Results for ModRev v1.1 under stable state observations using ASP for function search with 600s time limit

(%)				FY			SP			TCR			MCC			Th		
F	E	R	A	Avg. (s)	Med. (s)	#Unsolved	Avg. (s)	Med. (s)	#Unsolved	Avg. (s)	Med. (s)	#Unsolved	Avg. (s)	Med. (s)	#Unsolved	Avg. (s)	Med. (s)	#Unsolved
5	0	0	0	0,036	0,028	0	0,035	0,030	0	0,044	0,037	0	0,019	0,016	0	0,031	0,031	0
25	0	0	0	0,043	0,041	0	0,057	0,056	0	0,054	0,053	0	0,022	0,016	0	0,047	0,047	0
50	0	0	0	0,055	0,045	0	0,084	0,083	0	0,067	0,064	0	0,030	0,027	0	0,076	0,076	0
100	0	0	0	0,073	0,058	0	0,138	0,136	0	0,102	0,099	0	0,041	0,035	0	0,133	0,129	0
0	5	0	0	0,352	0,051	7	30,018	0,686	2	0,137	0,041	0	0,049	0,014	0	3,900	0,046	5
0	10	0	0	1,919	0,098	19	66,462	21,577	18	0,238	0,056	0	1,099	0,034	0	18,742	0,099	9
0	15	0	0	4,567	0,157	31	86,897	32,201	28	0,312	0,090	0	4,198	0,064	0	34,991	0,187	14
0	20	0	0	8,014	0,186	43	99,264	34,315	54	0,407	0,127	0	9,901	0,108	2	41,761	0,235	20
0	25	0	0	10,355	0,378	49	108,946	43,391	65	0,445	0,599	0	20,201	0,183	2	54,127	0,597	27
0	50	0	0	26,150	10,956	82	515,652	515,652	99	0,700	0,713	0	130,428	79,366	20	124,088	1,606	55
0	75	0	0	16,091	0,409	97			100	1,001	0,874	0	227,534	221,829	82	150,014	21,866	85
0	0	1	0	0,171	0,034	6	1,845	0,034	4	2,826	0,031	0	0,014	0,010	0	1,235	0,018	3
0	0	5	0	0,427	0,049	14	4,638	1,192	15	12,044	0,038	0	0,016	0,011	0	3,537	0,371	7
0	0	10	0	0,833	0,091	20	10,554	2,526	25	14,046	0,061	0	0,018	0,011	0	3,665	0,414	10
0	0	15	0	0,895	0,109	27	11,126	3,037	30	20,102	5,329	0	0,018	0,011	0	5,458	0,807	11
0	0	0	1	0,584	0,036	0	22,019	0,451	23	5,589	0,101	0	0,048	0,011	0	0,411	0,050	13
0	0	0	5	22,414	0,383	5	107,806	6,329	76	70,951	3,268	57	0,628	0,036	1	60,581	0,590	68
0	0	0	10	25,627	3,169	18	377,806	416,840	97	4,400	4,400	98	4,749	0,227	3	133,721	16,471	93
0	0	0	15	53,629	3,522	34			100			100	7,255	0,281	7			100
25	5	0	0	0,169	0,057	11	18,438	0,289	5	0,163	0,063	0	0,042	0,025	0	0,833	0,066	7
50	25	0	0	13,936	0,767	31	123,227	86,083	65	0,589	0,302	0	31,957	0,229	3	23,477	0,419	24
100	50	0	0	33,740	7,280	69	229,134	269,408	93	0,874	0,941	0	97,079	39,688	30	44,347	2,021	56
5	25	5	5	11,651	0,806	53	142,766	62,721	97	33,351	2,712	82	39,836	0,610	14	86,067	10,743	72
10	10	5	5	7,927	0,490	33	108,483	31,067	87	37,640	3,872	76	7,178	0,124	7	62,835	1,868	69

Corruption parameters

F (%) - Probability of changing a function
E (%) - Probability of changing the sign of an edge
R (%) - Probability of removing a regulator
A (%) - Probability of adding a regulator

Models

FY - Fission Yeast (doi:10.1371/journal.pone.0001672)
SP - Segment Polarity (doi:10.1387/ijdb.072439ls)
TCR - TCR Signalisation (doi:10.1186/1471-2105-7-56)
MCC - Mammalian Cell cycle (doi:10.1093/bioinformatics/btl210)

Avg. (s) - Average time in seconds of solved instances
Med. (s) - Median time in seconds of solved instances
#Unsolved - Number of unsolved instances (out of 100)
considering a time limit of 600 seconds
and a memory limit of 2GB

ModRev is a Model Revision tool for Boolean logical models of biological regulatory networks available at https://filipegouveia.github.io/ModelRevisionASP/

Results for ModRev v1.2.3 under stable state observations using C++ for function search with 600s time limit

