

Supplementary Text 9

Q5NAT0_40.1ns (DCCM)					
1	2	3	4	5	
6	7	8	9	10	11
1.0000000000	0.6329574727	0.5487618611	0.5034660769	0.4982403161	
0.4660173095	0.4174232619	0.3910167831	0.3888448086	0.3427715227	
0.2654670674					
	12	13	14	15	16
17	18	19	20	21	22
0.2848478804	0.2583188158	0.1901067227	0.1692766791	0.1918914960	
0.1379938618	0.0861545053	0.0421602413	0.0302260522	0.0583042947	
0.0860376069					
	23	24	25	26	27
28	29	30	31	32	33
0.0708933861	0.0634811032	0.1012226187	0.1422060437	0.1858663745	
0.2001954136	0.2061858446	0.1713842060	0.1369330807	0.1159130968	
0.0821405269					
	34	35	36	37	38
39	40	41	42	43	44
0.0721436341	0.0403727890	-0.0044060569	-0.0252891255	-0.0398998052	
-0.0898019199	-0.0859473839	-0.0943720391	-0.1276536912	-0.1192855976	
-0.1293641073					
	45	46	47	48	49
50	51	52	53	54	55
-0.0986950113	-0.0907779985	-0.0375210347	-0.0238687495	-0.0156981231	
0.0433018119	0.0556066513	0.0612227180	0.0820901813	0.1178339077	
0.0839497620					
	56	57	58	59	60
61	62	63	64	65	66
0.0477047161	0.0016561867	-0.0250345960	-0.0652476962	-0.1191080873	
-0.1351611153	-0.0449927530	-0.0474583777	-0.1231882577	-0.0697504621	
0.0065356722					
	67	68	69	70	71
72	73	74	75	76	77
-0.0573620859	-0.0878844549	0.0155867421	0.0343491299	-0.0443748395	
-0.0171270963	0.0715250005	0.0297316530	-0.0023182185	0.0389489205	
0.1310750444					
	78	79	80	81	82
83	84	85	86	87	88
0.1391592846	0.1923047675	0.2872027943	0.2466928796	0.2056292888	
0.2674699444	0.3109124700	0.2504470819	0.2230476613	0.1536830689	
0.1242876453					
	89	90	91	92	93
94	95	96	97	98	99
0.1391678639	0.0984770326	0.0371273250	0.0382861904	0.0503530052	
-0.0223284134	-0.0439739776	-0.0204812253	-0.0606014843	-0.1170949883	
-0.0976797582					
	100	101	102	103	104
105	106	107	108	109	110
-0.1007226571	-0.1644890361	-0.1669826013	-0.1529185778	-0.1804734287	
-0.2245998196	-0.1775985947	-0.2322883698	-0.2424611294	-0.2928858523	
-0.2726210529					
	111	112	113	114	115
116	117	118	119	120	121
-0.2379306316	-0.2016620875	-0.1533703862	-0.1206460262	-0.0791618878	

