

δaδi / 2D Population Models (11/15/2018)

(3 rounds of optimization; BFGS optimization results)

SUMMARY STATISTICS FOR ALL 26 MODELS PER COMPARISON

Populations	Model	ω_i	Log-L	AIC	Δ_i	$\exp(-0.5^*\Delta_i)$	optimized theta	n1	n2	g1	g2	hrf	m12	m21	me12	me21	Tsplit	Tam	Tsc	nr	bf	P	Q	O
East x West	SC2mG		1 -4010.4058	8044.8115	0	1	17328.0280191598	7.13593875	0.6275374	3.973328	10.8163	-	0.1485908	0.4106477	0.175769	3.6164	1.03017054	-	1.2881113	-	-	0.5115	-	0.9719
East x West	AM2mG	1.0411E-52	-4130.1	8284.1999	239.388	1.0410538E-52	16878.8236984771	7.63948387	0.3563142	2.07444	10.8727	-	1.086E-08	0.8004617	0.119356	0.6723	0.85937989	0.75866483	-	-	-	0.395	-	0.9712
East x West	IM2N	8.976E-124	-4297.7318	8611.4636	566.652	8.975744E-124	15426.0484051784	24.41217612	2.7125818	-	-	0.125	0.0771205	0.4218436	-	-	2.08648552	-	-	-	-	-	0.46959	0.9716
East x West	IM2mG	5.585E-129	-4306.7191	8635.4382	590.627	5.585269E-129	17458.2542355595	10.22501395	0.2401503	1.081748	8.21834	-	0.4420374	1.5713577	0.026777	0.1576	1.49202354	-	-	-	-	0.2885	-	0.9724
East x West	SC2N	4.049E-169	-4401.1442	8820.2884	775.477	4.04885E-169	15562.1362029934	27.10970334	3.3839792	-	-	0.125	0.1446594	0.53469	-	-	1.56832303	-	0.4133091	-	-	-	0.49759	0.9709
East x West	IM2NG	0 -5663.5202	11347.04	3302.23	0	17407.4192343167	1.75541339	0.8468866	11.55721	0.26644	0.871	2.505E-06	0.9632783	-	-	-	1.90077195	-	-	-	-	-	0.27413	0.9739
East x West	SC2N2m	0 -5719.3726	11462.745	3417.93	0	9992.50789847636	13.6733479	1.5496022	-	-	-	0.1	0.3040641	1.4450512	0.011448	0.0003	1.22026406	-	0.1620849	-	-	0.6774	0.49594	0.9728
East x West	SC2NG	0 -6221.7215	12465.443	4420.63	0	18111.4478490251	43.3709554	0.0922911	0.347047	32.6539	0.107	9.339E-08	0.7102744	-	-	-	1.91517E-05	-	1.5733419	-	-	-	0.36483	0.9733
East x West	IMG	0 -6411.1844	12838.369	4793.56	0	16420.4528809996	2.58676811	0.0939689	7.076105	24.7527	-	0.052799	0.3337602	-	-	-	1.82368951	-	-	-	-	-	-	0.9713
East x West	SC2N2mG	0 -6933.52	13895.04	5850.23	0	10015.4232673231	14.0684123	2.1633745	3.207286	0.17554	0.092	4.5461886	7.2804212	1.979658	0.8337	1.28273107	-	0.0093945	-	-	-	0.9056	0.48142	0.9738
East x West	SCG	0 -6987.1204	13992.241	5947.43	0	17977.0033600216	6.45078569	0.4373569	2.387796	6.67905	-	0.0732441	0.3150715	-	-	-	0.66438744	-	0.8186888	-	-	-	-	0.9725
East x West	SC2m	0 -7534.5452	15089.09	7044.28	0	16376.5918491478	11.51687309	1.4783959	-	-	-	0.4980219	0.5893762	22.45858	21.978	1.62679362	-	0.0780635	-	-	-	0.8615	-	0.9721
East x West	IM2m	0 -7619.8537	15257.707	7212.9	0	18219.5322029973	10.9380107	1.1135898	-	-	-	2.9682513	57.129887	0.051696	0.125	1.40846415	-	-	-	-	-	0.1672	-	0.9724