(%)				FY			SP			TCR			MCC			Th		
F	E	R	A	Avg. (s)	Med. (s)	#Unsolved	Avg. (s)	Med. (s)	#Unsolved	Avg. (s)	Med. (s)	#Unsolved	Avg. (s)	Med. (s)	#Unsolved	Avg. (s)	Med. (s)	#Unsolved
5	0	0	0	0,021	0,021	0	0,022	0,022	0	0,032	0,033	0	0,010	0,011	0	0,014	0,014	0
25	0	0	0	0,021	0,022	0	0,022	0,023	0	0,031	0,032	0	0,011	0,011	0	0,014	0,014	0
50	0	0	0	0,021	0,021	0	0,023	0,024	0	0,033	0,034	0	0,011	0,010	0	0,014	0,014	0
100	0	0	0	0,021	0,021	0	0,026	0,027	0	0,034	0,035	0	0,010	0,009	0	0,015	0,015	0
0	5	0	0	9,922	0,023	5	2,368	0,030	1	0,032	0,033	0	0,011	0,008	0	3,184	0,016	5
0	10	0	0	23,355	0,026	15	10,703	0,195	6	0,033	0,034	0	0,019	0,012	0	21,346	0,015	7
0	15	0	0	49,343	0,030	23	19,322	0,290	10	0,034	0,034	0	0,256	0,013	0	42,021	0,018	9
0	20	0	0	67,822	0,030	34	28,865	0,988	16	0,034	0,035	0	6,141	0,015	0	50,489	0,022	12
0	25	0	0	82,597	0,034	39	33,039	1,093	20	0,035	0,035	0	6,566	0,019	0	78,785	0,023	17
0	50	0	0	60,904	2,621	80	100,783	20,569	67	0,038	0,038	0	33,729	0,960	1	90,984	0,571	22
0	75	0	0	119,655	3,647	96	32,784	19,486	96	0,040	0,041	0	114,468	110,227	38	53,441	0,955	10
0	0	1	0	0,026	0,023	6	0,179	0,023	0	0,041	0,033	0	0,010	0,009	0	0,019	0,015	3
0	0	5	0	0,243	0,023	13	0,435	0,030	0	0,065	0,034	0	0,010	0,009	0	0,122	0,017	7
0	0	10	0	0,243	0,023	17	0,711	0,165	0	0,061	0,031	0	0,010	0,008	0	0,221	0,020	10
0	0	15	0	0,742	0,024	18	0,759	0,129	0	0,085	0,055	0	0,010	0,009	0	0,266	0,020	11
0	0	0	1	0,043	0,024	0	2,673	0,035	11	0,053	0,036	0	0,010	0,009	0	2,702	0,017	2
0	0	0	5	7,533	0,046	0	24,186	16,020	36	31,402	0,959	29	3,559	0,012	0	27,395	1,375	40
0	0	0	10	21,785	0,146	6	69,102	21,879	87	146,019	47,995	87	3,919	0,016	0	93,597	25,672	72
0	0	0	15	35,451	0,213	12	216,824	216,824	99			100	6,247	0,020	0	183,331	261,087	97
25	5	0	0	23,203	0,025	6	2,913	0,029	1	0,034	0,034	0	0,011	0,010	0	6,270	0,018	6
50	25	0	0	76,736	0,034	20	30,432	1,183	31	0,037	0,037	0	4,807	0,022	0	57,293	0,023	6
100	50	0	0	185,835	7,146	51	87,609	31,990	54	0,044	0,044	0	32,196	2,097	3	59,685	1,604	20
5	25	5	5	42,181	0,219	36	87,096	28,554	86	16,517	0,387	61	8,092	0,035	5	61,837	1,302	46
10	10	5	5	34,585	0,045	16	29,215	6,134	64	29,280	1,854	35	0,839	0,016	2	33,992	1,252	42

Corruption parameters

F (%) - Probability of changing a function
E (%) - Probability of changing the sign of an edge
R (%) - Probability of removing a regulator
A (%) - Probability of adding a regulator

Models

FY - Fission Yeast   (doi:10.1371/journal.pone.0001672)
SP - Segment Polarity   (doi:10.1387/ijdb.072439ls)
TCR - TCR Signalisation   (doi:10.1186/1471-2105-7-56)
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Avg. (s) - Average time in seconds of solved instances
Med. (s) - Median time in seconds of solved instances
#Unsolved - Number of unsolved instances (out of 100) considering a time limit of 600 seconds and a memory limit of 2GB

ModRev is a Model Revision tool for Boolean logical models of biological regulatory networks available at https://filipegouveia.github.io/ModelRevisionASP/

Results for ModRev v1.2.3 under stable state observations using C++ for function search with 3600s time limit

(%)				FY			SP			TCR			MCC			Th		
F	E	R	A	Avg. (s)	Med. (s)	#Unsolved	Avg. (s)	Med. (s)	#Unsolved	Avg. (s)	Med. (s)	#Unsolved	Avg. (s)	Med. (s)	#Unsolved	Avg. (s)	Med. (s)	#Unsolved
5	0	0	0	0,021	0,021	0	0,022	0,022	0	0,032	0,033	0	0,010	0,011	0	0,014	0,014	0
25	0	0	0	0,021	0,022	0	0,022	0,023	0	0,031	0,032	0	0,011	0,011	0	0,014	0,014	0
50	0	0	0	0,021	0,022	0	0,023	0,024	0	0,033	0,034	0	0,011	0,010	0	0,014	0,014	0
100	0	0	0	0,021	0,021	0	0,026	0,027	0	0,034	0,035	0	0,010	0,009	0	0,015	0,015	0
0	5	0	0	47,043	0,023	0	2,368	0,030	1	0,032	0,033	0	0,011	0,008	0	58,700	0,016	0
0	10	0	0	139,205	0,027	0	10,703	0,195	6	0,033	0,034	0	0,019	0,012	0	94,927	0,015	0
0	15	0	0	222,487	0,033	0	71,062	0,306	7	0,034	0,034	0	0,256	0,013	0	134,074	0,019	0
0	20	0	0	326,316	4,652	0	93,628	1,072	12	0,034	0,035	0	6,141	0,015	0	171,773	0,026	0
0	25	0	0	407,593	141,571	0	137,763	1,960	15	0,035	0,035	0	6,566	0,019	0	243,159	0,273	0
0	50	0	0	954,266	721,056	0	544,176	224,736	50	0,038	0,038	0	44,685	1,121	0	297,434	32,711	0
0	75	0	0	1517,655	1405,030	0	1089,124	803,081	85	0,040	0,041	0	458,875	208,973	0	134,983	0,992	0
0	0	1	0	0,026	0,023	6	0,179	0,023	0	0,041	0,033	0	0,010	0,009	0	0,019	0,015	3
0	0	5	0	0,243	0,023	13	0,435	0,030	0	0,065	0,034	0	0,010	0,009	0	0,122	0,017	7
0	0	10	0	0,243	0,023	17	0,711	0,165	0	0,067	0,036	0	0,010	0,008	0	0,221	0,020	10
0	0	15	0	0,742	0,024	18	0,759	0,129	0	0,085	0,055	0	0,010	0,009	0	0,266	0,020	11
0	0	0	1	0,043	0,024	0	21,869	0,035	10	0,053	0,036	0	0,010	0,009	0	2,702	0,017	2
0	0	0	5	7,533	0,046	0	115,744	16,053	33	46,981	0,977	28	3,559	0,012	0	27,395	1,375	40
0	0	0	10	36,869	0,148	5	638,044	133,642	80	573,929	197,227	83	3,919	0,016	0	382,495	71,815	65
0	0	0	15	118,670	0,227	7	710,902	710,902	98			100	6,247	0,020	0	1269,273	263,372	95
25	5	0	0	68,623	0,026	0	2,913	0,029	1	0,034	0,034	0	0,011	0,010	0	68,511	0,018	0
50	25	0	0	282,054	0,786	0	157,226	2,582	21	0,037	0,037	0	4,807	0,022	0	105,260	0,024	0
100	50	0	0	893,875	603,361	1	381,256	53,331	43	0,044	0,044	0	59,727	2,689	0	192,706	32,738	0
5	25	5	5	402,601	0,456	19	1174,075	454,305	73	563,139	1,004	51	38,369	0,035	4	313,578	2,456	37
10	10	5	5	57,412	0,047	13	619,409	31,409	49	368,948	12,989	25	0,839	0,016	2	209,292	1,561	36

