

On Target to Outsmart Cancer™

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For a further description of the risks and uncertainties that could cause actual results to differ from those anticipated in these forward-looking statements, as well as risks relating to the business of Revolution Medicines in general, see Revolution Medicines' Quarterly Report on Form 10-Q filed with the Securities and Exchange Commission on November 7, 2022, and its future periodic reports to be filed with the Securities and Exchange Commission.

This presentation concerns product candidates that are under clinical investigation and which have not yet been approved for marketing by the U.S. Food and Drug Administration (FDA). These product candidates are currently limited by Federal law to investigational use, and no representation is made as to their safety or effectiveness for the purposes for which they are is being investigated.



On Target to Outsmart Cancer

HIGH UNMET NEED IN RAS-ADDICTED CANCERS

RAS proteins drive 30% of human cancers⁽¹⁾, and are largely unserved by targeted therapeutics

STRONG CLINICAL VALIDATION OF RAS AS CANCER DRIVER

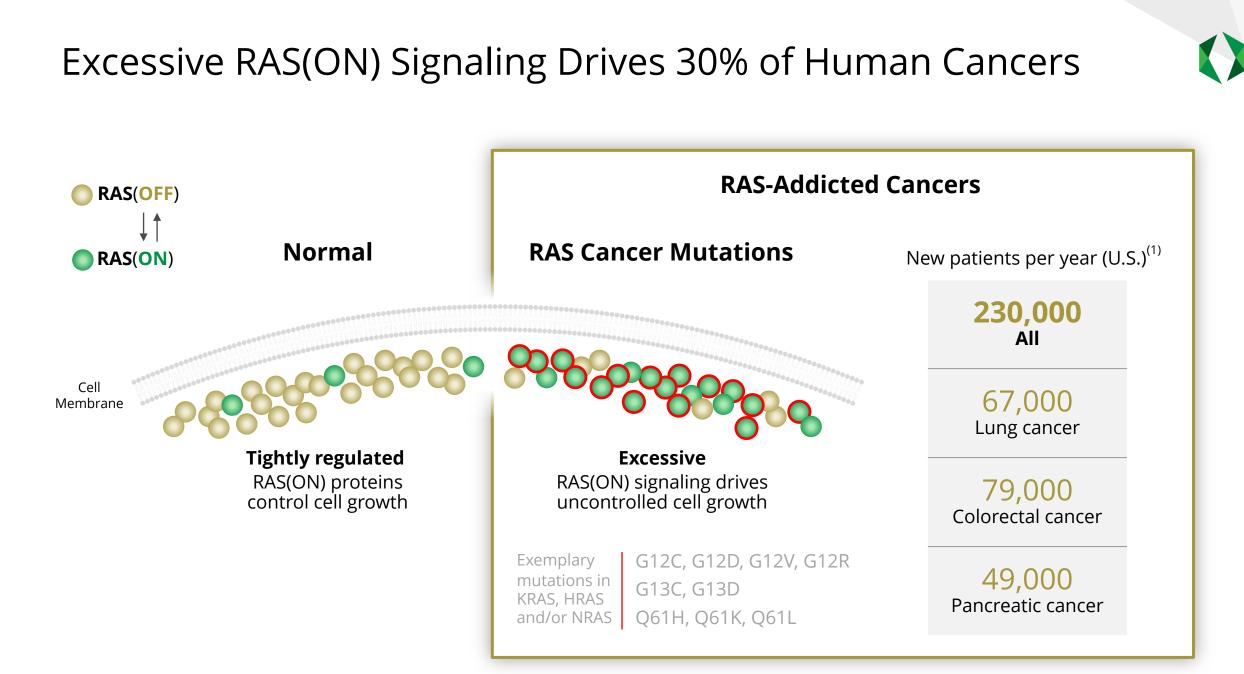
Proof-of-principle from first-gen KRAS^{G12C} inhibitors⁽²⁾ predicts favorable impact of targeted inhibitors across numerous RAS cancer drivers

DEEP SCIENCE-DRIVEN PIPELINE

Comprehensive collection of groundbreaking *RAS(ON) Inhibitors* designed to have best-in-class preclinical profiles and/or first-in-class potential tailored to target RAS space broadly; first candidates in the clinic

Leading *RAS Companion Inhibitors* in clinic designed for combination treatment strategies to counter resistance to RAS targeted therapies

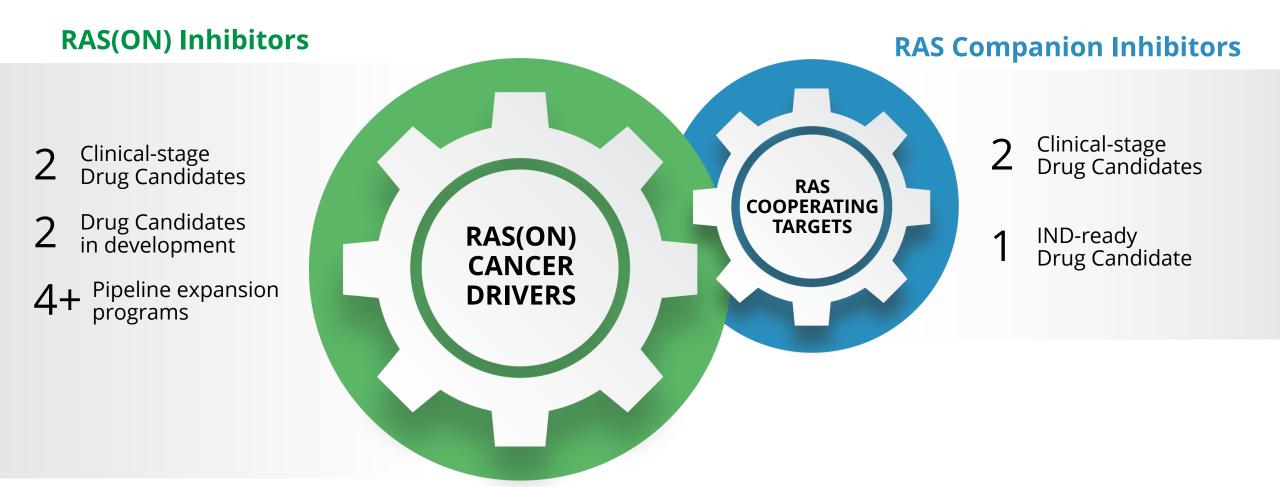
(1) Prior et al., *Cancer Research* 2020(2) Lumakras approved by the FDA in May 2021



(1) Estimated using tumor mutation frequencies from Foundation Medicine Insights August 2020 and scaled to estimated patient numbers using cancer incidence from ACS Cancer Facts and Figures 2020 (see appendix for additional detail); lung cancer = non-small cell lung cancer

