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# Target Discovery & Validation

HD Biosciences Shanghai · San Diego · Cranbury

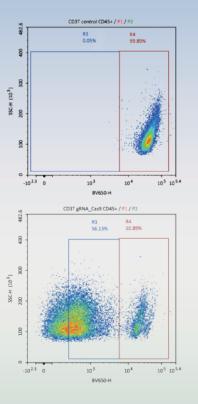
Together, We DeliverYour Biology-focused Drug Discovery Enabling Partner

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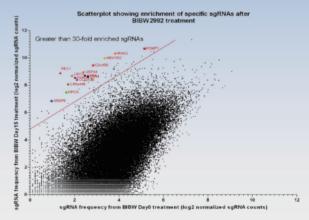
# Target Discovery and Validation Propelled by CRISPR and Other New Technologies

- Library screen platform to support target discovery and mechanistic studies
- CRISPR based AGMTM (advanced gene manipulation) platform enables target gene manipulation in cell line, iPSC, and primary cells
- Diversified cell bank of around 1000 cancer lines as target cells
- Comprehensive functional and phenotypic assay solutions
- Wide choices of disease models

### Genomic editing in primary immune cells enables target mechanistic exploration



## Library screen to support new target discovery



Primary Immune cell type	Validation target	FACS based expression reduction	Sequencing based in del mutation
Mouse T cell	PD1	70%-80%	70%-80%
Human T cell	CD45	70%-80%	80%-90%
Human monocyte	CD45	70%-80%	70%-80%
Human DC	Target A	50%	60%-70%
Human M1	Target A	50%	60%-70%
Human M2	Target A	60%	80%-90%

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