Corruption parameters

F (%) - Probability of changing a function
E (%) - Probability of changing the sign of an edge
R (%) - Probability of removing a regulator
A (%) - Probability of adding a regulator

Models

FY - Fission Yeast (doi:10.1371/journal.pone.0001672)
SP - Segment Polarity (doi:10.1387/ijdb.072439ls)
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Avg. (s) - Average time in seconds of solved instances
Med. (s) - Median time in seconds of solved instances
#Unsolved - Number of unsolved instances (out of 100) considering a time limit of 3600 seconds and a memory limit of 2GB

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Results for ModRev v1.2.3 with 5 observations with 20 time-steps under synchronous dynamics

(%)				FY			SP			TCR			MCC			Th		
F	E	R	A	Avg. (s)	Med. (s)	#Unsolved	Avg. (s)	Med. (s)	#Unsolved	Avg. (s)	Med. (s)	#Unsolved	Avg. (s)	Med. (s)	#Unsolved	Avg. (s)	Med. (s)	#Unsolved
5	0	0	0	0,370	0,351	0	0,671	0,493	0	0,590	0,570	0	0,678	0,384	0	0,999	0,493	0
25	0	0	0	0,363	0,344	0	1,002	0,515	0	0,624	0,584	0	0,709	0,398	0	1,531	0,503	0
50	0	0	0	0,362	0,341	0	1,193	0,539	0	0,626	0,591	0	1,884	0,407	0	1,988	0,520	0
100	0	0	0	0,323	0,318	0	1,910	0,605	0	0,643	0,605	0	2,768	0,428	0	4,428	0,518	0
0	5	0	0	151,053	0,424	0	23,263	0,766	8	47,559	0,564	0	228,281	0,648	22	4,097	0,499	0
0	10	0	0	253,263	0,756	2	57,879	0,989	19	68,883	0,562	0	345,673	1,008	29	7,193	0,548	0
0	15	0	0	611,574	237,375	5	84,908	13,335	25	94,456	0,604	0	527,698	439,478	43	11,809	0,758	0
0	20	0	0	783,316	471,110	9	99,780	26,613	36	128,838	0,654	0	573,800	445,633	56	13,864	0,796	0
0	25	0	0	1006,330	475,483	9	122,234	37,737	44	130,726	0,660	0	534,667	446,348	67	14,399	11,818	0
0	50	0	0	1687,878	1233,490	40	193,176	226,468	81	202,630	0,808	0	1714,987	1641,190	89	30,699	27,519	0
0	75	0	0	2078,331	2537,190	76	847,240	318,779	90	163,514	1,684	0	2237,030	2237,030	99	50,794	54,019	0
0	0	1	0	173,969	0,396	18	54,214	0,781	14	0,648	0,603	3	431,983	0,655	16	0,597	0,512	24
0	0	5	0	145,952	0,395	32	83,629	9,822	44	2,917	0,813	9	551,071	3,315	36	6,150	0,553	40
0	0	10	0	153,948	0,487	35	133,729	15,615	53	4,433	1,403	11	511,235	4,946	54	3,220	0,739	61
0	0	15	0	126,155	0,669	39	333,519	31,110	66	23,010	2,304	20	599,740	5,961	60	18,754	0,830	69
0	0	0	1	0,428	0,361	0	14,984	0,810	32	6,370	1,587	0	12,066	0,648	23	15,936	1,632	12
0	0	0	5	22,332	0,432	1	133,954	22,878	77	1221,388	533,617	80	65,005	1,156	38	230,699	7,779	69
0	0	0	10	63,957	0,851	9	1008,229	465,962	97			100	200,018	67,062	60	265,610	31,696	97
0	0	0	15	166,218	2,918	18			100			100	194,446	57,615	82			100
25	5	0	0	94,188	0,355	0	28,089	0,818	11	40,823	0,561	0	141,176	0,645	24	6,133	0,500	0
50	25	0	0	839,938	471,929	9	85,660	25,524	51	168,599	0,597	0	784,962	546,629	72	20,355	10,356	0
100	50	0	0	1546,241	1380,905	22	211,082	84,279	81	478,367	1,104	0	1217,415	1216,500	91	27,788	11,010	0
5	25	5	5	1088,608	471,932	56	1081,923	500,249	97	1783,888	1453,270	95	1141,617	1071,785	92	924,193	88,985	88
10	10	5	5	436,920	0,699	39	851,979	381,668	93	685,947	115,152	87	1094,204	788,874	74	474,074	16,871	80

