9306	0	1.53704	21.0217	0	76.5221	5.51786	2.61111	12.5791	75.9947	0	64.6306	102.641	18.0624
133	S1_005	ANS1146	yu2017	control	0	1.8186	0	0.53429	2.93333	0	13.2242	0.27451	0	0.21469	0	8.05245	1.11012	1.93266	0	15.18	0	2.79022	4.19629	3.00529
134	S1_006	ANS1155	yu2017	control	0	0.58811	0	0	0	1.49463	1.31349	0	0	1.74953	0	29.2645	3.16071	0.82492	0.16102	45.6307	0	2.48391	49.9807	6.21375
135	S1_007	ANS1192	yu2017	control	0	1.23411	4.18632	0	0	0.93333	0	0	0	0	0	2.65035	0	0.52694	0.05791	22.68	0	0	0.68594	0.37037
136	S1_008	ANS1203	yu2017	control	0	0	0	0	0	1.32151	1.53968	0.13603	0.78472	0.67514	0.66323	22.7844	0.6131	2.77946	0.80085	15.536	1.86484	0	22.2555	5.47831
137	S1_009	ANS1211	yu2017	control	0	1.02015	4.64483	0	0	0.26667	52.0476	0	0	5.43503	0	74.8613	0	1.16498	0.69915	83.952	0	0	144.54	163.78
138	S1_010	ANS1214	yu2017	control	0	1.11731	0	0.17544	0.03985	1.58817	6.64286	0	0	0	0	13.5909	5.49405	0.24579	0	33.9827	0	0	18.2691	4.50688
139	S1_011	ANS1216	yu2017	control	0	0.57571	0.0524	0.18182	0	0.06129	13.0278	0.09191	0	0	0	26.0245	8.81248	1.8165	3.49435	44.1907	0	31.5225	51.5824	17.5587
140	S1_012	ANS1227	yu2017	control	0	0.36434	0.34352	0.36364	0	0	8.09524	0	0.94445	0	0	18.6573	0	0	4.65396	11.764	0	0	25.4989	13.0889
141	S1_013	ANS1232	yu2017	control	0	0.11731	3.45852	0	0	1.93763	2.13095	0	0.45602	0.37006	0	7.49067	2.08036	14.6818	18.7924	39.9613	0	0	15.7159	5.41799
142	S1_014	ANS1234	yu2017	control	0	4.7199	0	1.39873	0	0.24194	24.4147	0	0.26389	0	0	0.48485	0	0.08418	0	47.7627	0	0	0.08137	0
143	S1_015	ANS1237	yu2017	control	0	0	0	0	0	0.73548	1.18453	0	0	0.25235	0	7.74942	0.26191	0.46296	2.38277	26.9573	0	0	14.7095	1.48254
144	S1_016	ANS1238	yu2017	control	0	0.06202	0	0	0	5.31291	2.23611	0	0	1.28908	0.94387	29.9988	5.24703	5.95118	15.9703	51.204	0	1.52381	50.6067	11.4593
145	S1_017	ANS1240	yu2017	control	16.435	0.20672	0	0.17863	0	0.33763	2.52381	0.03922	0	0	1.32073	21.3764	0	0.72222	0	42.168	0.6136	1.71429	49.1763	24.2508
146	S1_018	ANS1444	yu2017	control	0	0.11783	0	0	0	0.03441	0	0	0	33.6591	0	1.99767	0	0.4798	0	7.45467	0	0	0.1449	0.10688
147	S1_019	ANS1452	yu2017	control	35.7631	0.11215	0	0	0	0.07097	2.77183	0.1348	0.5162	0.70151	0	77.4102	2.08036	12.2222	2.50282	113.111	0	0.21364	103.905	25.1725
148	S1_020	ANS1462	yu2017	control	10.0939	1.52662	1.04076	0.54386	0	0.62688	17.4921	0	0	29.0085	0	23.4755	4.66964	1.6835	10.1568	48.9053	0	3.60618	35.1392	6.24338
149	S1_021	ANS1466	yu2017	control	0	1.78812	74.639	0	0	12.5333	7.85119	0.72549	1.46759	0.05744	0	2.43007	2.05655	6.32491	0	9.41067	0	0	5.93434	1.05926
150	S1_022	ANS1470	yu2017	control	0.28941	0.09819	0	0	0	3.54086	2.26587	0	0	1.31733	0	22.5956	0.3125	4.22559	1.36441	19.5893	0	0.14286	43.8401	7.71111
151	S1_023	ANS1472	yu2017	control	0	0.38811	0.13246	0	0	0.3914	2.75992	0	0	1.5452	0	93.4487	5.36906	0.55892	16.1737	108.984	0	0	167.712	88.3714
152	S1_024	ANS1480	yu2017	control	0	0.35349	0	0	0	1.11075	13.6687	0.0674	0.24074	0.26177	0	159.035	15.4226	4.21212	0.49435	173.772	0	0	237.713	58.0952
153	S1_025	ANS1483	yu2017	control	17.093	0.74884	0	0	0.86896	0.3785	2.72023	0.13971	0	1.01036	0	52.451	1.55952	9.7761	1.10734	59.7453	0.77695	3.47361	96.3105	48.7587
154	S1_026	ANS1484	yu2017	control	0	0	0	0	0	1.48172	0	0.32966	0	55.9313	0	21.465	3.30357	1.5202	0	29.8987	0	0	47.0764	20.9079
155	S1_027	ANS1486	yu2017	control	24.2575	0.04134	0.29403	0	0	1.35591	6.69445	0.60172	0	5.54708	0	40.4871	17.5923	3.9596	21.6158	72.408	2.41211	1.60489	69.4625	18.9683
156	S1_028	ANS1493	yu2017	control	0	0.03204	0	0	0	0.96882	0.80159	0	0.15972	0.1742	0	27.3042	0	1.13973	0	18.2213	0	0.0991	45.0557	16.9111
157	S1_029	ANS1495	yu2017	control	27.7476	1.0863	5.00436	1.1244	0	0	12.0575	0	0	0.48682	0	3.25874	0.66667	0.37542	5.43503	13.256	0	0	4.7459	4.0127
158	S1_030	ANS1496	yu2017	control	3.11542	0.01809	0	0	0	0.12258	6.63095	0.27696	0.48611	0.76083	2.49485	22.9312	2.71131	5.29798	5.93785	45.96	0.02488	38.3771	39.8986	13.4603
159	S1_031	ANS1569	yu2017	control	0	0	0.5575	0	0	0.36237	16.8274	1.24265	0.57408	0	0	33.0361	9.57441	0	11.1596	35.8453	0.03151	0	70.9393	39.1682
160	S1_032	ANS1814	yu2017	control	0	1.01499	0	0.18182	0	3.1699	3.64683	1.5429	1.82176	45.2797	0	38.669	11.2738	2.34848	3.33616	137.995	0	1.50965	68.0885	22.8413
161	S1_033	ANS1819	yu2017	control	0	0	0	0	0	1.57957	22.5536	0	0	0.27307	0	38.5652	8.33036	2.867	0.64124	59.8787	0	0.68468	71.2719	15.5778
162	S1_034	ANS1963	yu2017	control	1.8286	1.38812	0	0.35407	0	0.23226	6.26588	0.27941	0	0.30791	0	8.37179	9.49702	2.5202	0.25565	59.8027	0	1.46847	20.1378	1.68783
163	S1_035	ANS1965	yu2017	control	0	0	1.20961	0	0	0.33763	0.5377	1.56373	0.39352	0	0	0.85082	0	0.1835	0	67.144	0	0	0.67666	1.34921
164	S1_036	ANS2001	yu2017	control	0	0.2124	0	0.36364	0	1.16989	1.81151	0	0	0.42655	0	64.8333	5.73512	4.86363	2.07062	96.5187	0.56302	6.91377	72.3647	11.1873
165	S1_037	ANS2002	yu2017	control	0	0.08269	0	0	0	2.24516	2.92262	0.5527	0	0.7533	0	57.296	1.35714	2.38552	9.49717	58.684	0	0.14672	85.7837	15.2286
166	S1_038	ANS2005	yu2017	control	0	0.01602	0	0	0.11494	2.5172	0.39881	0.54412	0	2.32109	0	57.1328	1.48214	1.99327	5.52119	63.72	0	0	79.4482	20.5259
167	S1_039	ANS2006	yu2017	control	0	0.31835	0	0	0	0.76774	2.65873	0.83824	0	11.1365	0	57.3356	6.89286	7.5	1.27825	89.1974	0	12.5135	90.1206	40.1629
168	S1_040	ANS2007	yu2017	control	0	1.89406	0	0.18182	0	2.10968	10.9087	1.34804	0.40046	2.92467	0	73.8275	83.9821	0.26599	0	100.192	0	0	129.368	151.609
169	S1_041	ANS2008	yu2017	control	0	10.3297	0	6.11643	0.17471	8.95592	6.28968	0.32476	1.20139	0.93409	0	53.7063	5.12798	4.55555	1.87712	82.964	0	2.59331	54.7045	12.1862
170	S1_042	ANS2009	yu2017	control	0.03445	0.30129	0	0.35407	0.17165	0.14839	12.7202	0	0	4.24953	0	42.176	7.2738	1.15488	2.7726	121.327	0	0	75.7666	44.0148
171	S1_043	ANS2011	yu2017	control	0	0.94057	0	1.41627	0	0.42151	4.39286	0.27574	0	0.06026	0	2.39977	0	0.98822	0	46.3667	0.16998	0	9.84012	7.4127

#	sequer	sample_n	study_id	group	370640	482585	1704941	2736705	3246804	1696299	2040133	2361423	3173495	181682	3531210	3976414	2211919	1804565	2206475	1559769	4256106	3611706	3319526	4171064
172	S1_045	ANS2013	yu2017	control	0	0.02067	2.1936	0	0	0.03441	4.23016	0	0	0.07251	0	18.007	0	0.17172	0.95904	39.252	0	33.0399	59.0421	43.0338
173	S1_047	ANS2016	yu2017	control	0	0.11525	0	0.18182	0	1.06129	8.85317	0.27328	0	18.5282	0	0.30536	0.53274	0	0.30932	51.776	0	0	0	0
174	S1_048	ANS2019	yu2017	control	96.9552	0.23256	0.6099	0	0	0.32258	16.2659	0.27941	0	7.83898	0	81.2517	6.1875	1.63131	0	81.0654	0	0	174.146	63.4508
175	S1_049	ANS2021	yu2017	control	0	0	0	0	0	3.02581	0.63889	1.50735	0	0.48682	0	88.2132	4.06845	4.13468	0.55791	93.2147	5.08707	1.09781	134.158	32.4582
176	S1_050	ANS2023	yu2017	control	0	0	0	0	1.01992	0.79355	0.64087	0	0.22454	1.1968	0	13.3473	7.9107	1.28956	8.82768	25.9627	0.53234	0	8.76945	1.82328
177	S1_051	ANS2028	yu2017	control	0	0	0	0	0.2046	0.05269	1.40278	0.27328	0	3.58287	0	84.8927	0	1.6128	2.05932	69.588	0	0	131.467	49.0571
178	S1_052	ANS2034	yu2017	control	0	0.07855	0	0.33014	0	1.07849	11.7976	0.35662	0.26389	9.08757	0	107.883	10.0595	2.88216	12.4788	117.811	0	178.996	155.456	33.1439
179	S1_053	ANS2058	yu2017	control	0	0.69561	0	0.18182	0.16552	1.2785	3.0496	0	0	2.61017	0	77.4184	1.1875	2.49326	4.93926	50.5	1.20149	48.6229	125.098	37.6561
180	S1_054	M2PK074	yu2017	control	0	0	0	0.51356	0.0613	2.70645	3.97222	0	0	0.21469	0	44.3706	29.2322	1.07071	0.06356	411.609	0	2.42857	65.6609	16.2138
181	S1_057	M2PK076	yu2017	control	8.86306	6.88268	0.10917	0	0	7.56989	12.8353	0	0.22917	34.6121	0	109.989	10.1488	15.4209	1.75282	246.375	2.05804	15.6486	159.041	60.1777
182	S1_058	M2PK078	yu2017	control	0	0.11783	0	0	0	2.97635	14.0615	0.61642	0.9375	7.37382	0	85.0244	8.4494	11.2946	16.4929	350.561	0	6.65637	107.184	30.1555
183	S1_060	M2PK079	yu2017	control	0	0.41344	0	0	0	3.16559	1.69841	0.74265	2.64121	0.69115	0	95.6806	12.5238	3.94781	15.5254	154.389	0	0	169.998	47.8254
184	S1_061	M2PK080	yu2017	control	0	0.09509	0	0	0	1.0957	1.7996	0.27941	0	0	0	7.87295	23.6607	35.8653	0	367.679	0	0	1.36688	1.42751
185	S1_062	M2PK082	yu2017	control	147.742	0.14625	0	0	0	1.14409	0.59722	2.41054	1.81481	0	9.65407	59.2039	4.65774	9.76262	8.51695	234.465	0.02571	0	127.735	48.9545
186	S1_064	M2PK084	yu2017	control	0	0.30853	0	0	0	6.15484	7.2619	0.55637	0.52778	1.91055	0	75.5664	25.3839	25.6549	3.26695	466.073	0	15.713	114.678	27.5831
187	S1_065	M2PK085	yu2017	control	0	3.7783	0.14265	2.98883	7.16169	1.06237	10.6389	5.32844	2.75926	0	0	18.4744	0.10417	5.29798	0.42938	420.037	0	0	18	2.88677
188	S1_066	M2PK142	yu2017	control	0	0.07494	0	0	0	9.50646	2.35119	0.27206	0	48.4369	0	164.594	7.27381	5.59259	0.97881	189.239	0	0	228.087	61.6349
189	S1_067	M2PK054	yu2017	control	0	0.78398	0	3.30622	0.059	4.2957	2	2.1348	2.97454	3.78625	0	129.564	16.4018	16.5471	0	322.945	0	0	206.667	74.5164
190	S1_068	M2PK054	yu2017	control	7.26873	0.31783	0	0.17863	0	0.62796	28.0655	0.31863	1.46991	50.3164	4.67583	240.4	23.875	151.082	0	581.64	0	0.24968	412.016	185.263
