



# mCRC Program Update and Clinical Development Plan

AUGUST 7, 2023

# Forward-looking statements

## CERTAIN STATEMENTS IN THIS PRESENTATION ARE

**FORWARD-LOOKING** within the meaning of the Private Securities Litigation Reform Act of 1995. These statements may be identified by the use of words such as "anticipate," "believe," "forecast," "estimated" and "intend" or other similar terms or expressions that concern our expectations, strategy, plans or intentions. These forward-looking statements are based on our current expectations and actual results could differ materially. There are a number of factors that could cause actual events to differ materially from those indicated by such forward-looking statements. These factors include, but are not limited to, our need for additional financing; our ability to continue as a going concern; clinical trials involve a lengthy and expensive process with an uncertain outcome, and results of earlier studies and trials may not be predictive of future trial results; our clinical trials may be suspended or discontinued due to unexpected side effects or other safety risks that could preclude approval of our product candidates; our clinical trials may encounter delays in initiation or enrollment that impact the cost and timing of the trial readout; risks related to business interruptions, including the outbreak of COVID-19 coronavirus, which could seriously harm our financial condition and increase our costs and expenses;

uncertainties of government or third-party payer reimbursement; dependence on key personnel; limited experience in marketing and sales; substantial competition; uncertainties of patent protection and litigation; dependence upon third parties; regulatory, and risks related to failure to obtain FDA clearances or approvals and noncompliance with FDA regulations. There are no guarantees that any of our technology or products will be utilized or prove to be commercially successful. Additionally, there are no guarantees that future clinical trials will be completed or successful or that any precision medicine therapeutics will receive regulatory approval for any indication or prove to be commercially successful. Investors should read the risk factors set forth in our Form 10-K for the year ended December 31, 2022, and other periodic reports filed with the Securities and Exchange Commission. While the list of factors presented here is considered representative, no such list should be considered to be a complete statement of all potential risks and uncertainties. Unlisted factors may present significant additional obstacles to the realization of forward-looking statements. Forward-looking statements included herein are made as of the date hereof, and we do not undertake any obligation to update publicly such statements to reflect subsequent events or circumstances.

We are advancing our RAS-mutated mCRC program to the 1<sup>st</sup> line setting

**We expect clinical data from our 1<sup>st</sup> line RAS-mutated mCRC trial in mid-2024**



Clinical findings from  
Ph 1b/2 (n=48)  
Replicated in Ph 1b/2  
Expansion cohort (n=18)



Discovered a new MOA:  
Inhibiting a “survival  
switch” of tumorigenesis  
/ angiogenesis



FDA agreed with  
a 1<sup>st</sup> line clinical  
development path

**PFIZER**

Provides development  
capabilities to support  
1<sup>st</sup> line trial

# mCRC program positions onvansertib for accelerated and full-approval

## mCRC clinical development program agreed with FDA

### CRDF-004

1st line RAS-mutated mCRC trial  
90 patients, randomized, 2 doses of onvansertib

Highlights of CRDF-004 exploratory trial

- Provide randomized clinical safety / efficacy data
- Confirm optimal dose in 1<sup>st</sup> line
- Expect to provide interim data readout in mid-2024

### CRDF-005

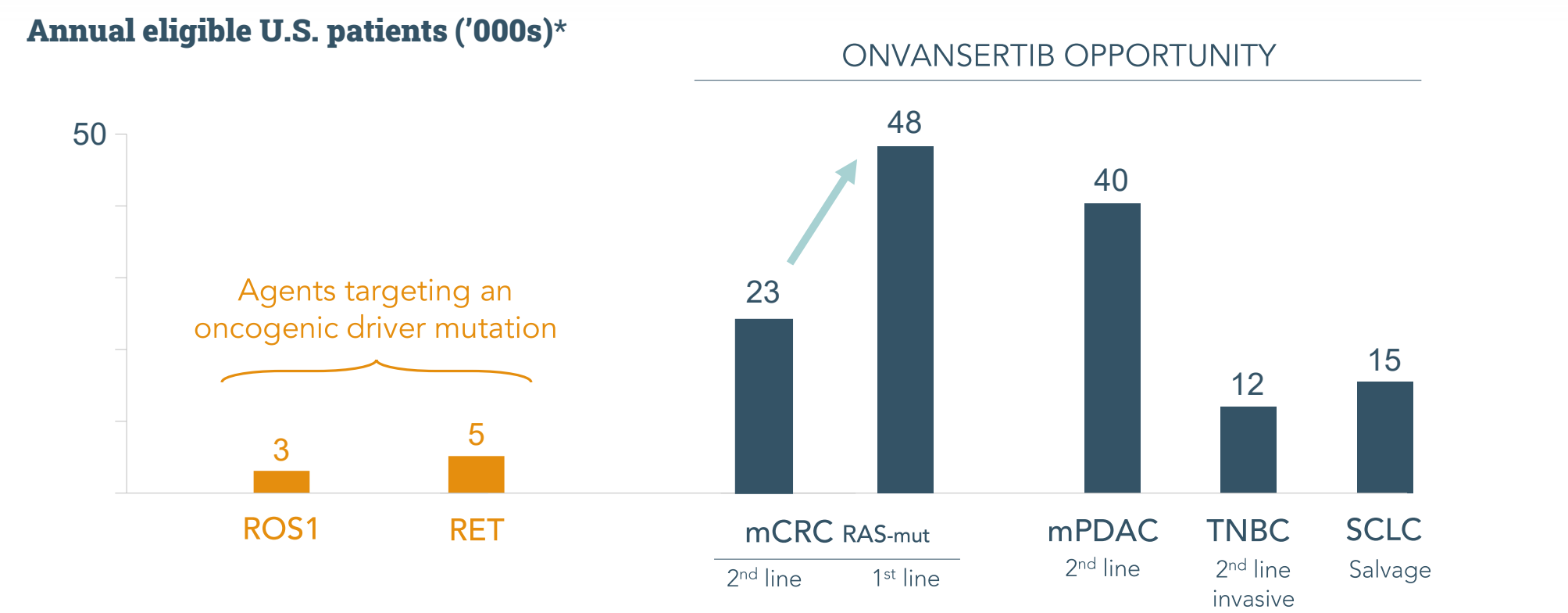
1st line RAS-mutated mCRC registrational trial  
320 patients, randomized