Corruption parameters

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Models

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Results for ModRev v1.3.1 with 5 observations with 20 time-steps under asynchronous dynamics

(%)				FY			SP			TCR			MCC			Th		
F	E	R	A	Avg. (s)	Med. (s)	#Unsolved	Avg. (s)	Med. (s)	#Unsolved	Avg. (s)	Med. (s)	#Unsolved	Avg. (s)	Med. (s)	#Unsolved	Avg. (s)	Med. (s)	#Unsolved
5	0	0	0	16,562	16,363	0	25,005	24,411	0	28,710	28,652	0	17,398	17,151	0	16,485	16,393	0
25	0	0	0	16,668	16,538	0	25,639	25,128	0	29,343	28,997	0	17,505	17,254	0	16,956	16,582	0
50	0	0	0	15,957	15,911	0	26,373	26,060	0	28,970	28,819	0	17,528	17,348	0	16,488	16,355	0
100	0	0	0	14,807	14,701	0	29,322	28,815	0	30,458	29,851	0	17,552	17,305	0	16,786	16,614	0
0	5	0	0	109,487	16,377	0	116,984	33,587	24	28,609	28,588	0	33,110	16,559	16	23,235	16,477	0
0	10	0	0	143,790	16,477	1	273,981	33,564	44	29,504	28,921	0	18,575	17,042	16	27,603	16,603	0
0	15	0	0	302,315	17,737	3	401,163	33,261	57	69,856	28,764	0	45,327	17,205	23	32,722	16,532	0
0	20	0	0	475,940	16,348	4	697,376	33,984	65	132,233	28,515	0	74,439	18,005	32	37,723	16,438	0
0	25	0	0	523,951	16,533	4	1050,159	140,906	73	165,542	28,289	0	86,615	17,906	43	37,715	16,677	0
0	50	0	0	1046,724	17,752	18	1590,402	1369,147	92	480,665	30,341	0	269,559	28,443	52	45,745	54,474	0
0	75	0	0	1374,024	57,402	46	2823,235	2658,765	96	1114,170	1323,950	0	399,089	88,909	73	48,493	55,138	0
0	0	1	0	15,009	15,420	2	46,902	33,046	15	28,063	27,952	0	16,741	16,531	0	15,927	15,792	4
0	0	5	0	13,909	14,156	5	82,851	25,152	33	27,306	27,647	0	15,714	15,838	0	15,339	15,355	6
0	0	10	0	12,545	12,327	5	129,420	29,898	35	24,531	25,874	0	15,334	15,134	0	14,832	14,958	6
0	0	15	0	11,759	11,523	4	188,572	31,302	50	22,502	21,658	0	15,042	14,997	0	13,887	14,130	8
0	0	0	1	16,322	16,461	0	222,456	34,351	24	33,821	33,504	0	56,258	16,801	0	41,263	18,259	12
0	0	0	5	25,568	16,014	0	744,221	43,526	75	211,442	50,755	36	101,902	19,654	12	297,203	24,737	56
0	0	0	10	16,464	16,156	4	738,437	145,950	96			100	257,200	86,724	31	1045,175	789,611	91
0	0	0	15	18,688	16,009	12	44,554	44,554	99	39,644	39,644	99	410,092	241,163	42			100
25	5	0	0	60,738	16,052	0	65,739	33,166	30	28,071	28,019	0	26,128	17,007	16	21,036	17,630	0
50	25	0	0	507,558	15,358	3	943,385	122,151	67	88,800	28,519	0	165,400	19,797	35	29,453	16,198	0
100	50	0	0	1292,601	17,042	3	1777,356	2162,700	85	594,652	30,550	2	315,118	31,741	45	32,723	16,700	0
5	25	5	5	530,478	15,259	13	1389,377	972,294	90	825,188	91,886	59	459,281	18,736	56	450,681	48,568	62
10	10	5	5	231,279	14,960	4	1008,699	161,689	92	422,554	63,104	38	230,970	18,462	39	301,354	25,621	63

Corruption parameters

F (%) - Probability of changing a function
E (%) - Probability of changing the sign of an edge
R (%) - Probability of removing a regulator
A (%) - Probability of adding a regulator

Models

FY - Fission Yeast (doi:10.1371/journal.pone.0001672)
SP - Segment Polarity (doi:10.1387/ijdb.072439ls)
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Results for ModRev v1.2.3 with 5 observations with 3 time-steps under synchronous dynamics