191	S1_069	M2PK055	yu2017	control	0	0.02067	0	0	0.68889	0.46774	35.5833	2.70711	2.10648	0	0	43.4557	141.518	0.38384	5.84181	510.165	0	4.62677	65.1849	32.4148
192	S1_070	M2PK055	yu2017	control	0	0.04134	0	0.07496	0.42605	1.57527	1.93056	0.38848	0	18.1582	0	148.413	11.4107	8.00336	41.5523	112.191	0	1.95882	222.775	45.6159
193	S1_071	M2PK060	yu2017	control	0	0.76589	0.10772	0.53907	0	1.13333	82.5972	2.86765	2.85649	0	0	1.74009	0	1.48822	5.4082	143.813	0	0	0.57459	0
194	S1_072	M2PK063	yu2017	control	0	1.70749	0	2.24243	0	1.32581	34.3929	0.55882	1.18287	1.29944	0	93.3799	0	0.82155	2.12288	175.104	0	0	130.172	84.6634
195	S1_073	M2PK064	yu2017	control	0.72954	0.72351	0	0	0	4.22366	4.93255	0.45833	1.50463	3.14407	0	115.734	17.2679	7.24074	1.85028	145.171	0	0.93179	201.526	77.9597
196	S1_074	M2PK065	yu2017	control	0	0.46822	0	1.48804	0	1.93656	2.18055	0.61152	0.57176	16.1591	0	171.916	25.4078	10.5572	31.3023	301.247	0	9.0785	234.647	49.9576
197	S1_075	M2PK066	yu2017	non_adva	0.72696	0.21344	0	0.36364	0	4.90215	60.748	0.69363	0.78009	1.08851	0	71.8916	5.57143	3.17003	12.3333	215.744	0	0	109.586	33.0233
198	S1_077	M2PK077	yu2017	control	0	0.10336	0	0.23923	0	2.55914	2.56151	1.55882	1.2963	0.26083	0	315.659	0	8.86363	10.9506	326.847	1.53234	1.63063	491.135	96.1862
199	S1_078	M2PK082	yu2017	control	0	0	0	0	0	4.64946	1.14881	0.27941	0	2.98117	0	83.2051	1.99107	6.03535	37.2839	185.191	0.56219	0	105.711	25.8857
200	S1_079	M2PK083	yu2017	control	0.13867	0.23359	0	0.36364	0	5.98602	348.385	0.27941	0.34259	0.19303	0	48.9184	0	14.4697	1.4548	66.3494	0	222.833	83.0464	48.473
201	S1_081	M2PK050	yu2017	control	0	0.94419	0.30277	0.17544	0.46054	1.93979	4.12302	7.34191	6.39583	0	0	11.197	0.10417	3.7761	2.93927	568.888	3.16915	0	13.7645	17.9936
202	S1_083	M2PK111	yu2017	control	0	1.25116	0	0.54545	1.0774	0.85591	2.0873	0	0	1.38041	0	36.2214	8.75596	10.0757	32.1144	190.784	0	5.47619	75.5953	25.3175
203	S1_084	M2PK141	yu2017	control	0	0	0	0	0	0.53441	4.29564	0.62623	0.97917	4.38324	0	171.615	1.53869	4.21885	6.70764	152.341	0	0.37709	228.506	40.1545
204	S1_086	M2PK148	yu2017	control	8.63135	0	0.65939	0.36364	0	7.03871	1.83135	5.68137	4.78703	0.22976	0	102.134	0	0.74916	0	137.119	0	0	214.763	197.062
205	S1_087	M2PK050	yu2017	control	0	0	0	0	0	3.3043	79.9822	0	0	2.64219	0	53.43	11.1488	8.39731	2.43644	291.355	0	0.10682	70.5303	22.4804
206	S1_088	M2PK050	yu2017	control	0	0	0	0	0	2.60753	3.59723	23.5735	20.8704	0.52354	0	68.3613	20.1994	13.6094	0.15396	417.689	0.5	5.30115	72.2263	11.7238
207	S1_089	M2PK051	yu2017	control	19.4065	0.05633	0	0	0	6.17204	13.0893	0.55637	0.18056	8.79002	0	60.6258	2.12798	13.6784	0.55367	255.469	0	3.95753	101.602	45.0476
208	S1_089-	M2PK051	yu2017	control	0	0	0	0	0.08506	0	1.63691	0	0	1.11394	0	10.5594	1.13095	3.89225	3.68644	132.575	0	0	46.7587	18.91
209	S1_091	M2PK124	yu2017	control	0	0.17623	0	0.70813	0	3.14516	35.875	1.73897	1.13889	0.60546	0	31.8508	12.1964	7.30134	7.15678	174.995	0.18906	0.24453	47.3084	25.3334
210	S1_092	M2PK138	yu2017	control	0	0.01602	0.63028	0	0	1.36452	0.84524	8.84313	9.03935	0.74859	0	160.74	12.4613	2.22559	0.15678	323.58	0	0	277.096	214.952
211	S1_093	M2PK156	yu2017	control	0	1.64496	0.70015	0.52951	1.58391	3.62473	11.8631	1.62132	1.16667	0.2759	0	100.108	41.3423	5.14815	16.7203	291.785	0	0	169.374	62.7185
212	S1_094	M2PK156	yu2017	control	0	0	0	0	0	9.89462	26.5933	0.55025	0.76389	2.29096	0	47.4335	21.9405	8.09427	0.92797	504.928	0	2.75804	58.666	9.52592
213	S1_095	A0047	yu2017	control	0	0.97416	0.85881	0	0	1.20968	121.274	0.83824	1.05093	3.39172	0	1.67716	8.72025	7.08754	0.5678	200.659	0	0	0.42184	0
214	S1_097	A0117	yu2017	non_adva	0.19638	0.13178	0	0	0	7.15485	5.66865	0	0	27.5895	0	70.6049	48.6578	24.4545	23.1342	504.824	0	0	111.425	73
215	S1_098	A0121	yu2017	non_adva	0.19638	0.02119	0	0	0.29885	5.92366	1.73214	1.58456	2.06944	0.22411	0	169.049	22.6488	6.41919	23.3249	193.984	0	0.18018	261.808	94.91
216	S1_100	A0137	yu2017	control	0	0.80724	0	0	0	1.43226	3.49603	4.11642	2.12963	0.41337	0	1.44522	0	0.32492	0	381.493	0	0	0	0.04233
217	S1_102	A0140	yu2017	control	0	5.72507	0	5.85486	0	1.75591	6.77579	0	0.90278	2.46234	0	53.9708	8.77082	17.6751	0.81638	323.761	0	5.08365	71.0393	14.8783
218	S1_105	A0204	yu2017	control	0.03445	0.27028	0.09898	0	2.07816	1.59677	23.3651	2.82966	1.14815	10.0414	0	98.7039	22.5536	1.69024	10.9463	460.26	0	0	200.305	178.186
219	S1_106	A0254	yu2017	control	0	0.01602	0	0	0	1.85161	2.34921	0.13971	0.26389	3.66573	0	61.4137	36.8125	20.0926	25.3616	371.893	0.56385	1.37838	106.98	24.6857
220	S1_107	A0284	yu2017	control	0	0	0.88938	0	0	2.04516	1.61111	0	0.11343	17.1525	0	35.8286	16.622	9.7542	3.07063	167.985	0	6.56757	76.0314	22.7016
221	S1_108	A0286	yu2017	control	0	0	0	0	0	2.57097	1.85516	1.94975	2.07407	12.0847	0	54.1538	2.1875	4.99326	5.91384	180.861	3.79602	0	105.526	27.9905
222	S1_109	A0302	yu2017	control	0.09819	0	0	0	0	1.05699	4.48611	0.13971	0	89.9718	0	113.966	22.4375	8.18686	2.37429	194.648	0	0	173.19	48.928
223	S1_110	A0311	yu2017	control	0	0.86253	0	0	0.17471	5.29785	10.496	0	0.49074	2.85499	0	24.2517	21.7768	1.6936	3.13983	256.941	0	7.83526	30.8059	23.4074
224	S1_111	A0329	yu2017	control	0	0.98553	0	0	0.26207	5.78495	7.21825	0.52819	0	1.27589	0	44.5792	15.9226	32.7475	2.68644	295.813	0	2.78379	80.1841	28.2011
225	S1_112	A0331	yu2017	control	0	0.74935	0	0	0.14406	0.87527	44.7461	1.57598	2.87037	3.30226	0	91.9289	0	5.16835	11.0212	548.457	0	0	149.471	35.8815
226	S1_113	A0335	yu2017	control	0	1.68476	4.94614	3.30144	0.43142	0.17204	2.23214	0.41912	0.78704	1.91149	0	0.63403	2.72024	4.01683	0	203.971	0	0	0.19415	0.05503
227	S1_114	A0344	yu2017	control	0	0.40258	3.28675	0	0	0.45054	52.4822	0.41667	0	187.312	0	0.19114	0.10417	0.22222	1.78814	143.436	0	0	0	0
228	S1_115	A0379	yu2017	control	0	0.13075	0	0	0	2.17312	6.40475	0.32476	0.52778	1.0904	0	119.716	43.8631	12.6953	23.1328	526.557	0	3.93179	254.826	121.584

#	sequer	sample_n	study_id	group	370640	482585	1704941	2736705	3246804	1696299	2040133	2361423	3173495	181682	3531210	3976414	2211919	1804565	2206475	1559769	4256106	3611706	3319526	4171064
229	S1_116	A0401	yu2017	control	0	0.50439	0.33188	0.17703	0	1.14086	34.8829	0	0	16.0443	0	29.3147	53.6935	0.91751	0	269.775	0	0	65.8837	37.6465
230	S1_118	A0407	yu2017	control	0	1.23204	1.27365	0.1579	0	0.65699	6.96429	0.98407	0.62963	32.4265	0	95.2564	15.1934	15.4327	11.1384	254.787	0	1.16731	175.31	64.236
231	S1_120	A0443	yu2017	control	0	1.4186	0	0	0	1.83226	46.25	0.61397	0.25694	1.08663	0	220.929	77.0625	2.633	35.9929	523.259	0	0	302.807	105.77
232	S1_121	M2PK050	yu2017	control	0	0.21705	0	0	0.26054	2.81721	14.6528	0.31863	0.10648	2.1855	0	62.9149	126.818	24.0909	0.62994	529.902	0	0	89.0421	19.6465
233	S1_122	M2PK050	yu2017	control	0	0	0	0	0	0.54301	0.42262	0.47427	1.22454	0.68738	0	109.219	9.18452	4.08754	1.89972	281.343	0	0	173.04	40.8741
234	S1_123	M2PK050	yu2017	control	0	0	0	0	0	0.48925	3.05357	1.37377	0.50463	0	0	76.0594	29.6012	13.6498	13.4011	398.879	0	3.57915	136.388	67.436
235	S1_124	M2PK051	yu2017	control	0	0.04651	0	0.36364	0	1.31613	13.6091	1.98162	0.99537	0	0	39.8741	0.5	30.7508	3.62853	437.94	0	0	72.1221	67.1089
236	S1_125	M2PK052	yu2017	control	1.03445	0	0	0	0	10.1129	5.78571	0	0.1875	17.37	0	84.8496	42.7619	6.03704	19.0621	324.028	0	72.9806	105.527	36.3502
237	S1_126	M2PK052	yu2017	control	0	0	0	0	0	6.86559	5.47818	0.63358	0.9375	9.95669	0	170.686	37.7381	16.4007	13.7246	330.528	0	67.2265	265.877	68.4603
238	S1_127	M2PK052	yu2017	control	0.29199	8.59276	0	4.14354	0	5.66452	27.0913	0.41054	0	0.59793	0	9.91841	52.3006	3.21212	0	54.4187	0	5.58559	9.9015	5.3492
239	S1_128	M2PK053	yu2017	control	0	0	0	0	0	12.4602	10.2123	0.27941	0.78472	3.14219	0	109.634	12.5714	23.4444	15.2839	371.584	0	19.6448	155.258	31.5862
240	S1_130	M2PK057	yu2017	control	0	0.13592	0	0.17065	0	0.32473	16.5893	0.13971	0.26157	42.2034	0	94.7552	15.6667	6.87879	15.2076	232.505	0	3.56628	114.684	47.7577
241	S1_132	M2PK062	yu2017	control	0	0	0	0.54226	0	10.0785	11.7202	1.34804	0	12.0584	0	2.12471	0.25	2.39226	13.3305	79.052	0	0	0.15846	0
242	S2_003	M2PK094	yu2017	non_adva	0	2.30129	0	1.94418	0	2.02473	1.37698	1.56005	1.52546	31.3013	0	42.0256	4.66071	1.67845	0.69633	74.1907	0	0	65.2648	33.0116
243	S2_004	M2PK081	yu2017	non_adva	0.03273	0	0	0	0	4.35054	2.12302	0	0	19.5951	0	68.5116	15.4316	19.1195	1.0226	113.893	1.76285	19.4839	62.3655	24.1047
244	S2_005	M2PK072	yu2017	control	0	0.6124	0.26929	0	0	6.03119	1.60913	0.27696	0	0.77495	0	224.374	9.06548	7.51515	2.27401	232.967	3.30017	5.29601	385.623	105.365
245	S2_006	M2PK082	yu2017	non_adva	3.09216	0.09302	0	0	0.06897	1.25591	1.86905	0	0	2.72693	0	133.438	15.3601	8.14815	8.44633	222.497	0	26.6512	207.639	57.327
246	S2_007	M2PK087	yu2017	control	1.69595	0	0	0	0	1.33979	4.39286	0	0	24.1017	0	105.654	3.28274	6.56566	30.8757	97.0307	0.06385	1.88417	131.415	36.1069
247	S2_009	M2PK082	yu2017	non_adva	0.06546	0.50853	2.32169	0	0	0.04194	8.15277	0	0	0.46045	0	69.7377	7.13691	5.09764	5.12006	207.956	0	0.6538	84.2634	11.6751