Supplementary Text 9

-0.0429608132	-0.0438828408	-0.0188109715	0.0184124899	0.0153720737		
0.0293836269						
	122	123	124	125	126	
127	128	129	130	131	132	
0.0472008959	0.0667915685	0.0797875772	0.1064539429	0.1052504590		
0.1201735248	0.0944608636	0.1029718330	0.0882785539	0.0483133869		
0.0304089839						
	133	134	135	136	137	
138	139	140	141	142	143	
0.0092659014	-0.0417045315	-0.0606154975	-0.1100902057	-0.1346941014		
-0.1634368670	-0.2171592928	-0.2333675749	-0.2849681936	-0.3296363521		
-0.2666537967						
	144	145	146	147	148	
149	150	151	152	153	154	
-0.2802941654	-0.3277646549	-0.3281554862	-0.3347922302	-0.2626511698		
-0.2817899118	-0.3406440935	-0.3427275512	-0.2581478284	-0.2603631213		
-0.3204499692						
	155	156	157	158	159	
160	161	162	163	164	165	
-0.2865063991	-0.2148023151	-0.2442728128	-0.2650342081	-0.1711525360		
-0.1481504267	-0.2059645139	-0.1654970302	-0.0974507764	-0.1369050959		
-0.1524018493						
	166	167	168	169	170	
171	172	173	174	175	176	
-0.0878814593	-0.0725904729	-0.1101739066	-0.1718001099	-0.1547934725		
-0.1378811903	-0.1960984515	-0.2412999122	-0.2414313545	-0.2433079100		
-0.2821427185						
	177	178	179	180	181	
182	183	184	185	186	187	
-0.3166705294	-0.3269039645	-0.3328047796	-0.3486063777	-0.3674892940		
-0.3627054506	-0.3763350947	-0.3794280849	-0.3804664788	-0.3797332087		
-0.3627609882						
	188	189	190	191	192	
193	194	195	196	197	198	
-0.3429655826	-0.3531093558	-0.3518263693	-0.3129073153	-0.2797271139		
-0.2072805235	-0.2286886816	-0.2463056225	-0.2025828331	-0.1625104576		
-0.1565656669						
	199	200	201	202	203	
204	205	206	207	208	209	
-0.1638099927	-0.1423320332	-0.1020504119	-0.0855134921	-0.0744673386		
-0.0902574377	-0.0738109340	-0.0766479442	-0.1238177689	-0.1784925605		
-0.2074592608						
	210	211	212	213	214	
215	216	217	218	219	220	
-0.2780676696	-0.3195817230	-0.3106708907	-0.2833502078	-0.3509459614		
-0.3240791875	-0.2844828436	-0.3464652919	-0.3437477065	-0.2773235000		
-0.2640823789						
	221	222	223	224	225	
226	227	228	229	230	231	
-0.3056515031	-0.2746704913	-0.2014540208	-0.2220601025	-0.2326322669		
-0.2608418643	-0.2679249258	-0.3087910038	-0.3355177817	-0.3186834111		
-0.3382401497						
	232	233	234	235	236	
237	238	239	240	241	242	

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-0.3389090325	-0.3294709823	-0.2980729187	-0.2931538398	-0.2925353892		
-0.3051805203	-0.2657448907	-0.2192069265	-0.2312663046	-0.1855439330		
-0.1915210281						
	243	244	245	246	247	
248	249	250	251	252	253	
-0.1522895764	-0.1556154172	-0.1497319767	-0.1356550001	-0.0786931777		
-0.0444726570	-0.0267527844	0.0268301788	-0.0323227066	-0.0248073067		
-0.0887845296						
	254	255	256	257	258	
259	260	261	262	263	264	
-0.0961504760	-0.1444986147	-0.1761553287	-0.2036775262	-0.1343302093		
-0.1269398048	-0.2084030373	-0.1876063591	-0.1188956469	-0.1586740352		
-0.2100111052						
	265	266	267	268	269	
270	271	272	273	274	275	
-0.1507775463	-0.1339613663	-0.1919755978	-0.1831730142	-0.1414337874		
-0.1490340821	-0.1867922540	-0.2267167654	-0.2211725704	-0.2622351235		
-0.2443012207						
	276	277	278	279	280	
281	282	283	284	285	286	
-0.2214826251	-0.2456660995	-0.2398733021	-0.2577563697	-0.2390929938		
-0.2008624918	-0.2147458592	-0.2127804857	-0.1659497335	-0.1554089867		
-0.1543464227						
	287	288	289	290	291	
292	293	294	295	296	297	
-0.1162959154	-0.0739437750	-0.0840225634	-0.0456008124	0.0114944419		
0.0008765822	0.0032618303	0.0694339601	0.0739273432	0.0332334994		
-0.0134003203						
	298	299	300	301	302	
303	304	305	306	307	308	
-0.0726823196	-0.1007486681	-0.0939163059	-0.0461810365	0.0060731953		
0.0345110074	0.0762852314	0.1599092630	0.2150748974	0.2070250942		
0.2524542699						
	309	310	311	312	313	
314	315	316	317	318	319	
0.2394879594	0.2420919383	0.1776631520	0.1279445759	0.0649260898		
0.0710302664	0.1453628353	0.1280708628	0.1769718561	0.1966180278		
0.2734024383						
	320	321	322	323	324	
325	326	327	328	329	330	
0.1905546335	0.1337442005	0.2209136477	0.2518215201	0.1272916654		
0.1112645227	0.2041929721	0.1854140626	0.0767434100	0.1137684540		
0.1712043199						
	331	332	333	334	335	
336	337	338	339	340	341	
0.0889848383	0.0364038965	0.0937540806	0.0754614273	0.0171874527		
-0.0225873620	-0.0662620795	-0.0245019963	0.0059737049	0.0359882126		
-0.0206710767						
	342	343	344	345	346	
347	348	349	350	351	352	
-0.0245399506	-0.0575105971	-0.0784637232	-0.0579155807	-0.0056271608		
0.0525649610	0.0593295223	0.0799084094	0.1025692198	0.0929809783		
0.0879487337						
	353	354	355	356	357	

