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eTable 7.Regional genetic correlation estimations between 5 respiratory deseases

Locus No.	CHR	START	STOP	Trait1	Trait2	rg	rg.lower	rg.upper	r^2	r^2.lower	r^2.upper	*P*.value	*P*.adjusted
2079	15	78514102	79292536	COPD	LungCancer	0.8522	0.7718	0.9316	0.7262	0.5957	0.8678	6.91E-49	8.20E-45
1415	9	38822978	43903829	COPD	IPF	0.9368	0.8746	0.9936	0.8775	0.7649	0.9872	6.00E-33	3.56E-29
964	6	32539568	32586784	Asthma	COPD	0.4960	0.4207	0.5692	0.2460	0.1770	0.3240	8.71E-27	3.45E-23
965	6	32586785	32629239	Asthma	COPD	0.6717	0.5809	0.7647	0.4511	0.3375	0.5847	2.45E-26	7.27E-23
966	6	32629240	32682213	Asthma	COPD	0.6804	0.5964	0.7633	0.4630	0.3557	0.5826	2.61E-25	6.20E-22
963	6	32454578	32539567	Asthma	COPD	0.5877	0.5023	0.6679	0.3454	0.2523	0.4460	1.21E-23	2.39E-20
1415	9	38822978	43903829	Asthma	IPF	0.9646	0.8849	1.0000	0.9305	0.7830	1.0000	4.72E-22	8.00E-19
1496	10	8771921	10081279	Asthma	COPD	0.9014	0.7552	1.0000	0.8126	0.5703	1.0000	4.00E-16	5.94E-13
887	5	1.31E+08	1.33E+08	Asthma	COPD	0.7633	0.6377	0.8971	0.5826	0.4067	0.8048	3.19E-15	4.21E-12
1415	9	38822978	43903829	Asthma	COPD	0.9390	0.8469	1.0000	0.8818	0.7172	1.0000	3.37E-14	4.00E-11
1938	13	99402295	1E+08	Asthma	COPD	0.7091	0.5554	0.8545	0.5028	0.3084	0.7301	2.59E-10	2.79E-07
964	6	32539568	32586784	COPD	IPF	0.3750	0.2682	0.4821	0.1406	0.0719	0.2324	6.91E-10	6.84E-07
966	6	32629240	32682213	COPD	IPF	0.5294	0.3888	0.6656	0.2803	0.1512	0.4431	1.07E-09	9.77E-07
1378	9	5437592	6859791	Asthma	COPD	0.8895	0.6434	1.0000	0.7912	0.4139	1.0000	1.80E-09	1.53E-06
2071	15	67396521	69089815	Asthma	COPD	0.7180	0.5440	0.9252	0.5156	0.2960	0.8560	6.82E-09	5.40E-06
966	6	32629240	32682213	Asthma	Snoring	1.0000	0.6688	1.0000	1.0000	0.4473	1.0000	1.03E-08	7.64E-06
963	6	32454578	32539567	COPD	IPF	0.4896	0.3408	0.6315	0.2397	0.1161	0.3988	3.46E-08	2.42E-05
1199	7	1.17E+08	1.18E+08	Asthma	COPD	0.9084	0.7065	1.0000	0.8252	0.4991	1.0000	4.49E-08	2.96E-05
130	1	1.72E+08	1.74E+08	Asthma	COPD	0.8367	0.6254	1.0000	0.7000	0.3911	1.0000	5.96E-08	3.72E-05
730	4	1.44E+08	1.46E+08	Asthma	COPD	0.8737	0.6579	1.0000	0.7633	0.4328	1.0000	1.04E-07	6.17E-05
461	3	42301658	44141693	Asthma	COPD	0.7740	0.5780	0.9851	0.5991	0.3341	0.9704	1.24E-07	6.69E-05
966	6	32629240	32682213	Asthma	LungCancer	0.4986	0.3339	0.6744	0.2486	0.1115	0.4548	1.21E-07	6.69E-05
584	3	1.87E+08	1.88E+08	Asthma	COPD	0.7860	0.5693	1.0000	0.6179	0.3241	1.0000	1.68E-07	8.67E-05
1214	7	1.38E+08	1.39E+08	COPD	IPF	0.8344	0.5781	1.0000	0.6962	0.3342	1.0000	2.43E-07	1.20E-04
483	3	71223282	72334704	Asthma	COPD	0.8234	0.5968	1.0000	0.6780	0.3562	1.0000	3.45E-07	1.64E-04
2079	15	78514102	79292536	Asthma	LungCancer	0.7547	0.4838	1.0000	0.5696	0.2341	1.0000	3.80E-07	1.73E-04
777	5	1206610	2106885	IPF	LungCancer	-0.3955	-0.5458	-0.2495	0.1564	0.0623	0.2979	5.09E-07	2.24E-04
349	2	1.65E+08	1.66E+08	Asthma	COPD	1.0000	0.7398	1.0000	1.0000	0.5473	1.0000	6.37E-07	2.57E-04
1592	10	1.18E+08	1.2E+08	Asthma	COPD	0.7089	0.5058	0.9170	0.5026	0.2559	0.8409	6.43E-07	2.57E-04
2206	17	42348004	43460500	Asthma	COPD	0.8502	0.6139	1.0000	0.7228	0.3768	1.0000	6.49E-07	2.57E-04
448	3	27614909	28649810	Asthma	COPD	1.0000	0.7544	1.0000	1.0000	0.5691	1.0000	7.06E-07	2.70E-04
867	5	1.1E+08	1.11E+08	Asthma	COPD	0.9558	0.6302	1.0000	0.9136	0.3972	1.0000	8.01E-07	2.88E-04
2079	15	78514102	79292536	Asthma	COPD	0.8246	0.5768	1.0000	0.6799	0.3328	1.0000	7.93E-07	2.88E-04
109	1	1.5E+08	1.51E+08	Asthma	COPD	0.8656	0.6410	1.0000	0.7493	0.4109	1.0000	9.52E-07	3.23E-04
966	6	32629240	32682213	COPD	Snoring	1.0000	0.6295	1.0000	1.0000	0.3963	1.0000	9.41E-07	3.23E-04
538	3	1.33E+08	1.34E+08	COPD	IPF	0.8742	0.5830	1.0000	0.7642	0.3399	1.0000	1.16E-06	3.82E-04
963	6	32454578	32539567	Asthma	LungCancer	-0.3870	-0.5339	-0.2369	0.1498	0.0561	0.2851	1.21E-06	3.88E-04
1022	6	89974268	91097024	Asthma	COPD	0.5725	0.3850	0.7581	0.3277	0.1482	0.5747	1.50E-06	4.69E-04
1489	10	3225337	3880322	Asthma	COPD	0.6659	0.4596	0.8663	0.4434	0.2113	0.7504	1.54E-06	4.69E-04
2124	16	24014706	25235251	Asthma	LungCancer	1.0000	0.5617	1.0000	1.0000	0.3155	1.0000	1.73E-06	5.13E-04
2070	15	66355635	67396520	Asthma	COPD	0.7270	0.4991	0.9916	0.5285	0.2491	0.9832	2.01E-06	5.79E-04
2449	21	34383795	35729261	Asthma	COPD	0.8071	0.5727	1.0000	0.6514	0.3280	1.0000	2.05E-06	5.79E-04
2027	14	1.01E+08	1.02E+08	Asthma	Snoring	0.7348	0.4548	1.0000	0.5400	0.2068	1.0000	2.15E-06	5.94E-04
1845	12	1.16E+08	1.17E+08	Asthma	IPF	0.9122	0.5837	1.0000	0.8321	0.3407	1.0000	2.26E-06	6.10E-04
2203	17	37361179	38880481	Asthma	COPD	0.5284	0.3455	0.7251	0.2793	0.1193	0.5257	2.73E-06	7.20E-04
695	4	1.06E+08	1.08E+08	Asthma	COPD	0.6780	0.4634	0.8953	0.4596	0.2147	0.8016	2.86E-06	7.22E-04
1067	6	1.43E+08	1.45E+08	Asthma	COPD	0.7259	0.4990	0.9622	0.5269	0.2490	0.9258	2.85E-06	7.22E-04
2128	16	29043178	31384210	Asthma	Snoring	0.9644	0.5967	1.0000	0.9301	0.3560	1.0000	3.02E-06	7.47E-04
860	5	1.02E+08	1.03E+08	Asthma	COPD	1.0000	0.6921	1.0000	1.0000	0.4789	1.0000	3.46E-06	8.15E-04
962	6	32208902	32454577	Asthma	LungCancer	0.5348	0.3342	0.7408	0.2860	0.1117	0.5487	3.50E-06	8.15E-04
2286	18	57635822	58527236	Asthma	IPF	1.0000	0.6191	1.0000	1.0000	0.3832	1.0000	3.44E-06	8.15E-04
1495	10	7659873	8771920	Asthma	COPD	0.5433	0.3597	0.7268	0.2952	0.1294	0.5282	3.59E-06	8.19E-04
2210	17	47516225	48722590	Asthma	COPD	0.6025	0.3956	0.8007	0.3630	0.1565	0.6411	3.83E-06	8.58E-04
156	1	2.03E+08	2.04E+08	Asthma	COPD	0.6962	0.4739	0.9346	0.4846	0.2246	0.8735	4.29E-06	9.33E-04
961	6	31427210	32208901	Asthma	COPD	0.6803	0.4497	1.0000	0.4628	0.2022	1.0000	4.35E-06	9.33E-04
1309	8	73838028	75011699	Asthma	COPD	1.0000	0.7250	1.0000	1.0000	0.5256	1.0000	4.40E-06	9.33E-04
2340	19	33785836	34633274	Asthma	LungCancer	-0.9287	-1.0000	-0.5492	0.8624	0.3016	1.0000	4.64E-06	9.66E-04
1389	9	14244748	14902924	Asthma	COPD	0.6918	0.4629	0.9106	0.4786	0.2143	0.8292	5.00E-06	1.02E-03
2209	17	45883902	47516224	Asthma	COPD	0.7065	0.4792	0.9914	0.4991	0.2296	0.9828	5.25E-06	1.06E-03
2422	20	56951774	57924037	Asthma	IPF	0.8940	0.5504	1.0000	0.7992	0.3029	1.0000	5.42E-06	1.07E-03
12	1	9475967	10753427	Asthma	COPD	0.8629	0.6058	1.0000	0.7445	0.3670	1.0000	5.96E-06	1.11E-03