248	S2_010	M2PK093	yu2017	non_adva	0	0.35246	0.48035	0.51834	0.06897	0.38495	61.0357	0	0	0	0	0.43124	0	0.09428	0	63.1987	0	0	0.04568	0
249	S2_011	M2PK086	yu2017	non_adva	0	0.04806	0	3.75758	0	0.18817	2.79365	0	0	5.46516	0	62.2785	8.91666	8.83838	5.37288	88.0187	0	16.1287	118.087	42.3873
250	S2_012	M2PK073	yu2017	non_adva	0	4.48734	0	0.36204	0	0.13763	0	0	0	18.7495	0	91.7109	6.5	14.7138	0.91667	147.943	0	2.63578	112.485	31.5661
251	S2_013	M2PK081	yu2017	non_adva	0	0.67959	0	0	0	5.44301	2.96627	0	0	4.36723	0	40.0571	3.77084	2.52862	2.99294	142.347	0.02571	11.5251	52.3583	13.7746
252	S2_014	M2PK096	yu2017	non_adva	0	0.11783	0.08443	0.18182	0.08736	1.0129	2.16865	0.04289	0.37731	7.18927	0	122.961	6.55655	2.60269	24.6455	135.772	10.9602	285.378	210.769	90.6581
253	S2_015	M2PK070	yu2017	non_adva	0	0	0	0	0.47893	0.36344	11.6488	0.41789	0.26157	0.56026	0	14.6585	2.87202	1.77273	4.36865	76.816	0	7.19305	29.8472	34.7905
254	S2_016	M2PK080	yu2017	non_adva	0	0.40724	6.03492	0.72568	0	0.76452	21.7163	0	0	0.67891	0	27.9021	0	0.06902	1.69209	92.02	0	0	58.1899	61.1354
255	S2_017	M2PK085	yu2017	non_adva	0	1.48682	0.74963	0	0	4.0043	9.94643	0.27819	0	10.7194	0	73.3146	28.1816	13.2239	1.09322	325.384	1.73881	0.14672	121.16	46.3788
256	S2_018	M2PK090	yu2017	control	0	0	3.54876	0	0	2.66882	0.45238	0.22427	0	1.69774	0	45.6247	2.25298	2.03367	13.1893	78.916	0	0.34878	68.6488	13.1757
257	S2_019	M2PK096	yu2017	non_adva	0	0.94574	1.4032	1.59011	0	0.71075	11.9306	0.97794	1.71991	0.64313	0	9.78904	0	0.88384	0	86.8373	0	0	13.3412	7.17883
258	S2_020	M2PK095	yu2017	non_adva	0.27476	0.01602	0	0	0	12.5419	7.71825	0.83824	0	4.34557	0	286.369	7.63989	10.67	10.202	134.42	2.77198	30.1621	364.11	84.656
259	S2_021	M2PK086	yu2017	non_adva	0	0.22791	0	0.43222	0	1.10538	1.54961	0.27819	0	8.05744	0	54.5629	6.65476	4.65825	1.39124	147.811	0	0.14672	111.984	14.0899
260	S2_022	M2PK083	yu2017	non_adva	0	0	0	0	0	0.61398	0.35714	0.27941	0	3.53955	0	96.7027	6.21726	23.2997	2.61441	159.2	2.85655	8.98069	138.32	42.0603
261	S2_024	M2PK089	yu2017	non_adva	0	3.59638	0	2.47687	0	3.33226	8.35516	1.50613	1.69213	8.2533	0	96.3729	0	4.33838	7.72458	222.593	0	326.195	156.376	35.292
262	S2_025	M2PK091	yu2017	non_adva	0	16.6398	0	4.63796	0	0	6.36111	0	0	0	0	0.7634	0	1.60269	3.62006	1.25733	0	0	0.04568	0
263	S2_026	M2PK097	yu2017	control	0	0	0.13537	0	0	3.85699	22.756	0	0.52778	1.30697	0	52.014	5.35417	7.54545	1.91384	138.155	0.46932	2.03732	71.5353	20.9481
264	S2_027	M2PK098	yu2017	non_adva	0	25.8336	0.52693	11.5582	0.34789	0.68495	7.12897	0	0	0.73635	0	11.0746	0	3.60437	5.06356	11.2733	0	0	21.6916	5.11428
265	S2_027-	M2PK098	yu2017	non_adva	0.69595	0.58812	0	0	0	0.88495	38.7381	0	0	31.9501	0	62.4394	10.0565	6.76767	35.9195	150.983	0	1.15701	99.9143	33.2423
266	S2_028	M2PK099	yu2017	control	0	0.81499	0	0.36364	0	1.55699	4.36707	0	0	10.838	0	65.8601	7.73809	8.46296	6.72881	102.236	1.44361	0	127.24	48.8571
267	S2_030	M2PK100	yu2017	non_adva	0	0.46357	0	0	0	0.71183	1.91071	0	0	0.08004	0	19.4394	0	4.3771	0	63.5587	0	17.121	24.586	7.5873
268	S2_031	M2PK100	yu2017	non_adva	0	0.65581	0.28239	1.15311	0	0.14301	7.30357	0	0.09491	0.4548	0	7.39627	0	2.10606	0.57486	13.3613	0	21.1158	13.8872	7.74391
269	S2_032	M2PK100	yu2017	non_adva	0	0.60414	0	0.70813	0.52184	0.2785	6.35515	0	0.52083	4.47551	0	53.937	0.32738	4.10943	0	159.021	0	0	96.7302	23.2529
270	S2_033	M2PK101	yu2017	non_adva	0	0.1385	0	0	0	1.43011	0.76191	0.41667	0	66.2043	0	49.1189	3.87797	2.1431	0.08192	84.1854	0	19.1197	72.8765	12.7778
271	S2_035	M2PK102	yu2017	control	0	0.87132	0	0.60287	0.34943	2.14194	3.53968	0.11765	0	0.31827	0	13.1725	2.01488	5.55219	0.46328	26.8533	0	77.4182	12.4183	5.01799
272	S2_036	M2PK102	yu2017	control	0	1	0.88646	1.77512	0	1.31936	25.8591	0.25613	0	8.26648	0	158.15	16.0179	3.133	2.71751	249.981	0	0	229.763	42.9672
273	S2_037	M2PK103	yu2017	control	0	6.78243	0.22999	1.72727	0.17471	1.37742	29.0337	0	0	0.09605	0	11.7075	0	6.42593	0	58.64	0	0	0.31692	0
274	S2_038	M2PK105	yu2017	non_adva	0.39276	0	0	0	0	2.25376	3.48016	1.9473	0.32176	16.7731	0	188.953	19.8184	7.06903	12.815	181.08	0	8.54183	239.234	54.0137
275	S2_039	M2PK105	yu2017	non_adva	0	0.15246	0	0	0	1.14946	0	0	0	3.4548	0	71.2109	7.24108	5.45454	5.2048	108.887	0	19.4247	94.2191	12.054
276	S2_040	M2PK105	yu2017	control	7.79156	0.4124	0	0.53748	0	0.64516	3.30952	0	0	0.57062	0	23.9277	7.74107	2.26094	0.77542	76.7507	0	0	43.409	8.97248
277	S2_043	M2PK107	yu2017	non_adva	0	1.72868	0	0.54545	0	5.37204	50.4722	0.23652	0	0.09416	0	1.98951	0	1.02862	27.2203	140.715	54.6915	0	0.14918	0
278	S2_044	M2PK107	yu2017	non_adva	17.9716	1.00879	0.33188	0.36045	0.11724	2.06021	4.80952	0	0	1.18173	0	74.6293	15.1816	16.6751	3.37147	139.621	0	5.24067	110.46	24.3365
279	S2_045	M2PK108	yu2017	non_adva	2.65892	0.18656	0	0	0	2.15699	5.57143	0.27941	0.25	4.49529	0	81.1829	4.96726	5.63468	22.0565	100.979	0.74461	14.0244	139.53	32.7672
280	S2_046	M2PK108	yu2017	non_adva	0.98019	0.277	0	0	0	1.68065	45.6687	0	0.25	1.76836	0	26.6678	0	2.22222	4.3743	38.116	0	2.06049	49.0178	11.6201
281	S2_047	M2PK109	yu2017	control	0	0.04134	3.62591	0	0	6.19247	1.72619	0	0	5.6968	0	32.3962	8.86013	2.86869	0.17797	109.831	0	1.49163	79.7659	21.7429
282	S2_048	M2PK109	yu2017	control	0	0.54625	0	0.53589	0	0	0.67262	0	0	0	0	44.5058	0	0.28788	0	6.584	0	0.9704	61.9779	12.9069
283	S2_050	M2PK110	yu2017	non_adva	12.0758	0	0	0	0	1.33441	0.44643	0	0	17.984	0	93.8216	6.7619	5.74916	2.27966	107.969	10.7421	2.84556	120.547	64.0434
284	S2_051	M2PK111	yu2017	non_adva	0	2.10646	0	0	0	0.19032	2.65278	0	0	7.67232	0	107.939	1.50595	2.9697	5.55509	80.0213	0	22.7735	135.64	30.0667
285	S2_052	M2PK111	yu2017	non_adva	0.58915	0	0	0	0	0.83226	0.86508	0	0	0	0	20.6422	0	0.37374	1.7952	18.128	0	0.14672	40.6674	7.0455

#	sequer	sample_n	study_id	group	370640	482585	1704941	2736705	3246804	1696299	2040133	2361423	3173495	181682	3531210	3976414	2211919	1804565	2206475	1559769	4256106	3611706	3319526	4171064
286	S2_053	M2PK113	yu2017	control	0	1.37261	0	0.53589	1.12107	3.12043	1.53373	0	0	0.44068	0	45.1317	8.99702	1.93434	5.25283	117.505	0	8.93436	87.3198	52.7502
287	S2_054	M2PK114	yu2017	non_adva	0	1.1571	0	0	0	2.00753	11.383	0	0	4.94068	0	64.3076	11.6339	2.50168	0.75	91.8787	0	127.14	73.0635	12.4762
288	S2_055	M2PK115	yu2017	non_adva	0	0	0	0.90909	0	0.63656	34.1349	0	0	5.04332	0	0.38811	0	4.99832	0.88701	20.264	0	0	0.10493	0
289	S2_057	M2PK117	yu2017	non_adva	0	0.11731	2.03202	0	0	0.98817	0.33532	0	0	0.57815	0	0.09324	0	0.23232	0	23.7547	0	0	0.02356	0
290	S2_058	M2PK117	yu2017	non_adva	0.18346	0	0	0	0	4.87527	20.2202	0	0	1.48399	0	31.014	14.6607	18.096	12.4223	238.908	0	4.3758	48.9315	14.8
291	S2_059	M2PK117	yu2017	non_adva	0	0.02067	0	0	0	1.07527	8.14683	0.4473	0.20602	14.6949	0	105.354	5.46726	4.67846	4.15395	84.9	0	133.938	152.495	56.4931
292	S2_060	M2PK117	yu2017	non_adva	0	0.24755	0.09898	0	0	0.29032	3.95635	0	0	12.2269	0	53.4802	2.02976	2.09933	12.7698	103.273	0	0	128.225	65.8529
293	S2_061	M2PK117	yu2017	non_adva	5.39621	0	0.38282	0	0	4.0785	2.73016	0	0.5162	5.28625	3.10653	98.7004	17.4792	11.1768	4.74859	114.389	10.4428	0.06435	176.176	41.9174
294	S2_062	M2PK119	yu2017	advanced	0	0	0.2722	0	0	0.04946	0.07738	0.13971	0.26389	1.21563	0	46.2098	3.76786	1.66835	23.9802	131.403	0	0	69.5653	18.3153
295	S2_063	M2PK123	yu2017	advanced	0	0	0.11499	0	0	0.06237	1.48214	0	0	0.49153	0	48.4394	0	2.5	0	74.588	3.02819	0	82.0728	33.8169
296	S2_064	M2PK128	yu2017	advanced	0	0	0.69869	0	0	1.09032	4.9742	0	0	2.53201	0	73.275	1.32143	6.80135	0.88418	77.5173	0.77861	2.63449	114.453	24.5439
297	S3_002	ANS0058	yu2017	advanced	0	0.06202	0	0	0	1.59247	1.88492	0	0	0.22411	0	27.9242	0.24405	0.53704	0.38842	8.43467	0	6.67181	32.6303	5.69947
298	S3_005	ANS1742	yu2017	advanced	240.359	0.81705	0	0.78469	2.01303	0.58172	47.256	2.0625	1.3912	0.4774	16.4444	99.0885	176.622	21.0151	59.928	724.086	0	149.707	105.477	34.6561
299	S3_007	ANS1779	yu2017	non_adva	0	2.41654	0.43377	0.54546	0	0.56774	3.125	1.11765	1.75694	28.2712	0	211.514	5.8125	13.8384	2.83757	113.471	0	13.39	381.219	292.293
300	S3_008	ANS1780	yu2017	non_adva	0	0.23204	0.16448	0	0	0.62903	2.88889	0.27941	0	3.87571	0	57.1725	6.41667	7.96801	2.51695	82.5613	0	2.9009	95.748	24.6339
301	S3_009	ANS1781	yu2017	advanced	0	3.21499	0	0.18182	0	0	13.5496	0	0	1.08569	0	38.2133	0.31548	0.6734	0	21.9147	0	0	46.01	12.237
302	S3_010	ANS1787	yu2017	advanced	0	0	1.18486	0	0	0.67204	2.97421	0	0	0.66102	0	57.8135	2.65774	2.71044	0.71469	46.5826	0	0.07722	95.5439	22.6476
303	S3_011	ANS1872	yu2017	advanced	0	0.82532	0.39592	0.34769	0.16858	0.67527	14.1766	0.55882	0.80787	7.32956	0	115.297	7.56845	16.9613	1.36723	187.416	4.30017	16.8108	160.689	41.2275
304	S3_013	ANS2111	yu2017	advanced	0	1.80672	0	0.18182	0	3.96989	16.2897	0	0	7.06403	0	35.3193	2.16964	5.23905	0.65819	35.8573	0	0	69.2377	24.4571
305	S3_014	ANS2134	yu2017	advanced	0	0.02067	0	0	0	1.13118	2.35913	0.83701	0.37732	0.29944	0	49.4837	3.48512	4.08586	0.20763	45.5693	0	29	70.8579	42.2085
