$A \longrightarrow B$

$\{A\}$　　　$\{B\}$

$A^-: \{A^0\}, \{B^0\}$
$B^-: \{A^1\}, \{B^0\}$

$\rho(A, B) = \mathrm{corr}(\{B^0\}\{B^0\})$
$= 1$

$A \longleftrightarrow B$

$\{A\}$　　　$\{B\}$
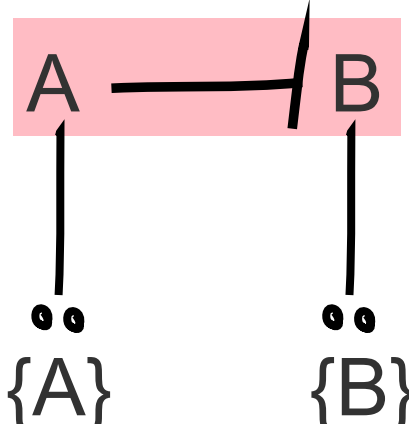
$A^-: \{A^0\}, \{B^2\}$
$B^-: \{A^1\}, \{B^0\}$

$\rho(A, B) = \mathrm{corr}(\{B^2\}\{B^0\})$
$= -1$

Positive Interaction Between Genes

rhy-1 genes ranked by β

egl-9 genes ranked by β