138	1	1.82E+08	1.84E+08	Asthma	COPD	0.6848	0.4552	0.9076	0.4690	0.2072	0.8238	5.74E-06	1.11E-03
507	3	1.01E+08	1.02E+08	Asthma	IPF	0.9191	0.5744	1.0000	0.8447	0.3299	1.0000	5.87E-06	1.11E-03
1182	7	95174848	96564981	Asthma	COPD	0.8878	0.6310	1.0000	0.7882	0.3982	1.0000	5.95E-06	1.11E-03
2339	19	33028100	33785835	Asthma	COPD	0.7770	0.5322	1.0000	0.6037	0.2832	1.0000	6.17E-06	1.13E-03
1361	8	1.36E+08	1.38E+08	COPD	IPF	0.9185	0.5987	1.0000	0.8436	0.3585	1.0000	6.71E-06	1.21E-03
886	5	1.29E+08	1.31E+08	Asthma	COPD	1.0000	0.6952	1.0000	1.0000	0.4833	1.0000	7.01E-06	1.23E-03
1337	8	1.09E+08	1.1E+08	Asthma	COPD	0.8507	0.6075	1.0000	0.7237	0.3690	1.0000	7.06E-06	1.23E-03
1249	8	9835864	10478851	Asthma	COPD	0.7649	0.5220	1.0000	0.5851	0.2725	1.0000	7.19E-06	1.24E-03
1701	11	94384536	95327210	Asthma	COPD	0.8726	0.6032	1.0000	0.7614	0.3638	1.0000	8.09E-06	1.37E-03
1496	10	8771921	10081279	Asthma	Snoring	0.4605	0.2775	0.6677	0.2121	0.0770	0.4459	8.92E-06	1.49E-03
2138	16	57119890	58508978	COPD	IPF	0.8206	0.5019	1.0000	0.6733	0.2519	1.0000	9.77E-06	1.61E-03
1119	7	20122180	21390644	Asthma	COPD	0.6344	0.4093	0.8860	0.4025	0.1675	0.7850	1.01E-05	1.62E-03
1664	11	51581596	55477633	Asthma	COPD	0.7846	0.5649	0.9886	0.6155	0.3191	0.9773	1.03E-05	1.62E-03

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1682	11	75445254	76518906	Asthma	COPD	0.5164	0.3240	0.7134	0.2667	0.1050	0.5089	1.05E-05	1.62E-03
1736	11	1.31E+08	1.33E+08	COPD	IPF	0.7818	0.4796	1.0000	0.6113	0.2300	1.0000	1.05E-05	1.62E-03
2019	14	92101229	93386328	Asthma	COPD	0.7693	0.5141	1.0000	0.5918	0.2643	1.0000	1.04E-05	1.62E-03
595	3	1.97E+08	1.98E+08	Asthma	COPD	0.6810	0.4531	0.9046	0.4638	0.2053	0.8184	1.07E-05	1.63E-03
1480	9	1.37E+08	1.38E+08	Asthma	Snoring	1.0000	0.5216	1.0000	1.0000	0.2721	1.0000	1.27E-05	1.91E-03
305	2	1.1E+08	1.13E+08	Asthma	COPD	0.7366	0.4809	1.0000	0.5425	0.2313	1.0000	1.29E-05	1.91E-03
724	4	1.36E+08	1.37E+08	COPD	IPF	0.8278	0.5144	1.0000	0.6853	0.2646	1.0000	1.35E-05	1.98E-03
734	4	1.5E+08	1.51E+08	Asthma	COPD	0.8394	0.5756	1.0000	0.7045	0.3313	1.0000	1.44E-05	2.08E-03
738	4	1.55E+08	1.57E+08	Asthma	COPD	0.7597	0.5063	1.0000	0.5771	0.2564	1.0000	1.53E-05	2.19E-03
2408	20	44072211	45673603	COPD	IPF	1.0000	0.6015	1.0000	1.0000	0.3618	1.0000	1.58E-05	2.23E-03
116	1	1.59E+08	1.6E+08	Asthma	IPF	0.9684	0.5861	1.0000	0.9379	0.3435	1.0000	1.61E-05	2.25E-03
1466	9	1.21E+08	1.23E+08	Asthma	COPD	0.6923	0.4488	0.9390	0.4793	0.2015	0.8817	1.81E-05	2.50E-03
2079	15	78514102	79292536	IPF	LungCancer	0.5247	0.2941	0.8306	0.2753	0.0865	0.6898	2.14E-05	2.92E-03
2463	22	17587475	18535225	Asthma	COPD	0.6318	0.4041	0.8658	0.3991	0.1633	0.7497	2.20E-05	2.97E-03
922	5	1.76E+08	1.78E+08	Asthma	Snoring	0.6581	0.3731	1.0000	0.4330	0.1392	1.0000	2.26E-05	3.01E-03
2072	15	69089816	70767983	Asthma	COPD	0.6777	0.4288	0.9486	0.4592	0.1839	0.8998	2.28E-05	3.01E-03
1215	7	1.39E+08	1.4E+08	Asthma	COPD	0.5985	0.3724	0.8125	0.3582	0.1387	0.6602	2.32E-05	3.03E-03
13	1	10753428	11709173	IPF	Snoring	-0.9861	-1.0000	-0.5783	0.9724	0.3345	1.0000	2.42E-05	3.12E-03
1698	11	90967062	92209168	Asthma	IPF	-1.0000	-1.0000	-0.5513	1.0000	0.3040	1.0000	2.49E-05	3.18E-03
300	2	1.03E+08	1.05E+08	Asthma	COPD	0.5641	0.3493	0.7666	0.3182	0.1220	0.5876	2.59E-05	3.27E-03
569	3	1.67E+08	1.69E+08	Asthma	COPD	0.7291	0.4695	1.0000	0.5316	0.2205	1.0000	2.78E-05	3.40E-03
1472	9	1.29E+08	1.3E+08	Asthma	COPD	0.7697	0.5067	1.0000	0.5925	0.2568	1.0000	2.75E-05	3.40E-03
2049	15	39238841	40604780	Asthma	COPD	0.8657	0.5775	1.0000	0.7495	0.3335	1.0000	2.78E-05	3.40E-03
34	1	35201627	36855139	Asthma	COPD	0.6684	0.4267	0.8987	0.4468	0.1821	0.8077	2.84E-05	3.42E-03
337	2	1.47E+08	1.5E+08	COPD	LungCancer	-0.8779	-1.0000	-0.4968	0.7708	0.2468	1.0000	2.85E-05	3.42E-03
2438	21	22201891	23266941	IPF	Snoring	-1.0000	-1.0000	-0.4937	1.0000	0.2437	1.0000	3.12E-05	3.70E-03
53	1	61377616	62778733	Asthma	IPF	0.7552	0.4314	1.0000	0.5704	0.1861	1.0000	3.76E-05	4.02E-03
157	1	2.04E+08	2.05E+08	COPD	IPF	0.8284	0.4991	1.0000	0.6863	0.2491	1.0000	3.74E-05	4.02E-03
267	2	59251997	60775066	Asthma	IPF	0.6869	0.3885	1.0000	0.4718	0.1510	1.0000	3.63E-05	4.02E-03
279	2	73544291	75148103	Asthma	COPD	0.6378	0.4005	0.8672	0.4068	0.1604	0.7521	3.46E-05	4.02E-03
306	2	1.13E+08	1.14E+08	Asthma	COPD	0.9034	0.6135	1.0000	0.8162	0.3764	1.0000	3.55E-05	4.02E-03
938	6	15069422	16566882	Asthma	COPD	0.9564	0.6527	1.0000	0.9147	0.4260	1.0000	3.70E-05	4.02E-03
959	6	31250557	31320268	Asthma	LungCancer	0.4794	0.2752	0.6804	0.2298	0.0757	0.4630	3.61E-05	4.02E-03
967	6	32682214	32897998	Asthma	COPD	0.4885	0.2893	0.6825	0.2386	0.0837	0.4658	3.55E-05	4.02E-03
2065	15	59901117	61130595	Asthma	COPD	0.6399	0.3938	0.9347	0.4094	0.1551	0.8737	3.74E-05	4.02E-03
2193	17	20402495	21432873	COPD	IPF	0.5660	0.3250	0.8102	0.3204	0.1056	0.6563	3.57E-05	4.02E-03
2347	19	41004106	41733463	COPD	LungCancer	0.5063	0.2774	0.7486	0.2564	0.0769	0.5603	3.71E-05	4.02E-03
9	1	6136815	7711794	Asthma	Snoring	0.7601	0.4290	1.0000	0.5777	0.1841	1.0000	4.05E-05	4.29E-03
2105	16	3379997	4816145	Asthma	COPD	1.0000	0.6721	1.0000	1.0000	0.4517	1.0000	4.13E-05	4.34E-03
24	1	22145630	22740287	COPD	IPF	0.7771	0.4617	1.0000	0.6039	0.2132	1.0000	4.25E-05	4.43E-03
2428	20	61470769	62179241	COPD	LungCancer	0.4991	0.2700	0.7573	0.2491	0.0729	0.5735	4.42E-05	4.56E-03
462	3	44141694	45844191	Asthma	COPD	0.9782	0.6626	1.0000	0.9568	0.4390	1.0000	4.46E-05	4.56E-03
2282	18	53762997	54957867	COPD	LungCancer	1.0000	0.4442	1.0000	1.0000	0.1976	1.0000	4.74E-05	4.81E-03
2167	16	85146806	86058597	COPD	Snoring	-1.0000	-1.0000	-0.4690	1.0000	0.2200	1.0000	4.79E-05	4.82E-03
836	5	73314062	74245354	Asthma	COPD	1.0000	0.5722	1.0000	1.0000	0.3274	1.0000	5.06E-05	5.05E-03
11	1	8580988	9475966	LungCancer	Snoring	1.0000	0.4795	1.0000	1.0000	0.2299	1.0000	5.14E-05	5.08E-03
533	3	1.27E+08	1.29E+08	Asthma	COPD	0.6147	0.3805	0.8493	0.3779	0.1448	0.7214	5.38E-05	5.28E-03
943	6	19449153	20418020	Asthma	COPD	0.6529	0.3994	0.9137	0.4262	0.1595	0.8349	5.58E-05	5.43E-03
594	3	1.96E+08	1.97E+08	Asthma	COPD	0.6301	0.3845	0.8806	0.3971	0.1479	0.7755	5.67E-05	5.47E-03
694	4	1.05E+08	1.06E+08	Asthma	IPF	-1.0000	-1.0000	-0.5013	1.0000	0.2513	1.0000	5.80E-05	5.55E-03