306	S3_016	ANS2491	yu2017	non_adva	0	0.06202	0	0	0	0.62903	0	0	0	0.61959	0	50.5501	4.25893	2.22727	25.2401	18.48	0	0.13514	54.8822	14.0243
307	S3_021	ANS0017	yu2017	advanced	0	0.02067	0.65502	0	0	4.30861	2.86707	0.59436	0.25694	0	0	0.12121	28.0566	0.07239	0	209.293	0	0	0.41685	0
308	S3_022	ANS0036	yu2017	advanced	0	0.0615	10.8224	0	0	3.1699	0.47619	0.93383	2.90509	3.13842	0	187.815	9.9643	8.15993	0.8178	180.071	0	0	270.235	74.3058
309	S3_023	ANS0064	yu2017	advanced	0.63308	12.5654	0.91121	7.6874	0.14713	4.27742	91.877	3.64216	5.46528	0.09887	0	26.3951	0.54464	2.54714	60.8362	158.865	0	0	40.733	24.5534
310	S3_024	ANS0070	yu2017	non_adva	0	0	0	0	0	2.40108	2.37698	0	0	35.1799	0	37.7809	13.5089	3.26599	13.7217	179.816	0	1.61905	65.4061	19.3831
311	S3_026	ANS1116	yu2017	advanced	1.27907	2.19638	3.42067	0.29187	0	0.31183	40.7897	0.32598	0	0.33333	0	39.5198	11.0119	1.1229	1.00848	139.929	0	0	72.055	82.4391
312	S3_027	ANS1122	yu2017	advanced	0	1.40569	0	0.70654	0	4.45807	7	0.13235	0.46759	0.21469	0	141.056	9.72619	6.85017	0.93079	209.833	6.71393	2.59073	331.779	79.0708
313	S3_028	ANS1131	yu2017	non_adva	0	0.76176	0	0.33333	0.02912	3.95269	16.1587	1.57598	1.66667	0.5226	0	163.535	48.0179	24.101	3.49436	537.363	0	8.91892	249.421	58.2465
314	S3_029	ANS1199	yu2017	advanced	0	0.6124	0	0	0	2.38925	1.58333	0	0	1.01789	0	145.422	6.91964	6.95623	3.74859	140.528	0	56.9768	301.12	150.654
315	S3_030	ANS1224	yu2017	advanced	0.03273	0.12403	0.29403	0	0.60613	0.09247	15.2937	2.10172	2.64583	32.5847	0	38.2832	0.89286	5.85185	0	172.536	0	0	55.025	11.6963
316	S3_031	ANS1461	yu2017	non_adva	0	40.8434	3.14556	13.0845	1.40307	3.09462	83.1925	8.03554	9.80324	4.16479	0	92.754	7.6012	1.8266	0.79943	234.407	0	5.55727	160.867	122.009
317	S3_033	ANS1668	yu2017	advanced	0	0	0	0	0	10.8237	3.2877	2.7451	4.19213	0.21469	0	5.24126	0	0.71044	12.9859	504.119	0	0	3.76089	0.49101
318	S3_034	ANS1712	yu2017	advanced	0	0.01964	0	0	0	9.0043	1.65476	4.66666	5.54861	68.1751	0	98.2051	3.86905	3.80808	4.13842	221.745	0	13.7117	111.745	28.1873
319	S3_035	ANS1714	yu2017	advanced	0	2.91731	0.81223	3.35726	2.60076	0.84516	7.03571	1.34191	1.30787	0.0452	0	0.52448	0	0.6229	0.12147	36.5427	0	0.49678	0.404	0
320	S3_036	ANS1743	yu2017	advanced	0	1.25168	7.73071	1.2488	0	0.44516	27.2798	6.9326	3.21065	0.71375	0	0.58159	0.10417	12.064	16.952	249.581	0	0	0.30978	0
321	S3_037	ANS1754	yu2017	advanced	0.98708	1.04134	5.12809	0.35247	0	1.37742	1.18849	5.50858	3.99074	0.61676	0	0.97902	7.11012	1.05724	1.76271	178.893	0	0	0	0
322	S3_038	ANS1758	yu2017	non_adva	0	0.11783	0	0	0.08736	4.31076	6.07739	2.86152	2.84722	29.8154	4.45934	107.81	56.122	17.5673	14.8192	691.806	0	36.6551	167.096	32.1545
323	S3_039	ANS1760	yu2017	non_adva	0	0.87649	0	0	0	14.1194	2.83928	13.9743	11.8194	32.9473	0	45.5279	12.0714	8.53535	5.60734	206.24	1.72637	0	60.4061	22.2243
324	S3_040	ANS1766	yu2017	advanced	0.07407	0.0584	0	0	0	6.15161	5.65476	0.26103	0.08796	6.12335	0	97.7587	19.8155	9.49495	16.5989	247.875	0.6534	27.8262	197.807	124.869
325	S3_041	ANS1813	yu2017	advanced	0	0.87855	1.54003	2.04306	0	1.71183	213.486	13.848	13.2894	116.673	0	145.824	0.17262	0.46128	12.3009	188.68	0	0	290.896	273.388
326	S3_043	ANS1823	yu2017	CRC	0	0.17519	0	0	0	5.42151	2.96231	0.09559	0	42.3437	0	313.239	2.84821	10.1953	21.863	408.628	0	0	423.962	148.799
327	S3_044	ANS1832	yu2017	advanced	0	0.32713	2.52111	0	0.17471	6.78817	22.9107	2.20466	2.50232	58.6911	0.63688	93.0058	20.7649	4.66161	2.88983	223.636	0	3.74517	133.547	28.0222
328	S3_045	ANS1974	yu2017	advanced	0	0.01964	5.2358	0	0	3.20215	1.52778	1.01226	0.52546	0.55085	0.04467	39.8088	28.4792	0.33333	1.36582	212.081	0	0.27027	74.0314	72.1227
329	S3_046	ANS1975	yu2017	advanced	0	0	0.16012	0.4689	0.56015	4.62473	1.66072	1.83946	0.26157	1.89077	0	119.672	0	4.87205	61.5099	323.604	27.8789	0.139	158.628	43.201
330	S3_047	ANS2046	yu2017	non_adva	0	0.08165	0	0	0	6.32366	2.84127	0	0.125	0.30132	0	74.8123	1.09226	4.96802	0.78955	59.816	0	49.9356	115.3	63.4296
331	S3_048	ANS2078	yu2017	non_adva	4.34539	0	9.27074	0	0	5.26344	2.44047	0.54044	0.23611	0.81073	0	21.7797	28.0327	4.38552	7.05931	176.097	12.4113	0	35.9472	8.72487
332	S3_049	ANS2136	yu2017	advanced	0	1.32455	0	0	0.35939	2.5957	18.2619	0	0	24.177	0	179.304	25.9702	9.63804	1.68785	353.688	0.06468	1.17375	288.946	84.0804
333	S3_050	ANS2358	yu2017	advanced	0	3.7137	0.67103	0.90909	0	0.24086	10.7004	12.0637	12.6296	25.8446	0	93.6351	2.37203	1.97475	40.5141	277.819	0	0.0888	124.633	11.7619
334	S3_051	ANS2363	yu2017	advanced	0	0	0	0	0.16782	4.3742	1.51587	0	0	1.21657	0	39.9848	1.59524	5.13468	0.93503	97.704	0	0	79.9022	47.9132
335	S3_055	ANS2454	yu2017	advanced	0	0.01602	0.27365	0	0	1.49032	29.2024	0.96936	0.26389	17.3936	0	131.751	0	9.87037	1.4435	289.505	0	21.0824	222.411	57.1153
336	S3_057	ANS2508	yu2017	advanced	0	0.68217	0	0	0.15632	0.36559	43.2758	0.25123	0.59491	25.371	0	72.0664	2.82143	4.4293	0.99718	153.513	3.66418	0	123.489	78.4581
337	S3_058	M2PK076	yu2017	advanced	0.03359	0.59225	0	0	0.05824	1.88387	0.89881	0.55882	0.47454	0.16761	0	148.846	5.26488	3.52189	3.42091	122.585	0	11.157	149.639	51.7703
338	S3_059	M2PK081	yu2017	advanced	0	0.02067	0	0	0.0705	11.3011	8.59524	1.21691	2.21528	0.81638	0	149.075	24.4524	6.95791	10.3362	284.929	0	11.7426	229.275	80.8486
339	S3_061	M2PK092	yu2017	non_adva	0	0.05426	0	0	0.341	2.49893	2.32143	1.9424	0.71991	8.43032	3.4433	55.5955	30.4881	11.372	6.64831	358.049	0	13.7773	101.293	18.3196
340	S3_062	M2PK101	yu2017	non_adva	0	1.80827	0	0.18182	0	0.33226	14.5754	0.40564	0.93287	24.322	0	175.486	6.9881	9.18518	5.91102	230.003	0	19.2908	305.824	275.45
341	S3_063	M2PK133	yu2017	advanced	0	0.01912	0	0	0	2.54624	1.08532	0	0	15.6441	0	105.537	5.40179	6.10606	5.14266	131.237	0.49254	0	158.969	35.2084
342	S3_064	M2PK146	yu2017	advanced	0	0.23411	0	0.18182	0.34023	6.88495	2.22222	0	0	0.52825	0	67.7634	27.2411	6.35185	20.7528	338.893	0	33.0759	106.966	23.3926

#	sequer	sample_n	study_id	group	370640	482585	1704941	2736705	3246804	1696299	2040133	2361423	3173495	181682	3531210	3976414	2211919	1804565	2206475	1559769	4256106	3611706	3319526	4171064
343	S3_065	M2PK149	yu2017	advanced	0	0.32817	0	0	0	8.63333	4.49206	0	0	10.6177	0	72.409	2.25893	5.25084	20.2684	134.989	0.16086	25.1248	128.314	43.7756
344	S3_066	M2PK151	yu2017	advanced	0	0.36899	0.14993	0.36364	0.13257	0.06129	0.83135	0.27451	0	61.4492	0	48.9347	40.0863	14.9562	0	292.967	0	0.60746	79.0279	39.1524
345	S3_067	A0279	yu2017	non_adva	0	0.02067	0	0.36364	0	5.51505	4.30953	0.27941	0.26389	80.4784	0	216.592	9.50596	10.0455	35.6186	314.367	0	71.3526	335.182	85.7079
346	S3_068	A0290	yu2017	advanced	0	0.63153	0.10044	0.7177	0.32184	6.46989	0.84722	0.83333	0	0	0	20.2191	73.4583	5.31313	0	470.217	0	0.67568	27.3333	0.63386
347	S3_069	A0305	yu2017	advanced	0	0.35039	0	0.66348	0.05824	4.47419	14.2401	0	0.08796	5.62053	0	100.555	3.65774	1.95623	5.70057	187.139	2.49337	18.6293	135.209	35.3619
348	S3_070	A0307	yu2017	advanced	0	0.11783	0	0	0	11.7215	10.5298	1.11397	1.39352	35.322	0	155.775	13.1042	5.85017	10.7232	203.12	0	102.004	196.537	45.8444
349	S3_071	A0334	yu2017	advanced	0	1.64703	0	0.17384	0	6.78709	3.0258	1.17402	0.50463	2.55273	1.29553	131.054	16.4315	10.7458	14.2698	224.757	0	27.9588	212.545	60.1904
350	S3_072	A0360	yu2017	advanced	0	1.00569	0	0.63796	0.56322	0.67419	5.4623	0	0	21.532	0	79.1981	0	0.8771	6.68503	97.0147	0	23.5058	124.532	42.2656
351	S3_073	A0363	yu2017	advanced	0	0.19948	0	0	0.39847	2.21398	3.60714	0.27941	0	17.5753	0	91.5337	5.32143	1.10438	12.7599	89.1747	0	115.96	127.352	32.3153
352	S3_075	A0382	yu2017	advanced	0	0.11576	0.30131	0.54227	0	3.27097	0	0	0	0.15443	0	23.1492	36.0982	3.54545	11.3376	63.1533	1.63184	0	33.3762	15.582
353	S3_076	A0385	yu2017	advanced	0	0.17158	0	0	0	9.11076	0.22619	0	0	3.79567	0	102.927	0.10417	13.1431	5.22741	166.507	0	2.0991	170.512	46.2211
354	S3_077	A0387	yu2017	advanced	0	0.20414	0	0	0	2.36559	12.5694	0	0	86.5782	0	77.8461	5.85119	4.80134	14.9732	76.4387	0.40216	11.713	146.798	36.7788
355	S3_078	A0390	yu2017	advanced	1.56245	1.30336	0	0.69219	0	0.18065	27.377	0	0	4.14501	0	16.9289	5.81845	2.99158	0	104.52	4.42206	0	20.3155	2.79471
356	S3_080	A0045	yu2017	non_adva	0	2.50129	0.3508	0.25199	0	4.04731	16.4286	2.61152	4.13889	1.25612	0	105.437	6.46429	14.096	4.31214	236.761	0.42537	26.5084	136.069	27.5016
357	S3_081	A0043	yu2017	non_adva	0.06546	3.44393	2.66085	0	0	2.3172	0.90476	0	0.40046	18.4416	0	26.0093	0.22619	7.78788	16.8884	202.876	0.05141	21.4942	25.5653	4.80846
358	S3_082	A0085	yu2017	advanced	0.61671	0.12662	0	0	0	6.8914	2.45834	0	1.57639	1.40207	0	21.3147	25.9554	11.3266	6.14548	165.112	0	9.35907	37.6403	19.2561
359	S3_083	A0088	yu2017	non_adva	0	1.45736	0	0.54546	0	4.23549	2.70436	1.52206	0.4213	4.98305	0	130.788	0.94345	4.75926	3.44351	80.4227	0	0.14672	157.679	35.5122
360	S3_085	A0133	yu2017	control	0	0.14987	0	0	0	3.85377	68.3413	0.27696	0	7.97175	0	29.0886	59.9614	4.0606	9.92937	549.289	0	0.17503	46.9101	5.69947
361	S3_086	A0134	yu2017	advanced	0	0.27494	3.18631	0.96651	0.69502	0.7172	65.6151	0.53554	0	2.91055	0	57.9405	0.20833	13.7323	13.8687	428.485	0	0	69.5896	36.2487
