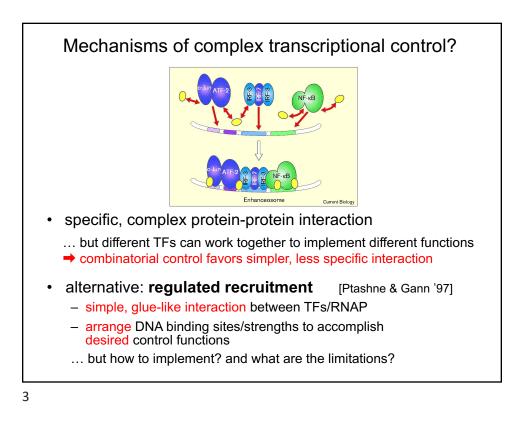
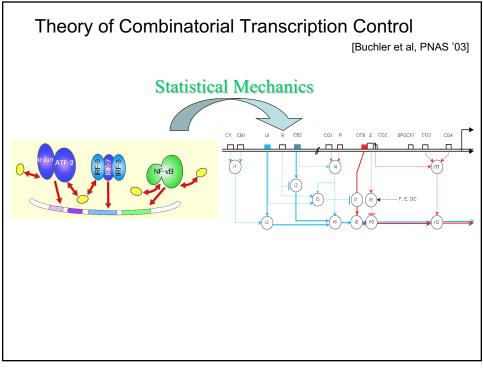
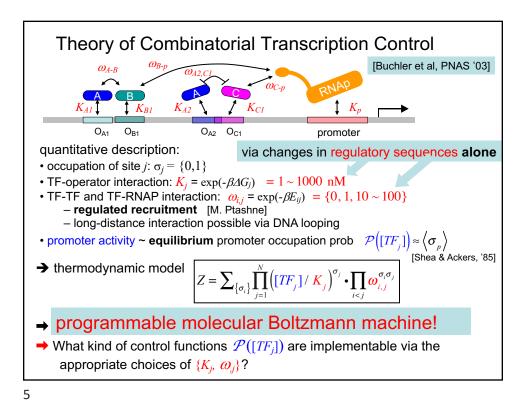
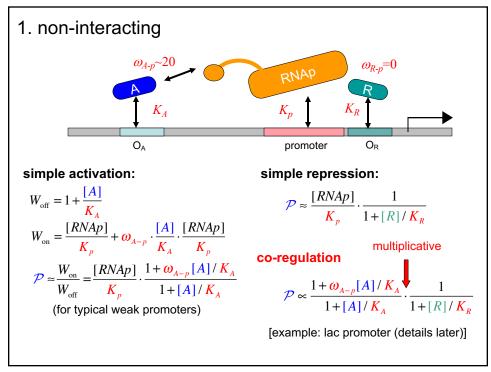


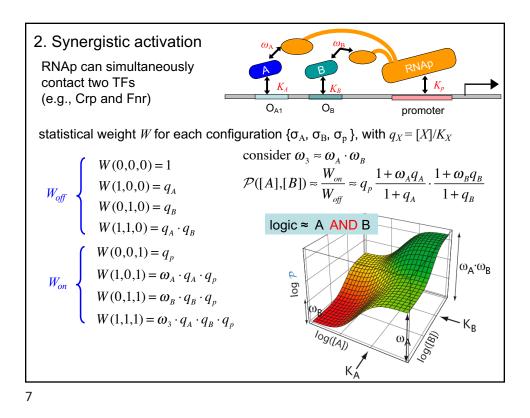
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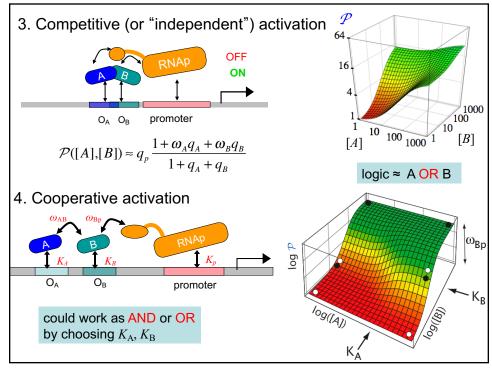