34	1	35201627	36855139	COPD	LungCancer	0.6893	0.3718	1.0000	0.4752	0.1382	1.0000	6.19E-05	5.88E-03
75	1	86761555	87667572	Asthma	IPF	0.9507	0.5490	1.0000	0.9037	0.3013	1.0000	6.29E-05	5.93E-03
402	2	2.25E+08	2.26E+08	Asthma	COPD	0.8960	0.5986	1.0000	0.8029	0.3583	1.0000	6.74E-05	6.29E-03
1186	7	99465541	1.01E+08	IPF	Snoring	0.7801	0.4203	1.0000	0.6085	0.1766	1.0000	6.87E-05	6.29E-03
2020	14	93386329	94892240	Asthma	COPD	0.4913	0.2891	0.6830	0.2413	0.0836	0.4665	6.80E-05	6.29E-03
2138	16	57119890	58508978	Asthma	LungCancer	1.0000	0.4882	1.0000	1.0000	0.2383	1.0000	6.94E-05	6.29E-03
2271	18	41425455	42974165	Asthma	COPD	0.7301	0.4544	1.0000	0.5330	0.2065	1.0000	6.90E-05	6.29E-03
899	5	1.5E+08	1.51E+08	LungCancer	Snoring	0.6857	0.3676	1.0000	0.4702	0.1351	1.0000	7.78E-05	6.95E-03
2211	17	48722591	49909298	COPD	IPF	0.8117	0.4606	1.0000	0.6588	0.2122	1.0000	7.79E-05	6.95E-03
1641	11	28577719	29530460	Asthma	LungCancer	0.9018	0.5009	1.0000	0.8133	0.2509	1.0000	8.03E-05	7.11E-03
2429	20	62179242	62963627	Asthma	COPD	0.6618	0.3969	0.9244	0.4380	0.1575	0.8546	8.12E-05	7.14E-03
2020	14	93386329	94892240	COPD	IPF	0.6028	0.3347	0.9255	0.3634	0.1120	0.8566	8.19E-05	7.15E-03
1005	6	72290724	73170168	Asthma	COPD	0.8206	0.5348	1.0000	0.6734	0.2860	1.0000	8.47E-05	7.29E-03
2189	17	15308723	16405207	COPD	IPF	0.8243	0.4893	1.0000	0.6795	0.2395	1.0000	8.43E-05	7.29E-03
1917	13	77460045	78693310	Asthma	IPF	-1.0000	-1.0000	-0.5252	1.0000	0.2758	1.0000	8.54E-05	7.29E-03
2249	18	10675549	11872226	Asthma	COPD	0.9012	0.5854	1.0000	0.8122	0.3427	1.0000	8.67E-05	7.35E-03
521	3	1.16E+08	1.17E+08	Asthma	COPD	0.7091	0.4367	0.9962	0.5029	0.1907	0.9924	8.93E-05	7.36E-03
959	6	31250557	31320268	Asthma	COPD	0.7456	0.4845	1.0000	0.5559	0.2348	1.0000	8.93E-05	7.36E-03
1471	9	1.27E+08	1.29E+08	Asthma	COPD	0.6125	0.3590	0.8442	0.3752	0.1289	0.7126	8.76E-05	7.36E-03
2457	21	43081435	43812791	IPF	Snoring	-0.8528	-1.0000	-0.4478	0.7273	0.2005	1.0000	8.88E-05	7.36E-03
1264	8	19488889	20135628	Asthma	COPD	0.7394	0.4634	1.0000	0.5467	0.2147	1.0000	1.00E-04	8.20E-03
1723	11	1.17E+08	1.19E+08	Asthma	COPD	0.5631	0.3197	0.7891	0.3171	0.1022	0.6227	1.02E-04	8.29E-03
2066	15	61130596	62106138	Asthma	COPD	0.6763	0.4039	0.9534	0.4574	0.1632	0.9089	1.04E-04	8.41E-03
695	4	1.06E+08	1.08E+08	IPF	Snoring	0.8857	0.4666	1.0000	0.7845	0.2177	1.0000	1.08E-04	8.65E-03
101	1	1.15E+08	1.16E+08	IPF	Snoring	-0.7584	-1.0000	-0.4000	0.5752	0.1600	1.0000	1.10E-04	8.76E-03
1801	12	66114644	67183620	Asthma	COPD	0.9041	0.5854	1.0000	0.8173	0.3427	1.0000	1.11E-04	8.81E-03

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893	5	1.41E+08	1.43E+08	Asthma	COPD	0.6503	0.3839	1.0000	0.4229	0.1473	1.0000	1.15E-04	9.06E-03
886	5	1.29E+08	1.31E+08	COPD	Snoring	1.0000	0.4721	1.0000	1.0000	0.2229	1.0000	1.19E-04	9.22E-03
1626	11	13364728	15126767	IPF	Snoring	1.0000	0.4627	1.0000	1.0000	0.2141	1.0000	1.19E-04	9.22E-03
776	5	598321	1206609	COPD	IPF	-0.4281	-0.6551	-0.2156	0.1832	0.0465	0.4292	1.25E-04	9.54E-03
962	6	32208902	32454577	Asthma	COPD	0.6043	0.3362	0.8974	0.3652	0.1131	0.8054	1.26E-04	9.54E-03
1378	9	5437592	6859791	Asthma	IPF	0.4254	0.2214	0.6753	0.1809	0.0490	0.4560	1.25E-04	9.54E-03
2307	19	762047	1515920	Asthma	COPD	0.5729	0.3310	0.8182	0.3283	0.1095	0.6695	1.24E-04	9.54E-03
2362	19	54042241	54602370	COPD	IPF	0.4148	0.2191	0.6152	0.1720	0.0480	0.3785	1.27E-04	9.54E-03
731	4	1.46E+08	1.47E+08	Asthma	COPD	0.9275	0.5908	1.0000	0.8602	0.3490	1.0000	1.33E-04	9.91E-03
61	1	70992906	72513119	Asthma	COPD	0.9122	0.5809	1.0000	0.8321	0.3374	1.0000	1.39E-04	1.01E-02
211	2	7108209	7966709	COPD	LungCancer	-0.8864	-1.0000	-0.4627	0.7857	0.2141	1.0000	1.38E-04	1.01E-02
965	6	32586785	32629239	Asthma	LungCancer	0.2892	0.1420	0.4407	0.0837	0.0202	0.1942	1.39E-04	1.01E-02
1838	12	1.08E+08	1.09E+08	Asthma	COPD	0.7823	0.4954	1.0000	0.6121	0.2454	1.0000	1.36E-04	1.01E-02
2230	17	73741322	74908266	Asthma	IPF	0.8599	0.4556	1.0000	0.7394	0.2076	1.0000	1.37E-04	1.01E-02
701	4	1.14E+08	1.15E+08	Asthma	COPD	0.7651	0.4559	1.0000	0.5854	0.2078	1.0000	1.43E-04	1.02E-02
931	6	5378214	6621937	Asthma	COPD	1.0000	0.6014	1.0000	1.0000	0.3617	1.0000	1.42E-04	1.02E-02
299	2	1.02E+08	1.03E+08	Asthma	COPD	0.5085	0.2865	0.7659	0.2586	0.0821	0.5866	1.45E-04	1.02E-02
964	6	32539568	32586784	Asthma	IPF	0.1670	0.0799	0.2545	0.0279	0.0064	0.0648	1.45E-04	1.02E-02
2184	17	10572618	11778164	COPD	LungCancer	0.5890	0.3044	0.9414	0.3469	0.0927	0.8862	1.46E-04	1.03E-02
2107	16	5782969	6446081	IPF	Snoring	0.7449	0.3790	1.0000	0.5549	0.1436	1.0000	1.57E-04	1.10E-02
2254	18	15220935	20009696	Asthma	LungCancer	-0.8725	-1.0000	-0.4454	0.7613	0.1984	1.0000	1.59E-04	1.11E-02
1500	10	12581572	13208061	LungCancer	Snoring	1.0000	0.5049	1.0000	1.0000	0.2549	1.0000	1.67E-04	1.15E-02
1738	11	1.34E+08	1.34E+08	Asthma	COPD	0.7385	0.4445	1.0000	0.5454	0.1976	1.0000	1.72E-04	1.18E-02
2232	17	75619257	76596287	Asthma	COPD	0.7897	0.4863	1.0000	0.6236	0.2365	1.0000	1.73E-04	1.18E-02
1852	12	1.25E+08	1.26E+08	LungCancer	Snoring	-0.7492	-1.0000	-0.3737	0.5613	0.1396	1.0000	1.76E-04	1.19E-02
349	2	1.65E+08	1.66E+08	Asthma	IPF	1.0000	0.5094	1.0000	1.0000	0.2595	1.0000	1.77E-04	1.20E-02
619	4	20086839	21416380	IPF	LungCancer	-0.8248	-1.0000	-0.4169	0.6803	0.1738	1.0000	1.82E-04	1.22E-02
2450	21	35729262	37303548	Asthma	Snoring	0.5721	0.2890	0.9726	0.3273	0.0835	0.9459	1.92E-04	1.28E-02
2122	16	20351262	22667048	Asthma	COPD	0.7475	0.4448	1.0000	0.5587	0.1979	1.0000	1.94E-04	1.28E-02
1164	7	70144615	71215741	Asthma	COPD	0.6490	0.3776	0.9637	0.4212	0.1426	0.9288	1.95E-04	1.29E-02
2012	14	84087373	85562936	IPF	Snoring	0.8639	0.4525	1.0000	0.7463	0.2047	1.0000	1.98E-04	1.30E-02
1334	8	1.05E+08	1.07E+08	Asthma	COPD	0.7105	0.4090	1.0000	0.5049	0.1673	1.0000	2.02E-04	1.31E-02
1684	11	77719871	78912252	COPD	LungCancer	0.8923	0.4564	1.0000	0.7961	0.2083	1.0000	2.01E-04	1.31E-02
2102	16	60169	1049079	Asthma	COPD	0.5234	0.2941	0.7523	0.2739	0.0865	0.5659	2.03E-04	1.31E-02
470	3	56954879	58557718	Asthma	COPD	0.8757	0.5452	1.0000	0.7669	0.2972	1.0000	2.08E-04	1.33E-02
1493	10	6234719	6897037	Asthma	COPD	0.6219	0.3534	0.9549	0.3867	0.1249	0.9118	2.13E-04	1.36E-02
812	5	41279591	42856332	Asthma	COPD	1.0000	0.5686	1.0000	1.0000	0.3233	1.0000	2.15E-04	1.36E-02