Highlights of CRDF-005 registrational trial

- Seamless registrational trial for accelerated and full approval, as agreed with FDA
- ORR endpoint: For accelerated approval
- PFS / OS trend endpoint: For full approval



# Our move into 1<sup>st</sup> line mCRC significantly increases market opportunity



\* ROS1 estimated eligible patients presented in Turning Point Therapeutics' corporate presentation May 2022 slide 6 (NSCLC disease incidence in the US of 140k of which 2% of patients harbor ROS1 translocation). RET estimated eligible patients presented in Loxo Oncology's corporate presentation January 2018 disclosed on Form 8-K (Jan 8, 2018). mCRC estimated population includes 1<sup>st</sup> or 2<sup>nd</sup> line, KRAS- and NRAS-mutated cancers. mPDAC estimated population includes 2<sup>nd</sup> line PDAC patients. TNBC estimated population includes invasive, 2<sup>nd</sup> line TNBC patients. SCLC estimated population includes SCLC salvage patients.

## Our pipeline opens many attractive opportunities for onvansertib

|                   | Line of Therapy      | Trial           | Ph2                                                                                                      | Ph3 | Combination with:             |
|-------------------|----------------------|-----------------|----------------------------------------------------------------------------------------------------------|-----|-------------------------------|
| mCRC<br>(RAS-mut) | 1 <sup>st</sup> line | Ph 2 (w/Pfizer) | <br><i>randomized</i> |     | FOLFIRI/bev<br>and FOLFOX/bev |
|                   | 2 <sup>nd</sup> line | Ph 1b/2         | <br><i>completed</i>  |     | FOLFIRI/bev                   |
| mPDAC             | 2 <sup>nd</sup> line | Ph 2            |                       |     | Onivyde <sup>®</sup> /5-FU    |

### Investigator-initiated trials

|      |                      |                                                                                                                             |                                                                                       |  |                    |
|------|----------------------|-----------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--|--------------------|
| TNBC | 2 <sup>nd</sup> line | Ph 2  Dana-Farber<br>Cancer Institute    |  |  | Paclitaxel         |
| SCLC | 2 <sup>nd</sup> line | Ph 2  UPMC<br>LIFE CHANGING<br>MEDICINE |  |  | None (monotherapy) |



## Onvansertib clinical development plan in mCRC

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**CLINICAL FINDINGS FROM 2L Ph 1b/2 TRIAL**

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**SCIENTIFIC BASIS FOR CLINICAL FINDINGS**

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**CLINICAL DEVELOPMENT PATH FORWARD**

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Onvansertib clinical development plan in mCRC

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## **CLINICAL FINDINGS FROM 2L Ph 1b/2 TRIAL**

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SCIENTIFIC BASIS FOR CLINICAL FINDINGS

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CLINICAL DEVELOPMENT PATH FORWARD

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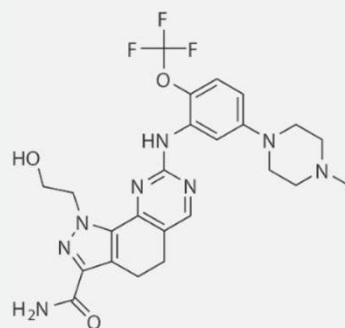
# Onvansertib specifically targets PLK1, a well-established cancer target

## Onvansertib

First oral, well-tolerated  
PLK1-selective inhibitor

### PROPERTIES

- Small molecule
- Oral dosing
- 24-hour half-life



### SPECIFICITY

Exquisitely specific for PLK1

| ENZYME                                              | IC <sub>50</sub> (μM) |
|-----------------------------------------------------|-----------------------|
| <b>PLK1</b>                                         | <b>0.002</b>          |
| PLK2                                                | >10                   |
| PLK3                                                | >10                   |
| CK2                                                 | 0.4                   |
| FLT3                                                | 0.4                   |
| CDK1/CycB                                           | >10                   |
| 42 other kinases<br>and >140 in the Millipore panel | >10                   |