East x West	AM2m	0 -7711.9428	15443.886	7399.07	0	17528.4495436993	11.397958	1.2058421	-	-	-	0.0548411	0.1038808	1.119081	24.721	1.47895219	0.00098911	-	-	-	-	0.8272	-	0.972
East x West	AM2N2mG	0 -21777.849	15489.587	7444.78	0	15489.5874100444	6.19528819	1.0467519	2.671309	2.28628	0.184	0.6077531	0.0022455	6.84004	0.085	0.4836451	0.01565842	-	-	-	-	0.3218	0.4992	0.9806
East x West	AM2NG	0 -9140.7004	18303.401	10259	0	16142.7682203459	14.33212771	1.0802936	3.619354	13.1723	0.228	0.6746939	10.199097	-	-	-	1.46382568	0.48898035	-	-	-	-	0.49682	0.9715
East x West	AM2N2m	0 -9142.8078	18309.616	10265	0	10555.1038843184	10.9764018	1.2845638	-	-	0.119	8.6031187	3.9363262	5.18E-06	7.7514	1.07712484	1.001E-15	-	-	-	-	0.5178	0.13831	0.9747
East x West	AM2N	0 -10248.435	20514.871	12470	0	17425.2988872251	22.14150208	3.4491818	-	-	0.139	1.2945282	4.3531548	-	-	-	1.2866747	0.44676858	-	-	-	-	0.49901	0.9719
East x West	IM	0 -11143.613	22299.227	14254	0	18079.7674967285	10.03906544	1.2252384	-	-	-	0.0892563	0.2658648	-	-	-	1.46463805	-	-	-	-	-	-	0.973
East x West	AM	0 -13457.941	26929.883	18885	0	17160.9813158246	10.1313012	1.4269802	-	-	-	0.0746179	0.2628291	-	-	-	1.62095366	1.0036E-05	-	-	-	-	-	0.9718
East x West	SI2N	0 -14326.882	28665.763	20621	0	27472.9231532261	41.98434334	4.6488616	-	-	-	-	-	-	-	-	0.60756483	-	-	0.7189	0.1237	-	-	0.9792
East x West	SI2NG	0 -14617.545	29251.09	21206	0	26546.7268059285	23.60765019	5.0180821	0.755296	0.38872	0.185	-	-	-	-	-	0.67630673	-	-	-	-	-	0.49712	0.9786
East x West	AMG	0 -17793.222	35604.444	27560	0	17939.8515201685	13.74566059	0.1695119	0.608802	67.3471	-	0.4653767	29.966987	-	-	-	1.11104274	0.41248034	-	-	-	-	-	0.9723
East x West	SIG	0 -18975.063	37962.125	29917	0	28056.5286591026	79.1442541	0.3673883	0.047883	5.74326	-	-	-	-	-	-	0.55932423	-	-	-	-	-	-	0.979
East x West	SI	0 -20657.086	41322.173	33277	0	26439.4264050673	8.63407305	1.0817487	-	-	-	-	-	-	-	-	0.66833607	-	-	-	-	-	-	0.9785
East x West	SC	0 -20987.134	41988.268	33943	0	21001.6663677872	8.26222505	1.65111556	-	-	-	0.2205917	2.36E-14	-	-	-	1.02554E-01	-	1.0138721	-	-	-	-	0.9752

Populations	Model	ω_i	Log-L	AIC	ΔAIC	$\exp(-0.5^*\Delta_i)$	optimized theta	n1	n2	g1	g2	hrf	m12	m21	me12	me21	Tsplit	Tam	Tsc	nr	bf	P	Q	O	
HIM x CYR	IM2mG		1 -3020.9347	6063.8694	0	1	49243.8928082589	0.687440234	0.2700231	0.630916	13.4092	-	0.2459482	0.1551783	0.019467	6E-20	1.13611212	-	-	-	-	0.6286	-	0.9695	
HIM x CYR	AM2mG	8.9939E-28	-3082.2105	6188.4211	124.552	8.9939231E-28	52809.6486011448	0.51289826	0.2770064	0.828669	13.1418	-	0.0156504	1.0366053	0.272812	0.1392	0.05286475	0.93888456	-	-	-	-	0.3333	-	0.9722