362	S3_087	A0136	yu2017	advanced	0	1.00775	0	0.18182	0	4.25484	2.59722	0	0	7.22599	0	127.454	5.12798	24.197	2.2839	216.271	0	10.7773	156.91	45.9037
363	S3_088	A0138	yu2017	non_adva	7.66667	0.01964	0	0	0	6.70968	1.63294	0.41912	0	53.2919	0	126.781	18.997	19.3064	14.7161	291.025	0	61.0257	193.656	50.5672
364	S3_089	A0163	yu2017	non_adva	0	0.02067	0	0	0	3.71075	0.66667	0.13971	0.83102	68.9416	0	25.5163	3.84524	6.09764	6.63135	172.683	0	35.7542	49.1556	13.8762
365	S3_090	A0181	yu2017	non_adva	0	5.38553	0	6.88198	0	1.36559	16.6984	1.11765	1.22917	7.42373	0	40.8939	8.72321	11.7525	5.47175	244.787	1.85655	2.54183	47.3505	8.55661
366	S3_091	A0184	yu2017	non_adva	0.03273	1.92042	0	0.54545	0	2.58064	30.1171	0	0	14.2618	0	30.6025	12.0179	5.8468	9.10876	283.867	0	21.1132	72.4533	57.4804
367	S3_092	A0206	yu2017	advanced	0.39104	0.20207	0	1.54067	0.17471	1.28925	15.9365	0.13971	0.77546	14.1996	0	10.0559	0.10417	1.27273	0.39972	52.9307	0	0	20.384	15.2963
368	S3_094	A0207	yu2017	non_adva	2.70543	0.22739	2.04949	0	0	15.1247	2.39881	0	0	1.05461	0	42.7704	13.2262	5.52189	0	339.315	0	0	69.5682	13.7492
369	S3_095	A0264	yu2017	advanced	0.09819	0.02067	0	0	0	0.57957	4.02778	0.08211	0	2.64878	0	76.0478	8.19048	35.9394	2.32204	417.803	0	0	145.894	25.654
370	S3_096	A0356	yu2017	control	0	0.12145	1.49345	0.06539	0	1.68817	6.70437	2.3701	2.93287	1.8823	2.21764	146.909	9.5506	6.8973	16.3616	155.455	0	0	243.298	63.1746
371	S3_097	A0272	yu2017	advanced	0	0.20569	0.41776	0.36364	1.02529	0.63118	28.1766	0.27941	0	0.04708	0	17.3939	0	12.7071	0	210.859	0	0	25.763	13.691
372	S3_098	A0411	yu2017	advanced	0	0.4677	0.29258	0.17384	0	10.9387	5.67262	2.22304	2.99306	5.38136	0	110.752	113.179	26.4411	0	339.512	0	0	229.761	231.813
373	S3_099	A0422	yu2017	advanced	0	0	0	0	0	4.35376	1.31944	0.69363	0	1.5339	0	69.7785	6.5238	26.463	3.13136	31.1133	1.12355	4.4749	98.2755	21.0328
374	S3_100	A0427	yu2017	non_adva	0.47028	0	0.26346	0	0	2.14516	23.2678	0.65074	0.43519	0.37006	0	93.7121	13.0089	13.2239	0	130.697	2.5937	18.4105	143.666	39.7185
375	S3_101	A0431	yu2017	advanced	0	0.50233	0	0	0	3.04516	0.08135	0	0.08796	10.3107	0	17.6958	20.6577	16.9007	13.9605	429.645	0	0	38.1477	33.9513
376	S3_102	A0440	yu2017	advanced	0	1.99897	4.0524	0.72727	0	1.06774	13.75	1.52451	0.55324	128.923	0	0.4021	0	8.01178	0	150.348	0	0	0	0
377	S3_103	A0441	yu2017	non_adva	0	0	1.26492	1.34928	0	0.49032	4.07143	0.27819	0.37269	0	0	18.9953	0	0.58081	0	175.571	0	0	31.359	12.6518
378	S3_104	A0442	yu2017	advanced	0	2.64961	7.24453	0	0.43525	1.28387	20.0516	0.50858	0.77083	0.40207	0	14.3392	0	1.26936	10.8079	206.039	0	0	29.1313	24.4635
379	S3_105	A0447	yu2017	advanced	0.15935	0	0	0	0	0.34839	5.00794	0.82598	1.18287	7.73352	0	69.3391	26.9137	14.7205	13.2853	540.333	1.79934	0	114.214	23.3598
380	S3_106	M2PK114	yu2017	advanced	0	0	0	0	0	9.64086	3.26786	3.38358	2.21296	9.11111	0	164.179	30.0149	14.9613	4.78814	331.591	1.57794	6.30631	211.118	49.9566
381	S3_107	M2PK155	yu2017	advanced	0.03445	5.12972	6.21979	0.66188	0.34253	1.37312	7.59326	0.9424	1.46759	16.6704	0	76.5815	30.2232	9.89899	0	398.448	0	0	111.339	43.1883
382	S3_108	M2PK074	yu2017	advanced	0.19638	0.03204	0	0	0	8.02796	5.08928	5.16912	4.97222	30.42	0	55.8939	27.0536	7.92592	4.50141	331.205	0	16.6229	54.9236	18.6085
383	S3_109	M2PK095	yu2017	advanced	0.37726	0.04806	0	0	0	5.04086	5.25397	0	0	4.95104	0	67.0699	48.128	26.0774	15.7415	378.252	0.18823	13.1866	128.634	80.4719
384	S3_110	M2PK096	yu2017	advanced	0	0.03463	0	0.88198	1.27586	1.34516	3.04167	0.39706	1.62268	0.38701	0	42.9813	0.15476	17.8266	8.47175	234.629	0	0	89.11	35.3502
385	S3_111	M2PK101	yu2017	non_adva	0	0.15401	0	0	0	14.2925	4.57738	14.9976	11.6898	11.5	0	70.7855	37.1815	7.36868	2.00565	370.483	0.46932	0	99.035	27.7883
386	S3_112	M2PK149	yu2017	advanced	3.54867	2.38139	0	0.89314	0	5.38495	13.7262	0.89093	0.72222	0	0	3.29254	6.30359	4.06902	0	628.359	0	0.42729	5.29765	2.76613
387	S3_113	M2PK113	yu2017	advanced	0	6.39431	0	0.51675	0	1.11505	53.4921	0.93382	1.53241	0.56403	0	102.318	0	2.22054	0.87429	307.785	0	0	142.525	29.2275
388	S4_001	ANS0015/	yu2017	non_adva	0	0	13.0087	0	0	4.02903	4.23612	0.81005	0	8.41714	0	3.23193	1.53274	0.47811	1.15819	49.8133	0	0.05148	6.803	1.66772
389	S4_002	ANS0017/	yu2017	advanced	0	0.02067	0.32605	0.26954	0.16935	1.70108	38.1806	0	0	0.07721	0	4.76107	6.05059	0.76263	0	45.6507	0	0	10.9743	14.5894
390	S4_003	ANS0036(	yu2017	advanced	0	0.1168	1.08588	0	0	0.4957	0.22619	0	0	0.34181	0	63.1165	5.24405	2.47475	0.40819	58.7987	0	0	103.597	27.7778
391	S4_004	ANS0054/	yu2017	advanced	0	0	0	0	0	1.63656	1.03572	0.26838	0.26389	14.838	0	92.1818	1.91964	7.87711	2.48164	66.78	0	63.2342	112.102	31.0794
392	S4_005	ANS0058/	yu2017	advanced	0	0.06202	0.4687	0	0	7.34516	8.84524	0.52206	0	2.48117	0	90.7447	8.5	9.23064	10.959	130.907	0	1.30888	126.474	23.473
393	S4_006	ANS0064(	yu2017	advanced	13.1103	0.68889	0	0.54227	0.38084	0.76344	0.47024	0	0	21.1516	0	76.7482	20.9673	2.11616	15.4887	109.655	0	0	150.159	76.2423
394	S4_007	ANS0070/	yu2017	non_adva	0	0	0	0	0	5.43011	2.50794	0.13848	0	36.2062	0	93.4044	0	11.9899	6.73729	78.4493	0	4.1686	118.39	37.1693
395	S4_008	ANS1108(	yu2017	non_adva	0	1.45116	0.26055	0	0	6.2828	3.00794	0.375	0.91435	22.9454	0	166.587	19.7024	21.2643	12.1088	168.041	12.9519	3.04762	275.151	78.9756
396	S4_010	ANS1131/	yu2017	non_adva	0	0.35297	0	0	0	2.30753	10.9028	0	0	0.37477	0	74.6328	16.2678	6.78451	0.6935	172.54	0	103.483	123.272	27.9936
397	S4_011	ANS1199/	yu2017	advanced	0	0.3907	0	0	0	6.13441	0.80357	0	0	3.74482	0	102.258	1.50298	6.32661	32.565	83.6573	0	64.8005	170.878	41.0148
398	S4_012	ANS1224(	yu2017	advanced	0	1.57933	0	0.18182	0.86284	0.53333	5.14484	0	0	8.25047	0	64.7004	2.89285	9.74916	1.81638	100.092	3.53482	1.57271	113.155	31.0952
399	S4_013	ANS1499/	yu2017	non_adva	0	1.42688	0.25619	0.54227	0	0.8828	35.0536	0	0.16204	0	0	13.289	0.41071	0.71717	0	27.5627	0	0	19.9914	2.26878

#	sequer	sample_n	study_id	group	370640	482585	1704941	2736705	3246804	1696299	2040133	2361423	3173495	181682	3531210	3976414	2211919	1804565	2206475	1559769	4256106	3611706	3319526	4171064
400	S4_014	ANS1565/	yu2017	advanced	0	0.18966	1.89811	0	0	1.02903	28.9603	0.23775	0.66435	52.5706	0	3.39277	8.33631	1.11111	1.66102	75.8014	0	0	10.8251	14.5492
401	S4_015	ANS1565(	yu2017	advanced	0	0.31731	0.96361	0	0	3.00538	39.9385	1.50122	0.44213	0	0	25.338	10.9762	0.51684	0.23305	66.5547	0	0	44.7787	55.2624
402	S4_017	ANS1712/	yu2017	advanced	53.0991	1.04548	0	0.69537	0	0.17527	2.61508	1.24142	1.55324	1.05932	0	222.762	0.44345	4.37374	0.16102	17.0973	0	5.27284	340.336	82.8518
403	S4_018	ANS1742/	yu2017	advanced	191.298	0.37829	0	1.17065	0.44751	0	8.81746	0.23284	0	0	0	10.3403	31.1518	7.98821	0	82.9293	0	0	1.3626	1.59682
404	S4_019	ANS1743/	yu2017	advanced	0	0.63773	4.17758	0.14354	0	0.38925	0	2.46446	1.34954	0	0	0.8683	0	0.38721	0	24.2227	0	0	0.04568	0
405	S4_020	ANS1744/	yu2017	advanced	0	2.47184	0.60262	4.27911	0.69502	0.27527	13.6726	0.41544	0.26389	0	0	68.0792	0.10417	6.28788	0	10.0307	0	0	115.12	41.0465
406	S4_021	ANS1746/	yu2017	advanced	0	0.14677	0	0.5311	0.34943	0	2.47223	0	0	0	0	9.25291	0	2.20707	33.411	23.0373	0	3.31917	28.0792	12.9132
407	S4_022	ANS1756/	yu2017	non_adva	0	458.438	0	117.86	94.7372	25.6161	0.67262	0	0	0.98211	0	2.62471	50.6667	1.04714	0	1268.89	0	0	0.50821	0
408	S4_023	ANS1758(	yu2017	non_adva	0	0.52661	0.24891	0	0	0.15807	20.8313	0	0.51389	0.72693	15.6105	19.4301	9.29763	2.57744	14.3573	98.7907	0	16.6667	38.7052	7.01587
409	S4_025	ANS1760/	yu2017	non_adva	0	2.95711	0	0	0	2.01828	1.75992	0	0.5162	11.3362	0	55.1387	5.72024	5.51683	8.13277	90.8387	0.56053	75.758	97.5746	31.7873
410	S4_026	ANS1766(	yu2017	advanced	0	0.59845	0	0	0	2.66022	0.89881	0	0	0.14689	0	64.4825	0.52679	6.05219	1.83192	88.6347	0.70813	2.5251	104.425	42.3238
411	S4_027	ANS1779/	yu2017	non_adva	0	0.47597	0	0	0	4.30215	6.17857	0.40564	1.15972	4.06968	0	262.137	8.19047	20.3788	12.2486	311.389	0	64.0489	426.071	315.264
412	S4_028	ANS1779(	yu2017	non_adva	0	0.40569	0	0	0	2.41505	1.26389	0	0	8.46893	0	68.9091	4.20833	4.12795	4.01695	66.7453	0	51.8957	112.639	58.0243
413	S4_029	ANS1780/	yu2017	non_adva	0	0.43566	0.46871	0	0	1.43441	2.79762	0.13971	0.26389	0.53861	0	34.4953	3.77976	11.5606	1.20763	104.727	0	1.79408	55.6117	12.9915
414	S4_031	ANS1782/	yu2017	advanced	0	0	2.39738	0	0	0.36129	15.7718	0	0	0	0	0	0	0	0	23.12	0	0	0	0
415	S4_032	ANS1784/	yu2017	advanced	4.96038	6.98347	0	0.88995	0	1.14086	0	0	0	0.38136	0	49.6655	15.7173	3.64141	7.62288	139.403	0	0	98.5368	39.4497
416	S4_033	ANS1787/	yu2017	advanced	0	0.11576	0.42649	0	0	0.5957	1.03968	0	0	5.45668	0	80.1177	2.29762	6.02357	6.10735	97.7427	0	0	167.484	54.3947
417	S4_034	ANS1796/	yu2017	advanced	0	0.20465	24.3246	3.32536	0	3.6742	0	0	0	0	0	12.0221	2.72024	0	0	7.96133	0	0	18.4654	14.019
418	S4_035	ANS1813/	yu2017	advanced	0	3.6615	0	1.59171	1.17778	0.54946	4.08929	4.81863	6.08564	1.97269	0	0	4.4881	0.21549	0	0	0	69.045	0.16274	0