(%)				FY			SP			TCR			MCC			Th		
F	E	R	A	Avg. (s)	Med. (s)	#Unsolved	Avg. (s)	Med. (s)	#Unsolved	Avg. (s)	Med. (s)	#Unsolved	Avg. (s)	Med. (s)	#Unsolved	Avg. (s)	Med. (s)	#Unsolved
5	0	0	0	0,034	0,034	0	0,047	0,043	0	0,079	0,075	0	0,036	0,034	0	0,539	0,049	0
25	0	0	0	0,036	0,036	0	0,060	0,053	0	0,082	0,076	0	0,035	0,034	0	1,124	0,052	0
50	0	0	0	0,038	0,038	0	0,061	0,052	0	0,092	0,087	0	0,039	0,039	0	1,523	0,049	0
100	0	0	0	0,034	0,034	0	0,496	0,062	0	0,095	0,088	0	0,041	0,039	0	3,984	0,051	0
0	5	0	0	149,036	0,052	0	6,982	0,052	8	47,528	0,082	0	277,263	0,047	0	3,961	0,052	0
0	10	0	0	250,899	0,155	2	23,743	0,070	19	68,926	0,089	0	401,233	0,149	0	7,538	0,054	0
0	15	0	0	609,957	233,752	5	34,089	0,294	25	155,237	0,083	0	587,550	22,387	2	11,938	0,122	0
0	20	0	0	784,269	466,990	9	31,369	0,494	36	254,787	0,086	0	659,563	441,555	2	14,479	0,140	0
0	25	0	0	1004,311	468,244	9	40,917	0,515	44	273,838	0,104	0	769,427	484,609	5	13,759	7,217	0
0	50	0	0	1712,721	1269,560	39	84,042	86,718	81	551,012	1,178	0	1359,549	1261,060	22	31,704	29,349	0
0	75	0	0	2072,776	2505,265	76	790,819	193,801	90	807,193	667,769	0	2324,141	2616,250	65	49,879	51,357	0
0	0	1	0	290,335	0,048	12	44,465	0,054	7	0,097	0,085	3	358,055	0,042	6	0,391	0,053	18
0	0	5	0	282,751	0,068	25	60,434	0,127	28	2,515	0,147	6	537,688	0,571	18	0,863	0,076	31
0	0	10	0	337,528	0,242	27	148,221	1,995	35	2,258	0,319	8	574,117	1,548	32	3,584	0,225	44
0	0	15	0	468,393	0,536	25	228,163	8,817	33	14,432	0,600	11	580,600	4,103	30	11,624	1,528	46
0	0	0	1	0,105	0,043	0	62,692	0,113	20	4,616	0,387	0	5,811	0,042	13	26,934	0,144	13
0	0	0	5	5,227	0,075	1	278,937	35,142	68	1119,846	608,474	79	17,177	0,107	28	173,428	3,903	61
0	0	0	10	33,375	0,424	8	138,024	95,579	94			100	68,031	4,704	42	563,541	24,332	95
0	0	0	15	150,653	1,753	16			100			100	99,678	53,101	67			100
25	5	0	0	93,504	0,040	0	4,408	0,055	11	52,813	0,077	0	161,307	0,042	0	5,855	0,048	0
50	25	0	0	861,516	467,008	8	45,736	2,157	51	222,688	0,112	0	838,546	575,054	9	20,738	6,490	0
100	50	0	0	1563,853	1378,030	21	92,662	98,487	80	660,699	0,868	0	1492,257	1367,830	22	27,360	9,100	0
5	25	5	5	1072,227	468,463	45	862,258	539,042	89	1709,468	2305,500	93	792,369	49,447	62	975,991	348,559	81
10	10	5	5	508,984	0,338	30	409,681	45,839	80	540,447	105,732	85	841,158	441,759	48	473,617	25,765	74

Corruption parameters

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A (%) - Probability of adding a regulator

Models

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Results for ModRev v1.3.1 with 5 observations with 3 time-steps under asynchronous dynamics

(%)				FY			SP			TCR			MCC			Th		
F	E	R	A	Avg. (s)	Med. (s)	#Unsolved	Avg. (s)	Med. (s)	#Unsolved	Avg. (s)	Med. (s)	#Unsolved	Avg. (s)	Med. (s)	#Unsolved	Avg. (s)	Med. (s)	#Unsolved
5	0	0	0	0,251	0,286	0	0,406	0,395	0	0,498	0,500	0	0,295	0,300	0	0,306	0,292	0
25	0	0	0	0,259	0,250	0	0,448	0,441	0	0,503	0,504	0	0,338	0,344	0	0,352	0,355	0
50	0	0	0	0,272	0,281	0	0,450	0,433	0	0,578	0,604	0	0,332	0,332	0	0,332	0,320	0
100	0	0	0	0,272	0,268	0	0,399	0,396	0	0,567	0,538	0	0,301	0,318	0	0,343	0,349	0
0	5	0	0	0,302	0,299	0	0,488	0,497	0	0,561	0,524	0	3,080	0,351	0	0,289	0,284	0
0	10	0	0	0,328	0,302	0	0,480	0,500	0	0,560	0,522	0	5,550	0,298	1	0,287	0,283	0
0	15	0	0	0,405	0,306	0	0,392	0,387	0	0,528	0,520	0	11,026	0,384	1	0,354	0,355	0
0	20	0	0	1,170	0,355	0	0,442	0,442	0	0,564	0,527	0	8,848	0,348	4	0,340	0,322	0
0	25	0	0	1,594	0,318	0	0,436	0,431	0	0,531	0,525	0	11,041	0,322	4	0,333	0,305	0
0	50	0	0	33,478	1,582	0	0,494	0,503	0	0,565	0,530	0	29,372	0,706	20	0,415	0,326	0
0	75	0	0	238,936	34,151	0	0,387	0,384	0	0,572	0,531	0	39,783	1,550	53	0,824	0,523	0
0	0	1	0	0,328	0,341	0	0,466	0,485	0	0,518	0,500	0	0,289	0,289	0	0,310	0,292	0
0	0	5	0	0,241	0,239	0	0,368	0,372	0	0,526	0,495	0	0,300	0,296	0	0,294	0,282	0
0	0	10	0	0,263	0,260	0	0,373	0,370	0	0,437	0,449	0	0,257	0,250	0	0,278	0,270	0
0	0	15	0	0,206	0,205	0	0,363	0,354	0	0,459	0,456	0	0,238	0,236	0	0,266	0,258	0
0	0	0	1	0,223	0,189	0	0,416	0,413	0	0,652	0,625	0	0,339	0,311	0	0,324	0,320	0
0	0	0	5	0,593	0,301	0	1,186	0,476	1	18,075	1,035	11	0,372	0,306	0	32,000	0,423	6
0	0	0	10	3,302	0,283	3	48,156	0,657	6	191,895	14,397	43	78,615	0,318	0	293,350	4,282	26
0	0	0	15	7,528	0,315	6	117,468	0,816	16	533,185	63,266	84	148,966	0,342	3	383,454	130,733	67
25	5	0	0	0,308	0,327	0	0,400	0,397	0	0,528	0,504	0	0,352	0,338	0	0,298	0,295	0
50	25	0	0	1,112	0,307	0	0,503	0,508	0	0,559	0,530	0	8,637	0,353	2	0,290	0,287	0
100	50	0	0	101,106	0,419	0	0,483	0,487	0	0,522	0,521	0	23,627	0,614	22	0,430	0,300	0
5	25	5	5	20,932	0,329	2	0,956	0,541	0	7,243	1,011	13	27,194	0,356	6	125,318	0,692	10
10	10	5	5	11,186	0,254	1	17,668	0,467	0	30,571	1,113	7	5,901	0,341	1	33,689	0,471	7

