

CRISPR Screens Reveal Synthetic-Lethal Targets in KRAS-Mutant Tumours

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ABSTRACT

KRAS-mutant cancers remain difficult to treat. We performed genome-wide CRISPR knockout screens across 28 KRAS-mutant tumour models to map synthetic-lethal interactions. Dependencies clustered by tissue of origin rather than KRAS allele, and SHOC2 loss was selectively lethal across pancreatic models irrespective of downstream pathway configuration.

KEYWORDS

KRAS, CRISPR screen, synthetic lethality, pancreatic cancer

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