

Table S1. KRAS mouse modeling by the CRISPR/Cas system (in chronological order).

Tumor type	Targeted gene	Delivery	Methods	Publication year	Reference
Lung adenocarcinoma	Rosa26, Myd88, A20, Kras ^{G12D} , p53, LKB1	AAV	Intranasal/intratracheal	2014	[96]
Pancreatic cancer	LKB1	Lentivirus	Retrograde ductal injections	2015	[97]
Pancreatic cancer	Brac2	Electroporation	Laparotomy	2016	[25]
Colorectal cancer	Apc, Trp53	Lentivirus	Mucosal injection	2017	[98]
Gallbladder cancer	Cr8, p53, PTEN	Retroviral	Subcutaneous /orthotopic transplantation of organoids	2019	[99]
Pancreatic cancer	Kras, Trp53, LKB1, Arid1a	AAV	Surgical procedure and direct injection	2019	[100]
Colorectal cancer/pancreatic cancer/	Kras ^{G12R} , Kras ^{G13D} , Kras ^{G12C}	Nucleofection	Blastocyst injection	2020	[101]
Gall bladder cancer	Kras ^{G12D} , Trp53	Lentivirus	Implantation of organoid-derived tumor bud	2021	[102]
Pancreatic cancer	Kras	Lentivirus	Orthotopic injection	2021	[103]
Non-small cell lung cancer	Trp53, Kras ^{G12D}	AAV	Intratracheal	2021	[104]
Mammary tumor	Kras ^{G12D} , Pik3ca	AAV	Intraductally into mammary glands	2023	[105]
Lung cancer /pancreatic cancer	Rosa26 ^{PE2} , Trp53	Lentivirus	Intratracheally transduced/retrograde pancreatic duct viral delivery	2023	[106]

AAV, Adeno-associated virus;