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358	359	360	361	362	363
0.1109399449	0.1646377339	0.1691921497	0.1621847137	0.2197961301	
0.2644336672	0.2586170465	0.2892993157	0.3702618051	0.3973620484	
0.3675564616					
	364	365	366	367	368
369	370	371	372	373	374
0.4594880713	0.5584789962	0.4625872368	0.4463832102	0.5834528282	
0.5806619502	0.6022651105	0.4993424169	0.4461901935	0.3790837304	
0.3551645184					
	375	376	377	378	379
380	381	382	383	384	385
0.4581096251	0.5128886308	0.4232815991	0.4091591148	0.3755112580	
0.3628408384	0.4102160472	0.4114635697	0.3554112543	0.3303039187	
0.3732906052					
	386	387	388	389	390
391	392	393	394	395	396
0.3271235186	0.3003851282	0.2864439177	0.2753357958	0.2203023391	
0.1807797273	0.1527434424	0.1634337620	0.2153565862	0.2071945578	
0.1751820789					
	397	398	399	400	401
402	403	404	405	406	407
0.1521061245	0.1246640313	0.1122912211	0.0937380393	0.1196048352	
0.1502884484	0.1796075046	0.1712752361	0.1926993437	0.2236861292	
0.2588691680					
	408	409	410	411	412
413	414	415	416	417	418
0.2477665183	0.2185315058	0.2203105013	0.2481591412	0.2563106612	
0.3181156065	0.3277209599	0.3026131830	0.3400736218	0.3208825195	
0.2739020477					
	419	420	421	422	423
424	425	426	427	428	429
0.3126220880	0.2945190023	0.2135101770	0.1650175826	0.2168567348	
0.2754380868	0.3158796585	0.3178978610	0.3214673802	0.2984937786	
0.2571528974					
	430	431	432	433	434
435	436	437	438	439	440
0.2165445994	0.1752380556	0.1766393272	0.1686018590	0.1646219588	
0.2543056332	0.2733758680	0.2270606363	0.2504696180	0.1729201359	
0.1738864495					
	441	442	443	444	445
446	447	448	449	450	451
0.1501322699	0.2528516913	0.2739915340	0.1729230814	0.1925851969	
0.3008465608	0.2963220686	0.2515775861	0.3030333672	0.3904867784	
0.3042671692					
	452	453	454	455	456
457	458	459	460	461	462
0.2839156830	0.4137788376	0.4639163536	0.3780422189	0.3328971967	
0.3783477207	0.4199323458	0.5035578423	0.4662190741	0.4149744773	
0.3786138140					
	463	464	465	466	467
468	469	470	471	472	473
0.3797601114	0.3029700528	0.3069623634	0.2733587561	0.2725444458	
0.2804561833	0.2490631701	0.2424189088	0.2119031610	0.2151558765	
0.1767403703					

