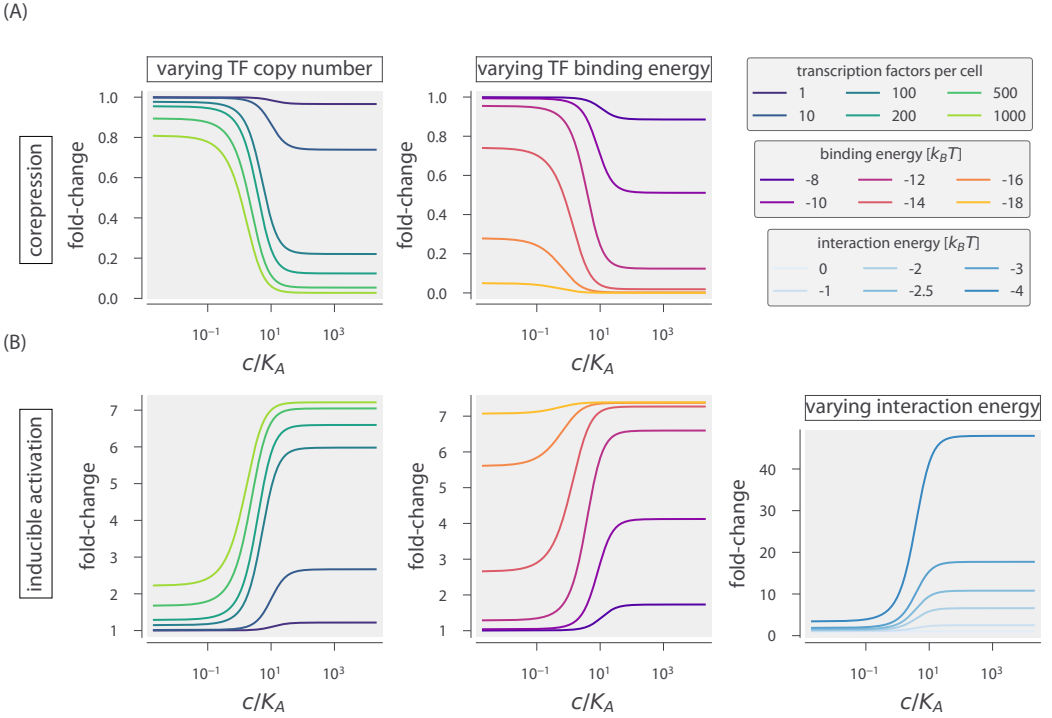
(A)
varying TF copy number
varying TF binding energy
transcription factors per cell
1
10
100
200
500
1000
binding energy [k_BT]
-8
-10
-12
-14
-16
-18
interaction energy [k_BT]
0
-1
-2
-2.5
-3
-4
corepression
fold-change
1.0
0.8
0.6
0.4
0.2
0.0
10^{-1}
10^{1}
10^{3}
c/K_A
(B)
inducible activation
fold-change
7
6
5
4
3
2
1
varying interaction energy
40
30
20
10
0
10^{-1}
10^{1}
10^{3}
c/K_A