

## On Target to Outsmart Cancer™

2022 Revolution Medicines

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## On Target to Outsmart Cancer

#### HIGH UNMET NEED IN RAS-ADDICTED CANCERS

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

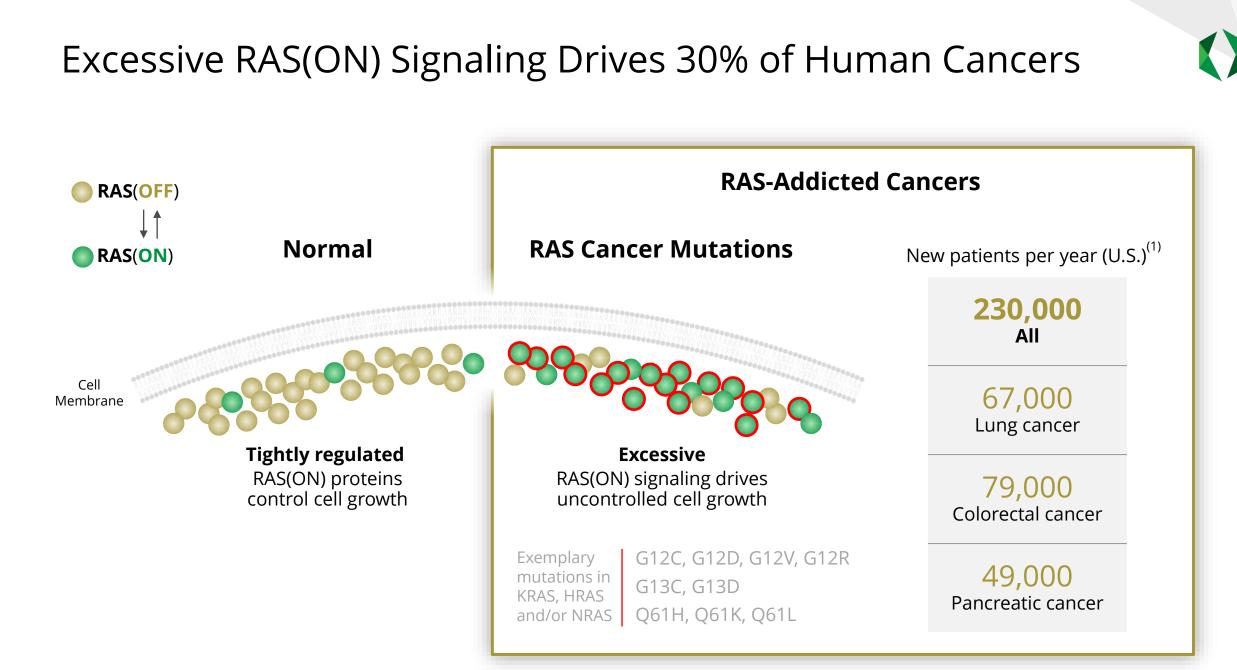
#### STRONG CLINICAL VALIDATION OF RAS AS CANCER DRIVER

Proof-of-principle from first-gen KRAS<sup>G12C</sup> inhibitors<sup>(2)</sup> 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

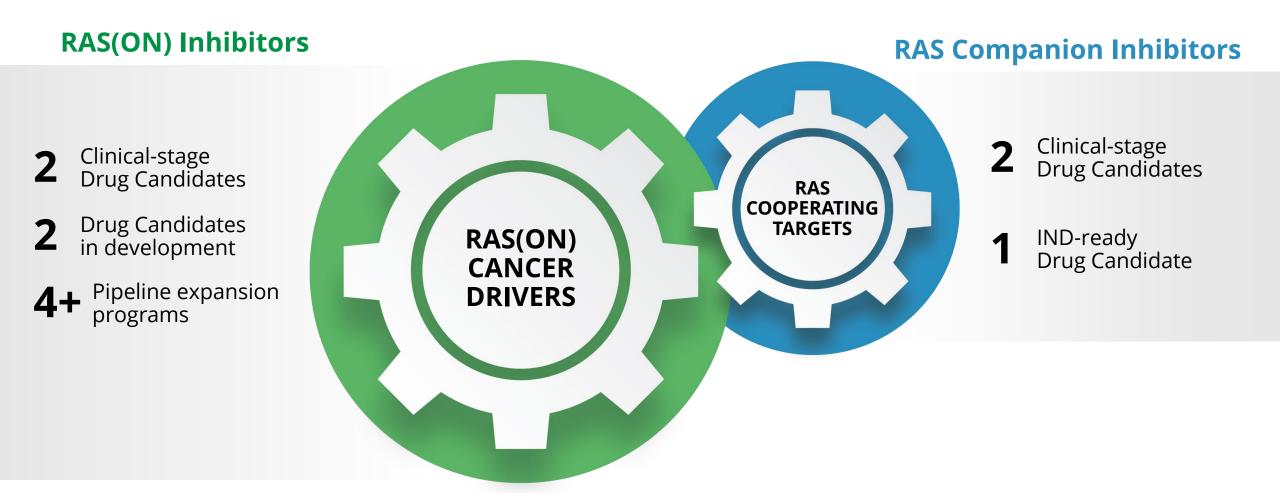
Leading *RAS Companion Inhibitors* in clinic designed for combination treatment strategies to counter resistance to RAS targeted therapies