Corruption parameters

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A (%) - Probability of adding a regulator

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Results for ModRev v1.2.3 with 1 observation with 20 time-steps under synchronous dynamics

(%)				FY			SP			TCR			MCC			Th		
F	E	R	A	Avg. (s)	Med. (s)	#Unsolved	Avg. (s)	Med. (s)	#Unsolved	Avg. (s)	Med. (s)	#Unsolved	Avg. (s)	Med. (s)	#Unsolved	Avg. (s)	Med. (s)	#Unsolved
5	0	0	0	0,039	0,038	0	0,053	0,053	0	0,077	0,077	0	0,041	0,041	0	0,048	0,048	0
25	0	0	0	0,039	0,038	0	0,058	0,055	0	0,087	0,084	0	0,046	0,045	0	0,052	0,052	0
50	0	0	0	0,040	0,039	0	0,060	0,058	0	0,089	0,086	0	0,046	0,044	0	0,056	0,053	0
100	0	0	0	0,037	0,036	0	0,062	0,061	0	0,088	0,082	0	0,047	0,047	0	0,052	0,052	0
0	5	0	0	96,888	0,043	0	4,004	0,056	8	0,088	0,082	0	0,529	0,048	17	39,995	0,050	0
0	10	0	0	163,402	0,047	1	16,397	0,058	17	0,089	0,081	0	1,605	0,056	22	89,338	0,050	0
0	15	0	0	416,589	0,046	6	31,769	0,072	22	0,078	0,078	0	2,303	0,119	33	146,347	0,052	0
0	20	0	0	615,862	0,050	8	61,152	0,117	27	0,080	0,079	0	3,741	0,256	45	166,272	0,051	0
0	25	0	0	886,890	0,066	7	69,062	0,496	34	0,079	0,079	0	6,952	0,596	55	177,135	0,055	0
0	50	0	0	1819,381	2794,790	33	148,705	89,330	57	0,085	0,081	0	143,000	5,894	89	174,941	0,244	0
0	75	0	0	2100,315	2895,305	72	164,466	135,169	78	0,097	0,091	0			100	77,679	0,406	0
0	0	1	0	75,810	0,040	4	43,729	0,053	5	0,086	0,087	0	23,074	0,045	9	0,062	0,055	4
0	0	5	0	78,203	0,039	7	99,426	0,077	16	0,132	0,101	0	104,979	0,150	20	0,401	0,058	6
0	0	10	0	132,960	0,043	9	141,165	0,121	25	0,403	0,159	0	136,136	0,371	25	1,029	0,076	6
0	0	15	0	81,180	0,047	10	150,323	0,270	22	0,525	0,196	2	182,249	0,429	33	2,426	0,098	8
0	0	0	1	0,042	0,041	0	1,833	0,054	15	0,121	0,114	0	8,397	0,042	23	8,005	0,056	10
0	0	0	5	0,495	0,042	1	29,533	0,254	51	53,774	2,330	46	56,059	0,061	38	48,181	0,147	61
0	0	0	10	2,171	0,050	1	78,696	25,807	86	1393,524	687,870	97	75,595	42,328	60	109,368	10,559	91
0	0	0	15	4,547	0,098	5	382,194	264,173	97			100	77,182	43,474	81			100
25	5	0	0	70,675	0,042	0	26,203	0,073	9	0,095	0,103	0	1,609	0,049	19	26,555	0,051	0
50	25	0	0	817,436	0,070	5	94,040	0,259	33	0,099	0,105	0	8,858	0,334	58	66,763	0,054	0
100	50	0	0	1399,972	1336,210	25	154,106	51,303	62	0,088	0,088	0	73,219	17,333	93	63,983	0,073	0
5	25	5	5	842,780	0,263	21	471,031	54,254	71	637,716	18,367	49	361,661	1,888	84	273,179	14,663	63
10	10	5	5	352,805	0,052	7	315,138	16,055	62	316,313	4,493	31	232,008	0,366	63	211,942	2,191	62