2267	18	37679128	38498381	Asthma	COPD	0.6669	0.3924	0.9534	0.4447	0.1540	0.9090	2.20E-04	1.39E-02
445	3	24270190	25516193	IPF	LungCancer	-0.6946	-1.0000	-0.3390	0.4825	0.1149	1.0000	2.23E-04	1.40E-02
1375	9	3079046	4025355	Asthma	COPD	0.8834	0.5442	1.0000	0.7803	0.2962	1.0000	2.27E-04	1.41E-02
2128	16	29043178	31384210	COPD	Snoring	0.8174	0.4176	1.0000	0.6681	0.1744	1.0000	2.29E-04	1.41E-02
2347	19	41004106	41733463	Asthma	COPD	0.5949	0.3372	0.8471	0.3539	0.1137	0.7175	2.29E-04	1.41E-02
591	3	1.94E+08	1.95E+08	IPF	LungCancer	0.8798	0.4395	1.0000	0.7740	0.1931	1.0000	2.32E-04	1.42E-02
610	4	10370667	11050119	IPF	LungCancer	1.0000	0.4459	1.0000	1.0000	0.1989	1.0000	2.36E-04	1.42E-02
887	5	1.31E+08	1.33E+08	COPD	IPF	0.8453	0.4523	1.0000	0.7146	0.2046	1.0000	2.38E-04	1.42E-02
965	6	32586785	32629239	COPD	IPF	0.3602	0.1820	0.5365	0.1298	0.0331	0.2878	2.31E-04	1.42E-02
1487	10	1872961	2637065	Asthma	COPD	1.0000	0.5663	1.0000	1.0000	0.3207	1.0000	2.37E-04	1.42E-02
2115	16	11022543	11916631	Asthma	COPD	0.5214	0.2903	0.7644	0.2718	0.0843	0.5843	2.34E-04	1.42E-02
2298	18	70540350	71491860	Asthma	Snoring	0.8207	0.4156	1.0000	0.6736	0.1727	1.0000	2.37E-04	1.42E-02
9	1	6136815	7711794	Asthma	COPD	0.6313	0.3496	0.9010	0.3985	0.1222	0.8119	2.44E-04	1.43E-02
95	1	1.08E+08	1.09E+08	Asthma	COPD	0.6182	0.3489	0.8878	0.3821	0.1217	0.7882	2.42E-04	1.43E-02
420	2	2.42E+08	2.43E+08	Asthma	COPD	0.4984	0.2684	0.7463	0.2484	0.0720	0.5569	2.45E-04	1.43E-02
1096	7	1366973	2473749	Asthma	COPD	0.7874	0.4766	1.0000	0.6199	0.2271	1.0000	2.44E-04	1.43E-02
1642	11	29530461	30570129	COPD	IPF	1.0000	0.4509	1.0000	1.0000	0.2033	1.0000	2.45E-04	1.43E-02
1555	10	73514215	75694023	Asthma	LungCancer	0.7330	0.3751	1.0000	0.5373	0.1407	1.0000	2.49E-04	1.43E-02
2030	14	1.04E+08	1.05E+08	COPD	Snoring	0.9633	0.4848	1.0000	0.9279	0.2350	1.0000	2.49E-04	1.43E-02
2481	22	36135969	37364004	COPD	IPF	0.8429	0.4467	1.0000	0.7106	0.1996	1.0000	2.55E-04	1.46E-02
881	5	1.24E+08	1.25E+08	Asthma	COPD	0.6902	0.3963	0.9941	0.4764	0.1571	0.9882	2.58E-04	1.47E-02
2395	20	24487129	25181038	Asthma	COPD	0.8455	0.5198	1.0000	0.7149	0.2702	1.0000	2.57E-04	1.47E-02
1913	13	73114510	74437635	Asthma	COPD	0.5211	0.2759	0.7580	0.2715	0.0761	0.5746	2.68E-04	1.51E-02
70	1	80781443	82123368	IPF	Snoring	0.6963	0.3354	1.0000	0.4848	0.1125	1.0000	2.71E-04	1.52E-02
1267	8	21650454	22895018	Asthma	Snoring	0.7087	0.3568	1.0000	0.5023	0.1273	1.0000	2.77E-04	1.55E-02
29	1	29188427	30405182	COPD	IPF	0.8626	0.4604	1.0000	0.7440	0.2120	1.0000	2.87E-04	1.57E-02
152	1	1.98E+08	1.99E+08	Asthma	COPD	0.6190	0.3451	0.9016	0.3832	0.1191	0.8129	2.90E-04	1.57E-02
202	2	789196	1376545	Asthma	IPF	-0.9585	-1.0000	-0.4825	0.9188	0.2328	1.0000	2.89E-04	1.57E-02
872	5	1.15E+08	1.16E+08	IPF	LungCancer	-1.0000	-1.0000	-0.4416	1.0000	0.1950	1.0000	2.89E-04	1.57E-02
1744	12	3871115	4967643	COPD	Snoring	-0.7387	-1.0000	-0.3615	0.5456	0.1307	1.0000	2.89E-04	1.57E-02
1756	12	16136743	17374895	IPF	Snoring	-0.7620	-1.0000	-0.3799	0.5807	0.1443	1.0000	2.82E-04	1.57E-02
2073	15	70767984	72058129	Asthma	COPD	0.5961	0.3248	0.8574	0.3553	0.1055	0.7351	2.87E-04	1.57E-02
2321	19	13968320	14891100	Asthma	COPD	0.5809	0.3199	0.8310	0.3375	0.1023	0.6906	2.91E-04	1.57E-02
2163	16	82310205	83077869	COPD	IPF	1.0000	0.5173	1.0000	1.0000	0.2676	1.0000	2.98E-04	1.60E-02
109	1	1.5E+08	1.51E+08	Asthma	Snoring	-0.6455	-1.0000	-0.3184	0.4166	0.1014	1.0000	3.07E-04	1.64E-02
1476	9	1.33E+08	1.34E+08	COPD	Snoring	0.7946	0.3904	1.0000	0.6314	0.1524	1.0000	3.10E-04	1.65E-02
67	1	77895395	79065286	Asthma	IPF	1.0000	0.4206	1.0000	1.0000	0.1769	1.0000	3.12E-04	1.65E-02
1797	12	61737954	63055936	IPF	Snoring	1.0000	0.4270	1.0000	1.0000	0.1823	1.0000	3.14E-04	1.66E-02
1361	8	1.36E+08	1.38E+08	Asthma	IPF	0.8211	0.4168	1.0000	0.6743	0.1737	1.0000	3.18E-04	1.67E-02

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1233	8	660415	1161824	Asthma	COPD	0.6925	0.3982	1.0000	0.4795	0.1585	1.0000	3.20E-04	1.67E-02
405	2	2.29E+08	2.3E+08	Asthma	COPD	0.6779	0.3828	0.9726	0.4596	0.1466	0.9460	3.36E-04	1.75E-02
2359	19	51903805	52678748	Asthma	LungCancer	0.8311	0.4249	1.0000	0.6908	0.1806	1.0000	3.39E-04	1.75E-02
2126	16	26154123	27443061	Asthma	COPD	0.6162	0.3357	1.0000	0.3797	0.1127	1.0000	3.44E-04	1.77E-02
11	1	8580988	9475966	Asthma	COPD	0.5070	0.2704	0.7311	0.2570	0.0731	0.5345	3.46E-04	1.78E-02
2012	14	84087373	85562936	Asthma	COPD	0.7143	0.4067	1.0000	0.5103	0.1654	1.0000	3.48E-04	1.78E-02
1483	9	1.39E+08	1.4E+08	Asthma	COPD	0.6402	0.3596	0.9434	0.4099	0.1293	0.8899	3.51E-04	1.79E-02
2358	19	51259179	51903804	COPD	IPF	0.4846	0.2456	0.7519	0.2348	0.0603	0.5654	3.55E-04	1.80E-02
662	4	66597447	67616362	Asthma	COPD	1.0000	0.5399	1.0000	1.0000	0.2923	1.0000	3.59E-04	1.81E-02
62	1	72513120	73992170	Asthma	COPD	0.5948	0.3262	0.8497	0.3538	0.1064	0.7220	3.60E-04	1.81E-02
67	1	77895395	79065286	IPF	LungCancer	0.6944	0.3455	1.0000	0.4822	0.1194	1.0000	3.64E-04	1.81E-02
1374	9	2441121	3079045	Asthma	LungCancer	0.9337	0.4537	1.0000	0.8719	0.2059	1.0000	3.62E-04	1.81E-02
44	1	49185415	51777577	Asthma	Snoring	-0.8784	-1.0000	-0.4282	0.7716	0.1834	1.0000	3.69E-04	1.83E-02
721	4	1.33E+08	1.34E+08	Asthma	COPD	0.9547	0.5917	1.0000	0.9115	0.3501	1.0000	3.70E-04	1.83E-02
1888	13	45476447	46493236	Asthma	COPD	0.8019	0.4696	1.0000	0.6431	0.2205	1.0000	3.73E-04	1.84E-02
2229	17	72383473	73741321	COPD	IPF	0.7498	0.3758	1.0000	0.5623	0.1412	1.0000	3.76E-04	1.84E-02
2050	15	40604781	42332685	Asthma	IPF	-0.7040	-1.0000	-0.3256	0.4956	0.1060	1.0000	3.78E-04	1.85E-02
112	1	1.53E+08	1.55E+08	COPD	LungCancer	0.7964	0.3871	1.0000	0.6342	0.1499	1.0000	3.81E-04	1.85E-02
2114	16	10351809	11022542	Asthma	COPD	0.6570	0.3758	0.9803	0.4317	0.1413	0.9610	3.82E-04	1.85E-02
116	1	1.59E+08	1.6E+08	COPD	IPF	0.6583	0.3381	1.0000	0.4333	0.1143	1.0000	3.90E-04	1.86E-02
746	4	1.64E+08	1.65E+08	Asthma	LungCancer	0.9346	0.4504	1.0000	0.8734	0.2029	1.0000	3.89E-04	1.86E-02
957	6	30715007	31106493	Asthma	COPD	0.5821	0.3078	0.9593	0.3388	0.0947	0.9203	3.91E-04	1.86E-02
1233	8	660415	1161824	COPD	Snoring	0.8084	0.4086	1.0000	0.6535	0.1669	1.0000	3.90E-04	1.86E-02
764	4	1.81E+08	1.82E+08	COPD	IPF	0.6524	0.3267	1.0000	0.4257	0.1067	1.0000	4.03E-04	1.91E-02