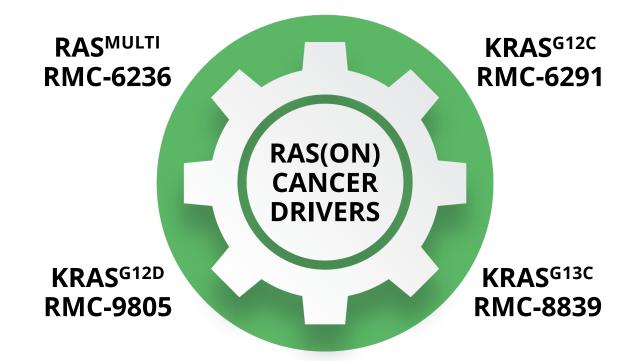
Deep Science-Driven Pipeline of Targeted Therapies for RAS-Addicted Cancers





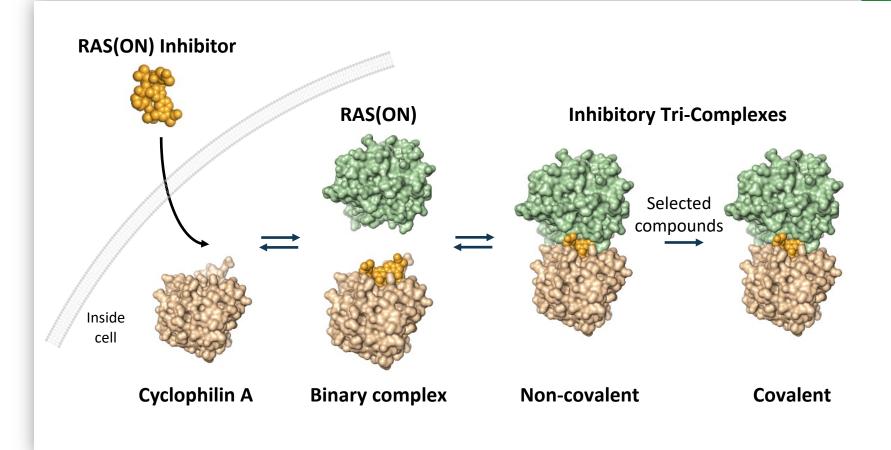
RAS(ON) Inhibitors

Induce Rapid, Deep and Sustained Suppression of RAS(ON) Cancer Drivers





Distinctive RAS Drug Discovery: Innovation Engine Targets Oncogenic RAS(ON) Proteins

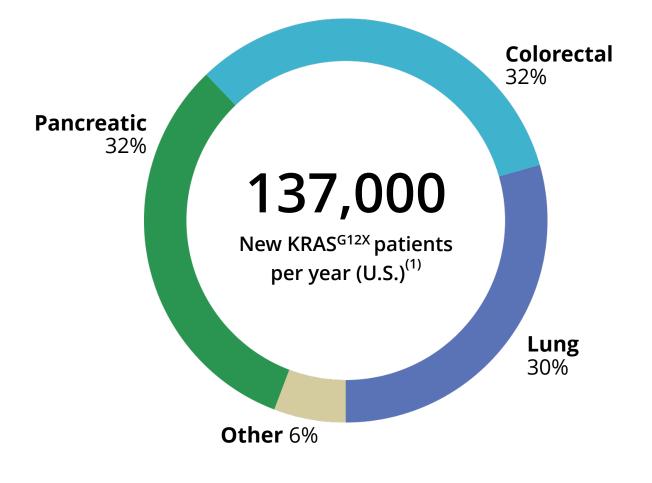


RAS(ON) Inhibitors Deep and Diverse Collection

- Highly potent and selective
- Oral and drug-like
- Rapid, deep and sustained suppression of RAS(ON) signaling

RMC-6236: First-in-Class RAS^{MULTI}(ON) Inhibitor with Broad Potential Against RAS-Addicted Cancers





KRAS^{G12X} includes KRAS^{G12D}, KRAS^{G12V}, KRAS^{G12R} and KRAS^{G12C}

8

Highly Potent and Selective RAS(ON) Inhibitor

 Inhibits canonical RAS family members, suppressing the mutant cancer driver and cooperating wild-type RAS proteins

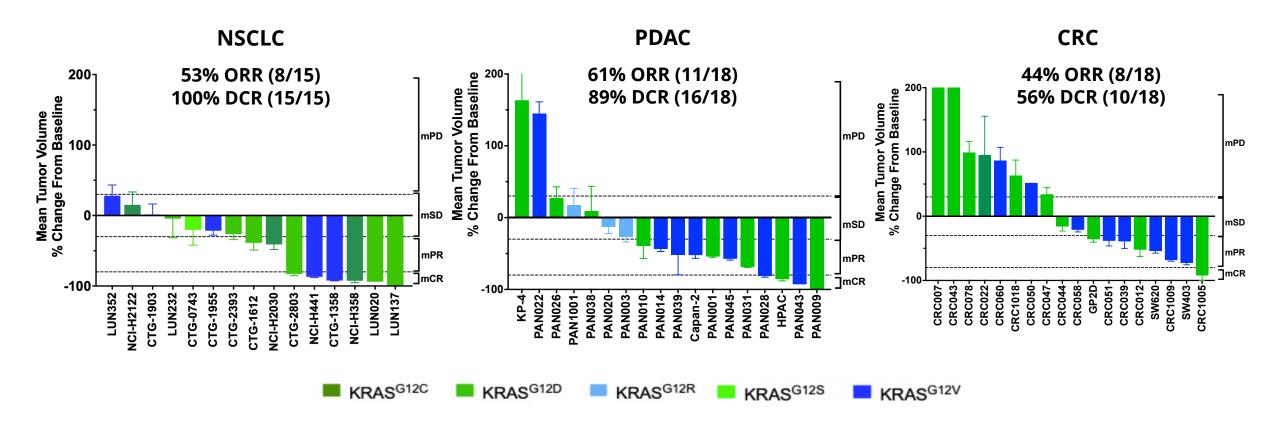
Robust Anti-tumor Activity in Cancer Models

 Deep and sustained inhibition drives durable anti-tumor activity in tumors with common RAS variants including KRAS^{G12D}, KRAS^{G12V}, KRAS^{G12R} and KRAS^{G12C}

Attractive PK/ADME Profile

 Favorable *in vivo* oral bioavailability, clearance and concentration in tumors for effective target coverage in RAS-addicted cancer cells