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(%)				FY			SP			TCR			MCC			Th		
F	E	R	A	Avg. (s)	Med. (s)	#Unsolved	Avg. (s)	Med. (s)	#Unsolved	Avg. (s)	Med. (s)	#Unsolved	Avg. (s)	Med. (s)	#Unsolved	Avg. (s)	Med. (s)	#Unsolved
5	0	0	0	0,596	0,566	0	0,704	0,705	0	0,875	0,852	0	0,529	0,528	0	0,489	0,483	0
25	0	0	0	0,590	0,575	0	0,739	0,736	0	0,951	0,995	0	0,516	0,523	0	0,502	0,497	0
50	0	0	0	0,567	0,551	0	0,726	0,717	0	0,979	0,984	0	0,606	0,613	0	0,492	0,490	0
100	0	0	0	0,482	0,471	0	0,777	0,808	0	0,854	0,850	0	0,590	0,594	0	0,504	0,504	0
0	5	0	0	98,951	0,544	0	0,840	0,706	0	0,875	0,873	0	0,615	0,619	0	39,450	0,526	0
0	10	0	0	132,101	0,536	1	5,043	0,708	0	0,876	0,873	0	0,621	0,611	0	71,228	0,497	0
0	15	0	0	286,754	0,546	3	8,562	0,720	0	0,825	0,824	0	0,626	0,644	0	107,518	0,536	0
0	20	0	0	478,539	0,600	4	15,125	0,837	3	0,984	0,986	0	0,548	0,525	0	134,129	0,497	0
0	25	0	0	526,535	0,621	4	21,625	0,843	6	0,949	0,994	0	0,602	0,573	0	138,431	0,501	0
0	50	0	0	895,868	1,852	23	39,714	0,982	13	0,903	0,859	0	0,615	0,581	0	131,784	0,759	0
0	75	0	0	1272,959	40,636	49	66,461	0,954	15	0,823	0,821	0	0,772	0,816	0	100,395	34,452	0
0	0	1	0	0,539	0,549	2	0,693	0,693	0	0,934	0,950	0	0,664	0,498	0	0,490	0,481	0
0	0	5	0	0,475	0,431	5	0,806	0,812	0	0,860	0,846	0	0,760	0,572	0	0,579	0,578	0
0	0	10	0	0,470	0,407	5	0,666	0,644	0	0,840	0,850	0	0,638	0,419	0	0,493	0,439	0
0	0	15	0	0,575	0,387	4	0,719	0,736	0	0,712	0,732	0	0,778	0,402	0	0,466	0,413	0
0	0	0	1	0,592	0,614	0	128,333	0,736	7	1,166	1,174	0	0,632	0,634	0	1,318	0,544	9
0	0	0	5	0,986	0,540	0	250,241	0,922	24	75,605	1,732	11	0,634	0,634	0	166,914	1,770	34
0	0	0	10	1,123	0,531	2	118,114	24,939	55	240,509	35,419	68	0,826	0,628	0	258,479	43,245	69
0	0	0	15	2,162	0,559	3	426,691	25,721	65	1829,561	2213,210	97	1,925	0,583	3	537,781	282,766	91
25	5	0	0	56,990	0,515	0	2,282	0,716	1	0,856	0,852	0	0,581	0,559	0	19,590	0,497	0
50	25	0	0	507,544	0,516	3	24,876	0,779	10	0,831	0,831	0	0,604	0,589	0	52,811	0,499	0
100	50	0	0	1258,254	8,303	1	34,464	0,811	25	1,021	1,024	0	0,594	0,573	0	60,583	0,586	0
5	25	5	5	497,517	0,513	11	21,195	0,803	25	223,903	1,700	17	95,159	0,534	5	208,960	1,662	34
10	10	5	5	204,649	0,478	4	121,493	0,816	23	20,126	1,542	11	27,923	0,534	4	254,194	2,014	33

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A (%) - Probability of adding a regulator

Models

FY - Fission Yeast (doi:10.1371/journal.pone.0001672)
SP - Segment Polarity (doi:10.1387/ijdb.072439ls)
TCR - TCR Signalisation (doi:10.1186/1471-2105-7-56)
MCC - Mammalian Cell cycle (doi:10.1093/bioinformatics/btl210)

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Results for ModRev v1.2.3 with 1 observation with 3 time-steps under synchronous dynamics

(%)				FY			SP			TCR			MCC			Th		
F	E	R	A	Avg. (s)	Med. (s)	#Unsolved	Avg. (s)	Med. (s)	#Unsolved	Avg. (s)	Med. (s)	#Unsolved	Avg. (s)	Med. (s)	#Unsolved	Avg. (s)	Med. (s)	#Unsolved
5	0	0	0	0,018	0,017	0	0,020	0,020	0	0,028	0,027	0	0,017	0,017	0	0,019	0,019	0
25	0	0	0	0,017	0,017	0	0,019	0,019	0	0,027	0,027	0	0,015	0,015	0	0,020	0,020	0
50	0	0	0	0,015	0,015	0	0,020	0,020	0	0,027	0,027	0	0,015	0,015	0	0,019	0,018	0
100	0	0	0	0,014	0,014	0	0,024	0,023	0	0,028	0,029	0	0,015	0,016	0	0,022	0,022	0
0	5	0	0	0,016	0,015	0	3,528	0,020	8	0,025	0,025	0	0,023	0,016	0	52,331	0,019	0
0	10	0	0	32,696	0,016	1	12,514	0,022	17	0,027	0,026	0	0,028	0,016	0	118,095	0,020	0
0	15	0	0	204,054	0,018	4	22,451	0,025	22	0,027	0,027	0	0,033	0,017	0	195,096	0,019	0
0	20	0	0	270,141	0,019	4	49,032	0,034	27	0,028	0,028	0	0,042	0,020	0	232,137	0,020	0
0	25	0	0	413,535	0,020	6	52,541	0,248	34	0,028	0,027	0	0,045	0,021	0	253,376	0,020	0
0	50	0	0	1030,686	1,157	22	99,348	30,521	57	0,029	0,029	0	0,069	0,053	0	310,312	51,220	0
0	75	0	0	1553,580	38,097	51	142,784	131,089	78	0,030	0,029	0	0,115	0,110	0	193,844	71,303	0
0	0	1	0	121,292	0,016	0	45,325	0,020	5	0,027	0,026	0	0,115	0,015	0	0,025	0,021	4
0	0	5	0	87,129	0,014	0	100,318	0,023	16	0,044	0,032	0	0,130	0,016	0	0,163	0,022	6
0	0	10	0	163,747	0,016	0	138,886	0,040	25	0,105	0,048	0	0,134	0,019	0	0,475	0,033	6
0	0	15	0	198,759	0,015	0	152,480	0,196	22	0,162	0,068	0	0,261	0,030	0	0,849	0,049	8
0	0	0	1	0,015	0,014	0	1,862	0,021	15	0,029	0,027	0	10,838	0,016	5	7,401	0,019	9
0	0	0	5	0,047	0,015	0	21,484	0,208	51	36,112	1,721	43	75,168	0,026	14	43,346	0,166	54
0	0	0	10	4,800	0,018	0	71,403	23,909	86	1347,743	569,305	97	45,886	0,044	29	159,511	21,006	88
0	0	0	15	9,484	0,028	0	388,199	382,488	96			100	128,785	1,348	46	1097,470	1097,470	99
25	5	0	0	21,222	0,016	0	20,986	0,021	9	0,025	0,025	0	0,026	0,018	0	29,325	0,020	0
50	25	0	0	374,014	0,023	3	62,301	0,086	33	0,029	0,028	0	0,049	0,023	0	87,167	0,021	0
100	50	0	0	1220,268	0,883	1	127,912	38,497	61	0,032	0,031	0	0,135	0,097	0	125,006	0,027	0
5	25	5	5	388,430	0,042	11	520,266	42,913	69	460,220	9,251	35	130,099	0,078	16	363,380	20,947	51
10	10	5	5	184,262	0,019	2	311,957	15,437	59	248,863	4,322	24	88,873	0,041	18	229,340	0,822	58

