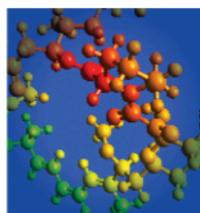


Profiling cancer cell-line sensitivities with small molecules

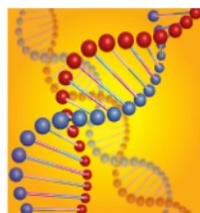
an NCI CTD² Network project

Several protein kinase-targeting drugs are yielding high clinical response rates when matched to cancer patients with specific genomic alterations in their cancers. Several other cancer drugs yield similarly high response rates within a particular cancer lineage. These clinical successes have prompted our efforts to identify more systematically additional genetic and lineage context-dependent small-molecule sensitivities.

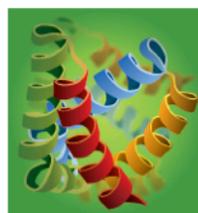
We have generated a novel 'Informer Set' of small-molecule probes and drugs that each selectively target a distinct node in cell circuitry and that collectively modulate a broad array of cell processes. By profiling the impact of this small-molecule collection on a panel of cancer cell lines for which extensive genetic characterizations are publicly available, we have generated a dataset that can be used to identify comprehensively relationships between genetic and lineage features of human cancer cell lines and small-molecule sensitivities.



Small Molecules



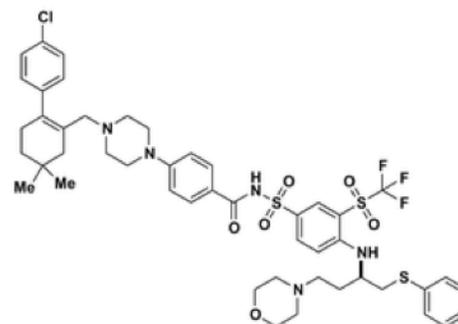
Enriched Features



Targets

navitoclax

General Enrichment Analysis



Target: inhibitor of BCL2, BCL-xL and BCL-W
 PubChem: [Search in PubChem for navitoclax](#)
 DrugBank: [Search in DrugBank for navitoclax](#)

Additional compound information

Additional compound information is provided by the Broad computational chemical biology research group

Alternative name(s)

navitoclax

General Enrichment Analysis

Cell Line Subset ? [reset](#) | [all](#)

- all CCL types
- endometrium CCLs
- hematopoietic CCLs
- colon CCLs
- lung CCLs
- adenocarcinomas
- large cell carcinomas
- non-small-cell carcinomas

Dataset ? [reset](#) | [all](#)

- cell lineage**
- lineage type
- lineage sub-type
- Oncomap data**
- Oncomap mutation calls
- Oncomap mutation combinations
- hybrid-capture data**
- targeted exome sequencing (TES)

Cell Line Exclusion ? [reset](#) | [all](#)

- exclude no CCL subset
- exclude frequently sensitive CCLs
- exclude highly mutated CCLs
- exclude hematopoietic CCLs
- exclude suspension CCLs

Enrichment Analysis

area under concentration-response curve



Vertical gray bars indicate CCLs belonging to lineage (lineage as a feature) or mutated in gene (gene as a feature).

Show 10 entries

Feature	Enrichment	FDR q value	Direction	
CTNNB1		2.500e-5	sensitive	all CCL types exclude suspension CCLs Oncomap mutation calls
CTNNB1		3.950e-5	sensitive	all CCL types exclude hematopoietic CCLs Oncomap mutation calls
CTNNB1		2.265e-4	sensitive	all CCL types exclude no CCL subset Oncomap mutation calls

Showing 1 to 3 of 3 entries

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