RMC-6236: Highly Active *in Vivo* Across Cancer Models with KRAS^{G12X} Drivers

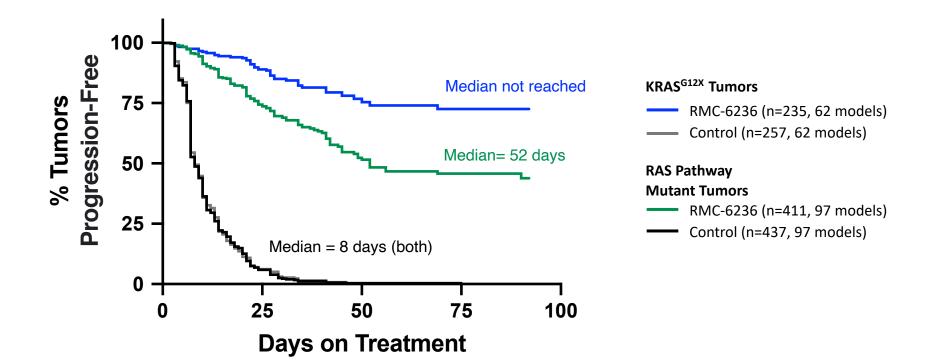


Deep Tumor Regressions and Complete Responses Observed Across Cancer Models

RVMD preclinical research, as of 03/11/22 RMC-6236 dosed at 25 mg/kg po qd; n = 1-10/group NSCLC = non-small cell lung cancer; PDAC = pancreatic ductal adenocarcinoma; CRC = colorectal cancer Responses assigned according to mRECIST (see appendix)

ORR = objective response rate; DCR = disease control rate

RMC-6236: Highly Active *in Vivo* Across Cancer Models with Diverse RAS Drivers



Durable Anti-Tumor Benefit Observed in KRAS^{G12X} Cancer Models and Beyond

RVMD preclinical research, as of 03/11/22 RMC-6236 dosed at 25 mg/kg po qd Progression defined as tumor doubling from baseline over 28 days p<0.0001 by Log-rank test (control vs RMC-6236 treatment) See appendix for composition of KRAS^{G12X} Tumors and RAS Pathway Mutant Tumors

RMC-6236: Anti-Tumor Immunity *in Vivo* and Strong Additivity with Checkpoint Inhibitor



Favorable Transformation of Durable Complete Responses Tumor Immune Microenvironment with Checkpoint Inhibitor Combination CD8+ T Cells Control RMC-6236 + Anti-PD1 M2 M0 mMDSCs Mean Tumor Volume (mm³) 3000 3000 60 30 8 % of CD45+ 6 2000 40 2000 20 10 1000-20 1000 Dosing 2 10/10 CR Ŧ stop 0 20 40 60 80 20 40 60 80 **Day Post Tumor Implant** RMC-6236 Control

Modulation of the Tumor Microenvironment Primes for Anti-Tumor Immunity in Cancer Models

RVMD preclinical research Syngeneic tumor model with CT26 cell line engineered to express KRAS^{G12C}

RMC-6236 dosed at 25 mg/kg po qd; Anti-PD1 dosed at 10 mg/kg ip biw; n = 10/group M2 M θ = M2 macrophages; mMDSCs = Monocytic myeloid derived suppressor cells

RMC-6236: Clinical Priorities to Pursue First-in-Class Activity Against KRAS^{G12X} Tumors



• Initiated single agent dose escalation in patients with cancers with KRAS^{G12X} mutations (focused on NSCLC, pancreatic cancer and CRC)*

- Include 'below MTD' expansion cohorts in select populations during dose escalation
- Define RP2DS
- Single agent expansion cohorts in KRAS^{G12X} tumors (NSCLC, pancreatic cancer and CRC)
- Combinations in KRAS^{G12X} tumors (NSCLC, pancreatic cancer and CRC)



Aims

Evidence of first-in-class single agent activity against KRAS^{G12X} tumors[^]

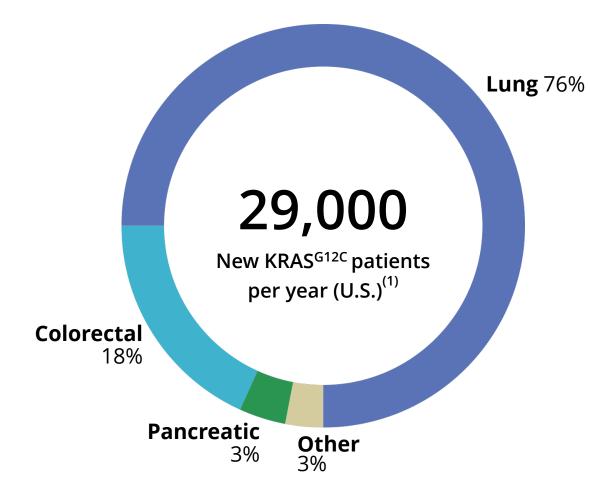
^See Anticipated Milestones table

KRAS^{G12X} may include KRAS^{G12D}, KRAS^{G12V}, KRAS^{G12R} and/or KRAS^{G12C} RP2DS = Recommended Phase 2 dose and schedule MTD = maximum tolerated dose NSCLC = non-small cell lung cancer; CRC = colorectal cancer

(ongoing* or projected)

Activities

RMC-6291: Mutant-Selective RAS(ON) Inhibitor with Best-in-Class Potential for KRAS^{G12C} Cancers



Highly Potent and Selective RAS(ON) Inhibitor

- Highly active against KRAS^{G12C}
- Covalent for irreversible inhibition
- Low off-target risk and acceptable safety profile

Robust Anti-tumor Activity in Cancer Models

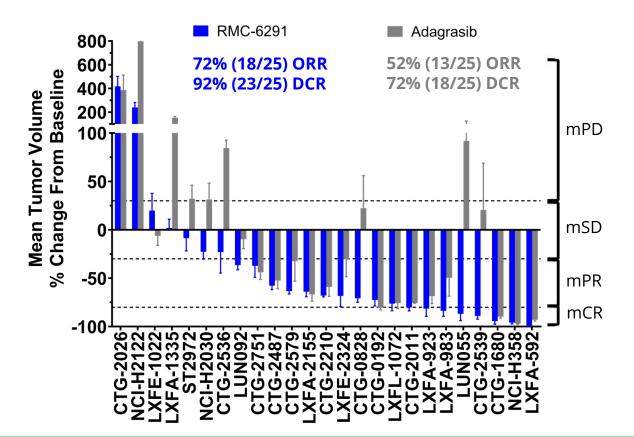
 Rapid, deep and sustained inhibition drives durable anti-tumor effects across multiple KRAS^{G12C} tumor types, with complete responses in some models

Attractive PK/ADME Profile

 Favorable *in vivo* oral bioavailability and clearance for effective target coverage in KRAS^{G12C}-addicted cancer cells

