

RMC-9805, a First-in-Class, Mutant-Selective, Covalent and Orally Bioavailable KRAS^{G12D}(ON) Inhibitor, Promotes Cancer-Associated Neoantigen Recognition and Synergizes with Immunotherapy in Preclinical Models

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Disclosure Information

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Marie Menard

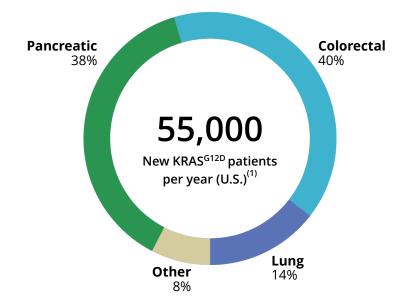
I have the following relevant financial relationships to disclose:

Employee of: Revolution Medicines Stockholder in: Revolution Medicines

RMC-9805 is a Mutant-Selective, Covalent, Tri-Complex Inhibitor Targeting KRAS^{G12D}(ON)



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Highly Potent and Selective RAS(ON) Inhibitor

- Highly active against KRAS^{G12D}
- Covalent for irreversible inhibition

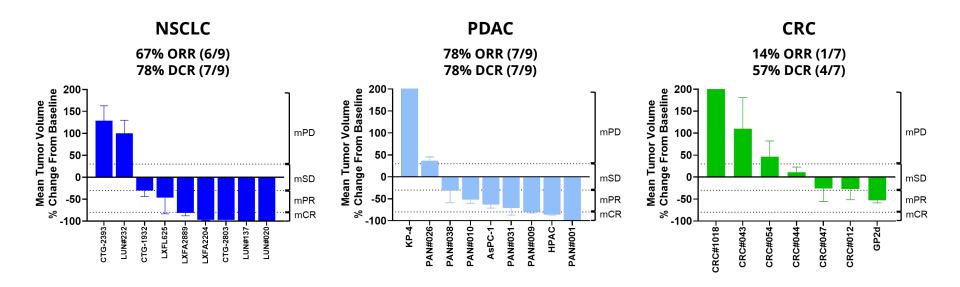
Attractive PK/ADME Profile

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

RMC-9805 Shows Robust Anti-Tumor Activity *in Vivo* Across Diverse KRAS^{G12D} Xenograft Models



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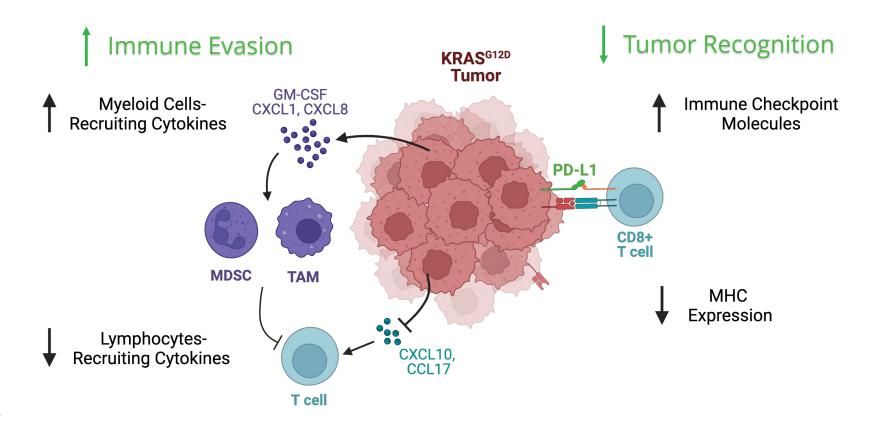


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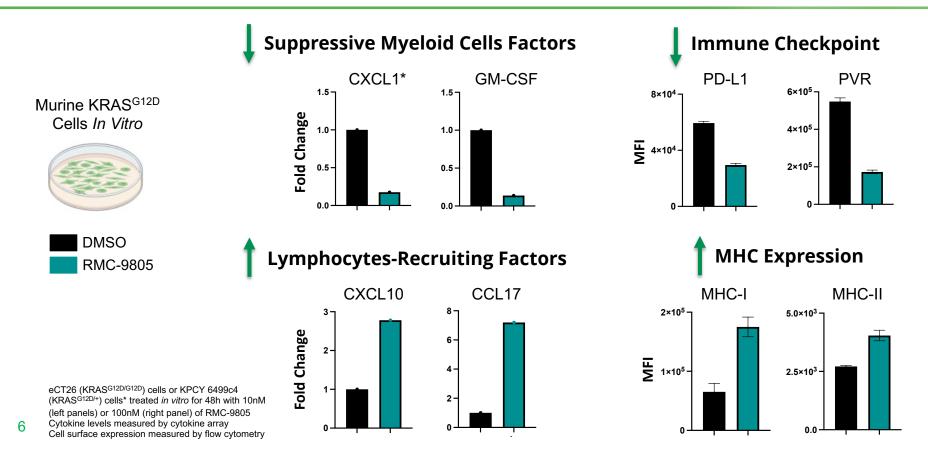
Oncogenic RAS Signaling is a Major Driver of Immune Escape in the Tumor





