

Cancer pharmacology services

- Integrated package of pre-clinical cancer pharmacology services
- For targeted oncology and immuno-oncology:
 - *in vitro* cell-free and cell-based assays
 - *in vivo* tumor models
- Multidisciplinary *ex vivo* PD analysis

-in vitro assays

- **Biochemical assays**
HTRF, AlphaScreen, High throughput screening, FRET, ADP-Glo
- **Biophysical assays**
SPR with Biacore 8K, HTRF, ELISA, AlphaLisa FACS
- **Cellular assays**
Viability and cytotoxicity
Spheroid/Organoid
600+ human cancer cell lines
70+ PDX-derived cell lines



-in vivo tumor models

- **Targeted oncology**
320+ CDXs/**30** cancer types
1,400+ PDXs/**30** cancer types
Well annotated by **SOC** and **NGS**
- **Immuno-oncology**
88 syngeneic models/**21** cancer types
Transgenic mice for **20+** targets
20+ PBMC/HSC humanized models
- **Translational models**
42 orthotopic models/**15** cancer types
32 metastatic models/**7** cancer types
32 drug resistant models/**11** key targets
Hamster and rat models
- **Informative online database**
1,800+ model datasets
Growth kinetics: **3,000**
Histopathology: **2,800**
Pharmacological sensitivity: **4,000**
NGS (WES/RNAseq): **2,700**

-ex vivo PD analysis

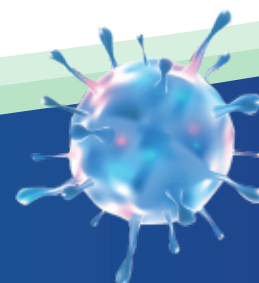
Molecular PD assays	Histopathology	Flow cytometry	NGS
<p>Gene expression analysis</p> <p>Protein expression analysis</p> <p>Cytokine expression analysis</p> <p>Meso Scale Discovery (MSD) Luminex Multiplex System</p>	<p>Single IHC/IF</p> <p>Multiplex IF up-to 12 colors</p> <p>BaseScope and RNAScope</p>	<p>Cytek Aurora (40 colors) BD LSR Fortessa (18 colors) BD LSR Fortessa X20 (18 colors) BD Canto plus (10 colors) BD Canto II (8 colors) BD FACS Aria II (18 colors) Intellicyt iQue3</p>	<p>scRNA-seq Spatial transcriptomics</p> <p>NanoString</p>



Contact us

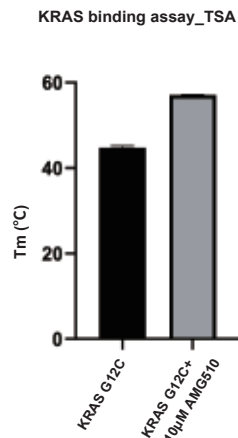
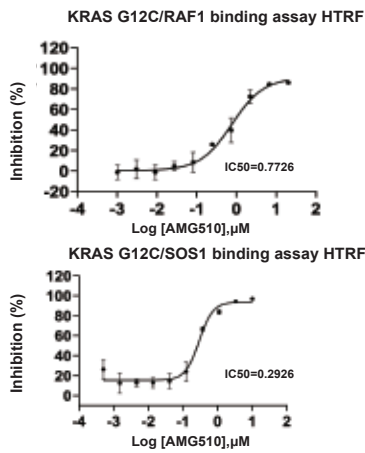
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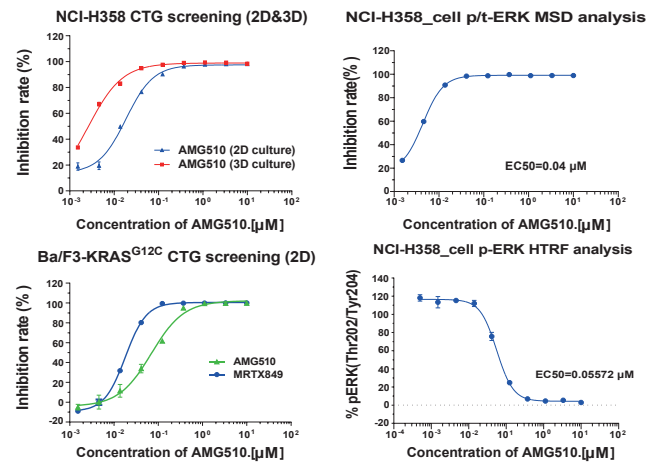


Case study: pharmacological evaluation of a KRAS G12C inhibitor

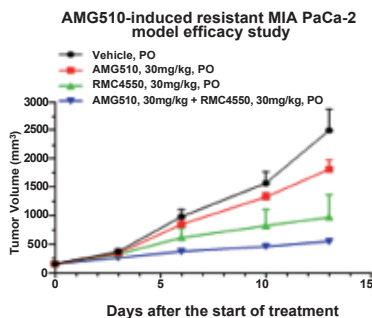
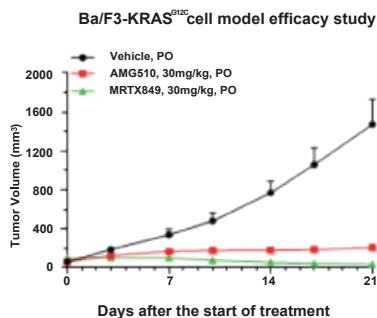
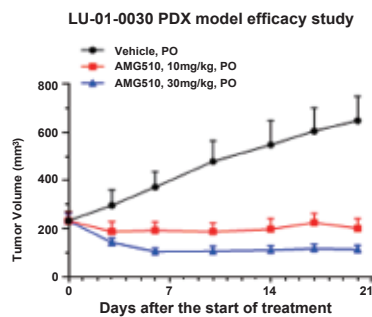
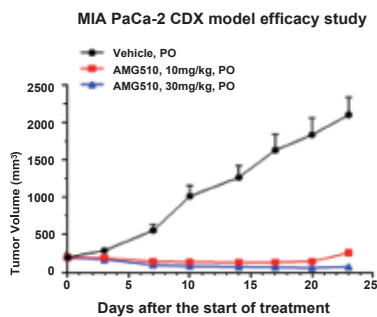
1 Protein-based screening



2 Cell-based screening and MoA



3 in vivo model efficacy study



4 ex vivo PD analysis

