## Literature Review

## Batch Active Learning for Drug Discovery

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## Abstract

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I propose (1) where N represents the dimensionality of the model space, and  $r_i$  is the distance between  $x_j$  and  $x_i$ . The next test point is given by () where  $X_{\text{known}}$  is the set of labelled data points and  $X_{\text{unknown}}$  is the set of available data points for testing.

$$\rho_{x_j} = \sum_i \frac{1}{r_{x_i, x_j}^N} \tag{1}$$

$$x_{\text{next}} = \underset{X_{\text{Unknown}}}{\operatorname{argmin}} \sum_{x = X_{\text{Known}}} \frac{1}{r_{X_{\text{Unknown}},x}^{N}}$$
 (2)