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	474		475		476		477		478
479	480		481		482		483		484
0.1364417661	0.1202762661		0.1035550744		0.0541819087		0.0075027533		
-0.0106809976	-0.0663416064		-0.0362563839		-0.0861659367		-0.1105122051		
-0.0499239458									
	485		486		487		488		489
490	491		492		493		494		495
-0.1489382326	-0.1426036249		-0.2048682918		-0.2504635338		-0.2772157514		
-0.2296491723	-0.0818045808		-0.1107585889		0.0221547738		-0.0288039886		
0.0541908604									
	496		497		498		499		500
501	502		503		504		505		506
0.0721141390	0.0900868825		0.1057354724		0.1156701186		0.1206372622		
0.1426074604	0.1384406426		0.1146996567		0.1010833120		0.0971202428		
0.0906259595									
	507		508		509		510		511
512	513		514		515		516		517
0.0664430870	0.0222449587		0.0392431199		-0.1159869544		-0.1808489925		
-0.2954090948	-0.3401883945		-0.3610031299		-0.3538298375		-0.2783841019		
-0.2849419583									
	518		519		520		521		522
523	524		525		526		527		528
-0.2502338562	-0.1654351417		-0.1664715005		-0.1738126819		-0.1106494529		
-0.0500615565	-0.0781016089		-0.0206273257		-0.0125594328		-0.0069371962		
0.1154733157									
	529		530		531		532		533
534	535		536		537		538		539
0.1159078363	0.0752803640		0.1116238033		0.0221671993		0.0341784434		
0.1163018312	0.1517072078		0.1672120146		0.0571927312		0.1771054752		
0.1146708827									
	540		541		542		543		544
545	546		547		548		549		550
0.0363417246	0.0829383602		-0.0188021525		-0.1332410026		-0.2103245178		
-0.1783745655	-0.2440954818		-0.3029450060		-0.3004659060		-0.3009262267		
-0.2073828180									
	551		552		553		554		555
556	557		558		559		560		561
-0.2299325874	-0.0854479100		0.0549033382		0.0162237024		0.1762774654		
0.1004254300	0.1419352329		0.1212391096		0.1127250155		0.1096963795		
0.1109239927									
	562		563		564		565		566
567	568								
0.1062661633	0.1190881896		0.1087333223		0.0969228878		0.0792567961		
0.0757942502	0.1001905612								

Q5NAT0_40.1ns (MATRIX)

	1		2		3		4		5		6
	7		8		9		10		11		12
0.632957473	1.000000000		0.780791303		0.681673522		0.675510072		0.621155311		
0.555590245	0.519326855		0.508837183		0.454248597		0.370478297		0.391840364		
	13		14		15		16		17		18
	19		20		21		22		23		24

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0.351565519	0.279935346	0.258712976	0.277253982	0.210776570	0.156529699
0.107157946	0.091278814	0.123281973	0.150038603	0.134542982	0.123313754
25	26	27	28	29	30
31	32	33	34	35	36
0.166595448	0.216149747	0.263832475	0.282453852	0.282252008	0.234916563
0.203292727	0.180663657	0.146383775	0.135083070	0.097281661	0.049321459
37	38	39	40	41	42
43	44	45	46	47	48
0.021650227	0.002297939	-0.053843984	-0.049147698	-0.064674922	-0.102226284
-0.087010132	-0.097511209	-0.058316302	-0.049894872	0.011126795	0.032376361
49	50	51	52	53	54
55	56	57	58	59	60
0.035389059	0.101223336	0.102024391	0.098969777	0.114758084	0.150885407
0.118819797	0.087050984	0.031847894	0.006915792	-0.047844030	-0.106336804
61	62	63	64	65	66
67	68	69	70	71	72
-0.133259428	-0.032499106	-0.019436068	-0.104475106	-0.058171513	0.036151609
-0.025173937	-0.070707395	0.040089690	0.074933277	-0.014907316	0.006486512
73	74	75	76	77	78
79	80	81	82	83	84
0.114680803	0.073854124	0.026270161	0.069719580	0.178113108	0.198726223
0.259751301	0.376485043	0.332417532	0.282221622	0.353624599	0.410969572
85	86	87	88	89	90
91	92	93	94	95	96
0.339354962	0.308317423	0.223988897	0.191332274	0.211170742	0.161573155
0.097879948	0.101363017	0.110820507	0.030799064	0.014331864	0.038581475
97	98	99	100	101	102
103	104	105	106	107	108
-0.011005326	-0.073394979	-0.048603646	-0.057108032	-0.132732512	-0.130564909
-0.114894397	-0.150974154	-0.203515325	-0.159538040	-0.221626987	-0.238040027
109	110	111	112	113	114
115	116	117	118	119	120
-0.294956528	-0.269378328	-0.226963843	-0.183934589	-0.135041967	-0.102950414
-0.053507300	-0.018449935	-0.018508956	0.002170976	0.045241796	0.047980719
121	122	123	124	125	126
127	128	129	130	131	132
0.065222177	0.078593126	0.098316033	0.119581266	0.149086487	0.153205439
0.170430461	0.146054228	0.160069469	0.144734298	0.100204793	0.079386591
133	134	135	136	137	138
139	140	141	142	143	144
0.049787880	-0.006298146	-0.029350969	-0.086928280	-0.113402332	-0.154268344
-0.213880719	-0.239846598	-0.295905821	-0.351599703	-0.286829904	-0.306370102
145	146	147	148	149	150
151	152	153	154	155	156
-0.357254064	-0.368099302	-0.384838154	-0.301864818	-0.307755326	-0.367512413
-0.374659542	-0.274206293	-0.262737164	-0.327542239	-0.293777108	-0.200439305
157	158	159	160	161	162
163	164	165	166	167	168
-0.227269809	-0.253645380	-0.150315513	-0.115185734	-0.179501368	-0.142258100
-0.061164110	-0.099254015	-0.125729823	-0.059875844	-0.038571668	-0.076101819
169	170	171	172	173	174
175	176	177	178	179	180
-0.143089896	-0.126362620	-0.106333231	-0.167721468	-0.223096534	-0.225972906
-0.227823293	-0.273507599	-0.316017574	-0.327226021	-0.337884589	-0.364063973