RMC-9805 Reverts Immune Evasive Mechanisms and Sensitizes KRAS^{G12D} Cancer Cells to Immune Attack

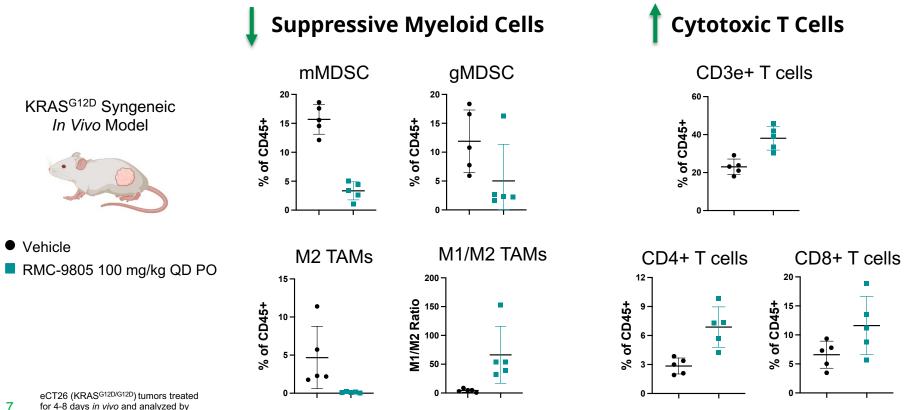




KRAS^{G12D}(ON) Inhibition in Cancer Cells Transforms the TME in Favor of Anti-Tumor Immunity



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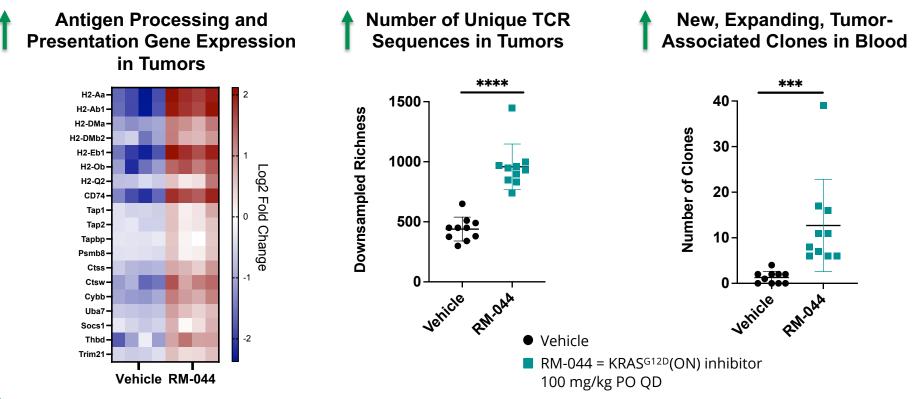


flow cytometry 24h after last dose

KRAS^{G12D}(ON) Inhibition Increases Antigen Presentation and TCR Repertoire Diversity *in Vivo*



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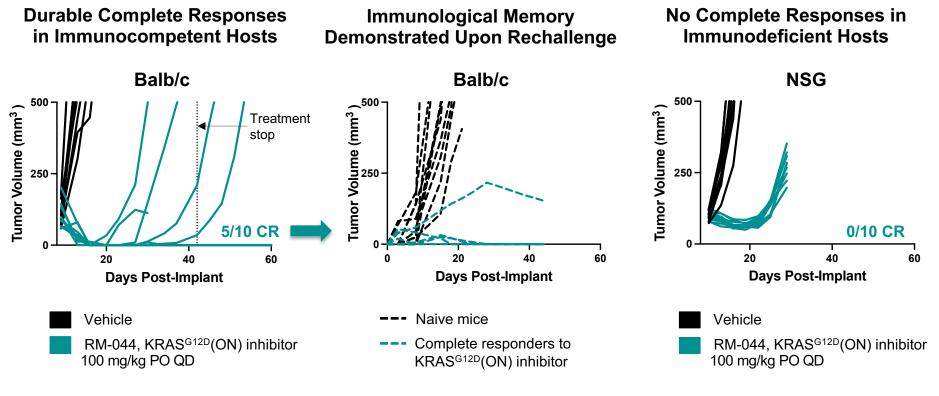
8 eCT26 (KRAS^{G12D/G12D}) tumors treated for 4 days with vehicle or RM-044 at 100 mg/kg QD PO - Nanostring IO 360 murine panel on tumors

eCT26 (KRAS^{G12D/G12D}) tumor-bearing mice treated for 8 days tumors and blood analyzed by TCR sequencing ***p<0.001; **** p<0.001 post-hoc Dunn test with Bonferroni correction

