Prior-guided gene expression network using KiMONo¹

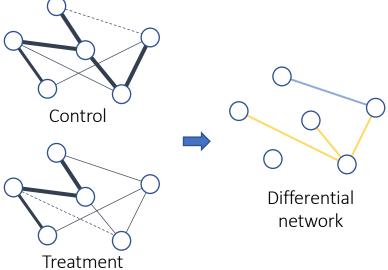
• Approach DiffGRN²: differential gene interactions using a z-test

$$z_{ij} = \frac{\widehat{b}_{ij}^{T} - \widehat{b}_{ij}^{C}}{\sqrt{SE(\widehat{b}_{ij}^{T})^{2} + SE(\widehat{b}_{ij}^{C})^{2}}}$$

Where \hat{b}_{ij}^T and $\underline{\hat{b}_{ij}^C}$ are estimated regression coefficients of gene i and gene j within control and treatment group

Prior network

Prior-guided expression network



¹Ogris et al., Sci Rep, 2021

²Kim Y et al., Int J Data Min Bioinform, 2018