419	S4_037	ANS1872/	yu2017	advanced	0	0.32662	0.51965	0.18182	0.34789	0.24516	8.73214	0.26226	0.35648	10.209	0	74.0466	11.4166	7.26936	1.92797	90.204	1.61775	0	136.729	61.4518
420	S4_038	ANS1975(	yu2017	advanced	0	0	2.08879	0	0	1.13011	0	0.47917	0.52083	0	0	17.8799	2.30059	0.58586	2.08757	37.2053	6.28524	0	22.0621	3.02645
421	S4_040	ANS2093/	yu2017	advanced	0	3.10388	0.61135	0	0	0.63011	15.6012	0	0	1.06121	0	36.4207	0	0.867	9.36158	39.0693	0	0	83.5946	53.8571
422	S4_041	ANS2094/	yu2017	non_adva	0	0	0.74818	0.36045	2.21686	0.50215	0	0	0	0	0	3.2634	0	0.43603	0	15.352	0	4.93179	0.50678	0.06561
423	S4_042	ANS2111/	yu2017	advanced	0	0.79949	0	0	0	2.9871	4.52778	0	0	89.4284	0	26.2016	7.14882	2.40067	3.10593	27.5347	0	0.12741	55.0214	35.8667
424	S4_043	ANS2134/	yu2017	advanced	0	0.31835	0	0	0	1.92258	1.73214	0.36765	0.26389	0.07721	0	15.7051	6.20535	1.31482	0	42.3427	0	2.80438	31.4333	32.3989
425	S4_044	ANS2136/	yu2017	advanced	0	0.83256	0.68559	0	0	0.56022	20.9702	0.13603	0.15046	8.72599	0	98.6433	2.5625	3.88215	2.45339	50.7413	0	20.5637	164.924	40.9968
426	S4_045	ANS2140/	yu2017	advanced	0	0.22739	1.29549	0	0	9.46775	11.8909	0	0	9.99529	0	51.0979	39.3303	8.65488	3.76413	144.772	1.19652	0	77.2705	31.7968
427	S4_046	ANS2254[	yu2017	non_adva	0.28252	0.16537	0	0	0	2.08172	30.7857	0.53677	0.26389	0.58475	0	19.2086	3.50298	4.89057	3.01272	113.589	0	0	24.4818	6.04656
428	S4_047	ANS2406/	yu2017	advanced	0	0.04134	0.65648	0	0	1.63871	28.3929	0.27083	0	0.30509	0	102.618	20.2857	5.72222	56.4477	208.5	0	43.3076	121.664	41.8889
429	S4_048	ANS2407/	yu2017	non_adva	0	0.01602	0	0	0	0.91398	9.83532	0	0	5.10264	0.78007	33.9475	6.41072	3.26768	3.80226	45.1373	0	0	50.9322	21.8032
430	S4_049	ANS2408/	yu2017	advanced	2.323	0.34935	7.08297	0	0.17471	2.26022	18.8095	0.21691	0	0.41337	0	51.5827	0.33929	1.51178	0.4774	47.2547	0	43.8069	79.8108	21.509
431	S4_050	ANS2454/	yu2017	advanced	0	0.08631	0.30277	0	0	0.36344	6.69247	0.54534	0.5162	24.7618	0	86.3321	0.3125	6.80976	4.51978	70.544	0	1.19176	137.584	45.4709
432	S4_051	ANS2464/	yu2017	non_adva	0	0.34315	13.5706	0	0	1.63011	0.66667	0	0	13.5565	0	11.7669	3.78869	2.50505	0.30509	23.0147	0	0	22.8858	7.63492
433	S4_052	ANS2491/	yu2017	non_adva	0	0.43566	0	0.18182	0	0.97097	0	0.32843	0.16667	9.76083	0	59.6025	3.11904	1.3771	1.2387	38.26	0	1.7722	62.2205	18.001
434	S4_053	ANS2508/	yu2017	advanced	0	0.27597	0	0.18182	0	0.25591	1.19048	0	0	6.04238	0	52.7098	1.36012	0.06397	0.49153	67.168	8.71143	0	98.7416	77.0835
435	S4_054	ANS2530/	yu2017	advanced	0	0.11783	0.17904	0.54227	0.52261	0.57634	14.6885	0.47917	1.04167	11.548	0	90.4498	2.40477	17.1515	1.02119	216.343	0	1.86615	108.941	22.545
436	S5_002	ANS1562	yu2017	CRC	0	0	0	0	0	0.8086	0.43651	0.27328	0	56.5866	0	187.667	4.32143	6.78956	8.68362	69.0387	0	0	249.967	64.9354
437	S5_003	ANS1673	yu2017	CRC	0	0.32713	0.75983	0.36045	1.03525	0.07097	12.0258	2.57966	1.75926	10.9115	0	59.782	0.87798	0.27273	0	43.6147	0	4.11969	101.692	45.5365
438	S5_006	ANS1713	yu2017	CRC	0	0.73643	0.6361	0.6874	0.55632	0.21075	19.0337	0.62623	0.69907	0.09887	0	75.937	10.9673	0.10101	0	51.2893	0	0	164.917	135.149
439	S5_007	ANS1716	yu2017	CRC	0	0.38501	0	0	0	9.89248	12.7421	3.89706	7.48148	0.1064	0	99.0035	10.1548	7.06902	3.70057	137.032	0.88806	7.45431	138.43	7.16084
440	S5_008	ANS1717	yu2017	CRC	0	7.91834	19.9345	12.2408	0	0.77097	20.3393	0.27574	0	0	0	3.11189	0.625	4.36869	0	55.6867	15.3292	0	3.42898	0.36402
441	S5_009	ANS1721	yu2017	CRC	0	0.33644	0	0.88357	0	0.7957	0.12302	0.25735	0	12.6092	0	100.471	1.12798	2.39562	2.57627	56.9613	0	0	155.946	30.8275
442	S5_010	ANS1723	yu2017	CRC	0.03531	0.82067	2.41048	0	0	6.38925	3.62698	34.7353	30.331	2.48964	0	63.5932	0.75	3.00505	0.70056	39.7907	0	10.193	89.7095	22.528
443	S5_011	ANS1726	yu2017	CRC	0	0	3.13974	0.88198	0	2.88387	11.377	10.3358	12.4005	0.84652	0.04467	76.0454	15.9048	1.27609	2.39689	32.2413	0	0.20335	156.552	37.9291
444	S5_012	ANS1730	yu2017	CRC	0	1.37726	0.87627	0	0	8.06129	3.91865	168.82	149.146	1.32863	0	51.2704	0	5.68518	0.51836	50.256	0	3.46203	63.833	12.5577
445	S5_013	ANS1735	yu2017	CRC	6.46942	3.17933	0	10.1898	0	1.56989	17.5833	0.90931	0.9213	0.34558	3.73768	30.2797	1.64286	3.07407	0.22175	75.9813	0	0.11326	36.8066	6.09418
446	S5_014	ANS1753	yu2017	CRC	0.22567	0	0	0	0	2.33441	0.90476	0.13603	0.25	2.11299	0	198.841	1.3631	3.21212	5.56497	42.8853	0	42.6654	281.475	60.4889
447	S5_015	ANS1765	yu2017	CRC	0	0.81395	0	0.89793	0	1.35484	1.97024	0	0	2.48682	0	52.0291	0.84821	1.59427	1.97175	33.988	0	2.42471	117.061	24.8
448	S5_016	ANS1794	yu2017	CRC	0	0.23411	0	0.18182	0	0.45592	1.23611	0	0	0.27401	0	87.1491	1.40178	1.02694	0.42797	24.7013	0	0	133.15	50.3301
449	S5_017	ANS1822	yu2017	CRC	0	1.28579	10.9432	0.72568	0	2.97527	4.72222	143.925	140.391	0.11676	0	25.6002	0	4.49832	0	25.8853	0	5.64993	63.3469	14.8582
450	S5_018	ANS1824	yu2017	CRC	0	0.01602	0	0	0	0.10538	1.38889	0.13971	0.21991	0	0	3.25525	0	1.67172	0.25565	20.3187	0	0	4.59458	2.25291
451	S5_019	ANS1857	yu2017	CRC	2.30319	0.92868	0	0.86762	0	0.93979	9.69644	4.74387	3.19676	1.87759	0	23.3636	0.17857	2.46128	9.96187	48.6813	0	3.13771	53.9079	13.4518
452	S5_020	ANS1898	yu2017	CRC	8.36779	0.02067	2.32315	0	0	1.32151	2.17857	8.14951	5.67824	4.16196	0	41.1783	1.21726	0.1835	0.95339	35.7733	0	3.27027	68.5667	13.0656
453	S5_021	ANS1968	yu2017	CRC	0	0.07804	2.4425	0	0	4.40323	1.13889	0	0.52083	0.61205	0	45.1946	4.06548	3.96296	2.19068	87.1186	0	3.8906	62.7123	12.9884
454	S5_022	ANS1981	yu2017	CRC	0	0.18656	0	0	0	0.36237	0.33135	0.9277	0.48148	0.35876	0	29.2214	1.3006	1.98485	2.46469	27.016	0	17.2484	52.0671	17.2032
455	S5_023	ANS2356	yu2017	CRC	0.9242	0.02067	0.4556	0	0	3.91828	3.83135	1.79902	1.29861	11.8597	0	54.2541	9.83631	4.08922	1.11582	70.548	0	18.4826	101.301	33.9704
456	S5_024	ANS2369	yu2017	non_adva	0	14.0367	12.0116	2.35087	0	2.13549	47.8949	0.29289	0	0	0	4.94872	0	1.72896	0	29.7213	0	0	0.49179	0

#	sequer	sample_n	study_id	group	370640	482585	1704941	2736705	3246804	1696299	2040133	2361423	3173495	181682	3531210	3976414	2211919	1804565	2206475	1559769	4256106	3611706	3319526	4171064
457	S5_025	M2PK003	yu2017	CRC	0	0.81964	0.46725	0	0	0.04516	2.38492	2.65809	0.87963	2.96987	0	77.5582	10.1042	2.16835	0.12571	196.632	57.6078	0	136.63	28.4338
458	S5_026	MSC003	yu2017	CRC	0	1.11938	0	0	0	0.49677	15.0159	0.13358	0.26389	15.9087	0	155.855	5.53869	13.2559	5.55509	369.559	0	0	360.06	86.4211
459	S5_027	MSC006	yu2017	CRC	0	0	0.28384	0.23126	0	1.79355	9.80555	15.0821	13.6273	0.77119	0	9.41025	22.3601	3.01347	6.62571	121.345	0.03317	6.06435	17.1435	3.2963
460	S5_028	MSC009	yu2017	CRC	0.9578	0.62377	0	0.52472	0	0.84839	118.385	0.41422	0	10.9576	0	72.3065	0.44048	9.07912	0	92.5107	0	0	103.834	15.0825
461	S5_029	MSC010	yu2017	CRC	0	0.81034	0	1.80383	0.41686	23.1763	6.4742	14.9301	18.5556	3.32862	0	66.8764	3.95238	3.45454	3.7048	171.224	0	122.821	138.854	48.255
462	S5_030	MSC031	yu2017	CRC	0	3.03153	23.6565	0.75758	3.30805	48.6301	4.59921	269.338	242.245	0.09228	0	0.25641	0.38988	0.41919	0	11.8093	0	0	1.16917	0
463	S5_031	MSC054	yu2017	control	0	3.32352	9.36244	2.53748	6.81839	1.94194	10.4028	59.5025	54.7893	0	0	0.50117	0.53869	5.66835	0	219.995	0	0.11583	0.27409	0
464	S5_032	MSC063	yu2017	CRC	0	0.14367	4.88355	0.18182	0	0.84516	4.46627	12.8309	12.5393	0	0	81.7156	0	7.71212	0	115.369	0	0	128.234	59.619
465	S5_033	MSC077	yu2017	control	0	2.49354	2.72198	0	0	12.7806	16.5833	116.407	114.067	1.63654	0	112.098	13.9673	9.63973	0.6935	291.933	0	0	145.28	44.3566
466	S5_034	MSC078	yu2017	CRC	0	0.06202	0.72926	0.53748	4.7954	0.30215	7.89881	8.08946	5.96065	2.03672	0	18.5198	5.59226	0.4596	8.70339	74.024	0	2.37065	32.9336	29.2635
467	S5_035	MSC081	yu2017	CRC	0	0.6155	0	0.48006	0.46513	3.23333	66.3155	1.85294	2.61805	205.412	0	0.64103	0.18452	0.81986	0	135.007	0	0	0.57887	0
468	S5_037	MSC084	yu2017	CRC	0	0	0	0	0	0.55591	7.22421	2.53554	0.50232	0	0	167.008	24.5357	16.8148	0	407.021	0	0	253.549	54.1989
469	S5_038	MSC085	yu2017	CRC	0	1.12868	3.04512	0.6858	0	11.4505	117.401	544.503	466.65	0	0	10.359	0	0.74579	0.26271	323.707	0	0	33.7987	39.4613
470	S5_039	MSC086	yu2017	CRC	0	0.19948	0.60699	0	0.25594	6.11075	42.381	1.38848	0.9213	0.21375	0	151.371	2.09821	11.1229	4.87571	195.089	0	54.87	193.604	58.3259
471	S5_040	MSC087	yu2017	CRC	0	0.2553	0.98981	0	0	1.45269	1.35714	4.25981	3.40046	0.43879	0	104.869	14.6964	22.0269	5.85169	233.425	0	0	167.275	42.3407
472	S5_041	MSC089	yu2017	CRC	0	0	3.85007	2.30622	0	4.78065	278.808	0	0	0	0	22.8473	15.5447	9.55219	0	98.54	0	0	4.96502	0
473	S5_042	MSC090	yu2017	CRC	0	4.45788	1.96943	0.89474	0	1.72581	97.8235	54.4767	52.5324	0.20245	0	9.9592	26.0268	0.64478	4.55226	371.348	5.26949	1.3565	13.8073	3.69629
474	S5_043	MSC091	yu2017	CRC	1.04048	0.89871	0.76856	1.95375	0	6.4	2.65873	55.1066	51.4005	0.24859	0	7.74242	25.5566	6.93771	15.1977	166.651	2.71642	0	12.4668	5.04444
475	S5_045	MSC093	yu2017	CRC	0	0.83308	6.24745	1.62201	11.2421	4.52043	59.7044	3.27574	3.41204	0	0	2.5606	29.122	2.7862	0	383.813	0	0	1.73448	0.04021