Supplementary Text 9

181	182	183	184	185	186
187	188	189	190	191	192
-0.384993576	-0.381915582	-0.406056847	-0.412735697	-0.414098239	-0.419741448
-0.408652948	-0.385738724	-0.399646533	-0.405893295	-0.363558070	-0.329277273
193	194	195	196	197	198
199	200	201	202	203	204
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Supplementary Text 9

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Supplementary Text 9

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Supplementary Text 9

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Supplementary Text 9

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Supplementary Text 9

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Supplementary Text 9

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Supplementary Text 9

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Supplementary Text 9

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Supplementary Text 9

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Supplementary Text 9

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Supplementary Text 9

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Supplementary Text 9

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Supplementary Text 9

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Supplementary Text 9

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Supplementary Text 9

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127	128	129	130	131	132	

Supplementary Text 9

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Supplementary Text 9

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Supplementary Text 9

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Supplementary Text 9

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Q9ZSP9_40.1ns (DCCM)

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Supplementary Text 9

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Supplementary Text 9

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Supplementary Text 9

259	254	255	256	257	258	264
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-0.1179451284	-0.0938642348	-0.0996000550	-0.0776496040	-0.0916217906		
270	265	266	267	268	269	
-0.1093163050	271	272	273	274		275
-0.1021504772	-0.1008153254	-0.1188900184	-0.1246939758	-0.1025305077		
-0.1318902493	-0.1053492194	-0.1210945693	-0.1239513881	-0.1284868938		
281	276	277	278	279	280	
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-0.1048126143	-0.0996288089	-0.1143882610	-0.1063046997	-0.1092198207		
-0.0853902672	-0.1035751109	-0.1123854780	-0.1033839172	-0.0896629449		
292	287	288	289	290	291	
-0.0686537314	293	294	295	296		297
0.0021879394	-0.0529230461	-0.0451628492	-0.0309526879	-0.0065475194		
0.0298430545	0.0016152884	0.0256433704	0.0390628087	0.0320749783		
303	298	299	300	301	302	
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314	309	310	311	312	313	
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325	320	321	322	323	324	
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-0.0502835781	348	349	350	351		352
-0.0305321297	-0.0638857959	-0.0596289391	-0.0566802663	-0.0423770321		
0.0171304187	-0.0232034588	-0.0355797210	-0.0201915368	-0.0125884005		
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0.0354805445	359	360	361	362		363
0.1313973094	0.0392806536	0.0665181080	0.0982502333	0.1223798885		
0.3541336753	0.1895833280	0.2067471898	0.2235274253	0.2744253671		
369	364	365	366	367	368	
0.3033206564	370	371	372	373		374
0.1962174440	0.2784161014	0.3665645229	0.3510874622	0.2804258534		
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Supplementary Text 9

