Prediction of siRNA function

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RNAi Mechanism

I- binding
II- unwinding
III- recognition
IV- cleavage
V- product release
Novartis Biopred Scatter Plot

The scatter plot shows the relationship between Biopred score and inhibition of eYFP fluorescence (% of control). The data points are distributed across the plot, indicating a correlation between the two variables. The upward trend suggests that as the inhibition of eYFP fluorescence increases, the Biopred score also tends to increase.
One Hidden Neuron, Feature Weight Values
A Robust Performance Indicator

- By calculating error measures at incrementally increasing values of prediction threshold, we can plot measures as a function of prediction threshold:
A Robust Performance Indicator

- The measures are plotted together, similar to an ROC curve.
- This representation gives an intuitive feel for the trade-off between sensitivity and positive predictive power.