HIM x CYR	SC2N2mG	2.1211E-72	-3182.9689	6393.9378	330.068	2.1210627E-72	21350.0622985549	0.86676167	1.543251	0.594717	19.832	0.33	0.1477919	0.0866144	2.379862	2.0507	1.15267355	-	0.1910499	-	-	-	0.9032	0.49556	0.9658
HIM x CYR	SCG	5.104E-182	-3440.3751	6898.7503	834.881	5.104205E-182	46889.7949965008	0.61139808	0.6012266	0.744825	7.01323	-	0.158005	0.0697682	-	-	0.47169517	-	0.7528963	-	-	-	-	0.9683	
HIM x CYR	IM2NG	1.084E-212	-3510.0017	7040.0033	976.134	1.084466E-212	55492.518689158	0.74149268	0.2269042	0.505536	18.4031	0.1	0.1568001	0.0917152	-	-	0.90532662	-	-	-	-	-	0.06056	0.973	
HIM x CYR	AMG	0 -4453.3979	8927.7958	2860.93	0	47661.3762739927	0.240924555	0.300167	2.427515	12.8934	-	2.14E-01	6.38E-02	-	-	-	1.2467037	0.01003274	-	-	-	-	-	0.9668	
HIM x CYR	SC2NG	0 -4787.7778	9597.5555	3533.69	0	43678.4980632364	1.24837627	3.4872838	0.281693	6.07507	0.197	0.577369	0.2729522	-	-	-	1.18918842	-	0.0585235	-	-	-	-	0.49952	0.9662
HIM x CYR	AM2N2mG	0 -7658.2752	15344.55	9280.68	0	9773.88997144055	2.85945186	2.2186038	0.239968	19.1373	0.232	0.0657477	0.1402992	19.96576	0.4099	0.71200611	4.86434225	-	-	-	-	0.636	0.25013	0.965	
HIM x CYR	AM2N	0 -7699.8363	15417.673	9353.8	0	35022.9949891439	1.05360849	4.21615	-	-	0.246	0.2204029	0.0508618	-	-	-	1.99381267	0.06754109	-	-	-	-	-	0.49928	0.9635
HIM x CYR	IMG	0 -9038.1116	18092.223	12028	0	56912.9224463653	0.408111634	0.3005715	0.878677	12.2021	-	0.2337697	1.031E-73	-	-	-	0.75830173	-	-	-	-	-	-	0.9767	
HIM x CYR	AM2m	0 -9096.7643	18213.529	12150	0	23190.6785582458	1.1414659	3.4235234	-	-	-	1.691E-27	1.7792133	0.059185	0.0219	4.61046977	0.00142756	-	-	-	-	0.2492	-	0.9598	
HIM x CYR	SC2m	0 -10249.771	20519.543	14456	0	27347.0272143167	0.82860508	2.9082578	-	-	-	1.7641143	0.2563055	0.087369	0.0339	2.16849553	-	0.63122	-	-	-	-	0.1223	-	0.9548
HIM x CYR	AM2N2m	0 -10277.302	20578.603	14515	0	18384.6052343242	0.74525714	2.5146996	-	-	0.049	0.9610074	0.0551996	0.280769	0.0944	1.69744404	0.01000202	-	-	-	-	0.0503	0.18745	0.9635	
HIM x CYR	IM2m	0 -10815.786	21649.571	15586	0	25769.4166004339	0.902189154	2.9607055	-	-	-	0.2249386	0.0521053	2.89E-07	0.014	3.21334593	-	-	-	-	-	0.574	-	0.9551	
HIM x CYR	SI2NG	0 -11117.005	22250.01	16186	0	61961.1214075802	1.03911803	0.4073683	0.40954	16.1231	0.391	-	-	-	-	-	0.52298681	-	-	-	-	-	-	0.48259	0.9793
HIM x CYR	SC	0 -11152.929	22319.857	16256	0	28772.512868326	0.81190254	2.685336	-	-	-	0.1240336	0.0433998	-	-	-	1.62586215	-	1.0370164	-	-	-	-	0.9551	
HIM x CYR	IM	0 -11532.363	23076.726	17013	0	28441.7090633091	0.81291911	2.6795254	-	-	-	0.1142851	0.0348925	-	-	-	2.80575937	-	-	-	-	-	-	0.9572	
HIM x CYR	SC2N2m	0 -11657.512	23339.023	17275	0	21568.1863843735	0.890964685	2.6617048	-	-	0.179	3.632E-29	0.0709149	4.71E-11	6.9735	0.70951731	-	-	0.571056	-	-	-	0.8496	0.49523	0.9671