636	4	35993839	36671801	Asthma	IPF	1.0000	0.4828	1.0000	1.0000	0.2331	1.0000	4.08E-04	1.93E-02
1478	9	1.35E+08	1.36E+08	Asthma	COPD	0.7354	0.4155	1.0000	0.5408	0.1726	1.0000	4.11E-04	1.94E-02
1252	8	12296850	12947935	Asthma	COPD	1.0000	0.5955	1.0000	1.0000	0.3546	1.0000	4.14E-04	1.94E-02
1396	9	19463293	20483880	IPF	Snoring	1.0000	0.4383	1.0000	1.0000	0.1921	1.0000	4.19E-04	1.96E-02
254	2	48171059	49114132	Asthma	COPD	1.0000	0.5591	1.0000	1.0000	0.3126	1.0000	4.34E-04	2.00E-02
468	3	54892587	55616625	Asthma	COPD	0.5251	0.2667	0.7617	0.2758	0.0712	0.5802	4.41E-04	2.00E-02
939	6	16566883	17391994	Asthma	COPD	0.7264	0.4112	1.0000	0.5277	0.1692	1.0000	4.42E-04	2.00E-02
1610	11	87150	1061399	COPD	IPF	0.4756	0.2260	0.7731	0.2262	0.0511	0.5977	4.38E-04	2.00E-02
1851	12	1.23E+08	1.25E+08	Asthma	LungCancer	0.8299	0.3874	1.0000	0.6887	0.1503	1.0000	4.40E-04	2.00E-02
2207	17	43460501	44865832	Asthma	COPD	0.6813	0.3841	1.0000	0.4642	0.1475	1.0000	4.35E-04	2.00E-02
2236	17	79333775	80459149	COPD	IPF	0.8781	0.4625	1.0000	0.7711	0.2139	1.0000	4.36E-04	2.00E-02
2405	20	41351515	42185671	Asthma	COPD	0.9485	0.5782	1.0000	0.8996	0.3343	1.0000	4.38E-04	2.00E-02
193	1	2.42E+08	2.42E+08	COPD	IPF	0.7313	0.3703	1.0000	0.5347	0.1371	1.0000	4.67E-04	2.08E-02
232	2	29627933	30575619	Asthma	LungCancer	-0.6473	-1.0000	-0.3035	0.4190	0.0921	1.0000	4.65E-04	2.08E-02
552	3	1.5E+08	1.51E+08	Asthma	COPD	0.7529	0.4375	1.0000	0.5668	0.1914	1.0000	4.67E-04	2.08E-02
824	5	56896891	57895012	Asthma	IPF	0.7039	0.3474	1.0000	0.4954	0.1207	1.0000	4.63E-04	2.08E-02
2192	17	18900979	20402494	Asthma	COPD	0.5567	0.2973	0.7941	0.3099	0.0884	0.6306	4.63E-04	2.08E-02
2449	21	34383795	35729261	COPD	IPF	0.5408	0.2656	0.8441	0.2925	0.0705	0.7125	4.74E-04	2.10E-02
1090	6	1.67E+08	1.68E+08	Asthma	Snoring	-0.9357	-1.0000	-0.4273	0.8755	0.1826	1.0000	4.77E-04	2.10E-02
888	5	1.33E+08	1.35E+08	COPD	LungCancer	0.9697	0.4490	1.0000	0.9404	0.2016	1.0000	4.83E-04	2.12E-02
2012	14	84087373	85562936	COPD	Snoring	0.7161	0.3317	1.0000	0.5128	0.1100	1.0000	4.83E-04	2.12E-02
1746	12	6023701	6948954	Asthma	IPF	0.7087	0.3341	1.0000	0.5023	0.1116	1.0000	4.87E-04	2.12E-02
157	1	2.04E+08	2.05E+08	Asthma	IPF	0.7319	0.3464	1.0000	0.5357	0.1201	1.0000	5.03E-04	2.16E-02
629	4	30455556	31395092	Asthma	COPD	1.0000	0.5611	1.0000	1.0000	0.3148	1.0000	5.03E-04	2.16E-02
808	5	36431968	37925487	Asthma	IPF	-1.0000	-1.0000	-0.3340	1.0000	0.1118	1.0000	5.01E-04	2.16E-02
2056	15	49260007	50195876	Asthma	COPD	0.6751	0.3883	0.9638	0.4557	0.1508	0.9290	4.97E-04	2.16E-02
2347	19	41004106	41733463	COPD	IPF	0.5354	0.2625	0.8328	0.2867	0.0689	0.6936	4.99E-04	2.16E-02
129	1	1.71E+08	1.72E+08	IPF	LungCancer	-0.9292	-1.0000	-0.4453	0.8633	0.1983	1.0000	5.07E-04	2.17E-02
1632	11	20686337	21442722	COPD	LungCancer	0.9339	0.4375	1.0000	0.8721	0.1914	1.0000	5.14E-04	2.19E-02
118	1	1.61E+08	1.62E+08	Asthma	COPD	0.5991	0.3236	0.8745	0.3590	0.1047	0.7648	5.31E-04	2.24E-02
1948	13	1.1E+08	1.11E+08	COPD	IPF	0.5890	0.2883	0.9320	0.3469	0.0831	0.8686	5.31E-04	2.24E-02
1296	8	59555978	60476248	Asthma	COPD	0.7087	0.3877	1.0000	0.5022	0.1503	1.0000	5.35E-04	2.24E-02
2435	21	19479025	20407307	IPF	LungCancer	0.6298	0.2952	1.0000	0.3967	0.0872	1.0000	5.33E-04	2.24E-02
35	1	36855140	38474036	Asthma	COPD	0.6099	0.3213	0.9026	0.3720	0.1032	0.8147	5.44E-04	2.25E-02
196	1	2.45E+08	2.46E+08	COPD	IPF	0.8205	0.4088	1.0000	0.6732	0.1671	1.0000	5.41E-04	2.25E-02
1267	8	21650454	22895018	Asthma	LungCancer	0.8670	0.3944	1.0000	0.7517	0.1560	1.0000	5.44E-04	2.25E-02
1434	9	90135155	90890979	Asthma	COPD	0.6893	0.3856	1.0000	0.4752	0.1487	1.0000	5.39E-04	2.25E-02
415	2	2.38E+08	2.39E+08	Asthma	COPD	0.4559	0.2210	0.6577	0.2079	0.0488	0.4326	5.51E-04	2.27E-02
2112	16	9104470	9754796	Asthma	COPD	0.7994	0.4614	1.0000	0.6390	0.2129	1.0000	5.53E-04	2.27E-02
1446	9	1.02E+08	1.03E+08	Asthma	COPD	0.5273	0.2704	0.7974	0.2781	0.0731	0.6358	5.65E-04	2.31E-02
2184	17	10572618	11778164	IPF	Snoring	-0.9270	-1.0000	-0.4190	0.8592	0.1756	1.0000	5.69E-04	2.32E-02
507	3	1.01E+08	1.02E+08	Asthma	COPD	0.8739	0.5073	1.0000	0.7637	0.2573	1.0000	5.72E-04	2.33E-02
399	2	2.22E+08	2.23E+08	Asthma	COPD	0.5993	0.3189	0.8717	0.3591	0.1017	0.7599	5.80E-04	2.35E-02
2017	14	89482884	90662836	IPF	LungCancer	-0.8525	-1.0000	-0.3825	0.7267	0.1463	1.0000	5.82E-04	2.35E-02
2118	16	13893408	15921108	Asthma	COPD	0.8802	0.5060	1.0000	0.7748	0.2560	1.0000	5.88E-04	2.36E-02
362	2	1.78E+08	1.79E+08	COPD	IPF	0.9897	0.5228	1.0000	0.9794	0.2733	1.0000	5.96E-04	2.39E-02
1039	6	1.09E+08	1.11E+08	Asthma	COPD	0.7752	0.4334	1.0000	0.6009	0.1878	1.0000	5.97E-04	2.39E-02
101	1	1.15E+08	1.16E+08	Asthma	COPD	0.7730	0.4311	1.0000	0.5975	0.1858	1.0000	6.09E-04	2.40E-02
350	2	1.66E+08	1.67E+08	Asthma	COPD	0.7745	0.4331	1.0000	0.5999	0.1876	1.0000	6.19E-04	2.40E-02
428	3	5496183	6421145	Asthma	COPD	0.8586	0.5019	1.0000	0.7372	0.2519	1.0000	6.05E-04	2.40E-02
436	3	14312008	15150876	COPD	Snoring	0.7355	0.3436	1.0000	0.5409	0.1180	1.0000	6.20E-04	2.40E-02
814	5	44049879	45305566	Asthma	COPD	0.7107	0.3862	1.0000	0.5051	0.1492	1.0000	6.10E-04	2.40E-02

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965	6	32586785	32629239	IPF	LungCancer	0.3844	0.1690	0.6033	0.1478	0.0286	0.3639	6.08E-04	2.40E-02
1029	6	98173004	99678876	Asthma	COPD	0.6293	0.3402	0.9888	0.3960	0.1157	0.9778	6.23E-04	2.40E-02
1102	7	6716906	7167610	Asthma	COPD	0.7926	0.4626	1.0000	0.6282	0.2140	1.0000	6.26E-04	2.40E-02
1551	10	69904171	71050504	Asthma	Snoring	0.7705	0.3578	1.0000	0.5937	0.1280	1.0000	6.27E-04	2.40E-02
1563	10	83596351	84679429	Asthma	Snoring	-0.9076	-1.0000	-0.4224	0.8237	0.1784	1.0000	6.16E-04	2.40E-02
1883	13	40091624	41003943	Asthma	COPD	0.7656	0.4238	1.0000	0.5862	0.1796	1.0000	6.25E-04	2.40E-02
2021	14	94892241	95946792	Asthma	COPD	0.7786	0.4389	1.0000	0.6063	0.1927	1.0000	6.11E-04	2.40E-02
2052	15	44987756	46022642	COPD	LungCancer	0.9459	0.4440	1.0000	0.8947	0.1972	1.0000	6.27E-04	2.40E-02
1816	12	82576130	83551125	COPD	IPF	0.6557	0.3266	1.0000	0.4299	0.1067	1.0000	6.37E-04	2.43E-02
2055	15	47693317	49260006	Asthma	COPD	0.5347	0.2785	0.7777	0.2859	0.0776	0.6048	6.39E-04	2.43E-02
4	1	2983520	3582047	Asthma	Snoring	0.5197	0.2377	0.8535	0.2701	0.0565	0.7285	6.51E-04	2.44E-02