(1) 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

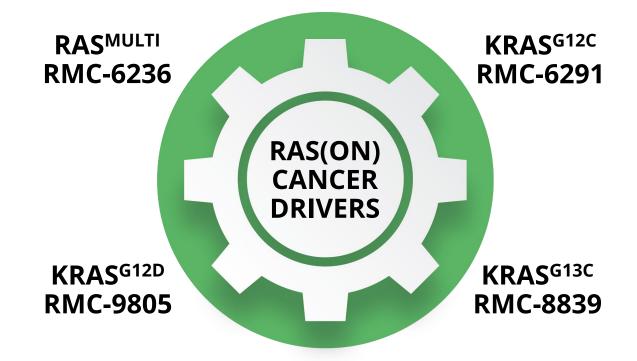
### Deep Science-Driven Pipeline of Targeted Therapies for RAS-Addicted Cancers





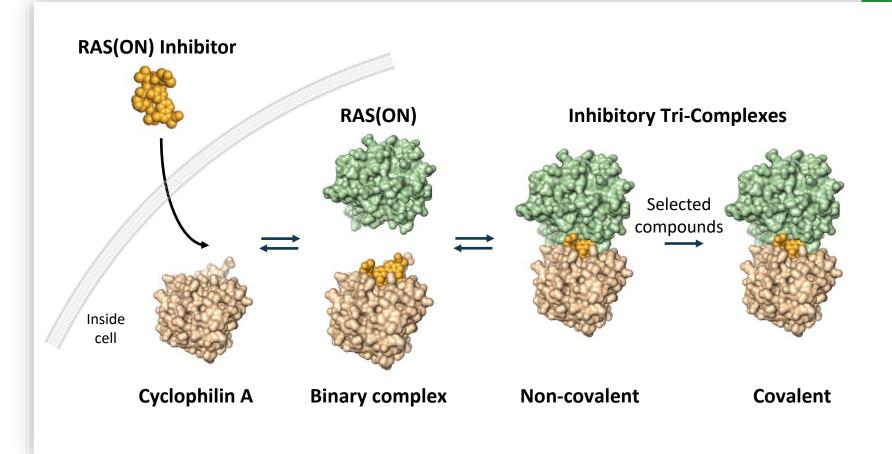
## **RAS(ON)** Inhibitors

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





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

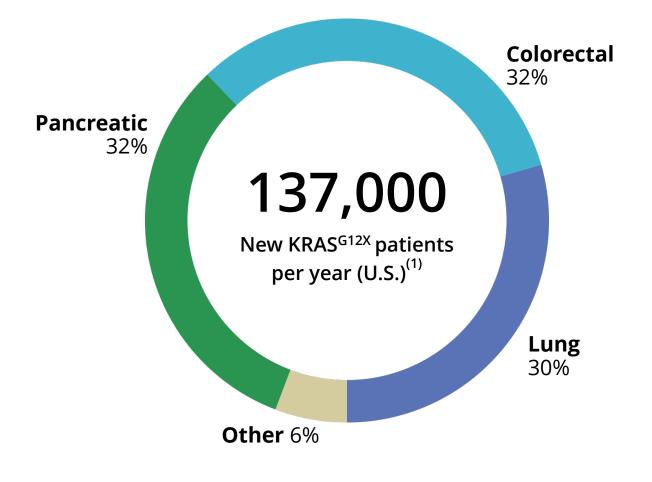


## RAS(ON) Inhibitors Deep and Diverse Collection

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

# **RMC-6236**: First-in-Class RAS<sup>MULTI</sup>(ON) Inhibitor with Broad Potential Against RAS-Addicted Cancers





KRAS<sup>G12X</sup> includes KRAS<sup>G12D</sup>, KRAS<sup>G12V</sup>, KRAS<sup>G12R</sup> and KRAS<sup>G12C</sup>

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#### **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**

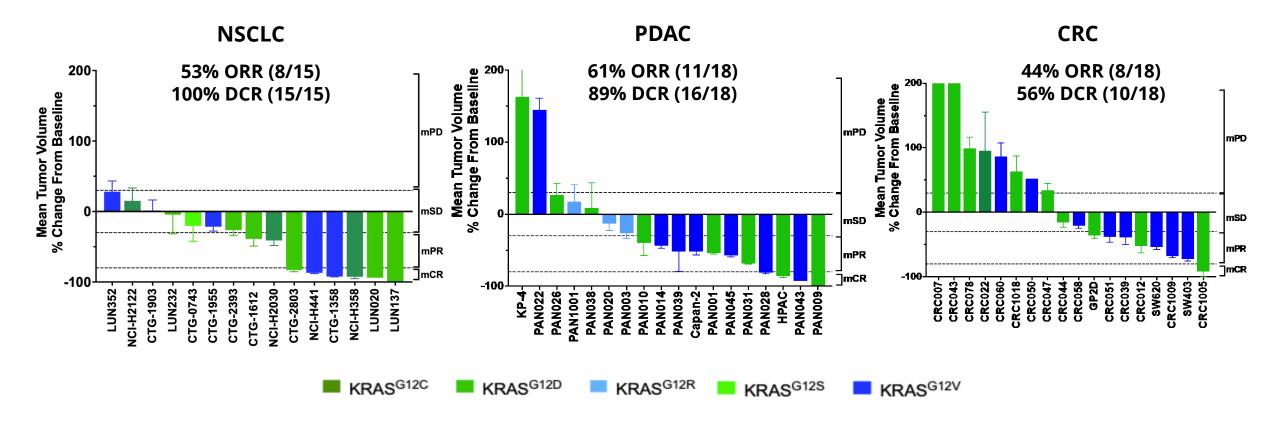
 Deep and sustained inhibition drives durable anti-tumor activity in tumors with common RAS variants including KRAS<sup>G12D</sup>, KRAS<sup>G12V</sup>, KRAS<sup>G12R</sup> and KRAS<sup>G12C</sup>

