



KIYATEC®

www.KIYATEC.com

KIYATEC offers cell-based Drug Response Profiling (DRP) services to help pharmaceutical and biotech companies make clinically relevant decisions using patient-derived tissues in an *ex vivo* screening platform. Our scientific teams are experts at customizing advanced three-dimensional (3D) perfusion cell culture systems to mimic *in vivo* function and phenotypic response using either immortalized or clinically sourced primary cell populations. KIYATEC's clinical connectivity enables our clients to screen compounds across a vast array of primary tissue types, including rare tumors, to **better predict *in vivo* drug response**.

The KIYATEC® Advantage

KIYATEC provides predictive drug screening services to enable efficient compound selection and enhanced clinical efficacy. Our unique approach provides our clients with a cost effective screening platform to identify only the most promising drug candidates via:

-  Novel biopsy-based ***ex vivo*** cell culture platform
-  Advanced physiologically relevant ***in vitro*** tissue culture techniques
-  Innovative 3D perfusion cell culture system mimics ***in vivo*** tumor microenvironment (TME)
-  Improved ***in vitro*** assessment for candidate selection and clinical progression
-  Opportunity for adaptive co-clinical trial to provide predictive patient-therapy pairing
-  Integration with PDX strategies to lower overall screening costs with faster turnaround

Benefits of KIYATEC® 3D Perfusion Cell Culture

-  Increased correlation to clinical results
-  Significant improvement over standard 2D tissue culture
-  Segregated co-culture incorporates complex, multi-tissue interactions
-  Enables investigation into both acute and chronic dosing schedules
-  Long-term (>4 weeks) modeling of drug resistance and tumor viability

New Dimensions in Cancer Diagnostics and Services™

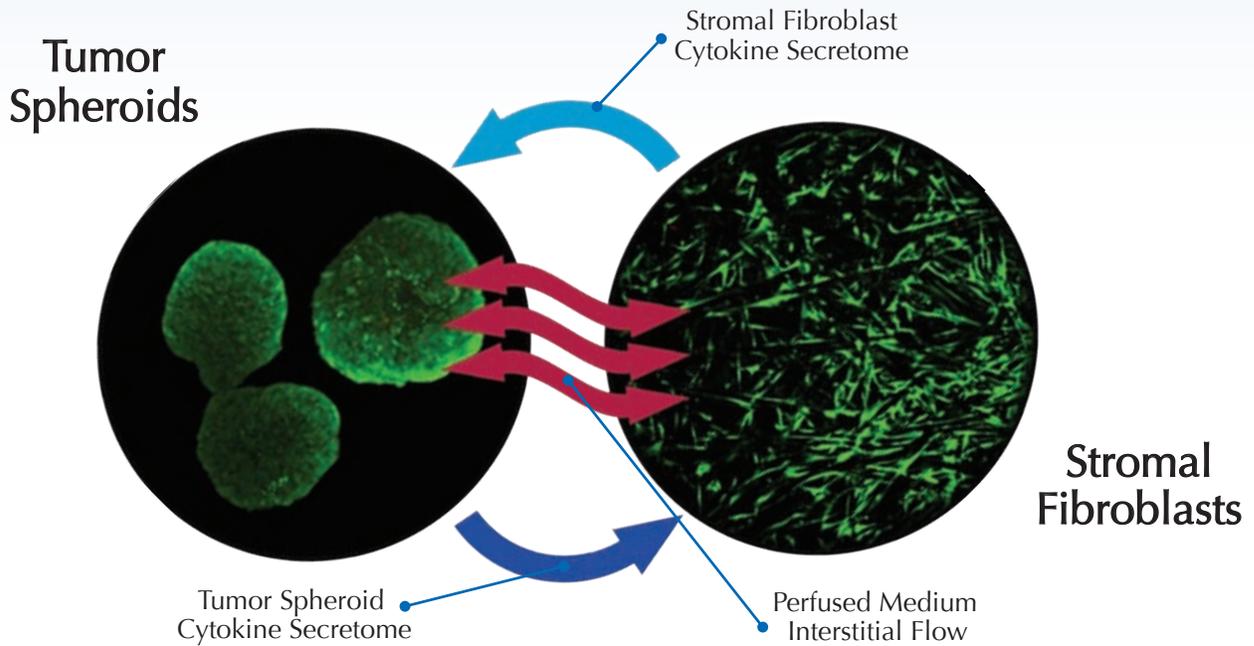


Drug Response Profiling Enhanced Ex Vivo Correlation:

-  Molecular Targets
-  Genetic Mutations
-  Phenotypic Response

BIOCHEMICAL	IMAGING	GENOMIC	PROTEOMIC
Viability	Phase Contrast	Next-Gen Sequencing	IHC Staining
Metabolism	Fluorescence	RT-PCR	Western Blot
Toxicity	3D Confocal	Epigenetic Arrays	Bio-Rad Bio-Plex®
Apoptosis	Electron Microscopy	Fluorescence	Immunoassays

Predictive Drug Response Profiling via the industry's most advanced 3D cell culture techniques



Can your 3D model do this?

KIYATEC's 3D cell-based Drug Response Profiling (DRP) services enable our clients to select and advance only their most promising and clinically relevant drug candidates. We seek to address your most challenging drug development issues. Whether preclinical candidate selection, poor *in vitro* to *in vivo* correlation, drug resistance, combination dosing or overall poor clinical performance, KIYATEC provides a cost effective and efficient solution to minimize risk and maximize clinical performance across your drug development pipeline.