138	1	1.82E+08	1.84E+08	Asthma	LungCancer	0.7151	0.3289	1.0000	0.5113	0.1082	1.0000	6.50E-04	2.44E-02
1096	7	1366973	2473749	IPF	Snoring	1.0000	0.4451	1.0000	1.0000	0.1981	1.0000	6.47E-04	2.44E-02
1374	9	2441121	3079045	COPD	LungCancer	0.8584	0.3883	1.0000	0.7369	0.1508	1.0000	6.48E-04	2.44E-02
14	1	11709174	13481025	Asthma	COPD	0.4744	0.2295	0.7159	0.2250	0.0527	0.5126	6.53E-04	2.45E-02
203	2	1376546	1875060	COPD	IPF	1.0000	0.4394	1.0000	1.0000	0.1934	1.0000	6.61E-04	2.47E-02
1627	11	15126768	16383386	Asthma	COPD	1.0000	0.5665	1.0000	1.0000	0.3209	1.0000	6.66E-04	2.48E-02
1072	6	1.49E+08	1.51E+08	COPD	IPF	0.9123	0.4653	1.0000	0.8323	0.2165	1.0000	6.71E-04	2.49E-02
348	2	1.64E+08	1.65E+08	COPD	Snoring	0.8482	0.4082	1.0000	0.7194	0.1666	1.0000	6.76E-04	2.50E-02
1611	11	1061400	1857845	Asthma	COPD	0.4839	0.2417	0.7078	0.2341	0.0584	0.5009	6.96E-04	2.57E-02
1851	12	1.23E+08	1.25E+08	Asthma	COPD	0.5973	0.3124	0.9068	0.3568	0.0976	0.8222	6.98E-04	2.57E-02
1979	14	46748239	48177483	Asthma	COPD	0.8379	0.4733	1.0000	0.7021	0.2245	1.0000	7.09E-04	2.60E-02
2351	19	45040933	45893307	Asthma	COPD	0.4762	0.2388	0.7006	0.2268	0.0570	0.4908	7.13E-04	2.60E-02
102	1	1.16E+08	1.17E+08	Asthma	IPF	1.0000	0.3869	1.0000	1.0000	0.1499	1.0000	7.21E-04	2.62E-02
1735	11	1.31E+08	1.31E+08	Asthma	COPD	0.7116	0.3798	1.0000	0.5064	0.1446	1.0000	7.23E-04	2.63E-02
2383	20	13202336	14203755	COPD	IPF	1.0000	0.4749	1.0000	1.0000	0.2269	1.0000	7.28E-04	2.63E-02
2472	22	27192924	27952441	Asthma	LungCancer	-0.7418	-1.0000	-0.3194	0.5503	0.1020	1.0000	7.40E-04	2.67E-02
1519	10	30000224	30919469	COPD	Snoring	0.8277	0.3859	1.0000	0.6851	0.1489	1.0000	7.44E-04	2.67E-02
2316	19	8199017	9105577	COPD	IPF	0.4416	0.1943	0.6966	0.1950	0.0378	0.4852	7.46E-04	2.67E-02
1601	10	1.28E+08	1.29E+08	COPD	Snoring	0.6881	0.3151	1.0000	0.4735	0.0993	1.0000	7.52E-04	2.69E-02
215	2	10611655	11230349	Asthma	Snoring	-1.0000	-1.0000	-0.3419	1.0000	0.1191	1.0000	7.66E-04	2.72E-02
1722	11	1.16E+08	1.17E+08	Asthma	COPD	0.7214	0.3881	1.0000	0.5204	0.1507	1.0000	7.64E-04	2.72E-02
300	2	1.03E+08	1.05E+08	IPF	Snoring	0.7286	0.3216	1.0000	0.5309	0.1034	1.0000	7.89E-04	2.80E-02
684	4	93451600	94757265	Asthma	COPD	0.7686	0.4108	1.0000	0.5907	0.1687	1.0000	8.00E-04	2.83E-02
896	5	1.45E+08	1.47E+08	IPF	Snoring	-0.6114	-1.0000	-0.2717	0.3739	0.0738	1.0000	8.03E-04	2.83E-02
824	5	56896891	57895012	Asthma	Snoring	-0.9734	-1.0000	-0.4335	0.9474	0.1880	1.0000	8.16E-04	2.86E-02
1030	6	99678877	1.01E+08	IPF	Snoring	-0.6681	-1.0000	-0.2949	0.4463	0.0870	1.0000	8.17E-04	2.86E-02
1832	12	1.02E+08	1.03E+08	Asthma	COPD	0.7887	0.4456	1.0000	0.6221	0.1986	1.0000	8.21E-04	2.87E-02
1164	7	70144615	71215741	COPD	Snoring	-0.8157	-1.0000	-0.3648	0.6654	0.1331	1.0000	8.31E-04	2.89E-02
94	1	1.07E+08	1.08E+08	COPD	LungCancer	0.9841	0.4595	1.0000	0.9685	0.2112	1.0000	8.35E-04	2.90E-02
122	1	1.65E+08	1.66E+08	Asthma	COPD	1.0000	0.5820	1.0000	1.0000	0.3394	1.0000	8.48E-04	2.91E-02
528	3	1.22E+08	1.24E+08	LungCancer	Snoring	1.0000	0.3589	1.0000	1.0000	0.1292	1.0000	8.54E-04	2.91E-02
968	6	32897999	33194975	Asthma	COPD	0.6692	0.3502	1.0000	0.4478	0.1226	1.0000	8.48E-04	2.91E-02
975	6	39785908	40778401	Asthma	COPD	1.0000	0.5754	1.0000	1.0000	0.3311	1.0000	8.46E-04	2.91E-02
1105	7	8718352	9225106	IPF	Snoring	1.0000	0.4258	1.0000	1.0000	0.1813	1.0000	8.53E-04	2.91E-02
2073	15	70767984	72058129	LungCancer	Snoring	1.0000	0.3926	1.0000	1.0000	0.1541	1.0000	8.49E-04	2.91E-02
2182	17	8554764	9619356	Asthma	COPD	0.6739	0.3604	1.0000	0.4541	0.1300	1.0000	8.67E-04	2.95E-02
1511	10	23365686	24489447	Asthma	COPD	0.8671	0.4915	1.0000	0.7519	0.2416	1.0000	8.72E-04	2.96E-02
2107	16	5782969	6446081	Asthma	COPD	0.6971	0.3732	1.0000	0.4859	0.1393	1.0000	8.83E-04	2.99E-02
466	3	51953969	54074844	Asthma	COPD	0.6463	0.3328	0.9712	0.4177	0.1109	0.9432	8.91E-04	3.00E-02
2374	20	4591848	5379450	Asthma	COPD	0.5994	0.3028	0.8944	0.3592	0.0917	0.8000	8.91E-04	3.00E-02
470	3	56954879	58557718	Asthma	LungCancer	0.8888	0.3975	1.0000	0.7900	0.1580	1.0000	9.13E-04	3.05E-02
1576	10	98005995	99367800	Asthma	Snoring	0.5821	0.2546	0.9872	0.3388	0.0648	0.9745	9.12E-04	3.05E-02
898	5	1.49E+08	1.5E+08	IPF	Snoring	1.0000	0.4088	1.0000	1.0000	0.1671	1.0000	9.20E-04	3.07E-02
922	5	1.76E+08	1.78E+08	Asthma	LungCancer	-0.7439	-1.0000	-0.3250	0.5535	0.1056	1.0000	9.31E-04	3.10E-02
2028	14	1.02E+08	1.04E+08	Asthma	Snoring	0.8280	0.3719	1.0000	0.6855	0.1383	1.0000	9.39E-04	3.11E-02
1066	6	1.41E+08	1.43E+08	Asthma	COPD	0.9873	0.5775	1.0000	0.9747	0.3335	1.0000	9.48E-04	3.13E-02
2439	21	23266942	24055941	Asthma	COPD	0.8336	0.4566	1.0000	0.6950	0.2085	1.0000	9.67E-04	3.19E-02
1862	12	1.33E+08	1.34E+08	Asthma	COPD	0.8716	0.4779	1.0000	0.7597	0.2284	1.0000	9.72E-04	3.19E-02
1837	12	1.07E+08	1.08E+08	Asthma	COPD	0.9601	0.5503	1.0000	0.9218	0.3034	1.0000	9.78E-04	3.21E-02
1088	6	1.65E+08	1.66E+08	Asthma	COPD	1.0000	0.5517	1.0000	1.0000	0.3044	1.0000	9.82E-04	3.21E-02
1376	9	4025356	4596614	Asthma	COPD	0.5512	0.2743	0.8166	0.3038	0.0752	0.6669	9.84E-04	3.21E-02
36	1	38474037	40200950	Asthma	Snoring	0.5122	0.2198	0.8677	0.2624	0.0483	0.7530	1.01E-03	3.26E-02
2067	15	62106139	63218978	Asthma	Snoring	0.9544	0.4135	1.0000	0.9108	0.1710	1.0000	1.00E-03	3.26E-02
2323	19	15650186	16079006	Asthma	COPD	0.9621	0.5505	1.0000	0.9256	0.3031	1.0000	1.01E-03	3.26E-02
1493	10	6234719	6897037	IPF	LungCancer	1.0000	0.3917	1.0000	1.0000	0.1534	1.0000	1.02E-03	3.28E-02
1388	9	13512853	14244747	COPD	LungCancer	0.8792	0.3857	1.0000	0.7730	0.1488	1.0000	1.03E-03	3.30E-02
2009	14	79199452	81001920	COPD	IPF	0.6973	0.3263	1.0000	0.4863	0.1065	1.0000	1.03E-03	3.30E-02
2295	18	67195981	68051035	Asthma	COPD	0.8878	0.4747	1.0000	0.7882	0.2254	1.0000	1.03E-03	3.31E-02
2070	15	66355635	67396520	COPD	IPF	0.7458	0.3523	1.0000	0.5563	0.1241	1.0000	1.05E-03	3.33E-02
2482	22	37364005	38718589	IPF	LungCancer	0.8200	0.3532	1.0000	0.6723	0.1247	1.0000	1.04E-03	3.33E-02
715	4	1.26E+08	1.27E+08	Asthma	COPD	1.0000	0.4842	1.0000	1.0000	0.2363	1.0000	1.06E-03	3.37E-02
2079	15	78514102	79292536	COPD	IPF	0.4365	0.1845	0.7202	0.1906	0.0340	0.5187	1.06E-03	3.37E-02
1986	14	54359599	55292832	Asthma	COPD	0.8988	0.4990	1.0000	0.8079	0.2490	1.0000	1.07E-03	3.39E-02