Corruption parameters

F (%) - Probability of changing a function
E (%) - Probability of changing the sign of an edge
R (%) - Probability of removing a regulator
A (%) - Probability of adding a regulator

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Results for ModRev v1.3.1 with 1 observation with 3 time-steps under asynchronous dynamics

(%)				FY			SP			TCR			MCC			Th		
F	E	R	A	Avg. (s)	Med. (s)	#Unsolved	Avg. (s)	Med. (s)	#Unsolved	Avg. (s)	Med. (s)	#Unsolved	Avg. (s)	Med. (s)	#Unsolved	Avg. (s)	Med. (s)	#Unsolved
5	0	0	0	0,022	0,022	0	0,030	0,031	0	0,040	0,040	0	0,023	0,024	0	0,032	0,032	0
25	0	0	0	0,022	0,023	0	0,032	0,033	0	0,040	0,040	0	0,024	0,024	0	0,029	0,029	0
50	0	0	0	0,022	0,022	0	0,033	0,031	0	0,039	0,038	0	0,024	0,024	0	0,029	0,030	0
100	0	0	0	0,021	0,020	0	0,034	0,033	0	0,040	0,039	0	0,024	0,024	0	0,029	0,030	0
0	5	0	0	0,022	0,022	0	0,031	0,029	0	0,041	0,040	0	0,023	0,230	0	0,029	0,029	0
0	10	0	0	0,043	0,024	0	0,029	0,028	0	0,041	0,040	0	0,024	0,024	0	0,029	0,029	0
0	15	0	0	0,131	0,023	0	0,031	0,030	0	0,044	0,042	0	0,024	0,024	0	0,029	0,029	0
0	20	0	0	0,891	0,025	0	0,031	0,031	0	0,043	0,041	0	0,023	0,024	0	0,029	0,029	0
0	25	0	0	1,316	0,025	0	0,029	0,029	0	0,043	0,040	0	0,024	0,025	0	0,029	0,030	0
0	50	0	0	33,012	1,296	0	0,032	0,032	0	0,043	0,040	0	0,024	0,025	0	0,028	0,028	0
0	75	0	0	238,724	33,771	0	0,033	0,033	0	0,039	0,038	0	0,024	0,023	0	0,029	0,028	0
0	0	1	0	0,022	0,022	0	0,031	0,031	0	0,039	0,040	0	0,022	0,023	0	0,028	0,028	0
0	0	5	0	0,021	0,021	0	0,030	0,030	0	0,039	0,039	0	0,022	0,023	0	0,027	0,027	0
0	0	10	0	0,020	0,020	0	0,029	0,030	0	0,036	0,036	0	0,022	0,022	0	0,028	0,027	0
0	0	15	0	0,020	0,020	0	0,029	0,028	0	0,037	0,036	0	0,021	0,022	0	0,027	0,027	0
0	0	0	1	0,023	0,023	0	0,033	0,033	0	0,044	0,044	0	0,024	0,024	0	0,027	0,026	0
0	0	0	5	0,067	0,024	0	0,036	0,037	0	2,538	0,054	4	0,025	0,024	0	0,343	0,030	0
0	0	0	10	3,113	0,025	1	0,039	0,037	0	25,248	0,098	15	0,057	0,024	0	3,417	0,034	3
0	0	0	15	6,743	0,031	1	0,042	0,041	0	175,381	1,486	61	0,399	0,025	1	28,781	0,040	12
25	5	0	0	0,023	0,023	0	0,031	0,032	0	0,040	0,040	0	0,023	0,024	0	0,028	0,028	0
50	25	0	0	0,963	0,024	0	0,032	0,031	0	0,042	0,041	0	0,023	0,024	0	0,027	0,028	0
100	50	0	0	101,831	0,059	0	0,033	0,033	0	0,042	0,041	0	0,024	0,024	0	0,032	0,032	0
5	25	5	5	11,193	0,038	1	0,033	0,033	0	1,573	0,055	2	0,023	0,024	0	0,034	0,031	1
10	10	5	5	2,813	0,025	0	0,032	0,033	0	0,965	0,052	1	0,023	0,024	0	0,034	0,030	1

Corruption parameters

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E (%) - Probability of changing the sign of an edge
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A (%) - Probability of adding a regulator

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