Omni**Screen**™
Large Scale Cancer Cell Line Screening Technology

Find the right fit between a cancer cell and your therapeutic molecule

A JSR Life Sciences Company

Assess the efficacy and potency of your oncology drug candidates by running initial screens with our large-scale cancer cell line panels. Take control of your experiment with Omni**Screen™** and get unrivaled flexibility to design the screening panels you need.

Real-time Readouts

Adapt your experiments and optimize final results based on incoming data

- Monitoring in real-time via secure online client accounts

- Enhanced cell panel growth data for improved screening quality

- Weekly updates on a drug candidate's effectiveness

Embedded Quality Controls

Ensure screening results between cancer cell types are consistent

- Cell line quality

  - Annotated, well-characterized, SNP/STR verified, mycoplasma tested

- Differences between cell culture media

- Variations in incubation times and treatment responses

- Seeding densities across multiple time points

- Chemotherapeutic agents, and vehicle controls

Focused Screening Panels

Remove the guessing and group cell lines together based on certain characteristics

- Omni**Panel**™: a growing collection of more than 520 cancer cell lines

- Xeno**Select**™: over 210 cancer cell lines with corresponding xenograft models to rapidly move to *in vivo* studies

- RNAseq**Panel**: over 240 cell lines with in-house RNAseq data for target identification

- Prime**Panel**™: a growing collection of over 30 primary cancer cells derived from PDX models for improved clinical relevance

- Custom built panel: using cell lines selected through Xeno**Base®**

Fixed Option Screening Schedules

Cut costs and increase efficiency

- Screening runs every 3 months

- Any subpanel of 50 or more cell lines can be scheduled

- Internal drug controls and cell line revival costs are covered by Crown Bioscience

500+ cell lines

Based on expertly curated panels or custom built from existing cell line databases

30+ molecules

Choose from a variety of different molecules including kinase inhibitors, antibodies, antibody-drug conjugates, epigenetic modulators, and small and large molecules across tissue types

30+ indications

Covering multiple cancer indications

Advanced Assay Setups

Customize your study with flexible template designs

- 3D cell panel screening options

- Multiple incubation times

- Extended incubation times up to 10 days

- Multiplexed readouts

Bioinformatics Support

Receive personalized support from our bioinformatics team for novel targets and biomarkers

- Dose-response curve graphs

- Combination index graphs

- Inhibition heat maps for concentration combinations

- 2D contour maps

- 3D response surface plots

- Guided analysis and reporting

Combination Assays and Screens
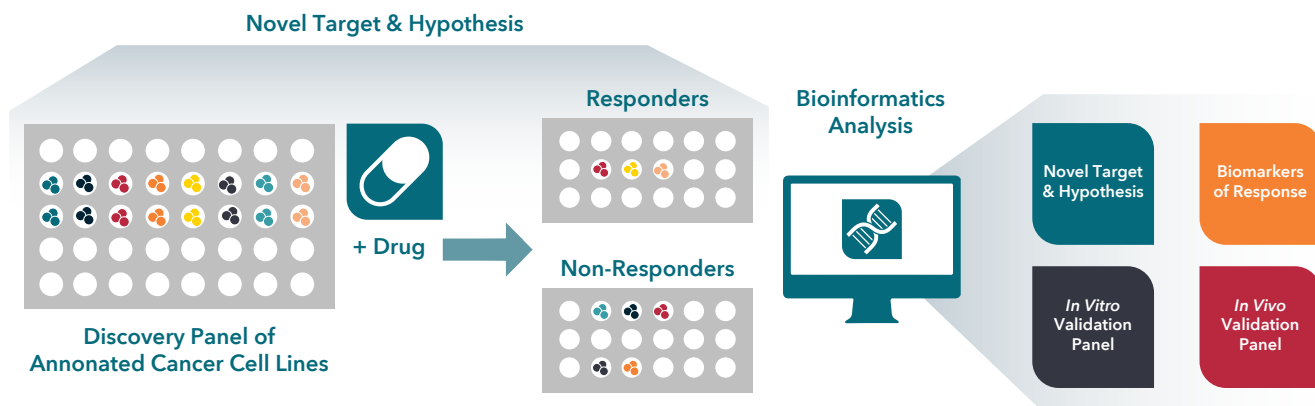
Evaluate and quantify drug combinations effects

- Combination assays and screens, including proprietary **CrownSyn**™ drug combination analysis service

- Visualize and characterize combination effects as synergistic, antagonistic, or additive

- Determine optimal doses for further safety and efficacy studies

Historical Data

Maintain clear relevance to *in vivo* models and real-life clinical settings

- Omni**Screen**™ draws upon historical data from over 100 studies

- Make informed predictions on cell line growth parameters and responses to specific drug candidates based on how specific cell lines previously responded to drug candidates

OmniScreen - Cell-Based Screening Service

Novel Target & Hypothesis

Discovery Panel of Annonated Cancer Cell Lines

+ Drug

Responders

Non-Responders

Bioinformatics Analysis

Novel Target & Hypothesis

Biomarkers of Response

In Vitro Validation Panel

In Vivo Validation Panel