# Our focus is RAS-mutated tumors where there are no targeted therapies

## Normal

Standard\*

Targeted

## 1<sup>st</sup> LINE

Chemo + bevacizumab

+ EGFR inhibitor

## 2<sup>nd</sup> LINE

Chemo + bevacizumab

NONE

RAS-mut mCRC is approx.  
half the mCRC population<sup>1</sup>

## RAS Mutated

Standard\*

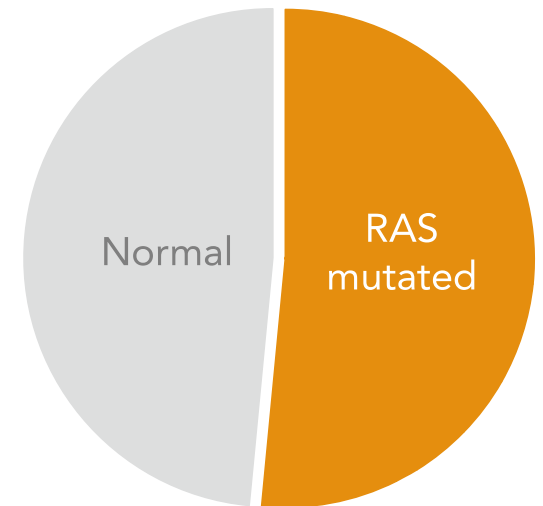
**Targeted**

Chemo + bevacizumab

**NONE**

Chemo + bevacizumab

**NONE**



\* FOLFOX and FOLFIRI are interchangeable as SoC chemo for 1<sup>st</sup> and 2<sup>nd</sup> line.  
1. Jones R et al. Br J Cancer. 2017 Mar 28;116(7):923-929

## Our Ph1b/2 trial added onvansertib to SoC in the 2<sup>nd</sup> line setting

### Normal

Standard

Targeted

### 1<sup>st</sup> LINE

Chemo + bevacizumab

+ EGFR inhibitor

### 2<sup>nd</sup> LINE

Chemo + bevacizumab

NONE

### RAS Mutated

Standard

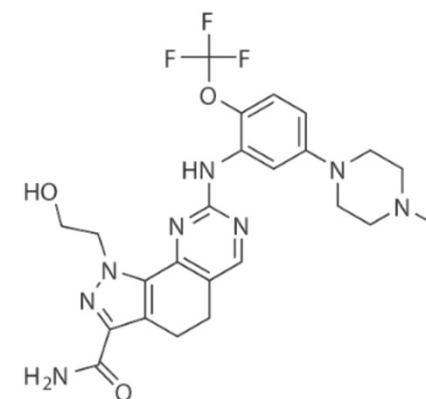
Targeted

FOLFOX + bevacizumab

NONE

FOLFIRI + bevacizumab

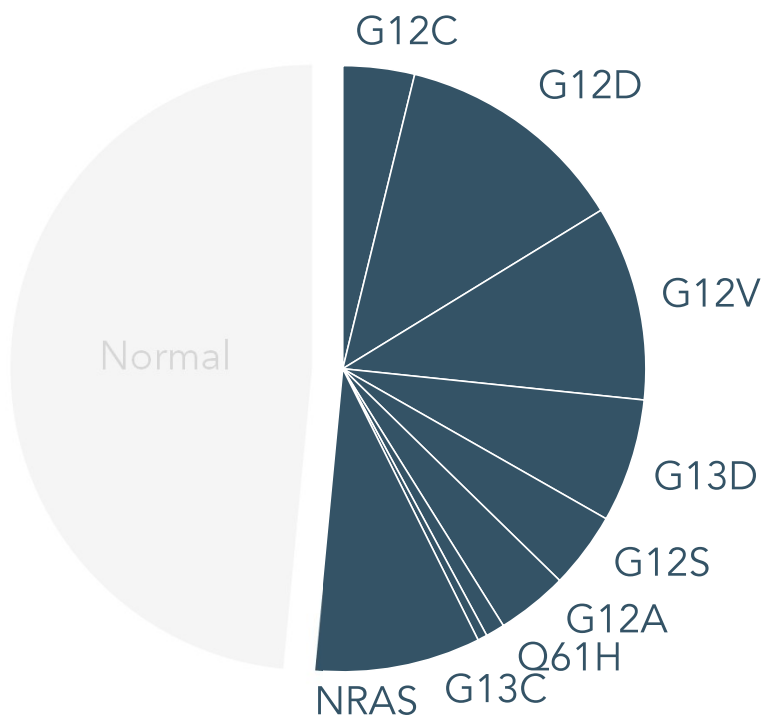
ONVANSERTIB



◀ Our trial explored adding onvansertib to FOLFIRI + bev (SoC)