#### **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<sup>G12X</sup> Drivers



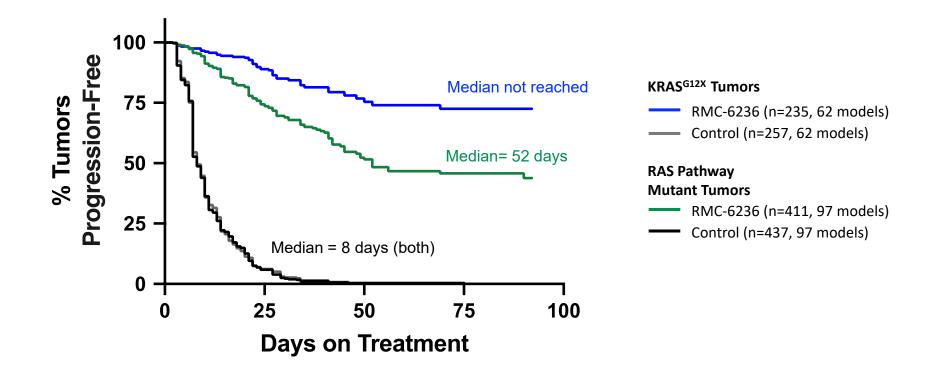


#### **Deep Tumor Regressions and Complete Responses Observed Across Cancer Models**

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

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



#### Durable Anti-Tumor Benefit Observed in KRAS<sup>G12X</sup> Cancer Models and Beyond

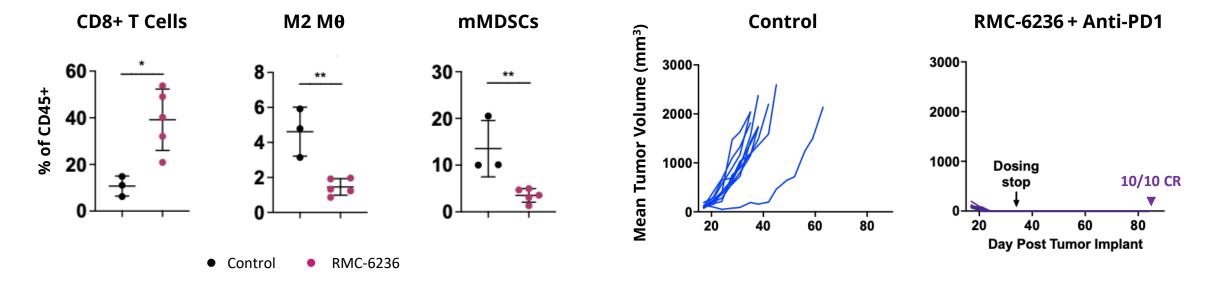
RVMD preclinical research, as of 03/11/22 RMC-6236 dosed at 25 mg/kg po qd Progression defined as tumor doubling from baseline over 28 days p<0.0001 by Log-rank test (control vs RMC-6236 treatment) See appendix for composition of KRAS<sup>G12X</sup> Tumors and RAS Pathway Mutant Tumors

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



#### Favorable Transformation of Tumor Immune Microenvironment

#### Durable Complete Responses with Checkpoint Inhibitor Combination



#### 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<sup>G12C</sup>

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

### RMC-6236: Clinical Priorities to Pursue First-in-Class Activity Against KRAS<sup>G12X</sup> Tumors



• Initiated single agent dose escalation in patients with cancers with KRAS<sup>G12X</sup> 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<sup>G12X</sup> tumors (NSCLC, pancreatic cancer and CRC)
- Combinations in KRAS<sup>G12X</sup> tumors (NSCLC, pancreatic cancer and CRC)



Aims

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**Evidence of first-in-class single agent activity** against KRAS<sup>G12X</sup> tumors<sup>^</sup>

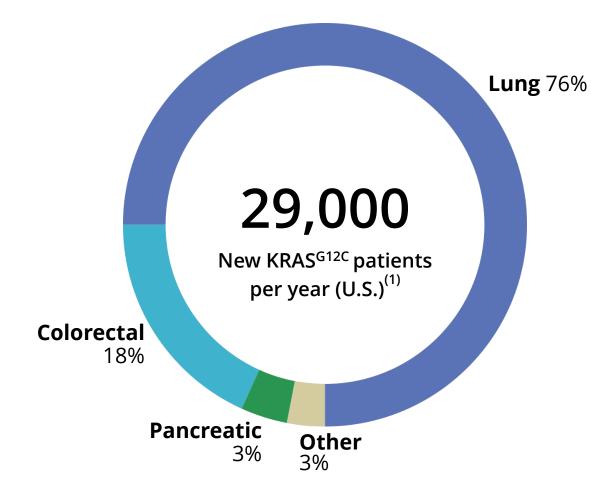
^See Anticipated Milestones table

KRAS<sup>G12x</sup> may include KRAS<sup>G12D</sup>, KRAS<sup>G12V</sup>, KRAS<sup>G12R</sup> and/or KRAS<sup>G12C</sup> 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<sup>G12C</sup> Cancers