RMC-6291: Superior Outcomes in Mouse Clinical Trial with KRAS^{G12C} NSCLC Models





Best-in-Class Potential in KRAS^{G12C} NSCLC

RVMD preclinical research as of 10/21/21 Adagrasib dosed at 100 mg/kg po qd; RMC-6291 dosed at 200 mg/kg po qd; n = 3 to 10/group NSCLC = Non-small cell lung cancer Responses assigned according to mRECIST (see appendix)

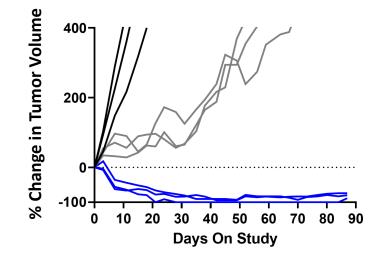
RMC-6291 May Improve on KRAS^{G12C}(OFF) Inhibitor Class Across Three Outcome Measures in NSCLC

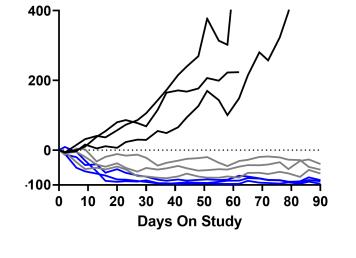


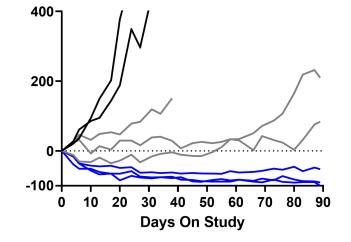
Increased <u>Rate</u> Of Response^(a)

Increased <u>Depth</u> Of Response^(b)

Increased <u>Duration</u> Of Response^(C)







- Control - RMC-6291 - Adagrasib

Best-in-Class Potential in KRAS^{G12C} NSCLC

RVMD preclinical research as of 07/28/21 RMC-6291 dosed at 200 mg/kg po qd; Adagrasib dosed at 100 mg/kg po qd NSCLC = Non-small cell lung cancer PDX Models: (a) LUN055; (b) LXFA-983; (c) CTG-0828 Nichols. Targeting KRAS^{G12C}(ON) and Potential Application to Overcoming Drug Resistance in RAS-Addicted Tumors. RAS-Targeted Drug Development Summit. Sept. 22, 2021.

RMC-6291: Anti-Tumor Immunity *in Vivo* and Strong Additivity with Checkpoint Inhibitor



Favorable Transformation of Tumor Immune Microenvironment with Checkpoint Inhibitor Combination Control Anti-PD1 \downarrow Cancer Cell ↑ MHCII in ○ Vehicle Tumor Volume (mm³) 2000 2000-**Proliferation Cancer Cells** RMC-6291 ** 50 * Tumor cells Tumor Cells 40 1000 1000 MHC II+ Ki67+ 30 20 10 % 20 40 60 80 100 120 20 40 60 80 100 120 ↓ gMDSC ↑ CD8+ T Cells **RMC-6291 RMC-6291 + Anti-PD1** Tumor Volume (mm³) -0001 -0001 Ly6G+ % of CD45+ 30-CD8+ % of CD45+ 2000-30-20 20-10 1000-0 Dosing Dosing 10/10 CR stop stop

20

40

60

Day Post Tumor Implant

80

100 120

20

40

60

Day Post Tumor Implant

80 100 120

Durable Complete Responses

RVMD preclinical research 16 Syngeneic tumor model with CT26 cell line engineered to express KRASG12C RMC-6291 dosed at 100 mg/kg po for immuno-PD study; 200 mg/kg po qd for tumor volume study

RMC-6291: Clinical Priorities to Pursue Best-in-Class Activity Against KRAS^{G12C} Tumors



• Initiated single agent dose escalation in KRAS^{G12C} tumors^{*}

- Include 'below MTD' expansion cohorts in select populations (e.g., NSCLC) during dose escalation
- Define RP2DS

(ongoing* or projected)

Activities

- Single agent expansion cohorts in KRAS^{G12C} NSCLC and pancreatic cancer (RAS inhibitor naïve +/- failure)
- Combinations in KRAS^{G12C} NSCLC & CRC



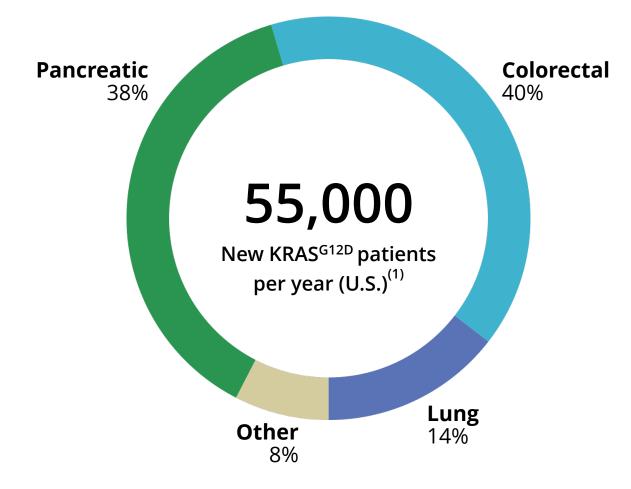
Aims

Preliminary evidence of superior activity against KRAS^{G12C} tumors[^]

^See Anticipated Milestones table

RMC-9805: First-in-Class Mutant-Selective RAS(ON) Inhibitor for KRAS^{G12D} Cancers





Highly Potent and Selective RAS(ON) Inhibitor

- Highly active against KRAS^{G12D}
- Covalent for irreversible inhibition
- Low off-target risk and acceptable safety profile

Robust Anti-tumor Activity in Cancer Models

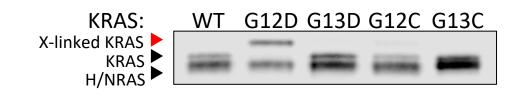
 Rapid, deep and sustained inhibition drives durable regressions in KRAS^{G12D} lung, pancreatic and colorectal cancers

Attractive PK/ADME Profile

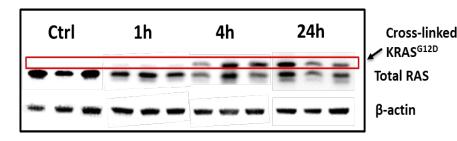
• Favorable *in vivo* oral bioavailability and clearance for effective target coverage in KRAS^{G12D}-addicted cancer cells