# Two separate onvansertib MOAs underlie our focus on RAS-mut mCRC

## RAS-mutations in mCRC<sup>1</sup>



## MOA

In RAS-mutated mCRC, onvansertib has two mechanisms of action

**1** Synthetic lethality in RAS mutants

**2** Synergy with 2L SoC chemotherapy

1. Jones R et al. Br J Cancer. 2017 Mar 28;116(7):923-929



# Our Ph1b/2 trial combined onvansertib with the current SoC in 2<sup>nd</sup> line

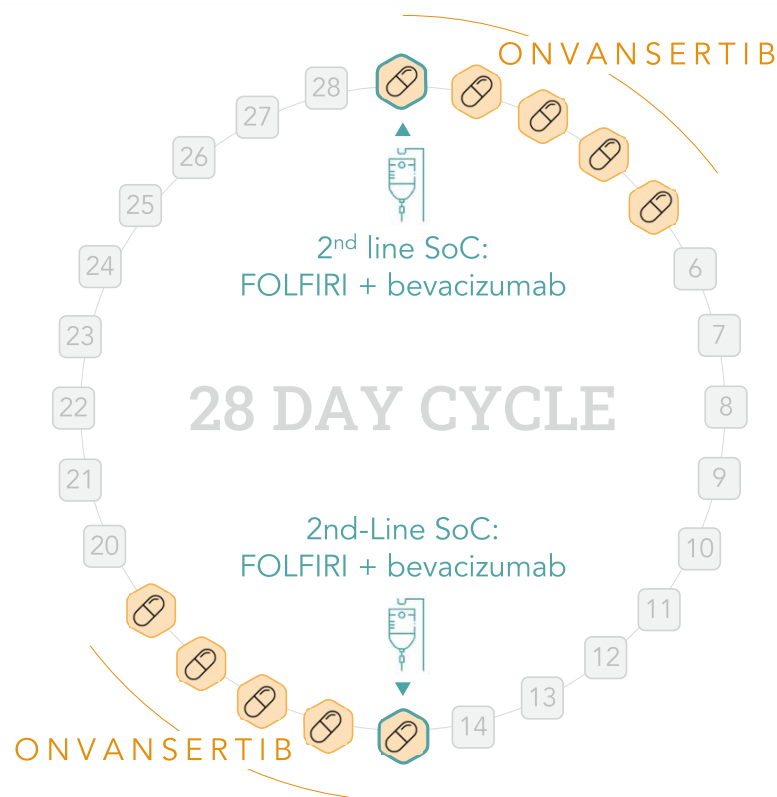
## ENROLLMENT CRITERIA

2<sup>nd</sup> line mCRC

KRAS-mut

Unresectable

N=68 (66 evaluable)



## EFFICACY ENDPOINTS

- 1** Primary: Objective Response Rate (ORR) per RECIST v1.1 in patients who receive  $\geq 1$  cycle of treatment
- 2** Secondary: Progression-Free Survival (PFS) and Duration of Response (DoR)
- 3** Exploratory: decrease in KRAS-mutational burden and response to treatment

There were two cohorts of patients enrolled in our Ph1b/2 trial

We enrolled 50 initial patients, and then an additional 18 patients, in our trial

|                           | PHASE 1b                   | PHASE 2 |                  | TOTAL |
|---------------------------|----------------------------|---------|------------------|-------|
|                           | 12 mg/m <sup>2</sup> _____ | RP2D    | Expansion cohort |       |
|                           | 15 mg/m <sup>2</sup> _____ |         |                  |       |
|                           | 18 mg/m <sup>2</sup> _____ |         |                  |       |
| ITT population (N)        | 50                         | 18      |                  | 68    |
| Evaluable population* (N) | 48                         | 18      |                  | 66    |

\* Two patients were deemed not evaluable per protocol and therefore excluded from the efficacy data set. Neither patient completed at least 1 cycle of treatment and both patients ultimately discontinued.

## Our 2<sup>nd</sup> line trial patients may or may not have received bev in 1<sup>st</sup> line

### Bev exposed vs bev naïve patients

"Bev naïve" patients who did not receive prior bev in 1<sup>st</sup> line

or

"Bev exposed" patients who received bev in 1<sup>st</sup> line

### 1<sup>st</sup> LINE

FOLFOX

23% (15 of 66)

FOLFOX +  
**bevacizumab**

77% (51 of 66)