#### Highly Potent and Selective RAS(ON) Inhibitor

- Highly active against KRAS<sup>G12C</sup>
- Covalent for irreversible inhibition
- Low off-target risk and acceptable safety profile

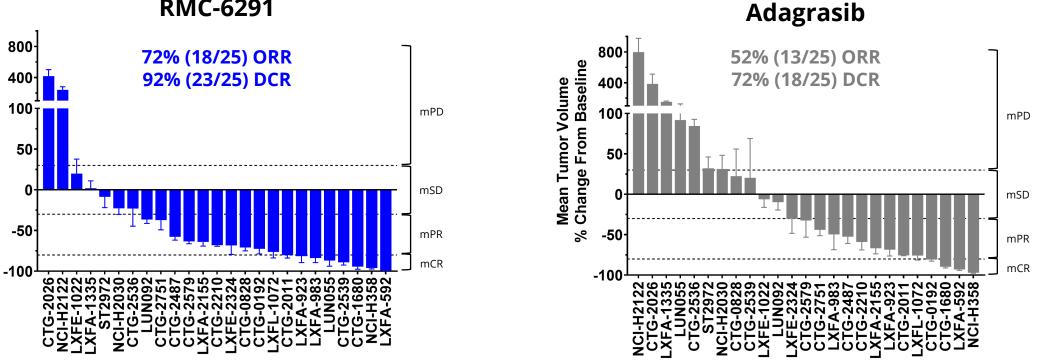
#### **Robust Anti-tumor Activity in Cancer Models**

 Rapid, deep and sustained inhibition drives durable anti-tumor effects across multiple KRAS<sup>G12C</sup> 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<sup>G12C</sup>-addicted cancer cells

## RMC-6291: Superior Outcomes in Mouse Clinical Trial with KRAS<sup>G12C</sup> NSCLC Models



#### **RMC-6291**

#### Best-in-Class Potential in KRAS<sup>G12C</sup> 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)

Mean Tumor Volume Change From Baseline

%

14

### RMC-6291 May Improve on KRAS<sup>G12C</sup>(OFF) Inhibitor Class Across Three Outcome Measures in NSCLC

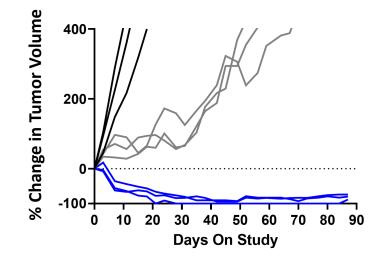
Control

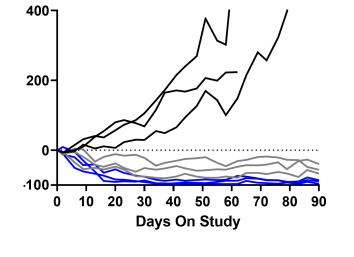


Increased <u>Rate</u> Of Response<sup>(a)</sup>

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

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





200-200--100-0 10 20 30 40 50 60 70 80 90 Days On Study

400

RMC-6291

— Adagrasib

#### **Best-in-Class Potential in KRAS<sup>G12C</sup> 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<sup>612</sup>(QN) and Potential Application to Overcoming Drug Resistance in RAS-Addicted Tumors. RAS-Targeted Drug Development Summit. Sept. 22, 2021.

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



Ω

20

60

40

80

**Day Post Tumor Implant** 

100 120

80 100 120

20

40

60

**Day Post Tumor Implant** 

#### **Favorable Transformation of Durable Complete Responses Tumor Immune Microenvironment** with Checkpoint Inhibitor Combination Control Anti-PD1 ↓ Cancer Cell ↑ MHCII in Vehicle Tumor Volume (mm<sup>3</sup> ) 2000 2000 **Proliferation Cancer Cells** RMC-6291 Ki67+ % Tumor cells ,1 50 MHC II+ `` Cells 40 1000 1000 30 Tumor 20 0 % 60 80 100 120 20 20 40 40 60 80 100 120 ↓ gMDSC ↑ CD8+ T Cells **RMC-6291 RMC-6291 + Anti-PD1** . 2000-Manue (mm<sup>3</sup>) Volume (mm<sup>3</sup>) Ly6G+ % of CD45+ 30 CD8+ % of CD45+ 40 2000 30-20 20 10 1000-0 Tumor ſ Dosing Dosing 10/10 CR stop stop

RVMD preclinical research

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Syngeneic tumor model with CT26 cell line engineered to express KRAS<sup>G12C</sup>

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<sup>G12C</sup> Tumors



• Initiate single agent dose escalation in KRAS<sup>G12C</sup> tumors<sup>^</sup>

- 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<sup>G12C</sup> NSCLC and pancreatic cancer (RAS inhibitor naïve +/- failure)
- Combinations in KRAS<sup>G12C</sup> NSCLC & CRC