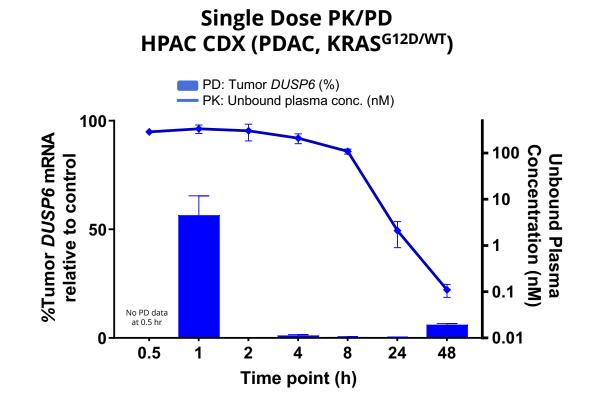
RMC-9805: Selective, Covalent and Orally Active with Sustained Inhibition of KRAS^{G12D} in Vivo

Selective Covalent Modification of KRAS^{G12D}

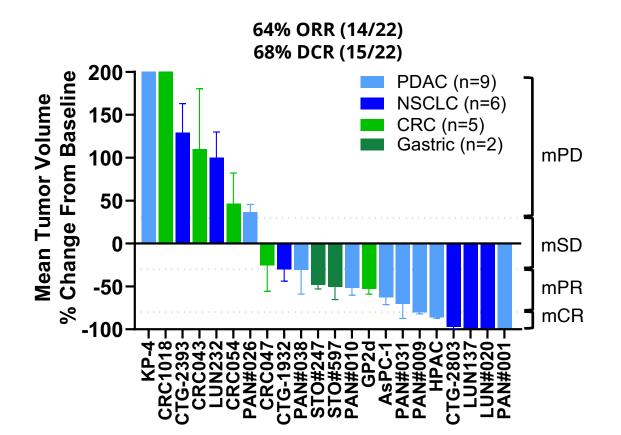


KRAS^{G12D} Target Engagement HPAC CDX (PDAC, KRAS^{G12D/WT})





RMC-9805: Highly Active *in Vivo* Across KRAS^{G12D} Cancer Models

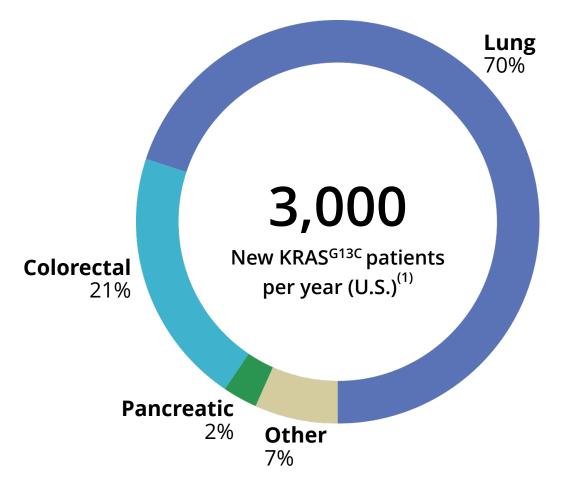


Deep Tumor Regressions and Complete Responses

RVMD preclinical research, as of 09/03/22 RMC-9805 dosed at 100 mg/kg po qd; n = 2-8/group NSCLC = non-small cell lung cancer; PDAC = pancreatic ductal adenocarcinoma; CRC = colorectal cancer Responses assigned according to mRECIST (see appendix) ORR = objective response rate; DCR = disease control rate

RMC-8839: First-in-Class Mutant-Selective RAS(ON) Inhibitor for KRAS^{G13C} Cancers





Highly Potent and Selective RAS(ON) Inhibitor

- Highly active against KRAS^{G13C}
- Covalent for irreversible inhibition
- Low off-target risk and acceptable safety profile

Robust Anti-tumor Activity in Cancer Models

Rapid, deep and sustained inhibition drives durable regressions in KRAS^{G13C} lung cancers

Attractive PK/ADME Profile

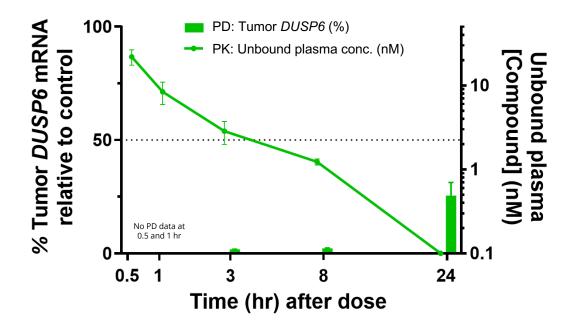
• Favorable *in vivo* oral bioavailability and clearance for effective target coverage in KRAS^{G13C}-addicted cancer cells

RMC-8839: Selective, Covalent and Orally Active with Sustained Inhibition of KRAS^{G13C} in Vivo

Selective Covalent Modification of KRAS^{G13C}

KRAS:	WT	G12C	G13C
X-linked KRAS ► KRAS ► H/NRAS ►			_

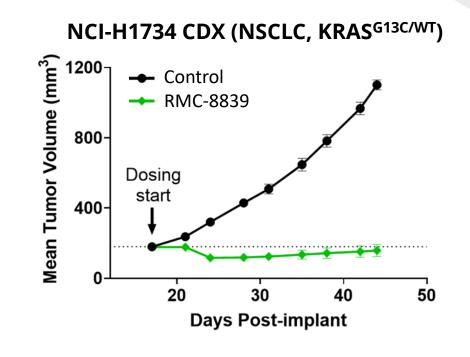
Single Dose PK/PD NCI-H1734 (NSCLC CDX, KRAS^{G13C})



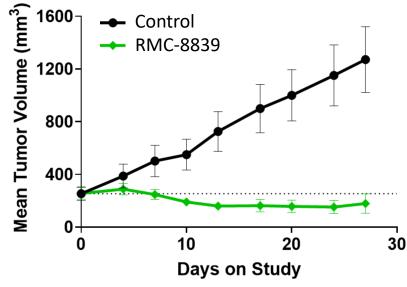
22 RVMD preclinical research RMC-8839 dosed at 100 mg/kg po NSCLC = non-small cell lung cancer

RMC-8839: Tumor Regressions in Models of KRAS^{G13C} Cancers

- Designed as first-in-class mutant-selective covalent inhibitor of KRAS^{G13C}
- Deep anti-tumor responses in vivo in non-small cell lung cancer models
- Oral dosing, well tolerated