### 2<sup>nd</sup> LINE

FOLFIRI +

**bevacizumab**

+

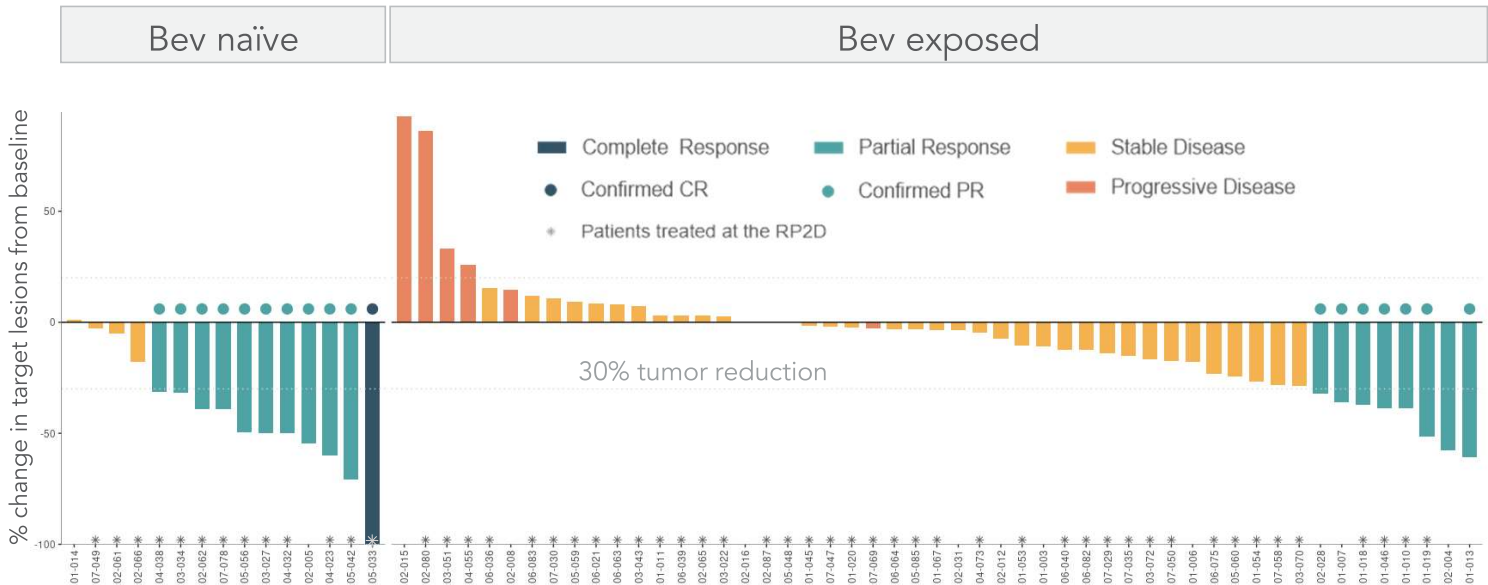
ONVANSERTIB

All patients received  
FOLFIRI + bev + onv  
in our trial

# Bev naïve patients achieved higher response rate with onvansertib+SoC

## Best Radiographic Response and Duration of Response\* – 66 evaluable patients (as of June 16, 2023)

|                       | All patients | Bev naïve | Bev exposed |
|-----------------------|--------------|-----------|-------------|
| N                     | 66           | 15        | 51          |
| ORR                   | 29% (19)     | 73% (11)  | 16% (8)     |
| 95% CI                | (18-41%)     | (45-92%)  | (7-29%)     |
| mDoR                  | 12.0mo       | 13.0mo    | 8.9mo       |
| 95% CI                | (8.9, –)     | (12.0, –) | (3.9, –)    |
| Disease Control Rate  | 91%          | 100%      | 88%         |
| Historical controls** |              |           |             |
| ORR                   |              | 23-26%    | 5-13%       |



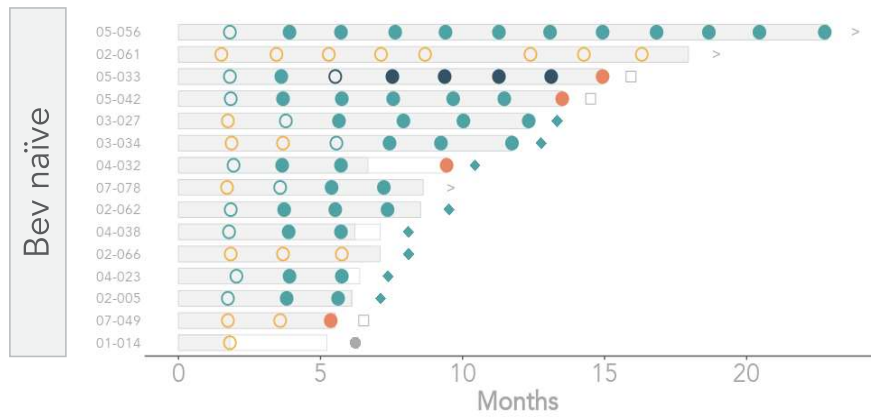
\* Radiographic response determined per RECIST 1.1. Waterfall plot and table reflect interim data as of June 16, 2023 from an ongoing trial and unlocked database. Patients 02-008 and 07-029 were categorized as bev naïve in the July 25, 2022 data, but are now determined to have been bev exposed. mDoR CI: "–" means not reached. After external review of the tumor measurements completed May 12, 2023, it was determined that patients 02-028 and 04-038 were confirmed PRs.

\*\* Bennouna et al., Lancet Oncol 2013; 14: 29–37; Giessen et al., Acta Oncologica, 2015, 54: 187-193; Cremolini et al., Lancet Oncol 2020, 21: 497–507; Antoniotti et al., Correspondence Lancet Oncol June 2020. Giantonio et al., 2007, J Clin Oncol 25:1539-1544; Moriwaki et al., Med Oncol, 2012, 29:2842–2848; Beretta et al, Med Oncol 2013, 30:486.