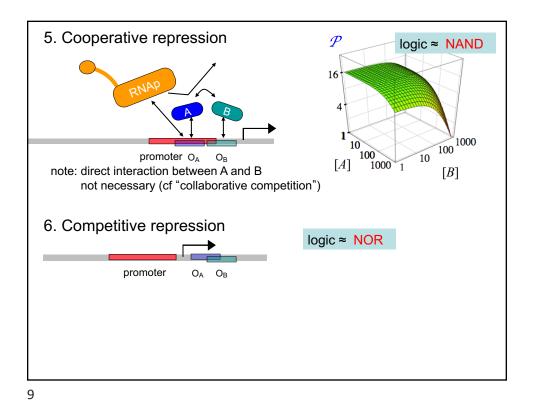


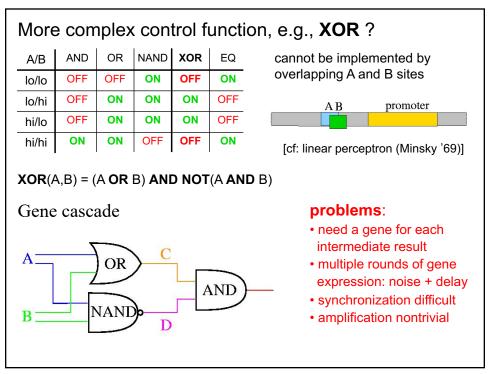


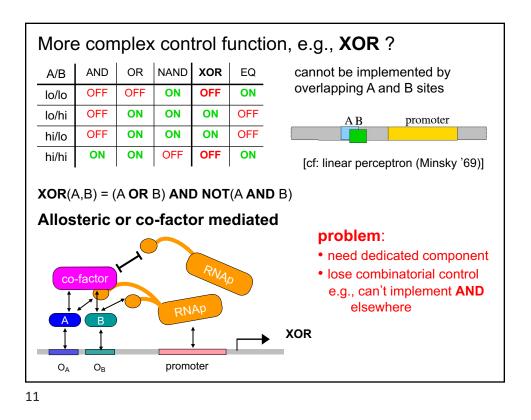


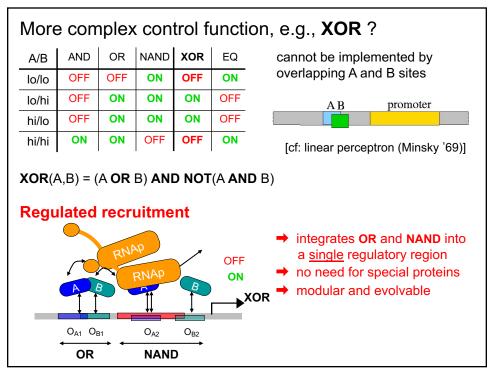


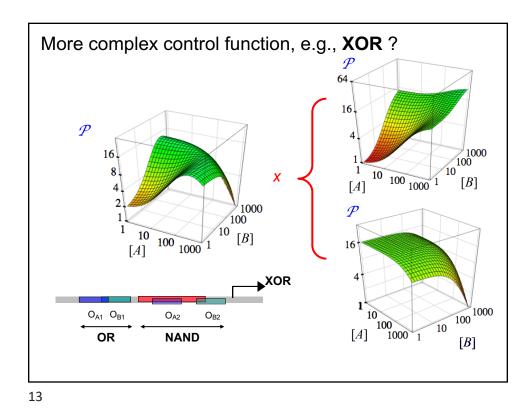


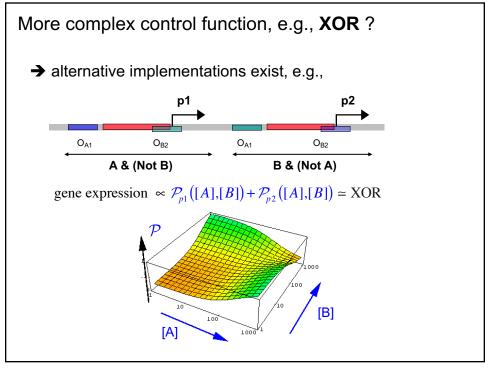


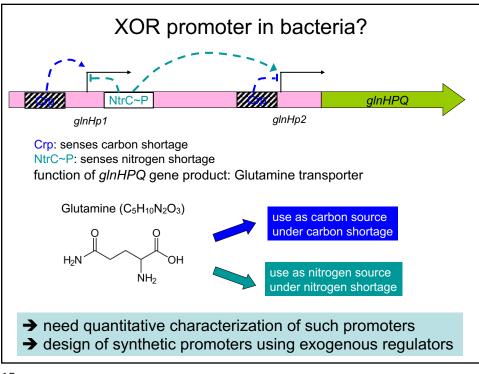




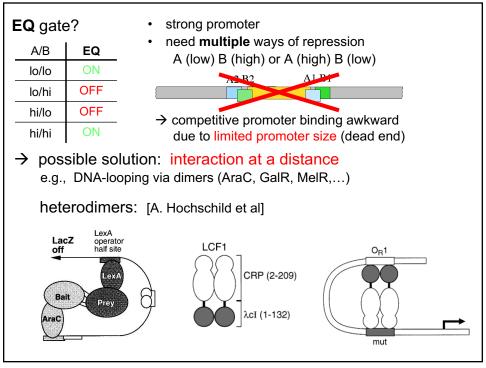


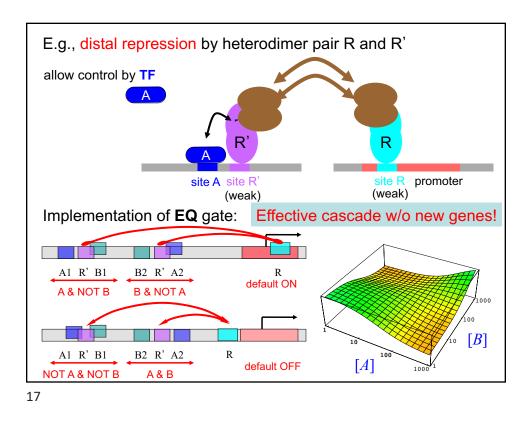


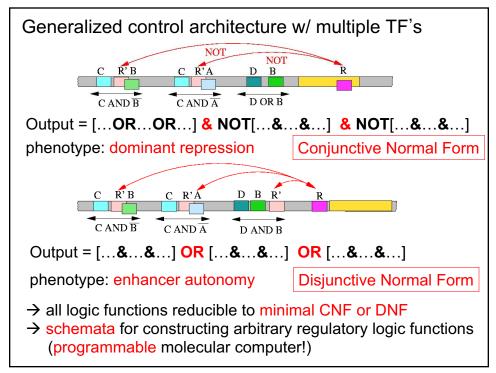


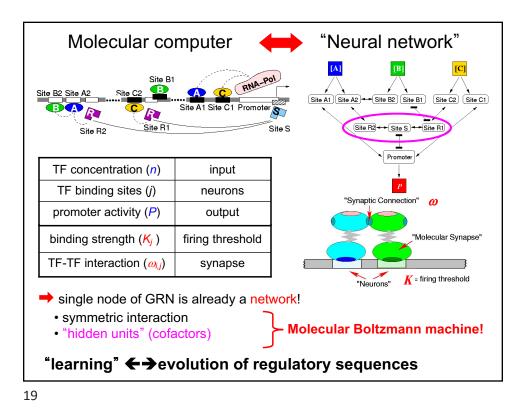












Summarize: A large variety of control functions $\mathcal{P}([TF_j])$ may be implementable via appropriate choices of $\{K_j, \omega_{i,j}\}$, i.e., via regulatory sequences alone = programmable molecular computer						
 synthesize "desired" transcriptional "logic gates" "breed" regulatory sequences to implement desired control functions Potential application: cell-specific gene expression profiling 						
		cell A	cell B	cell C	cell X	
	gene 1	+	-	+	(-)	
	gene 2	-	+	+	+	
	gene 3	-	-	+	+	
 → cell type discrimination: use multiple traits → cell X revealed by a reporter gene driven by designed regulatory sequences → cell X eliminated by promoter activating apoptosis → targeted delivery not required (~ smart bomb!) 						