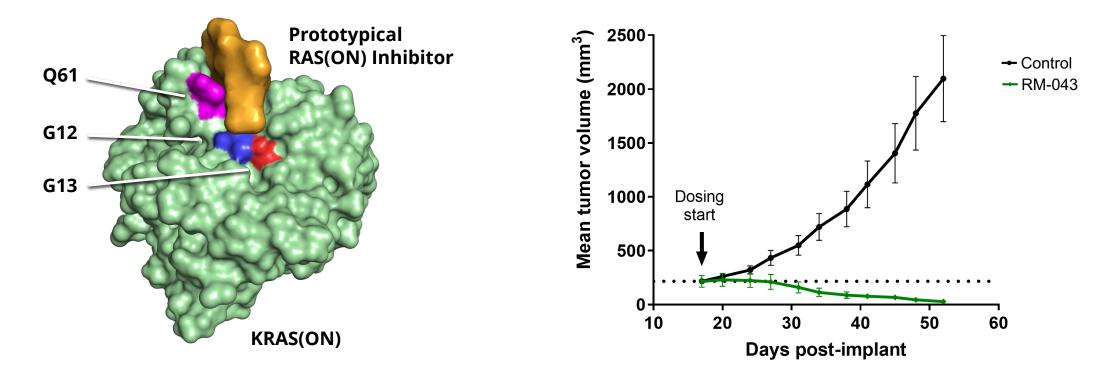
ST2822B PDX (NSCLC, KRAS^{G13C/WT})



RVMD preclinical research RMC-8839 dosed at 100 mg/kg po qd; n = 5/group; NSCLC = Non-small cell lung cancer Pipeline Expansion Programs Include Oral, Potent, Selective, Non-Covalent Inhibitors of KRAS^{Q61H}(ON)

RAS(ON) Inhibitor Binding Geometry Enables Targeting of All Three Mutational Hotspots







Devastating disease >90% driven by KRAS mutations

49,000

New KRAS^{MUTANT} pancreatic cancer patients per year (US)⁽¹⁾

Dismal survival rates No approved targeted therapies

G12D 36%	RMC-6236 RMC-9805
G12V 26%	RMC-6236
G12R ^{13%} G12C ^{2%} Other	RMC-6236 RMC-6291 RMC-6236 RMC-6236
23%	

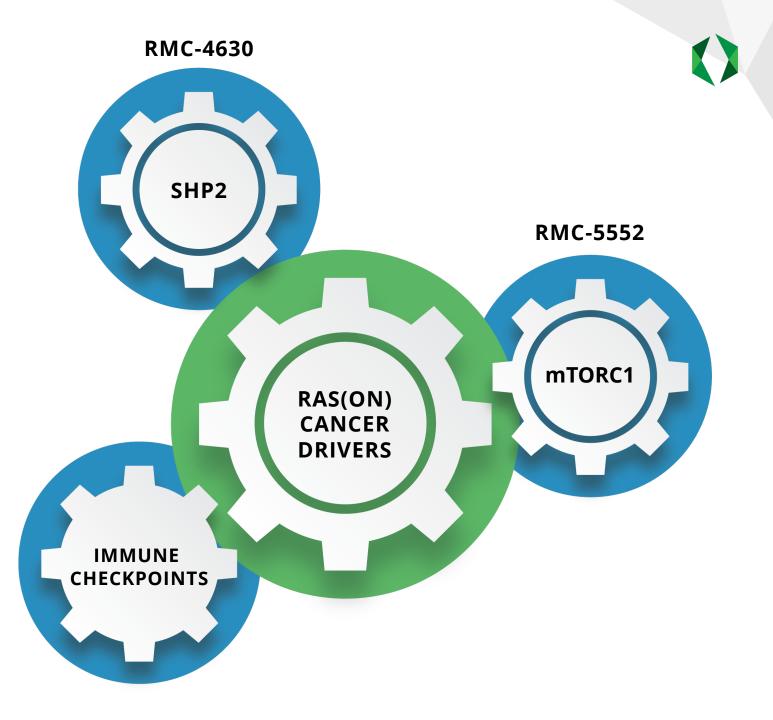
Our development-stage RAS(ON) Inhibitors

- Inhibit >90% of pancreatic cancer drivers in cancer models⁽¹⁾
- Exhibit strong antitumor activity in preclinical models of pancreatic cancer

25 (1) Calculated using tumor mutation frequencies from Foundation Medicine Insights August 2020 and scaled to estimated patient numbers using cancer incidence from ACS *Cancer Facts and Figures* 2020 (see appendix for additional detail)

RAS Companion Inhibitors

Suppress Cooperating Targets and Pathways that Sustain RAS-Addicted Cancers





STUDY	SPONSOR	COMBINED WITH	INDICATION(S)	STATUS
CodeBreaK 101c (U.S.)	Amgen	sotorasib	2L+ KRAS ^{G12C} solid tumors	Ongoing (Phase 1b)
RMC-4630-03 (Global)	RevMed	sotorasib	2L+ KRAS ^{G12C} NSCLC	Ongoing (Phase 2)
TCD16210 (Global)	Sanofi	adagrasib	2L+ KRAS ^{G12C} NSCLC	Recruiting (Phase 1/2)
TBD	RevMed	RMC-6291	KRAS ^{G12C} TBD	Planning
TCD16210 (Global)	Sanofi	pembrolizumab	1L PDL1 ⁺ NSCLC	Ongoing (Phase 2)

Evaluation of RMC-4630 in Combination with Sotorasib in KRAS^{G12C} Cancer Patients



"Promising clinical activity was observed"⁽¹⁾ in **CodeBreaK101c**



KRAS^{G12C} patients in dose/schedule exploration (all solid tumors, 100-200 mg twice weekly)⁽²⁾



"The combination of sotorasib with RMC-4630 was safe and tolerable"⁽¹⁾

75%/ ORR/DCR among KRAS^{G12C} inhibitornaïve NSCLC patients treated at top two doses of RMC-4630 (n=4)



One patient with progression on sotorasib monotherapy achieved an unconfirmed PR on RMC-4630 combo

Currently enrolling patients in **RMC-4630-03**

- Global Phase 2 study of sotorasib + RMC-4630 to complement NSCLC findings of CodeBreaK101c
- Exclusively KRAS^{G12C} inhibitor-naïve NSCLC patients
- Focused on top two doses of RMC-4630 from CodeBreaK101c:
 - 140 and 200 mg D1D2 weekly
- Patients stratified into two cohorts: KRAS^{G12C} +/- co-mutations such as KEAP1 or STK11

https://clinicaltrials.gov/ct2/show/NCT05054725

https://clinicaltrials.gov/ct2/show/NCT04185883

⁽¹⁾ Falchook et. al. Sotorasib in Combination with RMC-4630, a SHP2 Inhibitor, in *KRAS* p.G12C-Mutated NSCLC and Other Solid Tumors. 2022 World Conference on Lung Cancer. August 6-9, 2022. Vienna, Austria. Abstract #OA03.03. (2) Patients were treated with sotorasib (960 mg QD) and RMC-4630, with escalating dose levels of 100 mg, 140 mg, or 200 mg at days 1 and 2 or days 1 and 4 every 7 days. Pharmacokinetic analysis demonstrated that average sotorasib and RMC-4630 exposures were consistent with distributions observed in monotherapy studies, with no clinically meaningful drug-drug interactions noted.