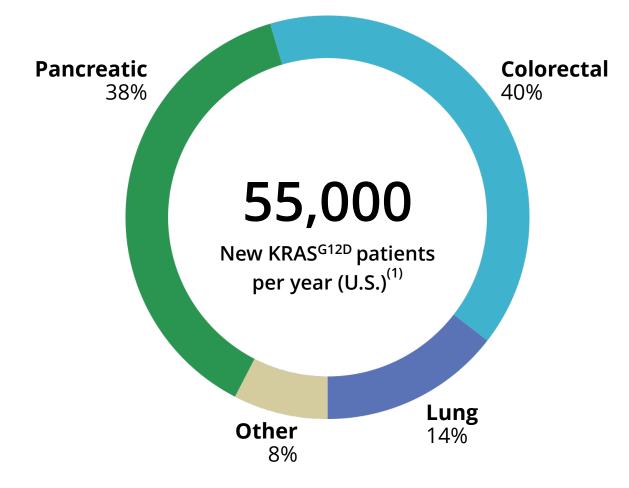
Aims

**Preliminary evidence of superior activity** against KRAS<sup>G12C</sup> tumors<sup>^</sup>

^See Anticipated Milestones table

## **RMC-9805**: First-in-Class Mutant-Selective RAS(ON) Inhibitor for KRAS<sup>G12D</sup> Cancers





#### Highly Potent and Selective RAS(ON) Inhibitor

- Highly active against KRAS<sup>G12D</sup>
- 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<sup>G12D</sup> lung, pancreatic and colorectal cancers

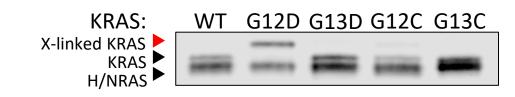
#### **Attractive PK/ADME Profile**

• Favorable *in vivo* oral bioavailability and clearance for effective target coverage in KRAS<sup>G12D</sup>-addicted cancer cells

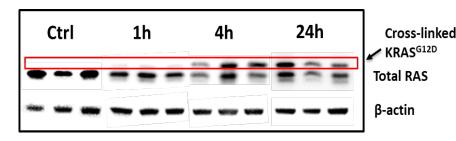
18

RMC-9805: Selective, Covalent and Orally Active with Sustained Inhibition of KRAS<sup>G12D</sup> in Vivo

**Selective Covalent** Modification of KRAS<sup>G12D</sup>



#### KRAS<sup>G12D</sup> Target Engagement HPAC CDX (PDAC, KRAS<sup>G12D/WT</sup>)



#### Single Dose PK/PD HPAC CDX (PDAC, KRAS<sup>G12D/WT</sup>) PD: Tumor DUSP6 (%) — PK: Unbound plasma conc. (nM) 100-%Tumor DUSP6 mRNA Concentration (nM) relative to control **Unbound Plasma** 50-

2

Time point (h)

No PD data at 0.5 hr

0.5

-0.1

0.01

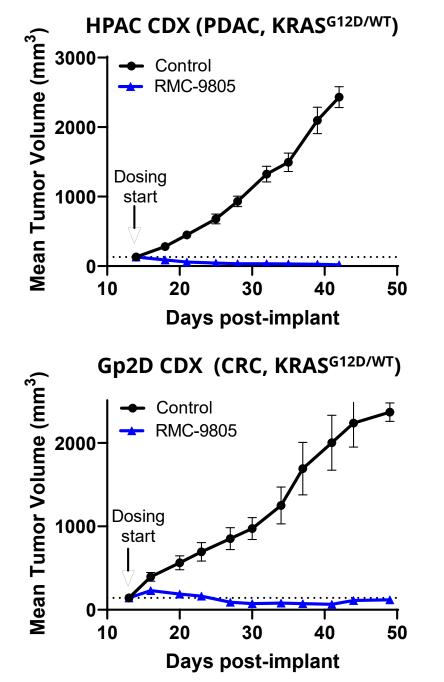
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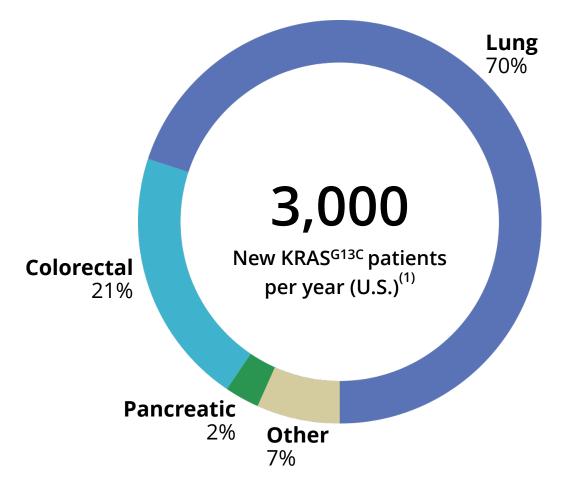
### RMC-9805: Tumor Regressions in Models of KRAS<sup>G12D</sup> Cancers

- Designed as first-in-class mutant-selective covalent inhibitor of KRAS<sup>G12D</sup>
- Deep and durable anti-tumor responses *in vivo* in pancreatic and colorectal cancer models
- Oral dosing, well tolerated



## **RMC-8839**: First-in-Class Mutant-Selective RAS(ON) Inhibitor for KRAS<sup>G13C</sup> Cancers





#### Highly Potent and Selective RAS(ON) Inhibitor

- Highly active against KRAS<sup>G13C</sup>
- 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<sup>G13C</sup> lung cancers

#### **Attractive PK/ADME Profile**

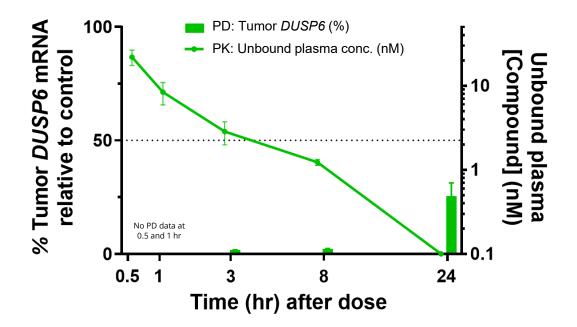
• Favorable *in vivo* oral bioavailability and clearance for effective target coverage in KRAS<sup>G13C</sup>-addicted cancer cells