596	4	10227	812415	Asthma	IPF	0.5447	0.2385	0.8925	0.2967	0.0569	0.7965	1.08E-03	3.40E-02
596	4	10227	812415	Asthma	COPD	0.5443	0.2643	0.8060	0.2962	0.0698	0.6496	1.08E-03	3.40E-02

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921	5	1.75E+08	1.76E+08	COPD	LungCancer	0.8640	0.3747	1.0000	0.7466	0.1404	1.0000	1.09E-03	3.40E-02
2133	16	50467034	52041336	IPF	Snoring	0.9766	0.4012	1.0000	0.9537	0.1610	1.0000	1.10E-03	3.45E-02
202	2	789196	1376545	COPD	IPF	0.7127	0.3341	1.0000	0.5079	0.1116	1.0000	1.12E-03	3.48E-02
2238	18	10719	848350	Asthma	IPF	0.6309	0.2781	1.0000	0.3980	0.0773	1.0000	1.13E-03	3.51E-02
192	1	2.41E+08	2.42E+08	LungCancer	Snoring	0.7543	0.3244	1.0000	0.5690	0.1054	1.0000	1.15E-03	3.55E-02
312	2	1.2E+08	1.21E+08	Asthma	Snoring	0.9481	0.4137	1.0000	0.8989	0.1711	1.0000	1.16E-03	3.55E-02
1168	7	76451929	77663964	COPD	IPF	1.0000	0.4281	1.0000	1.0000	0.1843	1.0000	1.15E-03	3.55E-02
1410	9	32253284	33194892	COPD	IPF	0.7339	0.3403	1.0000	0.5386	0.1158	1.0000	1.16E-03	3.55E-02
2045	15	34410073	35118927	Asthma	LungCancer	0.9993	0.4374	1.0000	0.9986	0.1913	1.0000	1.16E-03	3.55E-02
2451	21	37303549	38046449	COPD	IPF	0.9035	0.4189	1.0000	0.8163	0.1768	1.0000	1.16E-03	3.55E-02
297	2	1E+08	1.02E+08	Asthma	IPF	0.6937	0.2999	1.0000	0.4812	0.0903	1.0000	1.17E-03	3.56E-02
476	3	63670804	64662373	COPD	IPF	0.6390	0.2919	1.0000	0.4084	0.0854	1.0000	1.18E-03	3.56E-02
1089	6	1.66E+08	1.67E+08	LungCancer	Snoring	0.8830	0.3691	1.0000	0.7797	0.1362	1.0000	1.18E-03	3.56E-02
1735	11	1.31E+08	1.31E+08	COPD	IPF	0.6264	0.2756	1.0000	0.3923	0.0760	1.0000	1.18E-03	3.56E-02
1794	12	56987106	58748139	COPD	Snoring	-0.6004	-1.0000	-0.2583	0.3605	0.0667	1.0000	1.18E-03	3.56E-02
382	2	2.04E+08	2.05E+08	Asthma	COPD	0.6966	0.3561	1.0000	0.4852	0.1268	1.0000	1.19E-03	3.59E-02
936	6	11790672	13352326	Asthma	COPD	0.6222	0.3050	0.9890	0.3872	0.0930	0.9782	1.21E-03	3.65E-02
2251	18	12735559	13641479	COPD	IPF	-0.5104	-0.8943	-0.2011	0.2605	0.0404	0.7998	1.22E-03	3.67E-02
67	1	77895395	79065286	Asthma	LungCancer	0.8426	0.3612	1.0000	0.7100	0.1305	1.0000	1.24E-03	3.68E-02
663	4	67616363	68742859	Asthma	COPD	0.7985	0.4284	1.0000	0.6377	0.1835	1.0000	1.25E-03	3.68E-02
1870	13	25977141	26681709	Asthma	COPD	0.8387	0.4609	1.0000	0.7034	0.2125	1.0000	1.24E-03	3.68E-02
1871	13	26681710	27392005	Asthma	COPD	1.0000	0.5165	1.0000	1.0000	0.2680	1.0000	1.25E-03	3.68E-02
1933	13	93285143	94925136	Asthma	Snoring	-0.6112	-1.0000	-0.2579	0.3735	0.0665	1.0000	1.25E-03	3.68E-02
2350	19	43960959	45040932	Asthma	LungCancer	-0.9871	-1.0000	-0.4208	0.9743	0.1770	1.0000	1.25E-03	3.68E-02
2415	20	51533751	52411532	COPD	LungCancer	0.6563	0.2798	1.0000	0.4307	0.0783	1.0000	1.24E-03	3.68E-02
2449	21	34383795	35729261	IPF	Snoring	-0.7053	-1.0000	-0.3000	0.4975	0.0900	1.0000	1.24E-03	3.68E-02
2455	21	41344743	42187152	Asthma	Snoring	0.9044	0.3881	1.0000	0.8180	0.1506	1.0000	1.25E-03	3.68E-02
1359	8	1.35E+08	1.35E+08	COPD	IPF	0.7404	0.3370	1.0000	0.5482	0.1136	1.0000	1.27E-03	3.73E-02
830	5	63214090	64438518	Asthma	COPD	0.8526	0.4538	1.0000	0.7270	0.2060	1.0000	1.29E-03	3.75E-02
165	1	2.15E+08	2.16E+08	Asthma	COPD	0.8192	0.4481	1.0000	0.6711	0.2008	1.0000	1.32E-03	3.77E-02
290	2	84395900	85992794	COPD	Snoring	-0.8388	-1.0000	-0.3615	0.7035	0.1307	1.0000	1.30E-03	3.77E-02
344	2	1.58E+08	1.59E+08	LungCancer	Snoring	-0.6030	-1.0000	-0.2568	0.3636	0.0660	1.0000	1.31E-03	3.77E-02
738	4	1.55E+08	1.57E+08	Asthma	IPF	0.5597	0.2415	0.9782	0.3133	0.0583	0.9569	1.33E-03	3.77E-02
876	5	1.2E+08	1.2E+08	Asthma	COPD	1.0000	0.5671	1.0000	1.0000	0.3216	1.0000	1.31E-03	3.77E-02
1345	8	1.18E+08	1.19E+08	LungCancer	Snoring	0.7872	0.3416	1.0000	0.6197	0.1167	1.0000	1.32E-03	3.77E-02
1509	10	20616433	21477692	COPD	IPF	0.8628	0.4100	1.0000	0.7444	0.1686	1.0000	1.32E-03	3.77E-02
1556	10	75694024	77144961	Asthma	COPD	0.7781	0.4152	1.0000	0.6055	0.1724	1.0000	1.32E-03	3.77E-02
1629	11	17583949	18740267	LungCancer	Snoring	-1.0000	-1.0000	-0.3004	1.0000	0.0928	1.0000	1.33E-03	3.77E-02
2021	14	94892241	95946792	COPD	IPF	0.7544	0.3406	1.0000	0.5691	0.1160	1.0000	1.33E-03	3.77E-02
2153	16	74889128	75525959	Asthma	COPD	0.6331	0.3174	0.9679	0.4008	0.1007	0.9369	1.32E-03	3.77E-02
2236	17	79333775	80459149	Asthma	COPD	0.6080	0.2965	0.9076	0.3697	0.0879	0.8237	1.31E-03	3.77E-02
7	1	4773404	5362404	LungCancer	Snoring	1.0000	0.3885	1.0000	1.0000	0.1512	1.0000	1.36E-03	3.82E-02
401	2	2.24E+08	2.25E+08	COPD	IPF	0.7669	0.3519	1.0000	0.5881	0.1238	1.0000	1.35E-03	3.82E-02
2072	15	69089816	70767983	Asthma	LungCancer	-0.6979	-1.0000	-0.2757	0.4870	0.0760	1.0000	1.36E-03	3.82E-02
2345	19	39370420	40171413	Asthma	COPD	0.6852	0.3484	1.0000	0.4694	0.1214	1.0000	1.36E-03	3.82E-02
1647	11	34672698	35500367	COPD	IPF	1.0000	0.4526	1.0000	1.0000	0.2049	1.0000	1.38E-03	3.85E-02
966	6	32629240	32682213	COPD	LungCancer	0.3737	0.1521	0.6012	0.1396	0.0231	0.3615	1.38E-03	3.86E-02
909	5	1.6E+08	1.61E+08	Asthma	COPD	0.6939	0.3549	1.0000	0.4815	0.1261	1.0000	1.39E-03	3.88E-02
336	2	1.46E+08	1.47E+08	Asthma	IPF	-0.6565	-1.0000	-0.2736	0.4310	0.0748	1.0000	1.40E-03	3.90E-02
2128	16	29043178	31384210	Asthma	COPD	0.5704	0.2752	0.8559	0.3253	0.0757	0.7326	1.40E-03	3.90E-02
1840	12	1.1E+08	1.12E+08	COPD	Snoring	-0.7488	-1.0000	-0.3157	0.5606	0.0997	1.0000	1.44E-03	3.99E-02
1037	6	1.06E+08	1.07E+08	Asthma	IPF	0.5454	0.2328	0.9488	0.2974	0.0546	0.9003	1.47E-03	4.01E-02
2047	15	36583328	37962915	Asthma	COPD	0.9133	0.5105	1.0000	0.8341	0.2613	1.0000	1.47E-03	4.01E-02
2054	15	46884072	47693316	Asthma	COPD	1.0000	0.5047	1.0000	1.0000	0.2550	1.0000	1.45E-03	4.01E-02
2248	18	9816165	10675548	Asthma	COPD	0.7731	0.3868	1.0000	0.5977	0.1496	1.0000	1.47E-03	4.01E-02
2321	19	13968320	14891100	IPF	LungCancer	0.7437	0.3077	1.0000	0.5531	0.0947	1.0000	1.47E-03	4.01E-02
2338	19	31763009	33028099	Asthma	COPD	0.7077	0.3605	1.0000	0.5009	0.1307	1.0000	1.47E-03	4.01E-02
1523	10	35178225	36475838	Asthma	Snoring	-0.8286	-1.0000	-0.3426	0.6865	0.1174	1.0000	1.48E-03	4.04E-02
2163	16	82310205	83077869	Asthma	COPD	0.9166	0.4883	1.0000	0.8402	0.2398	1.0000	1.49E-03	4.04E-02
778	5	2106886	2960068	COPD	Snoring	1.0000	0.3715	1.0000	1.0000	0.1380	1.0000	1.50E-03	4.06E-02