RMC-4630: Clinical Priorities to Pursue Best-in-Class Combination Activity in KRAS^{G12C} Tumors



Continue enrollment in RMC-4630-03*

- Registration study in combination with KRAS^{G12C}(OFF) inhibitor in KRAS^{G12C} NSCLC
- Combination study(ies) with KRAS^{G12C}(OFF) inhibitor in KRAS^{G12C} CRC and/or pancreatic cancer
- Combination study(ies) with RMC-6291



Evidence of clinical benefit as RAS Companion Inhibitor against KRAS^{G12C} NSCLC **Evidence of clinical benefit** as a RAS Companion Inhibitor against additional KRAS^{G12C} tumors

RMC-4630/SAR442720 under 2018 partnership

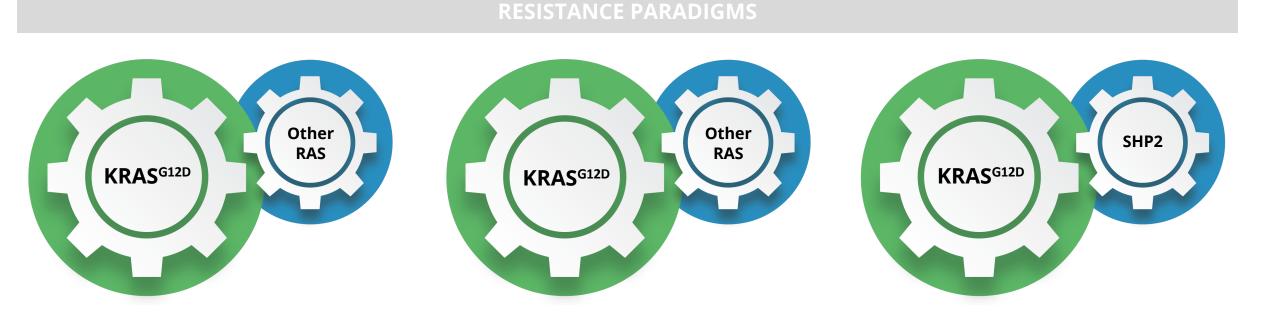
(ongoing* or projected)

Activities

NSCLC = non-small cell lung cancer CRC = colorectal cancer

Parallel Treatment Strategies to Outsmart Diverse RAS Inhibitor Resistance Mechanisms

EXAMPLES



FREATMENT STRATEGIES

RMC-6236

ALL-IN-ONE

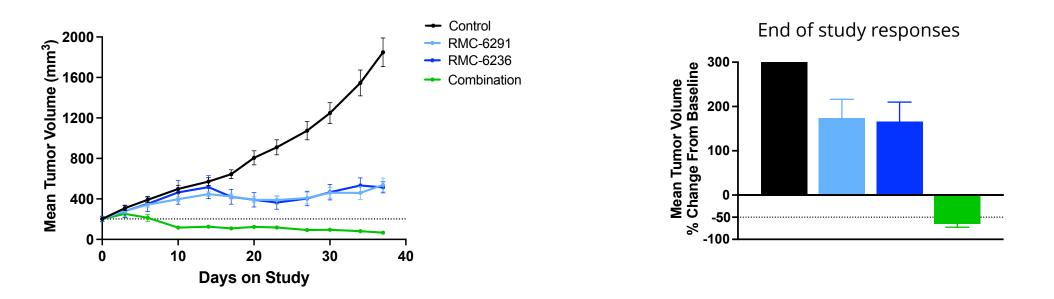
RMC-9805 + RMC-6236

RMC-9805 + RMC-4630

MAXIMAL DOSING FLEXIBILITY

RMC-6291 + RMC-6236 Combination Induces Tumor Regressions in a Relatively Resistant Model of KRAS^{G12C} CRC

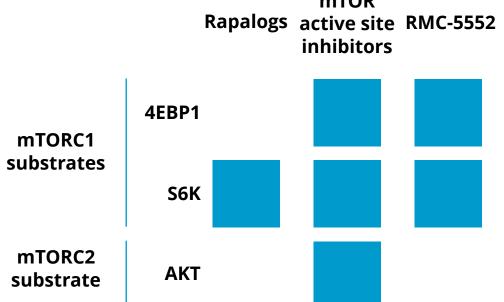
CRC022 PDX (CRC, KRAS^{G12C/WT})



RAS^{MULTI}(ON) Inhibitor Deployed as a RAS Companion Inhibitor

RMC-5552: First-in-Class Bi-steric mTORC1-Selective Inhibitor for Cancers with Hyperactive mTOR Signaling





mTOR

Highly Potent and Selective mTORC1 Inhibitor

- Bi-steric structure combines favorable features of rapalogs and active site inhibitors
- Capable of reactivating the tumor suppressor 4EBP1 •
- Selective over mTORC2, low off-target risk

Robust Anti-tumor Activity in Cancer Models

Rapid, deep and sustained inhibitor of mTORC1 . drives durable regressions in mTOR pathway cancers

Attractive PK/ADME Profile

Favorable *in vivo* exposure following IV dosing for ٠ effective target coverage in mTORC1-dependent cancer cells

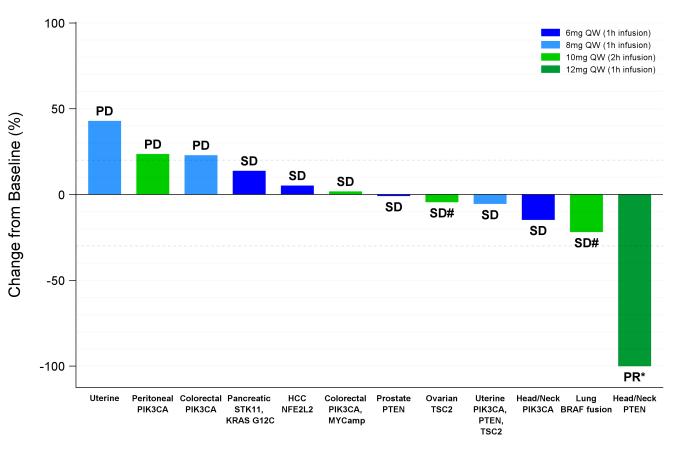
RMC-5552 Clinical Opportunity

- Potent, selective inhibitor of hyperactivated mTORC1 to reactivate the tumor suppressor 4EBP1
- Designed for combination with RAS(ON) inhibitors in patients with cancers harboring RAS/mTOR pathway co-mutations⁽¹⁾
 - >30,000 new patients per year across lung, colorectal and pancreatic cancers (U.S.)⁽²⁾
- Single agent Phase 1b dose escalation underway, focused on tumor genotypes linked to hyperactivated mTORC1 signaling

 mTOR pathway co-mutations include genetic changes with likely oncogenic activity in one or more of PIK3CA, PTEN, TSC1, TSC2, STK11, and/or mTOR
 Calculated using tumor mutation frequencies from Foundation Medicine Insights August 2020 and scaled to estimated patient numbers using cancer incidence from ACS *Cancer Facts and Figures* 2020; see appendix for additional detail