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380	381	382	383	384	385	
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Supplementary Text 9

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Q9ZSP9_40.1ns (MATRIX)

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Supplementary Text 9

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Supplementary Text 9

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Supplementary Text 9

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-6.225718e-02	-5.554111e-02	-7.587227e-02	-6.065857e-02	-4.800505e-02		
-1.176949e-02						
353	354	355	356	357		
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-1.097790e-03	7.632390e-04	4.191126e-02	7.108981e-02	8.561756e-02		
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3.300870e-01						
364	365	366	367	368		
369	370	371	372	373	374	
2.916857e-01	2.677389e-01	3.453737e-01	3.427513e-01	2.744381e-01		

Supplementary Text 9

1.954961e-01	1.340725e-01	1.693425e-01	1.954809e-01	2.474051e-01		
3.034286e-01						
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380	381	382	383	384	385	
2.490873e-01	2.618289e-01	2.594507e-01	2.775005e-01	3.149495e-01		
3.690323e-01	3.508615e-01	3.305711e-01	2.890912e-01	2.121107e-01		
1.812971e-01						
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391	392	393	394	395	396	
1.611780e-01	1.561376e-01	1.259513e-01	1.114391e-01	8.342234e-02		
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4.059737e-02						
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402	403	404	405	406	407	
5.345384e-02	6.152299e-02	6.864493e-02	6.755930e-02	7.784116e-02		
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7.456178e-02						
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413	414	415	416	417	418	
9.011037e-02	1.060301e-01	1.304111e-01	2.165947e-01	2.296420e-01		
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1.518190e-01						
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424	425	426	427	428	429	
1.111503e-01	8.382500e-02	1.000235e-01	1.372244e-01	1.461098e-01		
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435	436	437	438	439	440	
1.129326e-01	1.120583e-01	1.072353e-01	1.467138e-01	1.608993e-01		
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1.282626e-01						
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446	447	448	449	450	451	
1.427431e-01	9.630028e-02	9.989693e-02	1.657904e-01	1.845395e-01		
1.420597e-01	1.743395e-01	2.733528e-01	2.281912e-01	1.750333e-01		
2.095005e-01						
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3.444114e-01	4.189671e-01	2.707203e-01	2.528741e-01	3.454096e-01		
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3.785613e-01						
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468	469	470	471	472	473	
4.319756e-01	3.641575e-01	2.927618e-01	2.335054e-01	1.985870e-01		
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Supplementary Text 9

-1.020200e-01	-7.470737e-02	-8.330658e-02	-2.729880e-02	-3.420754e-02		
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-7.176108e-02						
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-2.873215e-02	-7.258866e-02	-1.576461e-02	-6.351118e-02	-1.341373e-02		
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5.520484e-02						
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512	513	514	515	516		517
5.999531e-02	5.858096e-02	5.915056e-02	5.500490e-02	4.938637e-02		
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-2.491698e-01	-2.337244e-01	-2.522749e-01	-2.281895e-01	-2.350864e-01		
-1.962885e-01	-1.940362e-01	-1.574462e-01	-1.127796e-01	-9.197486e-02		
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-1.580788e-01	-1.135036e-01	-6.582795e-02	-7.490661e-02	-2.285550e-02		
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8.207795e-02	3.394199e-02	-2.464683e-02	-2.665013e-02	-8.860866e-02		
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-2.464155e-01						
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556	557	558	559	560		561
-2.708843e-01	-2.613004e-01	-2.614069e-01	-1.934760e-01	-1.490610e-01		
-8.111284e-02	-4.965397e-02	1.818505e-02	4.401125e-02	8.774206e-02		
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567	568	569	570	571		572
7.568937e-02	6.709869e-02	6.937443e-02	7.648835e-02	6.921764e-02		
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-3.267871e-02	-9.102012e-02	-8.406498e-02	-1.158298e-01	-7.101522e-02		
-6.722696e-02	-1.228717e-01	-1.523422e-01	-1.928903e-01	-1.782528e-01		
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