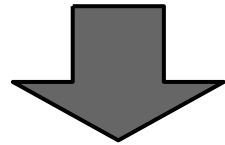
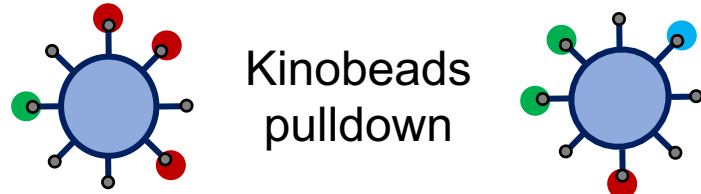
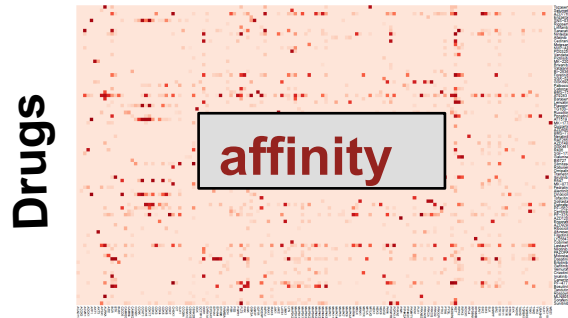


Kinase inhibitor screen



Proteins

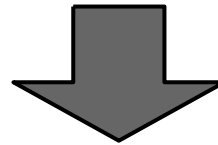


Linear regression model

Tumors / cell lines

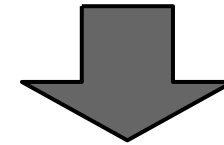
$$\text{Proteins} \begin{bmatrix} \beta_{11} & \beta_{12} & \beta_{13} & \beta_{14} \\ \beta_{21} & \beta_{22} & \beta_{23} & \beta_{24} \\ \beta_{31} & \beta_{32} & \beta_{33} & \beta_{34} \end{bmatrix} \approx$$

The equation shows a matrix multiplication between a vector of proteins and a matrix of regression coefficients (beta values) for different tumors or cell lines. The result is approximately equal to the viability matrix.



Protein Dependence Matrix

Drug response assay



Tumors / cell lines

