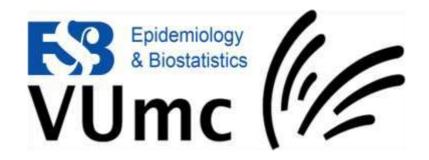


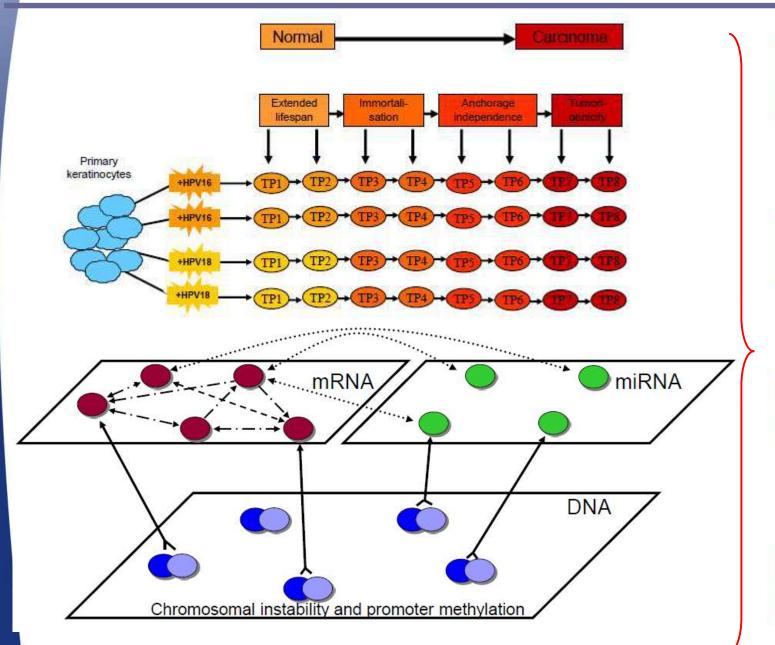
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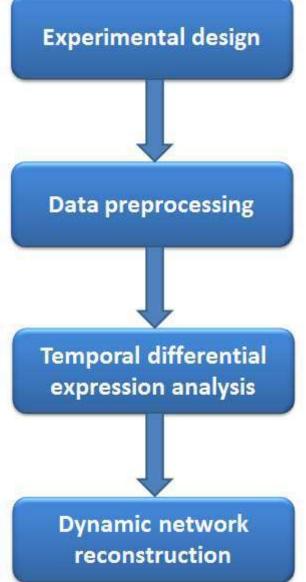






What I did?





Article + tigaR package

Miok et al. BMC Bioinformatics 2014, 15:327 http://www.biomedcentral.com/1471-2105/15/327



METHODOLOGY ARTICLE

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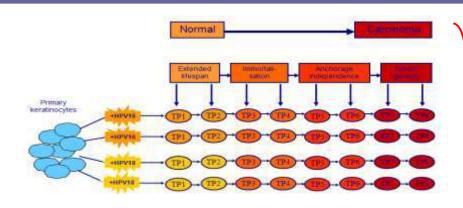
tigaR: integrative significance analysis of temporal differential gene expression induced by genomic abnormalities

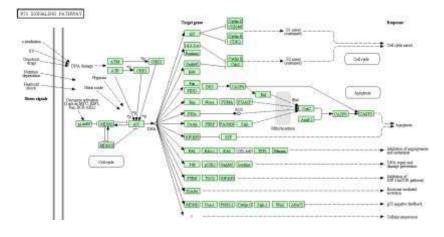
Viktorian Miok^{1,2}, Saskia M Wilting², Mark A van de Wiel^{1,3}, Annelieke Jaspers², Paula I van Noort⁴, Ruud H Brakenhoff⁵, Peter JF Snijders², Renske DM Steenbergen² and Wessel N van Wieringen^{1,3*}



tigaR – temporal integrative analysis in R

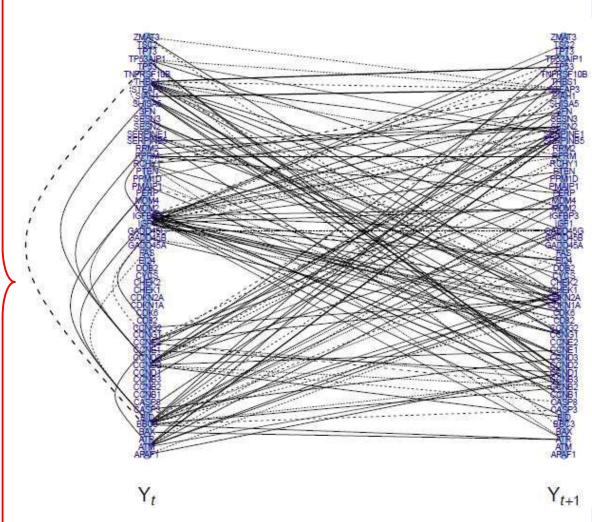
Dynamics Network Reconstraction





$$\begin{aligned} \operatorname{vec}[\hat{\mathbf{A}}(\lambda_a)] &= [\lambda_a \mathbf{I}_{p^2 \times p^2} + \hat{\mathbf{\Gamma}}(0) \otimes \mathbf{\Omega}_{\varepsilon}]^{-1} \{ \lambda_a \operatorname{vec}(\mathbf{A}_0) + \operatorname{vec}[\mathbf{\Omega}_{\varepsilon} \hat{\mathbf{\Gamma}}(-1)] \} \\ \\ \hat{\mathbf{\Omega}}_{\varepsilon}(\lambda_{\omega}) &= \{ [\lambda_{\omega} \mathbf{I}_{p \times p} + \frac{1}{4} (\mathbf{S}_{\varepsilon} - \lambda_{\omega} \mathbf{\Omega}_0)^2]^{1/2} + \frac{1}{2} (\mathbf{S}_{\varepsilon} - \lambda_{\omega} \mathbf{\Omega}_0) \}^{-1} \end{aligned}$$







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Viktorian Miok, Saskia M. Wilting, Wessel N. van Wieringen 🖾

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Multi level dynamic network reconstruction