# Bev naïve patients experienced more durable responses

**Swimmer plot\*** – 66 evaluable patients (as of June 16, 2023)

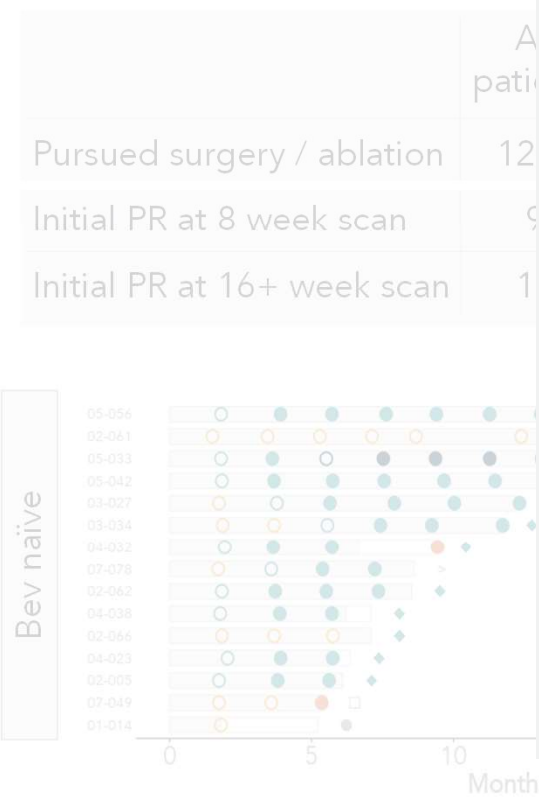
|                             | All patients | Bev naïve  | Bev exposed |
|-----------------------------|--------------|------------|-------------|
| Pursued surgery / ablation  | 18% (12/66)  | 53% (8/15) | 8% (4/51)   |
| Initial PR at 8 week scan   | 9            | 8          | 1           |
| Initial PR at 16+ week scan | 10           | 3          | 7           |



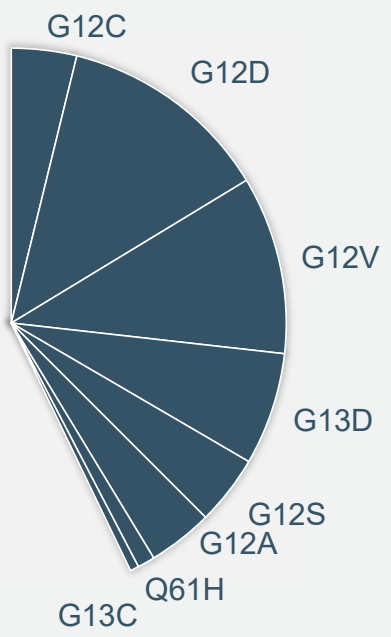
\* Swimmer plot / table reflect interim data as of June 16, 2023 from an ongoing trial and unlocked database. After external review of the tumor measurements completed May 12, 2023, it was determined that patients 02-028 and 04-038 were confirmed PRs.

# Patients on our trial achieved responses across KRAS mutations

Swimmer plot\* – 66 evaluable patients



Frequency of Common KRAS Mutations in mCRC<sup>1</sup>



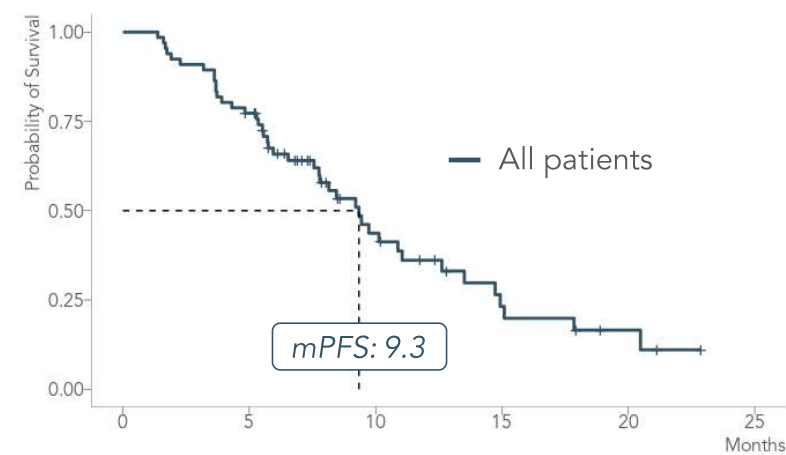
Onvansertib responses across KRAS mutations (as of June 16, 2023)

| KRAS Variant | CR+PR | SD | PD | Total |
|--------------|-------|----|----|-------|
| G12D         | 7     | 13 | 1  | 21    |
| G12V         | 1     | 10 | 2  | 13    |
| G12A         | 4     | 4  |    | 8     |
| G13D         | 4     | 4  |    | 8     |
| G12C         | 1     | 2  | 1  | 4     |
| G12S         |       | 3  | 1  | 4     |
| A146T        | 1     | 2  |    | 3     |
| Q61H         | 1     | 2  |    | 3     |
| K117N        |       | 1  | 1  | 2     |
| Total        | 19    | 41 | 6  | 66    |