476	S5_046	MSC096	yu2017	control	0	0	0.29694	0.5327	0	1.44731	64.2599	3.83578	3.62731	0	0	0.16201	18.9881	0.15488	0	266.161	0	0	0.16274	0
477	S5_047	MSC097	yu2017	CRC	0	3.96899	1.15866	0	0.17471	0.34839	102.109	22.4988	20.9583	0	0	81.2878	0	10.1566	1.22881	29.1493	0	1.77864	150.871	52.0635
478	S5_049	MSC115	yu2017	control	0	2.57468	0.2984	0.54545	0.4659	3.5129	437.98	0.95466	0.26389	0	0	1.21678	0	2.60774	0	721.022	0	0	6.84368	0
479	S5_052	MSC118	yu2017	CRC	0	0.72868	14.1499	0.70814	0.17471	12.3237	23.0893	256.294	233.518	5.27307	0	29.6608	3.25595	2.81313	0.70339	106.564	0	0.32304	48.5782	25.982
480	S5_054	MSC122	yu2017	advanced	0	0.22016	0.77002	0	0.34713	4.12151	144.873	49.0123	56.6644	1.65254	0	100.063	18.5655	50.7896	10.9477	342.628	0	0	130.745	55.0571
481	S5_055	MSC123	yu2017	CRC	0	0.12403	0.61427	0	0	2.51935	14.9802	66.3358	62.8819	1.22505	0	15.9942	38.616	7.78956	0	432.212	0	0.49163	37.6567	26.2116
482	S5_055-	MSC123-2	yu2017	CRC	0	6.0615	0.77001	0.35088	0.8613	13.672	7.52579	460.385	392.493	21.565	0	3.77739	0.9375	0.08249	0	54.1066	0	0	1.38758	0
483	S5_056	M2PK007	yu2017	CRC	0.73213	2.1261	1.31004	0	0	12.8914	17.2718	79.2856	62.7709	0.3597	0	52.5314	2.16369	2.20707	0.30508	239	0	1.46203	72.7552	15.1714
484	S5_057	M2PK007	yu2017	CRC	0	0.15866	0	0	0.14713	8.53764	45.1409	12.7586	12.1389	0.49623	0	20.1433	0	2.02189	2.26836	462.032	0	24.973	6.005	2.10053
485	S5_060	M2PK000	yu2017	CRC	0	8.44082	0	0.44019	0	4.45914	11.5933	1.02451	1.3125	3.03202	0	181.001	1.51488	17.5067	0.363	536.375	0	1.28829	315.796	106.884
486	S5_061	M2PK000	yu2017	CRC	0	8.50181	0	0.49601	2.47356	1.47312	10.6012	3.09314	6.28472	0	0	2.7704	0.375	4.4899	27.993	650.673	0	1.6332	9.26195	7.07619
487	S5_062	M2PK000	yu2017	CRC	0	0.06202	0	0.48804	0	1.29785	47.4048	37.337	29.8519	1.22599	0	42.0955	42.369	10.8384	10.7783	289.124	0	0.79151	79.1478	59.7195
488	S5_064	M2PK001	yu2017	CRC	5.52283	1.43463	2.74236	0.74801	0	1.93226	3.57341	1.3799	2.10417	0	0	15.1445	0	16.6818	0	142.649	0	0	24.5125	2.84868
489	S5_066	M2PK002	yu2017	CRC	0	0.23411	1.94178	0.90271	0	0.55591	108.121	21.2083	16.0393	0	0	0.56877	0	0.36869	24.9195	288.195	0	0	0	0.11746
490	S5_068	M2PK003	yu2017	CRC	0	0	0	0	0	16.486	25.631	0.65319	0.52546	2.21845	0	107.45	9.32739	45.8939	0	375.255	0	0	166.459	68.5777
491	S5_070	M2PK005	yu2017	CRC	0	1.43101	0.30568	0.14514	13.0613	3.90753	67.5417	0	0	0.56403	0	57.7645	0.51786	0.81987	0	226.049	0	0	128.759	129.187
492	S5_071	M2PK005	yu2017	CRC	0	0.66925	0.16012	0	0.69655	3.18925	10.3056	1.82475	1.24537	0.258	0	84.1993	3.24702	13.5067	3.95481	228.007	0	0	149.252	54.4836
493	S5_072	M2PK005	yu2017	CRC	0	1.74057	0	1.19139	0	8.56344	47.3988	0	0	1.19962	0	144.77	0.15179	10.3232	1.96469	225.668	0	19.3076	242.419	35.5481
494	S5_073	M2PK006	yu2017	CRC	0	0.14935	0.33188	0	0	5.75161	16.5516	18.973	14.6759	0.59605	0	98.0256	7.54763	11.3081	4.36158	288.985	5.92703	1.33977	156.095	31.0741
495	S5_074	M2PK006	yu2017	CRC	0	0	0.32023	0	0.17318	1.91721	78.0179	10.913	9.68055	1.08851	0	32.5128	15.619	2.60943	6.9209	526.98	0	0	54.5189	10.0593
496	S5_075	M2PK007	yu2017	CRC	0	8.43307	0.49927	1.4051	0	0.23979	14.9623	2.00245	1.90741	0.11582	0	47.0722	0	0.67677	19.2712	358.025	0	0	71.1578	57.183
497	S5_076	M2PK008	yu2017	CRC	0	0.1137	0.33188	0	0.34483	40.5839	6.16073	743.706	580.837	12.3569	0	78.7063	1.93452	20.9731	0	251.499	0	19.13	110.827	25.7905
498	S5_077	M2PK008	yu2017	CRC	0	0.25065	0	0	0	5.01505	21.002	6.16544	7.10648	12.0697	0.26117	133.303	35.9286	8.98989	0	355.768	0	0	261.311	58.8338
499	S5_078	M2PK011	yu2017	CRC	0	0.13178	0	0	0	4.03118	3.09325	6.60172	2.51158	1.93126	0	116.089	3	10.0202	28.8249	322.899	0.09204	22.6757	181.256	66.2624
500	S5_080	M2PK011	yu2017	CRC	0.18432	0.03669	0.14847	0	0	9.65376	0.67857	7.80147	7.50926	3.91055	0	45.1993	2.25298	12.9293	1.60452	180.153	0.44693	7	54.5268	16.9429
501	S5_082	M2PK012	yu2017	CRC	0	0.26408	0.8428	0.99681	0.17471	58.0753	27.9326	639.993	556.238	0.4096	0	138.968	0.67857	10.1111	0	146.768	0	0	204.578	51.0116
502	S5_083	M2PK013	yu2017	CRC	0	0.90233	0.48472	0.72727	0.41226	0.98495	6.52976	5.44241	5.66436	0.05744	0	200.726	0	3.40236	0.15113	464.477	0	0	237.253	60.1068
503	S5_084	M2PK013	yu2017	CRC	0	0.02067	10.6419	2.67145	3.54253	24.1097	32.4087	293.789	238.18	0.41526	0.84192	51.7098	4.41071	1.55724	1.92091	111.471	0	5.51094	114.395	35.7799
504	S5_085	M2PK020	yu2017	CRC	0	0	0	0	0	8.01291	4.45238	0	0	12.8183	0	113.104	13.122	14.9057	11.2783	557.231	0	5.54568	208.924	39.8899
505	S5_086	M2PK020	yu2017	CRC	0	7.97829	0.44396	1.42105	0.42989	0.60323	14.7063	3.42647	2.91898	0.09416	0	42.8077	0.16667	1.35859	12.846	281.291	0	0	76.9136	44.7936
506	S5_087	M2PK020	yu2017	CRC	0	0	0	0	0	34.5161	9.61309	525.108	406.356	5.24294	0	43.5023	4.21726	20.2811	4.22317	338.933	0	8.0888	65.4147	14.1301
507	S5_088	A0202	yu2017	CRC	0	0.11215	0	0	0	1.83441	1.45437	0	0	7.28436	0	128.517	17.2054	12.7727	51.2302	369.301	0	0	198.721	58.7904
508	S5_089	M2PK005	yu2017	CRC	0	2.61189	0.26492	1.23445	0.64215	3.31721	177.254	1.95588	1.00926	10.5085	0	233.644	13.2321	0.45623	0	354.283	0	0	451.482	326.86
509	S5_091	M2PK010	yu2017	CRC	0	0	0.32897	0	0	5.80323	7.04761	4.98039	2.03935	1.00847	0	21.0489	0	24.2912	2.16384	307.061	0	0.2677	36.5389	13.9429
510	S5_092	M2PK008	yu2017	CRC	6.1826	0	0.32751	0	0	0.9129	3.35119	1.77696	1.56482	0.11582	0	25.8426	0.21131	1.96633	0.51695	15.6667	0	1.05534	28.3383	7.30689
511	S5_093	M2PK009	yu2017	CRC	1.42463	0.81706	3.4425	1.16427	0	36.5548	7.73214	10.2954	12.7176	2.10452	0	5.19581	1.39583	1.35354	1.97458	27.6973	0	3.26898	9.21628	8.418
512	S5_094	M2PK009	yu2017	CRC	0	12.6775	0	3.89314	0.31801	0.12258	10.5694	0	0	1.18267	0	15.9394	0.20833	2.33165	0	24.2467	0	0.83398	8.88936	1.79577
513	S5_096	M2PK010	yu2017	CRC	0	0.51783	0.15575	0	0	0.53441	0.69246	0	0	9.35123	0	5.31236	1.80059	2.06566	1.91667	24.96	3.48342	0.14672	15.6538	2.13757

#	sequer	sample_n	study_id	group	370640	482585	1704941	2736705	3246804	1696299	2040133	2361423	3173495	181682	3531210	3976414	2211919	1804565	2206475	1559769	4256106	3611706	3319526	4171064
514	S5_098	M2PK011	yu2017	CRC	0	0.76021	1.28093	1.15311	0.68582	1.97097	51.1964	11.9914	11.9954	0.45104	0	18.5128	1.01191	30.5252	0.07203	45.508	0	28.9961	27.5339	5.59047
515	S5_099	M2PK011	yu2017	CRC	0	0.69819	12.0408	0.18182	0.17471	13.8527	3	3.02696	2.4375	0.88324	0	17.8391	0.31548	1.83838	7.85452	19.344	0	0.2175	30.7787	13.6307
516	S5_101	M2PK011	yu2017	CRC	0.91904	0.45581	11.4236	0	0	6.81075	6.50597	5.75	4.44213	0.51883	0	9.91025	0.625	4.78115	0	33.18	2.28939	0	16.5275	10.5894
517	S5_104	M2PK019	yu2017	CRC	0	5.169	10.9054	3.9681	0.05441	4.16774	9.40872	44.723	36.4792	0.19209	0	9.99766	0.10417	3.24243	0	3.64	0.03151	2.7027	9.01713	0.6836
518	S6_001	ANS1674/	yu2017	CRC	0	10.4506	0	10.6922	0	0.46452	72.3314	0	0	0	0	20.0932	0	10.2744	0	2.636	0	0.36551	18.0236	0
519	S6_002	ANS1707/	yu2017	CRC	0	4.08269	0.06841	0.8756	0.34789	0.18387	4.37301	0	0	0.11582	0	6.49766	0	0.43939	0.57062	31.5307	0	0	13.4939	15.6529
520	S6_003	ANS1708/	yu2017	CRC	0	0	0	0	0	4.21398	4.39881	0	0	3.37571	0	71.1585	3.01488	2.3064	0	63.948	0	0	109.021	21.8328
521	S6_004	ANS1713/	yu2017	CRC	0	4.29303	0	0.36204	8.08046	0.13118	17.6885	0.06373	0	0	0	1.22844	0	0.38721	0	6.61601	0	16.8494	0.04069	0
522	S6_005	ANS1717/	yu2017	CRC	0	0.11938	0.6754	1.60287	0.15939	0.95269	19.8829	0	0.22222	0	0	2.07343	0	0.38552	0	30.024	0	0	1.00357	0
523	S6_006	ANS1721/	yu2017	CRC	0	1.44548	0	1.09091	0	0.5129	4.99802	0.2451	0	2.96987	0	162.227	0.25	7.24411	0.78531	46.2627	0	145.113	224.02	65.6042
524	S6_007	ANS1723/	yu2017	CRC	0	0.15917	1.2591	1.56459	0.17471	0.07527	16.8929	0	0	0	0	4.44872	11.8899	1.21044	0	272.668	0	0	6.67167	3.94709
525	S6_008	ANS1726/	yu2017	CRC	0	1.04755	4.09316	5.75439	0.17471	0.37957	55.4365	0.27941	0	0.13559	0	11.5886	0.44048	1.70539	0	67.572	0	0	20.9779	3.28889
526	S6_009	ANS1730/	yu2017	CRC	0	2.12041	0	0.72727	0	0.54731	28.8552	0.27941	0	0	0	43.817	0	1.4798	0	22.2027	0	0	62.6545	77.1872
527	S6_010	ANS1735/	yu2017	CRC	16.8708	0	0	0.96013	0	0.23226	8.75397	0	0	1.1017	0	26.8123	2.84821	0.89562	0	40.5413	0	0	52.1827	15.3534
528	S6_011	ANS1765/	yu2017	CRC	0	0.96641	0	0.79266	0	1.10108	25.7163	0	0	2.32956	0	11.5105	0.75893	5.20875	0.99011	60.1587	0	2.55341	14.626	2.53651
529	S6_012	ANS1887(	yu2017	CRC	0	0.47804	0	0.72727	0	0.22796	3.55754	1.17279	1.20139	0.69492	0	36.2249	3.11012	0.49158	0.10452	104.113	12.2546	101.417	61.6717	15.6571
530	S6_013	ANS1968/	yu2017	CRC	0	0.02067	0	7.49921	8.19004	0.03763	11.1369	0.13235	0	0.04426	0	19.2121	0	0.81313	0	18.0133	0	0	53.3148	8.05185
531	S6_014	CM00002	yu2017	CRC	0	4.96331	4.32023	14.0606	0.90805	2.97742	22.9266	36.5392	28.8495	0.21469	0	6.70163	0	1.00673	0	5.41467	0	0.14672	4.98786	0.27937
532	S6_015	CM00011	yu2017	CRC	0	0.01602	0.31296	0	0.6613	0.44731	2.45635	0.27328	0	0.03861	0	3.80769	0	2.25758	0.63418	13.7973	0	0	4.85082	2.50159
533	S6_016	CM00022	yu2017	CRC	0	0.58346	0.27074	0	0.42912	1.18387	2.36905	1.01471	2.24537	0.4209	0	101.241	2.48512	7.49495	12.9661	79.0147	0	0	151.47	36.5418