HIM x CYR	SC2mG	0 -13006.701	26037.402	19974	0	94674.5056227729	0.526100086	1.0432884	0.170426	10.7531	-	0.0252219	14.886689	0.769223	3E-14	0.87574227	-	0.0811176	-	-	-	-	0.5335	-	0.9886

HIM x CYR	SIG	0 -13285.665	26583.33	20519	0	60760.8548609334	0.69973645	0.2316946	0.448002	18.5696	-	-	-	-	-	0.56176474	-	-	-	-	-	-	-	-	0.9751	
HIM x CYR	AM2NG	0 -13580.137	27182.274	21118	0	54457.9274589556	0.56124873	4.9271623	0.902472	0.03309	0.994	1.1570507	0.2029428	-	-	0.04681402	0.65627722	-	-	-	-	-	-	-	0.48262	0.9838
HIM x CYR	SI2N	0 -16111.328	32234.656	26171	0	54015.7854663181	0.70602081	2.4530092	-	-	-	-	-	-	-	0.70751405	-	-	0.326	0.1929	-	-	-	-	0.9734	
HIM x CYR	AM	0 -22445.139	44904.278	38840	0	54945.3889987509	0.497615604	1.3833164	-	-	-	17.388523	0.0102168	-	-	0.04842807	0.66033176	-	-	-	-	-	-	-	0.9788	
HIM x CYR	SI	0 -22565.863	45139.726	39076	0	55772.3080946302	0.47888983	1.3683237	-	-	-	-	-	-	-	0.6766244	-	-	-	-	-	-	-	-	0.9786	
HIM x CYR	IM2N	0 -32485.826	64987.653	58924	0	584434.790021104	0.02013133	0.1228138	-	-	0.413	10.557227	0.2882675	-	-	4.12078267	-	-	-	-	-	-	-	0.20485	0.9894	
HIM x CYR	SC2N	0 -33146.118	66310.236	60246	0	182763.354179548	0.059246187	0.3435099	-	-	0.138	3.2709865	0.100049	-	-	0.00128994	-	1.9634757	-	-	-	-	-	-	0.02285	0.9888

Populations	Model	ω_i	Log-L	AIC	Δ_i	$\exp(-0.5 \Delta_i)$	optimized theta	n1	n2	g1	g2	hrf	m12	m21	me12	me21	Tsplit	Tam	Tsc	nr	bf	P	Q	O		
HIM x EMMA	IM2N	1	-1311.2795	2638.5591	0	1	25153.9472047198	0.46579124	17.439956	-	-	0.337	0.8270331	0.080335	-	-	1.51898571	-	-	-	-	-	-	0.49531	0.9683	
HIM x EMMA	IM2NG	2.9582E-12	-1335.826	2691.6519	53.0929	2.9582231E-12	26215.1151677669	0.53746023	16.825387	0.65887	0.59017	0.208	0.6669556	0.0977061	-	-	1.39823003	-	-	-	-	-	-	0.11721	0.9691	
HIM x EMMA	SC2N	2.9499E-38	-1396.696	2811.392	172.833	2.9499053E-38	26632.6712697843	0.34738673	12.086908	-	-	0.311	0.8068273	0.0964411	-	-	0.6639186	-	0.7038028	-	-	-	-	0.18513	0.9694	
HIM x EMMA	AM2mG	1.2437E-49	-1419.8881	2863.7763	225.217	1.2436881E-49	26050.8983406854	0.59681289	11.002975	0.530646	0.87278	-	0.3640703	29.949652	0.82562	0.1095	0.12616907	1.27066662	-	-	-	-	0.1747	-	0.9692	
HIM x EMMA	SC2mG	1.765E-122	-1587.627	3199.2541	560.695	1.764512E-122	25184.6005098387	0.662978446	9.376534	0.117097	1.47004	-	3.6632103	0.1186371	0.041257	4E-25	0.97398869	-	0.0140415	-	-	-	0.5413	-	0.9685	
HIM x EMMA	SC2N2mG	2.398E-148	-1645.1875	3318.3749	679.816	2.398096E-148	13705.7544336562	0.566051976	12.082357	0.367992	0.43493	0.903	0.7195007	0.1619465	4.503304	2.9559	1.05695144	-	0.1878592	-	-	-	0.7221	0.01018	0.9708	