RMC-8839: Selective, Covalent and Orally Active with Sustained Inhibition of KRAS<sup>G13C</sup> in Vivo

#### Selective Covalent Modification of KRAS<sup>G13C</sup>

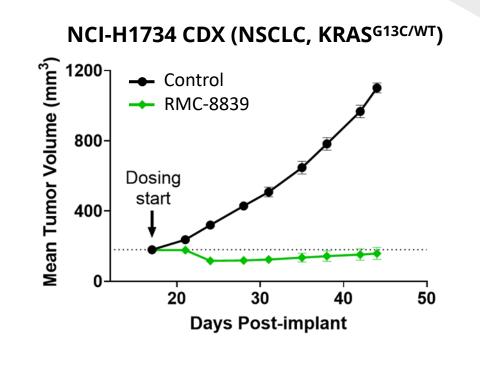
KRAS:	WT	G12C	G13C	
X-linked KRAS KRAS H/NRAS	=			

#### Single Dose PK/PD NCI-H1734 (NSCLC CDX, KRAS<sup>G13C</sup>)

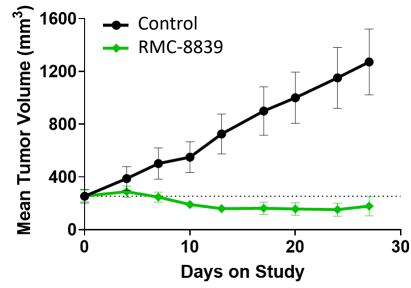


### RMC-8839: Tumor Regressions in Models of KRAS<sup>G13C</sup> Cancers

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



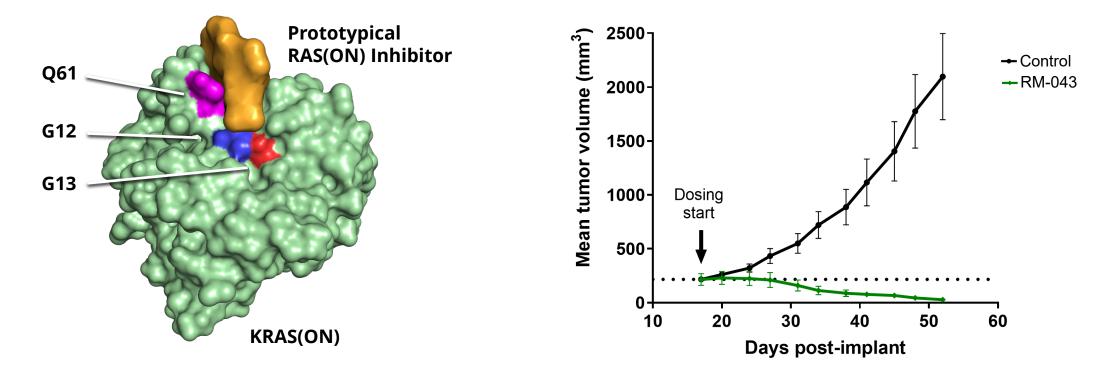




RVMD preclinical research RMC-8839 dosed at 100 mg/kg po qd; n = 5/group; NSCLC = Non-small cell lung cancer Pipeline Expansion Programs Include Oral, Potent, Selective, Non-Covalent Inhibitors of KRAS<sup>Q61H</sup>(ON)

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







Devastating disease >90% driven by KRAS mutations

## 49,000

New KRAS<sup>MUTANT</sup> pancreatic cancer patients per year (US)<sup>(1)</sup>

Dismal survival rates No approved targeted therapies

<b>G12D</b> 36%	RMC-6236 RMC-9805
<b>G12V</b> 26%	RMC-6236
G12R 13% G12C 2% Other	RMC-6236 RMC-6291 RMC-6236 RMC-6236
23%	

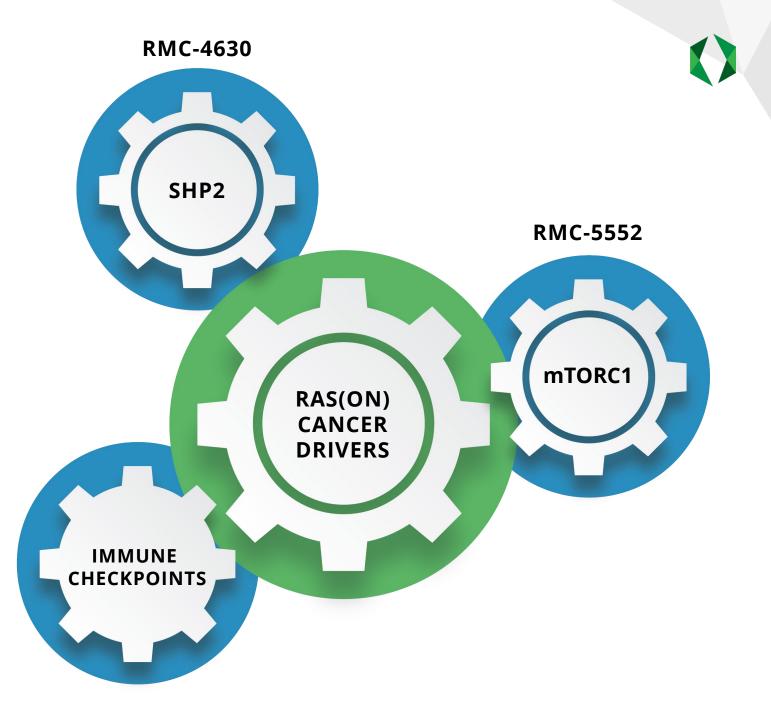
Our development-stage RAS(ON) Inhibitors