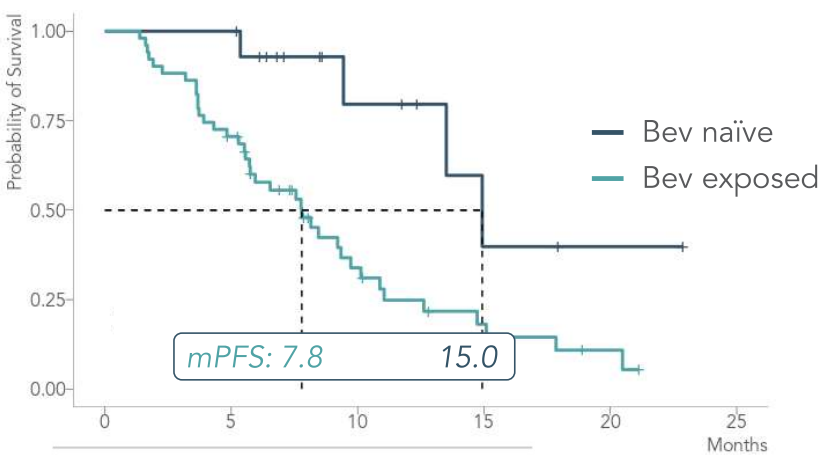
1. Jones R et al. Br J Cancer. 2017 Mar 28;116(7):923-929

# PFS exceeds historical controls for SoC, particularly in bev naïve patients

**Progression free survival\*** – 66 evaluable patients (as of June 16, 2023)



| Characteristic | N  | Event N | mPFS (95%CI)  |
|----------------|----|---------|---------------|
| Overall        | 66 | 42      | 9.3 (7.8, 14) |



| Characteristic             | N  | Event N                     | mPFS (95%CI)  | p-value <sup>†</sup> |
|----------------------------|----|-----------------------------|---------------|----------------------|
| prior_chemo                | 66 | 42                          |               | 0.003                |
| Bev Naïve                  |    |                             | 15 (14, —)    |                      |
| Prior Bev                  |    |                             | 7.8 (5.8, 10) |                      |
| <sup>†</sup> Log-rank test |    | CI of “—” means not reached |               |                      |

| Historical controls** |              |              |
|-----------------------|--------------|--------------|
|                       | Bev exposed  | Bev naïve    |
| PFS                   | 4.5 - 6.7mos | 6.9 - 8.5mos |

\* Onvansertib mPFS are interim data as of June 16, 2023 from an ongoing trial and unlocked database

\*\* Bennouna et al., Lancet Oncol 2013; 14: 29–37; Giessen et al., Acta Oncologica, 2015, 54: 187-193; Cremolini et al., Lancet Oncol 2020, 21: 497–507; Antoniotti et al., Correspondence Lancet Oncol June 2020. Giantonio et al., 2007, J Clin Oncol 25:1539-1544; Moriwaki et al., Med Oncol, 2012, 29:2842–2848; Beretta et al, Med Oncol 2013, 30:486.

## Onvansertib in combination with FOLFIRI-bev is well-tolerated\*

- All treated patients (N=68)

- All dose levels (12mg/m<sup>2</sup>, 15mg/m<sup>2</sup>, 18mg/m<sup>2</sup>)

- No major / unexpected toxicities are seen

- 8 patients had a G4 hematologic AE

- All resolved without issue
  - Required dose holds and/or growth factor support
  - None of the 8 patients discontinued treatment due to this AE

| TEAE               | GR1 | GR2 | GR3 | GR4 | TOTAL  | TEAE                   | GR1 | GR2 | GR3 | GR4 | TOTAL  |
|--------------------|-----|-----|-----|-----|--------|------------------------|-----|-----|-----|-----|--------|
| Fatigue            | 24  | 22  | 7   | 0   | 53 78% | Cough                  | 11  | 0   | 0   | 0   | 11 16% |
| Neutropenia        | 1   | 18  | 23  | 7   | 49 72% | Pyrexia                | 8   | 1   | 1   | 0   | 10 15% |
| Nausea             | 29  | 13  | 4   | 0   | 46 68% | Dyspnea                | 7   | 3   | 0   | 0   | 10 15% |
| Diarrhea           | 21  | 13  | 4   | 0   | 38 56% | AST Increase           | 7   | 2   | 1   | 0   | 10 15% |
| Leukopenia         | 9   | 14  | 5   | 1   | 29 43% | Lymphocytopenia        | 2   | 7   | 0   | 0   | 9 13%  |
| Anemia             | 22  | 5   | 2   | 0   | 29 43% | Dyspepsia              | 9   | 0   | 0   | 0   | 9 13%  |
| Alopecia           | 20  | 5   | 0   | 0   | 25 37% | ALT Increase           | 8   | 0   | 1   | 0   | 9 13%  |
| Abdominal Pain     | 14  | 8   | 3   | 0   | 25 37% | Hypocalcemia           | 9   | 0   | 0   | 0   | 9 13%  |
| Stomatitis         | 15  | 6   | 3   | 0   | 24 35% | Insomnia               | 9   | 0   | 0   | 0   | 9 13%  |
| Hypertension       | 4   | 10  | 9   | 0   | 23 34% | Dehydration            | 1   | 5   | 2   | 0   | 8 12%  |
| Thrombocytopenia   | 17  | 5   | 1   | 0   | 23 34% | Hypokalemia            | 6   | 2   | 0   | 0   | 8 12%  |
| Constipation       | 17  | 2   | 1   | 0   | 20 29% | Arthralgia             | 6   | 2   | 0   | 0   | 8 12%  |
| Vomiting           | 11  | 6   | 3   | 0   | 20 29% | Hand / Foot Syndrome   | 5   | 2   | 0   | 0   | 7 10%  |
| Epistaxis          | 15  | 0   | 0   | 0   | 15 22% | Hemorrhoids            | 5   | 2   | 0   | 0   | 7 10%  |
| Headache           | 13  | 0   | 0   | 0   | 13 19% | Non-Cardiac Chest Pain | 6   | 1   | 0   | 0   | 7 10%  |
| Decreased Appetite | 4   | 6   | 2   | 0   | 12 18% | ALP Increase           | 5   | 1   | 1   | 0   | 7 10%  |
| Back Pain          | 10  | 2   | 0   | 0   | 12 18% |                        |     |     |     |     |        |

