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Data-driven Approaches for efficient drug discovery

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Objectives:

Data-driven drug discovery (D4) exploits a comprehensive set of 'Big' data in order to provide an efficient path to new drug development.

Methods: We present *in silico* chemical genomic approaches for target discovery & identification of drug repositioning (DR) candidates for cancer precision medicine. It is based on a recent large-scale dataset of ~20,000 drug-induced expression profiles in multiple cancer cell lines, which provides i) a global impact of transcriptional perturbation of both known targets and unknown off-targets, and ii) rich information on drug's mode-of-action.

Results: Here, we present several cases for target discovery & drug repositioning (DR) based on large-scale drug-induced expression profiles, or CMAP.