- Inhibit >90% of pancreatic cancer drivers in cancer models<sup>(1)</sup>
- 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 <sup>G12C</sup> solid tumors	Ongoing (Phase 1b)
RMC-4630-03 (Global)	RevMed	sotorasib	2L+ KRAS <sup>G12C</sup> NSCLC	Ongoing (Phase 2)
TCD16210 (Global)	Sanofi	adagrasib	2L+ KRAS <sup>G12C</sup> NSCLC	In preparation (Phase 1/2)
TBD	RevMed	RMC-6291	KRAS <sup>G12C</sup> TBD	Planning
TCD16210 (Global)	Sanofi	pembrolizumab	1L PDL1 <sup>+</sup> NSCLC	Ongoing (Phase 2)

# Evaluation of RMC-4630 in Combination with Sotorasib in KRAS<sup>G12C</sup> Cancer Patients



"Promising clinical activity was observed"<sup>(1)</sup> in **CodeBreaK101c** 



KRAS<sup>G12C</sup> patients in dose/schedule exploration (all solid tumors, 100-200 mg twice weekly)<sup>(2)</sup>



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

75%/ ORR/DCR among KRAS<sup>G12C</sup> 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<sup>G12C</sup> 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<sup>G12C</sup> +/- co-mutations such as KEAP1 or STK11

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

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

<sup>(1)</sup> 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<sup>G12C</sup> Tumors



Continue enrollment in RMC-4630-03\*

- Registration study in combination with KRAS<sup>G12C</sup>(OFF) inhibitor in KRAS<sup>G12C</sup> NSCLC
- Combination study(ies) with KRAS<sup>G12C</sup>(OFF) inhibitor in KRAS<sup>G12C</sup> CRC and/or pancreatic cancer
- Combination study(ies) with RMC-6291



**Evidence of clinical benefit** as RAS Companion Inhibitor against KRAS<sup>G12C</sup> NSCLC **Evidence of clinical benefit** as a RAS Companion Inhibitor against additional KRAS<sup>G12C</sup> tumors

Aims

sonofi RMC-4630/SAR442720 under 2018 partnership

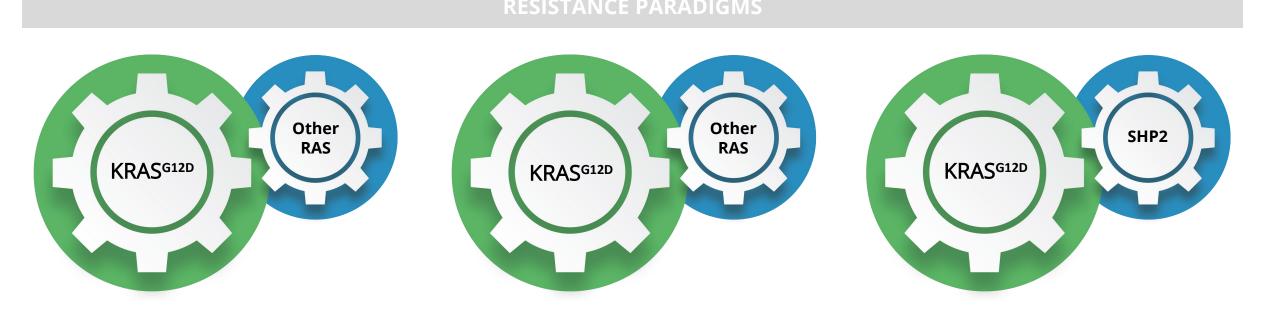
(ongoing\* or projected)

