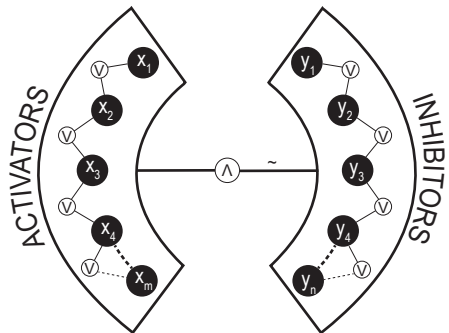
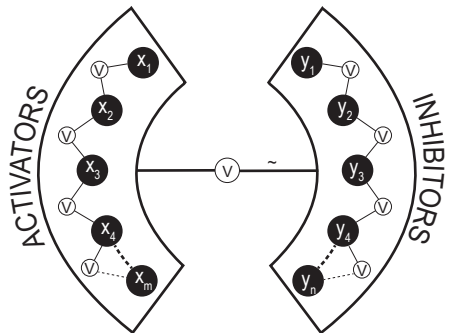


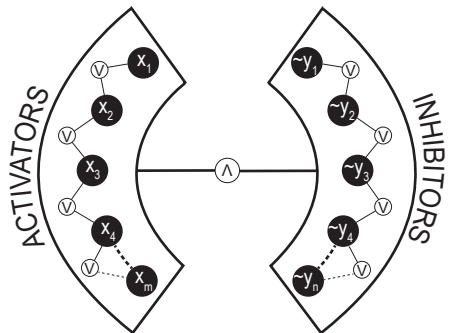
(a)  $f_{\text{AND-NOT}} = (x_1 \vee x_2 \vee \dots \vee x_m) \wedge \sim (y_1 \vee y_2 \vee \dots \vee y_n)$



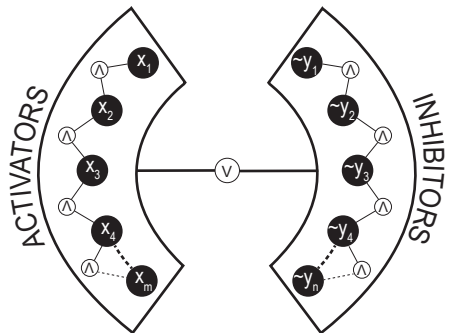
(b)  $f_{\text{OR-NOT}} = (x_1 \vee x_2 \vee \dots \vee x_m) \vee \sim (y_1 \vee y_2 \vee \dots \vee y_n)$



(c)  $f_{\text{AND-pairs}} = (x_1 \vee x_2 \vee \dots \vee x_m) \wedge (\sim y_1 \vee \sim y_2 \vee \dots \vee \sim y_n)$



(d)  $f_{\text{OR-pairs}} = (x_1 \wedge x_2 \wedge \dots \wedge x_m) \vee (\sim y_1 \wedge \sim y_2 \wedge \dots \wedge \sim y_n)$



V - OR operator    Λ - AND operator    ~ - NOT operator