HIM x EMMA	IM2mG	3.551E-213	-1797.463	3616.926	978.367	3.550809E-213	26264.1498278308	0.3363268	4.9035311	0.794501	2.77338	-	0.090624	8.0444195	0.860934	0.0564	1.55654924	-	-	-	-	0.0527	-	0.9693		
HIM x EMMA	SC2m	0	-2082.9284	4185.8568	1547.3	0	29005.407429781	0.345597575	9.4685174	-	-	-	0.0002745	1.1650442	0.726677	0.1637	0.82441681	-	0.3228749	-	-	-	0.0507	-	0.971	
HIM x EMMA	SCG	0	-2711.9232	5441.8463	2803.29	0	28920.291496325	0.62104819	12.036509	0.144017	0.17635	-	1.8870524	0.6744305	-	-	1.04500799	-	0.0659229	-	-	-	-	-	0.9708	
HIM x EMMA	IM2m	0	-3176.0849	6370.1697	3731.61	0	28956.3899099009	0.189007716	9.9304143	-	-	-	73.817022	2.6959852	1.13338	1E-48	1.13217841	-	-	-	-	0.05	-	0.9712		
HIM x EMMA	IMG	0	-3272.6924	6561.3849	3922.83	0	26206.8050505237	0.725364605	6.2927206	0.295948	2.02016	-	1.0622045	0.0021676	-	-	1.38996681	-	-	-	-	-	-	-	0.9693	
HIM x EMMA	SC2N2m	0	-4797.6399	9619.2797	6980.72	0	14244.4573733346	0.611572776	9.7503762	-	-	0.802	0.0007503	0.264013	1.759546	2.0298	0.96680687	-	0.1493756	-	-	-	0.5003	0.0512	0.9719	
HIM x EMMA	AM2N	0	-4827.4695	9672.939	7034.38	0	18682.024866795	0.803313148	20.096294	-	-	0.356	25.660635	0.0017478	-	-	1.98953814	0.4386881	-	-	-	-	-	-	0.49866	0.9643
HIM x EMMA	AM2m	0	-4827.9282	9675.8565	7037.3	0	24417.9957978273	0.407944869	12.853059	-	-	-	2.3838062	1.535E-22	35.45327	7.349	1.21741018	0.36831768	-	-	-	-	0.1026	-	0.9684	
HIM x EMMA	AM2N2mG	0	-5712.6179	11453.236	8814.68	0	12459.2042829553	4.53594139	84.869461	0.051786	0.07344	0.242	1.4865385	6.7323672	3.827673	19.525	0.54643272	1.16594672	-	-	-	-	0.218	0.40343	0.9709	
HIM x EMMA	AM2NG	0	-6249.9502	12521.9	9883.34	0	28603.664039942	1.40553177	4.1075682	0.150091	15.1197	0.019	40.755992	18.885649	-	-	0.74827246	0.42515219	-	-	-	-	-	-	0.02273	0.9718
HIM x EMMA	SC	0	-10091.364	20196.729	17558	0	36341.7786076687	0.526392697	8.8357324	-	-	-	2.305E-08	0.2077066	-	-	0.00426255	-	0.6818288	-	-	-	-	-	-	0.9776
HIM x EMMA	SIG	0	-11001.86	22015.72	19377	0	40585.624473954	1.52167028	79.865559	0.155991	0.04772	-	-	-	-	-	0.53538821	-	-	-	-	-	-	-	0.9802	
HIM x EMMA	AM2N2m	0	-11182.28	22388.559	19750	0	31000.1021618978	0.33179613	5.7332954	-	-	0.429	0.1005221	7.2324047	9.902169	4.0926	0.10264477	0.92789104	-	-	-	-	0.5859	0.10342	0.9891	
HIM x EMMA	AMG	0	-11578.5	23175	20536	0	41939.3655507903	0.772599798	115.78276	0.364811	0.03116	-	0.4793839	0.2140625	-	-	3.52257E-25	0.4871549	-	-	-	-	-	-	0.9801	
HIM x EMMA	SI2NG	0	-11831.954	23679.908	21041	0	41952.7301343971	0.72214641	48.799672	0.482926	0.10111	0.124	-	-	-	-	0.49029644	-	-	-	-	-	-	0.04844	0.9813	
HIM x EMMA	SI2N	0	-13292.698	26597.396	23959	0	42315.0466097671	0.50186603	12.172313	-	-	-	-	-	-	-	0.45701458	-	-	0.3764	0.5928	-	-	-	0.9814	