Activities

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

### Parallel Treatment Strategies to Outsmart Diverse RAS Inhibitor Resistance Mechanisms

EXAMPLES



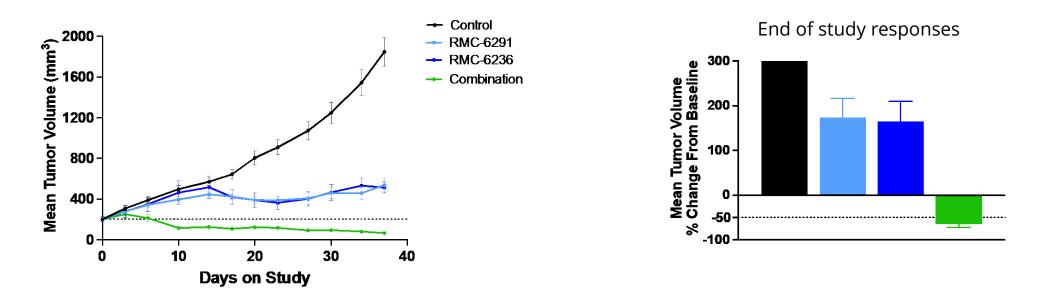
#### **FREATMENT STRATEGIES**

RMC-6236

RMC-9805 + RMC-6236 MAXIMAL DOSING FLEXIBILITY RMC-9805 + RMC-4630 MAXIMAL DOSING FLEXIBILITY

### RMC-6291 + RMC-6236 Combination Induces Tumor Regressions in a Relatively Resistant Model of KRAS<sup>G12C</sup> CRC

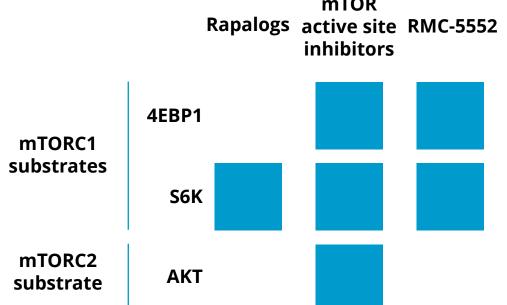
CRC022 PDX (CRC, KRAS<sup>G12C/WT</sup>)



### RAS<sup>MULTI</sup>(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 • 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<sup>(1)</sup>
  - >30,000 new patients per year across lung, colorectal and pancreatic cancers (U.S.)<sup>(2)</sup>
- Single agent Phase 1b dose escalation underway, focused on tumor genotypes linked to hyperactivated mTORC1 signaling

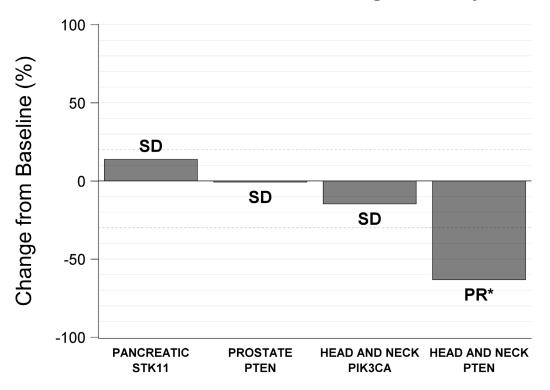
 mTOR pathway co-mutations include genetic changes with likely oncogenic activity in one or more of PIK3CA, PTEN, TSC1, TSC2, STK11, and/or mTOR
(2) Calculated using tumor mutation frequencies from Foundation Medicine Insights August

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 6 mg IV Weekly<sup>(3)</sup>



(3) Preliminary assessments suggest mucositis as the major dose-limiting toxicity. 6 mg weekly was well tolerated. Further enrollment at doses above 6 mg is ongoing to define the RP2DS; \*Patient received one dose of 12 mg, followed by weekly doses of 6 mg. Data as of 01/07/2022.

## RMC-5552: Clinical Priorities to Pursue Best-in-Class Combination Activity in RAS<sup>MUTANT</sup>/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<sup>MUTANT</sup> tumors with mTOR pathway co-mutations



Aims

Additional evidence of single agent activity against tumors with mTOR pathway mutations<sup>^</sup>

^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	IBITORS					
RMC-6236	RAS <sup>MULTI</sup>					
RMC-6291	KRAS <sup>G12C</sup>					
RMC-9805	KRAS <sup>G12D</sup>					
RMC-8839	KRAS <sup>G13C</sup>					
Pipeline Expansion	G12R, G12V, G13D, Q61X, other					
RAS COMPAN	NON INHIBITORS					
RMC-4630	SHP2				sanofi	
RMC-5552	mTORC1/4EBP1					
RMC-5845 <sup>(1)</sup>	SOS1					
(1) IND-ready						

## Anticipated Milestones



PROGRAM	MILESTONE (EXPECTED TIMING)	
RAS(ON) INHIBITORS		
RMC-6236 (RAS <sup>MULTI</sup> )	Provide evidence of first-in-class single agent activity (2023)	
RMC-6291 (KRAS <sup>G12C</sup> )	Announce dosing of first patient (2H22); Provide preliminary evidence of superior activity (2023)	
RMC-9805 (KRAS <sup>G12D</sup> )	Announce dosing of first patient (mid-2023)	
RMC-8839 (KRAS <sup>G13C</sup> )	Announce dosing of first patient (late 2023 or early 2024)	
Additional RAS <sup>MUTANT</sup> -Selective Inhibitor	Nominate development candidate (2H22)	
RAS COMPANION INHIBITORS		
RMC-4630 (SHP2)	Provide topline data from RMC-4630-03 (2023)	
RMC-5552 (mTORC1/4EBP1)	Provide additional evidence of single agent activity (2023)	





## On Target to Outsmart Cancer<sup>™</sup>

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<sup>G12X</sup> includes KRAS<sup>G12D</sup>, KRAS<sup>G12V</sup>, KRAS<sup>G12R</sup> and KRAS<sup>G12C</sup>
- 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<sup>G12X</sup> Tumors, where X = D,V,C, A or R: n = 207
  - RAS Pathway Mutant Tumors includes KRAS<sup>G12X</sup> and other RAS and RAS pathway mutant tumors: KRAS<sup>G13C</sup>, KRAS<sup>G13D</sup>, KRAS<sup>K117N</sup>, KRAS<sup>Q61H</sup>, NF1<sup>LOF</sup>, PTPN11<sup>E76K or G503V</sup>, BRAF<sup>Class 3-mutant</sup>, and KRAS<sup>WT-Amp</sup>: n = 332
- PDX = patient-derived xenograft; CDX = cell line-derived xenograft
- PK = pharmacokinetic; ADME = absorption, distribution, metabolism, and excretion