Preliminary Evidence of Clinical Activity

Best Tumor Change in Efficacy Evaluable Patients Treated with \geq 6 mg IV Weekly⁽³⁾



(3) Preliminary assessments suggest mucositis as the major dose-limiting toxicity. *Patient received one dose of 12 mg, followed by weekly doses of 6 mg. Patient classified as PR due to persistence of non-target lesions. The patient has been on RMC-5552 for 6 months. #Patient received one dose of 10 mg, followed by weekly doses of 6 mg. Data as of 04/06/2022.

RMC-5552: Clinical Priorities to Pursue Best-in-Class Combination Activity in RAS^{MUTANT}/mTORC1-Activated Tumors

• Continue dose optimization and identify RP2DS*

• Initiate single agent expansion cohorts in select tumors with mTOR pathway mutations

• Combinations with RAS(ON) inhibitors from our portfolio in RAS^{MUTANT} tumors with mTOR pathway co-mutations



Aims

Additional evidence of single agent activity against tumors with mTOR pathway mutations[^]

^See Anticipated Milestones table

(ongoing* or projected)

Activities

Deep Pipeline of Targeted Therapies for Majority of RAS-Addicted Cancers

		PRECLINICAL	IND-ENABLING	CLINICAL PHASE 1	CLINICAL PHASE 2	CLINICAL PHASE 3
RAS(ON) INH	BITORS					
RMC-6236	RAS ^{MULTI}					
RMC-6291	KRAS ^{G12C}					
RMC-9805	KRAS ^{G12D}					
RMC-8839	KRAS ^{G13C}					
Pipeline Expansion	G12R, G12V, G13D, Q61X, other					
RAS COMPAN	IION INHIBITORS					
RMC-4630	SHP2				sanofi	
RMC-5552	mTORC1/4EBP1					
RMC-5845 ⁽¹⁾	SOS1					
(1) IND-ready						



PROGRAM	MILESTONE (EXPECTED TIMING)
RAS(ON) INHIBITORS	
RMC-6236 (RAS ^{MULTI})	Provide evidence of first-in-class single agent activity (2023)
RMC-6291 (KRAS ^{G12C})	Provide preliminary evidence of superior activity (2023)
RMC-9805 (KRAS ^{G12D})	Announce dosing of first patient (mid-2023)
Additional Mutant-Selective Inhibitors	
 RMC-8839 (KRAS^{G13C}) G12R, G12V, G13D, Q61X, other 	Nominate fifth development candidate (2H22) Advance selected Inhibitor(s) into clinical development (post-2023)
RAS COMPANION INHIBITORS	
RMC-4630 (SHP2)	Provide topline data from RMC-4630-03 (2H23)
RMC-5552 (mTORC1/4EBP1)	Provide additional evidence of single agent activity (2023)

Financial Information



Financial Position

Cash, cash equivalents and marketable securities as of September 30, 2022

\$655.0 million⁽¹⁾

2022 Financial Guidance

2022 GAAP net loss of \$260 million to \$280 million⁽²⁾

(1) With current cash, cash equivalents and marketable securities the company projects it can fund planned operations through 2024.

(2) Includes non-cash stock-based compensation expense of approximately \$30 million to \$35 million





On Target to Outsmart Cancer[™]

Focused on serving high unmet needs across numerous cancers driven by diverse RAS mutations

Targeted *RAS(ON) Inhibitors* with compelling preclinical profiles entered clinic in 2022

Targeted *RAS Companion Inhibitors* designed to counter drug resistance have shown initial clinical activity and evaluation continues

Development-stage portfolio covers RAS drivers of all major RAS-addicted cancers





- RAS cancer epidemiology statistics are estimated using tumor mutation frequencies from Foundation Medicine Insights August 2020 and scaled to estimated patient numbers using cancer incidence from ACS *Cancer Facts and Figures* 2020:
 - RAS mutations include: KRAS G12(A,C,D,R,S,V), KRAS G13(C,D), KRAS Q61(H, K, L), KRAS A146T, KRAS wild-type amplification, NRAS G12C, NRAS Q61(K,L,R,P), HRAS mutations of known/likely function, BRAF class 3 mutations, NF1 loss of function mutations, PTPN11 mutations of known/likely function. NF1 LOF mutations = 50% of all NF1 mutations of known/likely function. BRAF class 3 mutations. BRAF class 3 mutations = D287H, D594(A,E,G,H,N,V,Y), F595L, G466(A,E,R,V,E,D,R), N581(I,S), S467L,T599I, V459L.
 - Includes 12 major types: non-small cell lung cancer, colorectal, pancreatic adenocarcinoma, renal, gastroesophageal, head and neck squamous cell, ovarian and biliary cancers, acute myeloid leukemia, and advanced melanoma, bladder and uterine/endometrial cancers causing mortality.
 - Est. worldwide annual incidence of RAS-mutated cancers is 3.4 million per Prior et al., Cancer Research 2020
- RAS mutations drive 30% of human cancers per Prior et al., *Cancer Research* 2020
- KRAS^{G12X} includes KRAS^{G12D}, KRAS^{G12V}, KRAS^{G12R} and KRAS^{G12C}
- Mouse tumor responses on slides 9 and 14 assigned according to mRECIST (modified from Gao et al. Nat Med. 2015):
 - mPD = progressive disease; mSD = stable disease; mPR = partial response; mCR = complete response
- Kaplan-Meier progression on slide 10 defined as tumor doubling from baseline over 28 days:
 - KRAS^{G12X} Tumors, where X = D,V,C, A or R: n = 207
 - RAS Pathway Mutant Tumors includes KRAS^{G12X} and other RAS and RAS pathway mutant tumors: KRAS^{G13C}, KRAS^{G13D}, KRAS^{K117N}, KRAS^{Q61H}, NF1^{LOF}, PTPN11^{E76K or G503V}, BRAF^{Class 3-mutant}, and KRAS^{WT-Amp}: n = 332
- PDX = patient-derived xenograft; CDX = cell line-derived xenograft
- PK = pharmacokinetic; ADME = absorption, distribution, metabolism, and excretion