HIM x EMMA	SI	0	-13512.354	27032.707	24394	0	42182.8322022229	0.41851708	9.6521284	-	-	-	-	-	-	-	0.46195632	-	-	-	-	-	-	-	0.9811	
HIM x EMMA	AM	0	-16782.983	33579.967	30941	0	71202.9538066021	0.324903834	3.8133159	-	-	-	0.0037227	10.26996	-	-	0.86870258	0.26598865	-	-	-	-	-	-	0.9851	
HIM x EMMA	SC2NG	0	-21509.289	43040.577	40402	0	39318.6324262769	0.57417848	13.87225	1.064445	0.5227	0.1	0.163121	1.0716753	-	-	1.20165207	-	6.0237654	-	-	-	-	0.39085	0.9892	
HIM x EMMA	IM	0	-27293.308	54598.616	51960	0	83109.9001848529	0.11760019	2.2610019	-	-	-	1.0502404	2.5845911	-	-	5.82051982	-	-	-	-	-	-	-	0.9894	

Populations	Model	ωi	Log-L	AIC	Δi	exp(-0.5*Δi)	optimized theta	n1	n2	g1	g2	hrf	m12	m21	me12	me21	Tsplit	Tam	Tsc	nr	bf	P	Q	O		
HIM x FAV	IM2NG	1	-1997.8957	4015.7915	0	1	25558.6667281396	0.710371638	94.271809	0.482393	0.05185	0.1	0.6548008	0.0873379	-	-	1.52632759	-	-	-	-	-	-	0.12976	0.9663	
HIM x FAV	IMG	2.9205E-32	-2072.5067	4161.0134	145.222	2.9205156E-32	26472.0210963119	0.385155863	119.26872	0.785855	0.03469	-	0.6630859	0.0855991	-	-	1.42581302	-	-	-	-	-	-	-	0.9669	
HIM x FAV	IM2mG	7.6417E-34	-3305.5302	4168.3	152.509	7.6417283E-34	35791.1902223834	0.109112449	118.43936	2.580734	0.02914	-	0.9338346	3.7832399	0.702377	0.0591	1.3362751	-	-	-	-	-	0.3241	-	0.9754	
HIM x FAV	SCG	4.381E-69	-2156.2968	4330.5937	314.802	4.3809728E-69	26861.0714670099	0.35531201	32.102091	0.789012	0.07872	-	0.7590714	0.1251569	-	-	0.91671756	-	0.4755573	-	-	-	-	-	0.9671	
HIM x FAV	SC2NG	3.4429E-95	-2214.405	4450.8101	435.019	3.4428568E-95	26941.126381453	0.456735449	38.396346	0.462493	0.03481	0.1	1.0099546	0.2238434	-	-	1.12178068	-	0.2709854	-	-	-	-	-	0.02954	0.9674
HIM x FAV	SC2N2m	1.8787E-99	-2223.2211	4470.4422	454.651	1.8787092E-99	11909.7986860315	0.40674861	9.5591769	-	-	0.989	0.3800539	0.0504732	1.13095	0.8565	0.03390512	-	1.8386089	-	-	-	0.5991	0.39114	0.9666	
HIM x FAV	SC2mG	2.502E-104	-2234.4475	4492.8949	477.103	2.502092E-104	25847.7812308592	0.59257064	21.438412	0.490178	0.20574	-	0.5973958	0.0997856	0.000434	1.6562	0.76752047	-	0.0109764	-	-	-	0.9482	-	0.9657	
HIM x FAV	IM2m	9.558E-134	-2305.1848	4628.3696	612.578	9.557582E-134	23406.2452320607	0.42204431	9.9961322	-	-	-	2.38956	2.4660763	0.389281	0.0617	1.90146134	-	-	-	-	-	0.1005	-	0.9659	
HIM x FAV	AM2m	5.122E-146	-2332.4396	4684.8792	669.088	5.12226E-146	24319.2181234304	0.383477808	9.2971281	-	-	-	0.3017629	2.61E-27	0.651328	0.1452	1.7274144	0.00418713	-	-	-	-	0.3037	-	0.9652	
HIM x FAV	AM	1.03E-223	-2514.3426	5042.6853	1026.89	1.030022E-223	24499.8509202003	0.38121204	9.2334211	-	-	-	0.5645105	0.0766744	-	-	1.68293717	0.01171578	-	-	-	-	-	-	0.9654	
