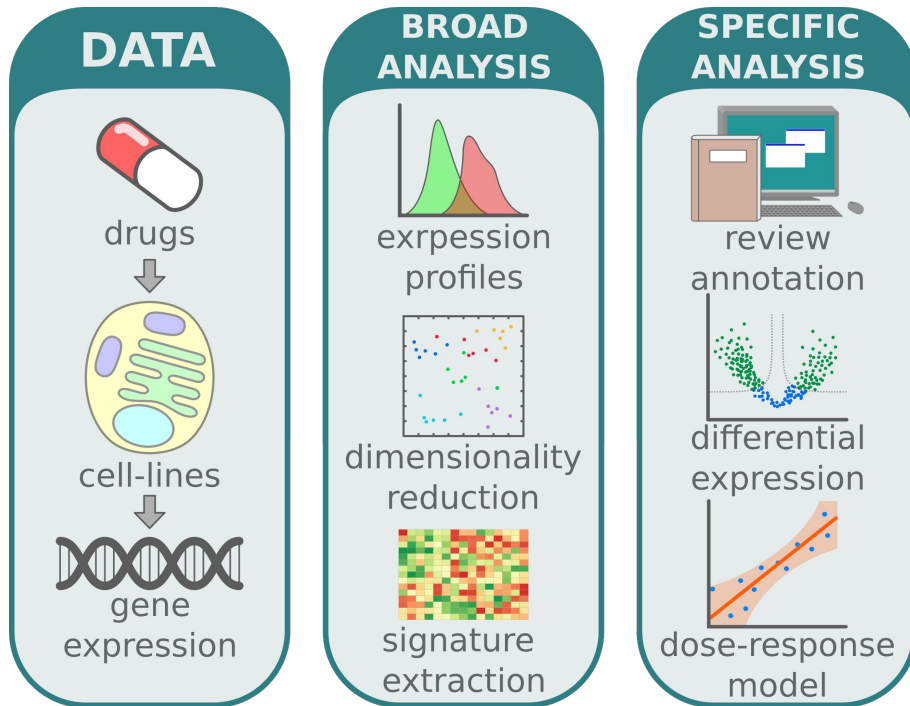




02 - Cellular response to drug perturbations

Decipher the heterogeneous cellular response to drug perturbations in cancer.



<https://github.com/datascience-mobi/02-cellular-response-to-drug-perturbations>



Data set

Quantitative measurements of cellular response (Rx) of 60 well-characterized cancer cell lines upon single perturbations with 15 anti-cancer drugs.

Data types (data stored in *FigShare*):

- Drug perturbation data from cell lines:
 - Gene Expression profiles (treated and untreated) → transcriptome modulation.
 - Drug sensitivity assay (versus basal cell proliferation) → cell growth inhibition.
- Basal molecular profiles (mutations and basal gene expr) → Rx ~ subgroups.
- Feature annotation (drugs and cell lines) → stratification of cell lines, drug targets, etc.

Source:

Monks A *et al.* **Cancer Res.** 2018

NCI-60 (<https://wiki.nci.nih.gov/display/NCIDTPdata/NCI-60+Growth+Inhibition+Data>)