534	S6_017	CM00027	yu2017	CRC	0	0.0677	0	0.36683	0.25977	0.05699	9.89089	0.13971	0.22917	0.04426	0	5.39277	0	3.5202	2.81497	15.264	0	0	4.78872	0.51534
535	S6_018	CM00029	yu2017	CRC	0	3.63721	12.7671	1.31579	0	4.16344	7.87501	235.784	223.019	0.24105	0	47.8263	0.10714	5.79798	0.12429	41.892	0	13.6782	93.5103	24.9545
536	S6_019	CM00030	yu2017	CRC	13.5056	0	1.56478	0	0.17088	2.55591	2.51786	0.41422	0.25694	0.13936	0	156.662	1.46429	3.74243	1.33616	73.9013	0	0	232.787	58.1587
537	S6_020	CM00032	yu2017	CRC	4.29285	4.12455	1.6492	0.80861	2.88736	4.8086	29.3869	16.1042	17.7639	0	0.04467	4.90909	0	0.81818	0.8178	6.22534	0	160.421	13.748	8.67936
538	S6_021	CM00034	yu2017	CRC	4.06116	0.10336	23.1776	0	0	1.25806	1.11905	1.25368	1.40278	1.30414	0.3551	35.0629	0	4.99326	0.05791	65.864	0.07297	0.95109	56.9879	16.0339
539	S6_022	CM00036	yu2017	CRC	0	0.51008	0.32897	1.7193	0.08736	0	29.0635	4.85784	5.23611	0	0	4.98834	0.83333	1.53872	0	19.676	0	16.5084	6.03925	1.26243
540	S6_023	CM00040	yu2017	CRC	0	0.12455	0	0	0	0	0.39087	0.55882	0	0.70622	0	23.1853	1.14881	1.55387	2.23164	21.0547	0	6.24324	45.8066	12.4074
541	S6_024	CM00041	yu2017	CRC	1.94402	0.17984	1.40029	0	0	0.21936	2.36905	0.18873	0	3.23447	0	25.0909	2.37798	3.92929	0.59463	58.82	1.78607	0	39.434	13.782
542	S6_025	CM00049	yu2017	CRC	0	3.75504	1.67686	0.18182	0.8682	0.45591	119.452	1.13235	2.31482	0	0	14.204	0	3.86869	1.7048	13.288	0	0	27.5489	13.527
543	S6_026	CM00050	yu2017	CRC	0	1.30233	3.67394	0.18182	0.52414	1.32903	40.0695	0.87377	0	0.28249	0	23.7937	7.5387	0.98148	0	29.5147	0	0	37.8465	19.6053
544	S6_027	CM00051	yu2017	CRC	0	0.27339	0.93159	0.18022	0	3.16775	3.13294	0.13971	0.25694	0.10546	0	4.71095	0	1.10269	1.88418	9.90667	0	0.73359	5.37187	1.35767
545	S6_028	CM00054	yu2017	CRC	0	0.57054	5.04804	0	0	1.03226	1.95635	5.54535	7.62268	0	0	85.2156	0	1.56397	0	107.832	0	0	100.879	20.7809
546	S6_029	CM00061	yu2017	CRC	0	0.2062	4.4163	0.18182	0.17241	5.36129	40.6925	20.2855	17.9282	0.13183	2.12028	28.0396	3.71131	0.60101	1.50141	42.4173	0.30348	0.52767	68.8622	18.7418
547	S6_030	CM00063	yu2017	CRC	0	1.8832	0	1.06061	0	5.54839	21.1806	3.1728	2.77084	0.0339	0	9.05711	3.59822	1.77778	0.48305	64.336	0	0	23.6795	10.1206
548	S6_031	CM00064	yu2017	CRC	16.9457	1.3876	6.60408	1.87879	0.1295	3.25376	6.40079	39.1324	33.4051	6.62995	0	23.8951	1.96726	0.92256	2.12147	34.3	0	11.6306	33.4732	4.2381
549	S6_032	CM00179	yu2017	CRC	0.3273	0.11783	0	0	0	4.47635	2.92857	0	0.26389	17.0047	0	69.1457	4.82143	3.08922	0.33616	91.8733	0	16.0952	130.692	30.7016
550	S6_033	CM00215	yu2017	non_adva	0	19.3571	9.8326	7.72887	0	3.22581	29.5734	0	0.26157	0	0	5.08508	0.41667	0.8266	0	27.7987	0	0	0.31121	0
551	S6_035	ANS1982(	yu2017	CRC	0	0	0	1.06539	0	0.1172	8.83334	0	0	0.52637	0	0.27389	6.39583	0.07744	1.40113	53.4107	14.5688	0	0.07994	0
552	531A	531A	yu2015_16	control	0	0.59948	0.22271	0.2488	0	0.42581	2.86707	0	0	1.36441	0	3.9394	6.07143	5.42593	11.5283	25.8987	0	2.92278	12.3155	1.40529
553	ANS102	ANS1024	yu2015_16	control	0	0.08062	0	0	0	0.28495	3.6746	0	0	0.36158	0	7.20163	4.14881	3.53872	26.5071	28.348	0	0.40283	14.6745	1.31111
554	ANS103	ANS1037	yu2015_16	control	2.9354	1.05685	0	0	0.11954	8.67635	28.9802	0.94363	0.89121	1.61017	0	41.352	42.8065	17.6768	192.093	143.06	2.42786	2.41313	83.0328	34.2317
555	ANS103	ANS1038	yu2015_16	control	0	8.90439	0	1.56778	2.58544	3.38495	48.5377	1.10417	1.81713	9.68643	0	6.13986	0	3.51684	0.40396	74.4387	0	0.19305	6.12991	4.10159
556	ANS110	ANS1101	yu2015_16	control	0	1.37829	0.32897	0	0.40077	4.91398	1.50794	11.9779	11.9167	4.64124	0	9.83333	5.25	2.53367	0	103.824	0	0	17.6274	0.39154
557	ANS111	ANS1112	yu2015_16	control	0	2.91059	0	0	0	3.32365	3.51984	0.3848	0.61111	0.80226	0	37.1293	8.99106	4.5	19.1638	80.4654	2.11194	0	75.5924	15.8899
558	ANS111	ANS1114	yu2015_16	control	0.06718	0.3385	0	0	0	4.25806	0.80754	0	0	0.09887	0	9.54778	2.10119	1.2963	0	21.0387	0.90547	1.22522	7.62812	1.42963
559	ANS111	ANS1115	yu2015_16	control	5.28941	0.34109	0	0	0	1.06774	0.91865	2.43627	0.9213	1.11959	0	51.5792	5.03274	4.56734	0.86017	134.481	0	0	95.4446	21.8487
560	ANS111	ANS1119	yu2015_16	control	0.13351	0.05581	0.64192	0	0.08966	3.1699	4.74008	0.48039	0.83565	1.78719	0	7.37878	14.3571	2.94613	4.21751	70.6827	0	0	16.1021	4.39259
561	ANS113	ANS1133	yu2015_16	control	0	0.16279	0	0.12121	0	2.64301	0.25794	6.96446	6.78703	0.22599	0	144.102	12.1012	6.06902	0.38842	97.9	0	3.90605	276.658	33.5185
562	ANS113	ANS1135	yu2015_16	control	0	0	0	0	0	0.67312	22.1647	0.36887	0.55324	1.92279	0	29.1002	4.46131	1.17677	0.07062	40.0427	0.29105	0.89575	39.7844	7.46243
563	ANS117	ANS1170	yu2015_16	control	0	0.87648	0.22999	0	0	3.20108	11.4762	0.90931	0	0.90301	0	54.8123	19.2113	11.3603	4.34039	121.235	0	9.05019	82.349	12.4825
564	ANS117	ANS1178	yu2015_16	control	0	0	0	0	0	1.06559	2.02183	2.06495	2.43519	0.2194	0	0.05944	18.5714	0.13805	0	169.945	0	0.07979	0.31121	0.4127
565	ANS118	ANS1186	yu2015_16	control	0.83377	0	0.11208	0	0.11877	3.06774	31.0258	0.09681	0.29861	0	0	47.5874	8.99405	2.24411	0.87571	132.084	0	0.08366	58.0221	23.6571
566	ANS118	ANS1189	yu2015_16	control	0	0.08062	0	0	0	2.76452	3.09127	0.19118	0	3.57062	0	49.6375	4.36012	5.06229	133.777	44.132	0	62.1312	62.4582	15.1937
567	ANS119	ANS1190	yu2015_16	control	0	2.1969	0	0.48166	0	0.54731	10.4147	0.38603	0.51389	1.9774	0	37.6946	4.70535	10.8114	16.9986	41.2494	0	1.81853	57.1013	9.86984
568	ANS120	ANS1205	yu2015_16	control	0	0.04134	0	0	0.08736	3.04946	3.54365	0.38726	0.18056	17.6742	0	52.0443	5.33631	5.83333	15.7782	46.66	0	1.52638	63.9893	17.4243
569	ANS121	ANS1217	yu2015_16	control	0	0	0	0.11962	0	2.44301	2.92262	0	0	0.15913	0	24.7354	32.5982	9.23737	0.2161	71.148	0.29436	1.32947	39.2877	6.01058
570	ANS121	ANS1218	yu2015_16	control	0.57795	0.45116	0.23144	0.2488	0	0.91828	0.45437	0.375	0.37037	4.61394	0	62.2797	0.23512	9.4899	2.44916	43.4347	0	18.1519	99.3754	35.1598

#	sequer	sample_n	study_id	group	370640	482585	1704941	2736705	3246804	1696299	2040133	2361423	3173495	181682	3531210	3976414	2211919	1804565	2206475	1559769	4256106	3611706	3319526	4171064
571	ANS122	ANS1222	yu2015_16	control	0	0	0	0.95215	0	0.2828	5.38492	0.20343	0.18287	7.29661	0	53.5512	0.91964	4.47138	0.58757	14.2493	0.22554	0	102.39	13.7439
572	ANS145	ANS1454	yu2015_16	control	0	0.07494	0	0	0	0.60968	1.9127	0	0	0.45386	2.59565	5.47319	3.5625	2.12795	6.43926	13.4187	0	1.04376	6.90007	1.87831
573	ANS145	ANS1456	yu2015_16	control	0	0.19483	0	0	0.2705	0	2.79365	0.67402	0.89583	2.10452	0	9.98135	6.46131	0.89562	0.50141	32.9933	3.65672	0	10.6381	2.23915
574	ANS147	ANS1475	yu2015_16	control	0	0	0	0	0	1.15161	2.20635	0.38603	0	0.81827	0	69.0513	6.16667	3.00842	1.72317	18.6613	0.75042	0	116.335	34.2836
575	ANS16	ANS16	yu2015_16	control	0	0.12093	0	1.15949	5.6774	0.09462	8.99008	0.57598	0	0.19115	0	3.72028	4.56548	4.42761	0.37571	24.2947	0.06634	0	6.18629	7.41482
576	ANS19	ANS19	yu2015_16	control	0.06718	0	2.04076	0	0	0.72151	4.05953	5.85907	5.0162	2.99812	0	10.3496	22.0982	2.5	0.55367	134.909	0	0	7.00714	1.78836
577	ANS23	ANS23	yu2015_16	control	0.38157	0.18295	0	0	0	0.93656	1.60317	0	0.51852	0.1855	0	9.04661	4.25595	1.42424	22.1751	32.8653	0.03317	0.83655	22.1513	8.23916
578	ANS27	ANS27	yu2015_16	control	0.12489	0.97106	0	0.18022	0.29809	5.07635	2.27183	0	0	0.48117	0	9.48368	4.47024	7.24075	1.3178	14.2987	0	3.56242	16.8273	10.0825
579	ANS3	ANS3	yu2015_16	control	0	1.08786	0.11645	0	0	0.96559	13.6905	0.96814	1.96528	1.76271	0	10.3089	16.4256	6.61111	0.89548	105.053	0	0	21.6538	9.82539
580	ANS30	ANS30	yu2015_16	control	0	9.20775	0	1.48963	1.69962	0.33333	56.3651	0.09804	0.18519	3.41714	0	7.18531	1.87202	2.65657	1.39548	20.612	0	0	9.48537	3.58942
581	ANS31	ANS31	yu2015_16	control	0	0	0	0	0.02835	0.44516	90.6687	1.16177	1.41898	0	0	12.2144	3.52678	3.77441	7.3065	13.36	0	34.2908	12.0343	1.6836
582	ANS46	ANS46	yu2015_16	control	0	0.26202	0	0	0	1.6	9.85118	0.09681	0.12732	2.21187	0	12.1818	1.2381	0.38047	0	18.6213	0.75042	3.70141	21.5189	2.42751
583	ANS49	ANS49	yu2015_16	control	0	0.40517	0	0	0	0.48602	30.5258	0.84069	0.18519	2.74576	0	28.3764	2.27976	9.23064	3.55367	174.504	0	0	19.2113	2.69841
584	ANS52	ANS52	yu2015_16	control	0	0.1447	0	1.51515	0	2.99892	35.7699	0.51716	1.2037	4.69774	0	4.18298	3.57738	1.3064	0.22175	43.792	0.13101	0.24968	6.99072	2.70053
585	ANS7	ANS7	yu2015_16	control	0	48.0238	0	8.36363	2.88812	0.20108	103.441	0.1924	0.28241	0.14689	0	17.4429	0.73512	1.59259	1.64548	61.2333	0.19652	0	33.4375	5.19153
586	ANS71	ANS71	yu2015_16	control	0	0.15297	0	0.49123	0	0.64194	3.50595	0.36397	0.67361	1.3371	0	81.4323	12.4911	34.9815	2.64125	71.8173	2.47015	8.91891	93.7309	12.945
587	ANS78	ANS78	yu2015_16	control	0	0.42842	0	0.1244	0.059	5.35914	2.25595	0	0	0.29849	0	15.613	3.11012	0.30976	4.3404	14.328	0	0	25.5989	3.44233
588	ANS85	ANS85	yu2015_16	control	0	1.48527	0	0	0.35326	0.3172	2.65079	0	0.3588	0.94821	0	25.8368	2.52083	4.32828	11.1963	31.2093	0.76368	0.27542	47.157	18.5005
589	ANS97	ANS97	yu2015_16	control	0	1.55194	0	0.12281	0	1.78065	20.4266	0	0	0	0	13.0152	0.57738	1.3064	17.2302	39.8413	0	3.27027	20.6117	5.12063