	Input	Description	Value		
			1.8 (normal simulations).		
1	М	Mitogen level	2.3 (cyclin E ^{-/-} , final model).		
			11 (cyclin D ^{-/-} final model).		
			Value of $p53(t)$ from upstream		
2	50 J	Level of p53	network (initial model).		
	p55_aamage		1 during arrest, 0 during free		
			cycling (fitting and final model).		
			Value of $Chk2(t)$ from upstream		
2	Chk2_damage	Loval of Chir?	network (initial model).		
5		Level of Clik2	1 during arrest, 0 during free		
			cycling (fitting and final model).		
1	CycD_ko	Cyclin D knockout	1 (cyclin D ^{-/-} simulations)		
4		Cyclin D Knockout	0 (all other simulations)		
5	CycE ko	Cyclin E knockout	1 (cyclin E ^{-/-} simulations)		
5	CycL_ko		0 (all other simulations)		
	СНХ		0.25 (cycloheximide-induced		
6		Cycloheximide level	arrest simulations)		
			0 (all other simulations)		
7	n53 basal	Basal n53 level	0.75 (p53 ^{+/+} si	mulations)	
,	poo_ousar		0 (all other simulations)		
8	Arrest I	p53-dependent p21	0 or 1, depending on whether the		
0	11/////	activation	arrest mechanism is active		
9		Chk2-dependent	0 or 1		
	Arrest_II	Cdc25			
		phosphorylation			
10	Arrest_III	p53-dependent	0 or 1		
		Cyclin A and Cyclin			
		B repression			
	Output	Decomintion	Species	Quantities	
	Ουτρατ	Description	contained	Influenced	

	Table	S1:	Descri	ption	of	model	input	and	outputs.
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1	CycET	Total cyclin E	CycE+TriE+ TriE21	Steady-state level reached during arrest
2	CycBT	Total cyclin B	CycB+pB+BCKI +pBCKI	Steady-state level reached during arrest
3	CycE	Active cyclin E	CycE	Time of the G1/S transition
4	pB	Phosphorylated cyclin B	рВ	Time of the S/G2 transition
5	Cdc20A	APC/C ^{Cdc20A}	Cdc20A	Time of mitosis