



		sensing patterns																
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
X _o (gene o expression)	Cell I	1 =	F(0,0)	F(0,0)	F(0,0)	F(0,0)	F(0,1)	F(0,1)	F(0,1)	F(0,1)	F(1,0)	F(1,0)	F(1,0)	F(1,0)	F(1,1)	F(1,1)	F(1,1)	F(1,1)
	Cell II	0 =	F(0,0)	F(0,1)	F(1,0)	F(1,1)	F(0,0)	F(0,1)	F(1,0)	F(1,1)	F(0,0)	F(0,1)	F(1,0)	F(1,1)	F(0,0)	F(0,1)	F(1,0)	F(1,1)
rule 1					X	X	X	X	X					X		X		
rule 2			X						X			X					X	
Exp.1	Cell I	0 =	F(0,0)							F(0,0)	F(0,0)		F(0,0)					
	Cell II	0 =	F(0,1)							F(0,0)	F(0,1)		F(0,1)					
Exp.2	Cell I	1 =	F(0,0)							F(1,0)	F(1,0)		F(1,0)					
	Cell II	1 =	F(0,0)							F(0,0)	F(0,0)		F(1,0)					
compatible Boolean functions																	C	

D Boolean function C
sensing pattern 12

F(0,0) = 0 (Cell I, Exp.1)
 F(0,1) = 0 (Cell II, Exp.1)
 F(1,0) = 1 (Cell I, normal; Cells I & II, Exp.2)
 F(1,1) = 0 (Cell II, normal)