HIM x FAV	SC2N	0 -2707.3984	5432.7967	1417	0	23937.9786355773	0.45645077	13.077089	-	-	0.513	0.6225205	0.0742418	-	-	0.86066241	-	0.9176069	-	-	-	-	-	0.49635	0.9652	
HIM x FAV	AM2mG	0 -2943.2038	5910.4075	1894.62	0	24761.7372690689	10.7623701	22.844807	0.022043	0.28573	-	28.564884	4.8563421	0.711865	0.196	0.00103156	1.62808478	-	-	-	-	0.2321	-	0		
HIM x FAV	SC2m	0 -7268.0677	7268.0677	3252.28	0	34038.9706120567	0.475972105	7.3103213	-	-	-	0.0014661	0.0012886	0.752656	0.5688	0.79965256	-	0.0782033	-	-	-	0.149	-	0.9726		
HIM x FAV	AMG	0 -3965.8748	7949.7496	3934	0	23763.6008269702	15.4709878	9.8720848	0.010151	0.90924	-	1.5347908	0.0934512	-	-	1.66461882	0.14075458	-	-	-	-	-	-	0.9642		
HIM x FAV	AM2N2mG	0 -4267.1526	8562.3053	4546.51	0	7875.82963000354	0.39964581	43.046508	2.88784	0.06648	0.144	1.421813	0.106405	17.58253	8.23	0.30172982	3.33593365	-	-	-	-	-	0.4125	0.24537	0.9614	

HIM x FAV	SC2N2mG	0 -4550.2478	9128.4957	5112.7	0	15497.7953073325	0.63204934	8.9226024	0.302802	0.3973	0.472	0.0225141	0.2915009	4.107999	2.0193	0.98937154	-	0.1044966	-	-	0.5042	0.01094	0.9705
HIM x FAV	AM2N	0 -5430.7982	10879.596	6863.8	0	25147.2116660921	0.43689229	9.372431	-	-	0.101	7.8328393	1.0586015	-	-	1.36961975	0.381711	-	-	-	0.04719	0.9668	
HIM x FAV	AM2N2m	0 -6497.6073	13019.215	9003.42	0	13799.7872661187	0.44648456	8.8094298	-	-	0.993	0.7857423	3.5159538	9.333569	1.8074	1.17683892	0.20182138	-	-	-	0.0516	0.12025	0.969
HIM x FAV	AM2NG	0 -9583.4785	19188.957	15173	0	32675.840240036	2.91042818	64.854282	0.11541	0.04364	0.274	9.2300396	0.0376092	-	-	0.51909197	0.42411181	-	-	-	-	0.49706	0.9735
HIM x FAV	SIG	0 -11765.693	23543.385	7056.39	0	38533.5404489932	4.48398046	79.512866	0.045317	0.03779	-	-	-	-	-	0.67730669	-	-	-	-	-	0.9755	
HIM x FAV	IM2N	0 -12281.452	24578.905	20563	0	34631.8893745159	0.633508046	7.6265609	-	-	0.1	5.119E-07	0.2351048	-	-	0.88115166	-	-	-	-	-	0.04819	0.9747
HIM x FAV	SI2NG	0 -12827.307	25670.613	21655	0	39458.5232037381	1.49922613	46.123159	0.257758	0.11811	0.449	-	-	-	-	0.61877327	-	-	-	-	-	0.34929	0.9767
HIM x FAV	SC	0 -12839.734	25693.469	21678	0	36509.4029910924	0.551349567	7.3782094	-	-	-	1.86E-237	3.0839275	-	-	0.7210081	-	0.0142889	-	-	-	-	0.9758
HIM x FAV	SI	#DIV/0! -16486.492	32980.983	28965	0	43487.1260407714	0.41477372	7.1805317	-	-	-	-	-	-	-	0.48567282	-	-	-	-	-	-	0.98
HIM x FAV	SI2N	#DIV/0! -16485.714	32983.428	28968	0	43465.9246658248	0.41933762	7.0901191	-	-	-	-	-	-	-	0.48788896	-	-	0.0695	0.9492	-	-	0.9801
HIM x FAV	IM	#DIV/0! -16486.991	32985.982	28970	0	43371.7456974778	0.418679122	7.0884924	-	-	-	1.703E-08	3.5E-39	-	-	0.49002173	-	-	-	-	-	-	0.9806