KRAS^{G12D}(ON) Inhibition Drives Durable Regressions in an Immune Cell-Dependent Manner



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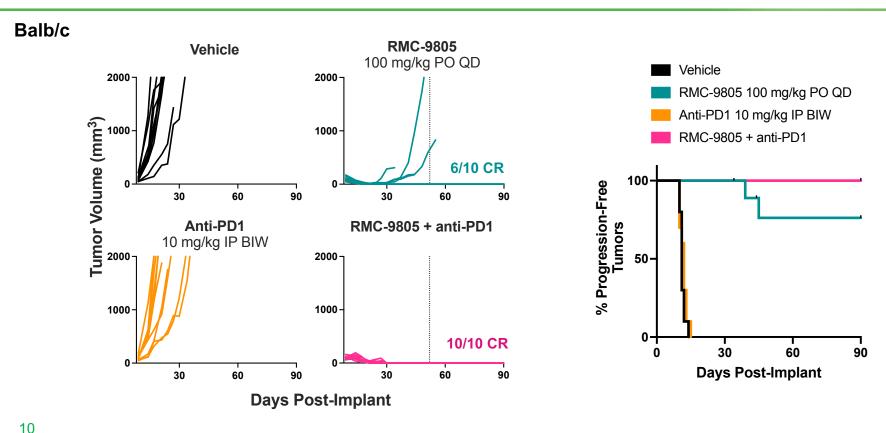
9 eCT26 (KRAS^{G12D/G12D}) tumors treated for 42 days, treatment stop indicated by vertical dashed line

eCT26 (KRAS^{G12D/G12D}) tumors rechallenged 40 days after treatment stopped

eCT26 (KRAS^{G12D/G12D}) tumors treated for 20 days

Combination of RMC-9805 with Anti-PD1 Enhances Durable Complete Responses

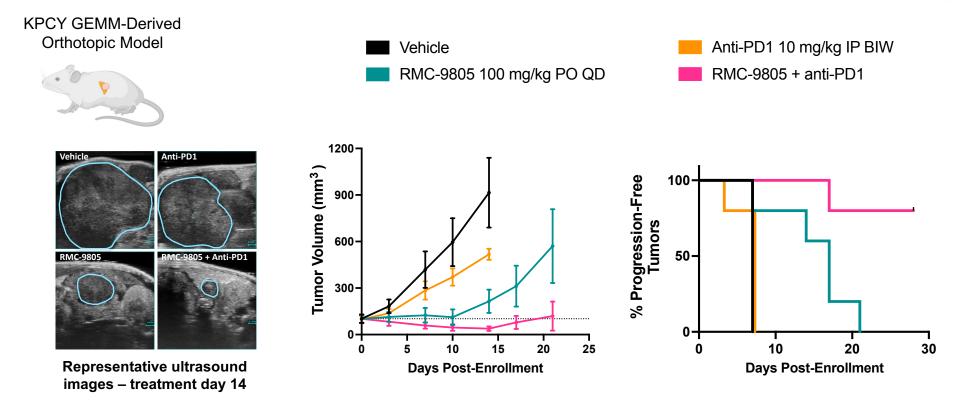




RMC-9805 + Anti-PD1 Shows Significant Combination Benefit in an Orthotopic KRAS^{G12D} PDAC Model



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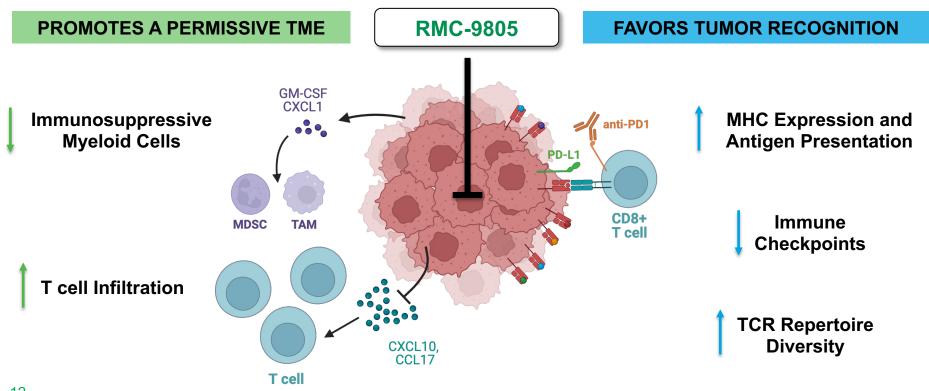


KPCY 2838c3 (KRAS^{G12D/+}; p53^{R172H/+}) tumors treated for 21 days. Kaplan-Meier progression defined as tumor doubling from baseline

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RMC-9805 Creates a Favorable Environment For Combination with Immune-Directed Therapies







Revolution Medicines Research and Development Teams

 We thank Ben Z. Stanger, University of Pennsylvania for providing the KPCY GEMM-derived PDAC models