390	2	2.13E+08	2.14E+08	Asthma	COPD	0.6022	0.2826	0.9120	0.3626	0.0806	0.8317	1.51E-03	4.08E-02
1935	13	96132648	97516609	Asthma	COPD	0.7910	0.4248	1.0000	0.6257	0.1804	1.0000	1.53E-03	4.12E-02
2104	16	1996493	3379996	Asthma	COPD	0.4759	0.2160	0.7196	0.2265	0.0467	0.5179	1.54E-03	4.15E-02
2340	19	33785836	34633274	Asthma	COPD	0.4786	0.2120	0.7275	0.2291	0.0449	0.5292	1.56E-03	4.19E-02
39	1	41977967	43512669	Asthma	Snoring	0.7455	0.3081	1.0000	0.5558	0.0949	1.0000	1.57E-03	4.22E-02
1401	9	24757730	25957606	Asthma	LungCancer	0.9947	0.4037	1.0000	0.9893	0.1630	1.0000	1.59E-03	4.24E-02
30	1	30405183	31639217	COPD	IPF	0.7205	0.3196	1.0000	0.5192	0.1022	1.0000	1.59E-03	4.25E-02
1455	9	1.11E+08	1.12E+08	COPD	IPF	1.0000	0.3375	1.0000	1.0000	0.1186	1.0000	1.61E-03	4.27E-02
1600	10	1.27E+08	1.28E+08	Asthma	Snoring	-0.6298	-1.0000	-0.2423	0.3967	0.0587	1.0000	1.61E-03	4.27E-02
2040	15	27563173	29141035	Asthma	LungCancer	0.6641	0.2698	1.0000	0.4410	0.0728	1.0000	1.62E-03	4.28E-02
585	3	1.88E+08	1.89E+08	COPD	Snoring	0.8364	0.3450	1.0000	0.6995	0.1192	1.0000	1.62E-03	4.29E-02
73	1	84728348	86017267	Asthma	COPD	0.7514	0.3795	1.0000	0.5646	0.1445	1.0000	1.64E-03	4.32E-02
853	5	93814605	95117259	COPD	IPF	0.7535	0.3406	1.0000	0.5677	0.1160	1.0000	1.64E-03	4.32E-02
1964	14	30831155	32382245	IPF	Snoring	-0.6446	-1.0000	-0.2602	0.4155	0.0677	1.0000	1.68E-03	4.42E-02
392	2	2.15E+08	2.16E+08	Asthma	COPD	0.9443	0.5085	1.0000	0.8917	0.2589	1.0000	1.70E-03	4.42E-02
977	6	42103739	43770626	Asthma	COPD	0.5073	0.2268	0.7750	0.2574	0.0514	0.6006	1.69E-03	4.42E-02

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1038	6	1.07E+08	1.09E+08	Asthma	COPD	0.6060	0.2774	0.9310	0.3672	0.0770	0.8668	1.71E-03	4.42E-02
1247	8	8589771	9167795	COPD	Snoring	0.8705	0.3654	1.0000	0.7578	0.1335	1.0000	1.69E-03	4.42E-02
1888	13	45476447	46493236	LungCancer	Snoring	-0.8309	-1.0000	-0.3420	0.6904	0.1169	1.0000	1.71E-03	4.42E-02
2288	18	59449423	60780194	Asthma	IPF	1.0000	0.3629	1.0000	1.0000	0.1340	1.0000	1.70E-03	4.42E-02
2342	19	35649344	36638122	Asthma	COPD	0.6012	0.2784	0.9178	0.3614	0.0776	0.8424	1.70E-03	4.42E-02
1727	11	1.23E+08	1.23E+08	Asthma	IPF	0.7106	0.2888	1.0000	0.5049	0.0837	1.0000	1.72E-03	4.43E-02
2322	19	14891101	15650185	Asthma	LungCancer	0.5928	0.2388	1.0000	0.3514	0.0570	1.0000	1.73E-03	4.44E-02
507	3	1.01E+08	1.02E+08	COPD	IPF	0.8715	0.3986	1.0000	0.7594	0.1589	1.0000	1.75E-03	4.49E-02
1476	9	1.33E+08	1.34E+08	IPF	LungCancer	-0.9132	-1.0000	-0.3727	0.8339	0.1389	1.0000	1.75E-03	4.49E-02
1015	6	82388205	83571953	Asthma	Snoring	-0.9189	-1.0000	-0.3776	0.8443	0.1426	1.0000	1.77E-03	4.53E-02
761	4	1.79E+08	1.8E+08	Asthma	COPD	0.8587	0.4546	1.0000	0.7373	0.2067	1.0000	1.78E-03	4.55E-02
1227	7	1.54E+08	1.55E+08	IPF	LungCancer	0.7324	0.2921	1.0000	0.5364	0.0853	1.0000	1.79E-03	4.55E-02
850	5	89584467	90793804	Asthma	Snoring	0.6814	0.2772	1.0000	0.4642	0.0769	1.0000	1.80E-03	4.55E-02
1272	8	26679136	27406511	COPD	LungCancer	0.5782	0.2326	1.0000	0.3343	0.0541	1.0000	1.79E-03	4.55E-02
1593	10	1.2E+08	1.21E+08	LungCancer	Snoring	-0.6817	-1.0000	-0.2780	0.4647	0.0773	1.0000	1.80E-03	4.55E-02
2195	17	25872111	27344401	Asthma	Snoring	-0.8505	-1.0000	-0.3444	0.7234	0.1186	1.0000	1.80E-03	4.55E-02
110	1	1.51E+08	1.53E+08	COPD	LungCancer	1.0000	0.2959	1.0000	1.0000	0.0902	1.0000	1.82E-03	4.58E-02
241	2	36867390	37603360	IPF	Snoring	0.9794	0.4024	1.0000	0.9592	0.1619	1.0000	1.83E-03	4.59E-02
379	2	2E+08	2.01E+08	COPD	LungCancer	0.7147	0.2943	1.0000	0.5108	0.0868	1.0000	1.83E-03	4.59E-02
1099	7	4139432	4938442	COPD	Snoring	0.9389	0.3899	1.0000	0.8816	0.1520	1.0000	1.83E-03	4.59E-02
355	2	1.71E+08	1.72E+08	Asthma	COPD	0.6832	0.3251	1.0000	0.4668	0.1060	1.0000	1.84E-03	4.60E-02
1389	9	14244748	14902924	COPD	IPF	0.5592	0.2448	0.9314	0.3127	0.0599	0.8674	1.85E-03	4.61E-02
1674	11	64594823	66782661	Asthma	COPD	0.4776	0.2068	0.7137	0.2281	0.0431	0.5093	1.90E-03	4.74E-02
2466	22	20969185	22404422	Asthma	COPD	0.6831	0.3317	1.0000	0.4666	0.1100	1.0000	1.91E-03	4.74E-02
1089	6	1.66E+08	1.67E+08	IPF	Snoring	-0.9390	-1.0000	-0.3783	0.8818	0.1431	1.0000	1.93E-03	4.78E-02
1280	8	36641175	38803980	Asthma	IPF	0.5667	0.2190	1.0000	0.3212	0.0480	1.0000	1.97E-03	4.84E-02
1315	8	81340232	82878769	Asthma	Snoring	-0.7706	-1.0000	-0.2939	0.5937	0.0864	1.0000	1.96E-03	4.84E-02
1414	9	37687113	38822977	Asthma	IPF	-0.5826	-1.0000	-0.2297	0.3394	0.0527	1.0000	1.96E-03	4.84E-02
1869	13	24818334	25977140	Asthma	COPD	0.7801	0.3995	1.0000	0.6085	0.1606	1.0000	1.97E-03	4.84E-02
2403	20	38427595	40272390	Asthma	COPD	1.0000	0.5090	1.0000	1.0000	0.2591	1.0000	1.97E-03	4.84E-02
586	3	1.89E+08	1.91E+08	Asthma	IPF	0.5816	0.2309	1.0000	0.3383	0.0533	1.0000	1.99E-03	4.85E-02
1089	6	1.66E+08	1.67E+08	Asthma	Snoring	1.0000	0.4094	1.0000	1.0000	0.1676	1.0000	1.99E-03	4.85E-02
1589	10	1.14E+08	1.16E+08	Asthma	COPD	0.5278	0.2361	0.7999	0.2785	0.0557	0.6398	1.99E-03	4.85E-02
1242	8	4893121	5566269	Asthma	LungCancer	1.0000	0.3605	1.0000	1.0000	0.1299	1.0000	2.02E-03	4.89E-02
1332	8	1.04E+08	1.04E+08	COPD	IPF	0.6206	0.2613	1.0000	0.3851	0.0683	1.0000	2.02E-03	4.89E-02
2171	16	88387229	89106304	Asthma	Snoring	0.6567	0.2558	1.0000	0.4313	0.0659	1.0000	2.02E-03	4.89E-02
2222	17	64438388	65582327	COPD	IPF	0.5420	0.2206	0.9008	0.2938	0.0487	0.8114	2.02E-03	4.89E-02
1798	12	63055937	63764111	Asthma	LungCancer	-0.7167	-1.0000	-0.2969	0.5137	0.0884	1.0000	2.04E-03	4.93E-02
1096	7	1366973	2473749	Asthma	Snoring	0.7418	0.3030	1.0000	0.5503	0.0918	1.0000	2.06E-03	4.96E-02
2116	16	11916632	12793149	Asthma	COPD	0.6311	0.2917	0.9825	0.3982	0.0851	0.9654	2.07E-03	4.97E-02
132	1	1.75E+08	1.76E+08	Asthma	COPD	0.8443	0.4317	1.0000	0.7129	0.1864	1.0000	2.07E-03	4.98E-02
160	1	2.08E+08	2.1E+08	Asthma	COPD	0.5785	0.2575	0.9184	0.3347	0.0665	0.8434	2.10E-03	5.00E-02
482	3	69784970	71223281	Asthma	COPD	0.5431	0.2358	0.8321	0.2949	0.0557	0.6924	2.10E-03	5.00E-02
881	5	1.24E+08	1.25E+08	COPD	Snoring	0.7480	0.2916	1.0000	0.5595	0.0850	1.0000	2.10E-03	5.00E-02
1605	10	1.32E+08	1.33E+08	Asthma	COPD	0.6683	0.3115	1.0000	0.4466	0.0975	1.0000	2.09E-03	5.00E-02
CHR, chromosome; Rg, genetic correlation ;													
r^2 represents proportion of genetic variance explained. P.adjusted represents the FDR-corrected P.value.													