\* Data consists of all adverse events entered into the EDC as of June 13, 2023, from an ongoing trial and unlocked database. N: number of patients (total N=68); events shown occurred in ≥10% of patients; numbers indicate number of patients experiencing the event, (regardless of causality); each patient is only counted once and only for the highest grade of a given event. TEAEs: Treatment Emergent Adverse Events; TOTAL shows the absolute # of patients and (%) of the population. COVID, as an AE, is not included as that data is still under review and being tabulated.





Onvansertib clinical development plan in mCRC

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CLINICAL FINDINGS FROM 2L Ph 1b/2 TRIAL

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**SCIENTIFIC BASIS FOR CLINICAL FINDINGS**

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CLINICAL DEVELOPMENT PATH FORWARD

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## We've discovered a scientific basis for our bev naïve clinical finding

Our findings establish the scientific basis of our bev naïve clinical finding

Reduction in tumor growth

Onvansertib plus bev **inhibits tumor growth** greater than either agent alone

PLK1 and hypoxia

Onvansertib inhibits the **hypoxia signaling pathway** by downregulating HIF1a expression

Onv + bev anti-angiogenesis

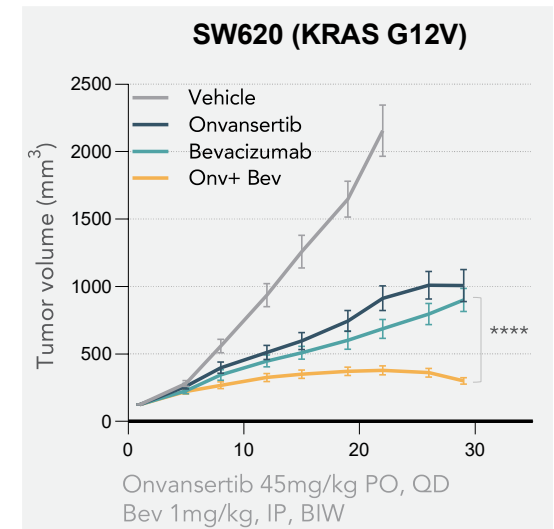
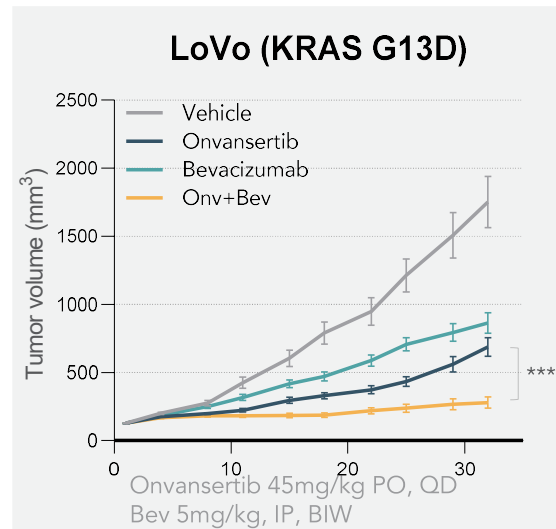
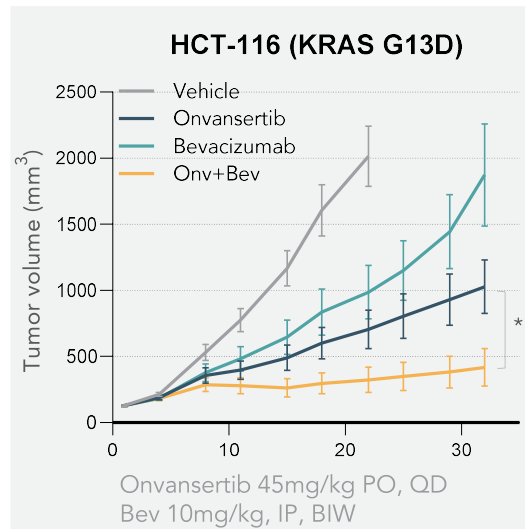
Onvansertib plays an **independent role in anti-angiogenesis** that complements bev

Prior bev treatment

Prior bev treatment modulates gene pathways that **confer resistance** to bev and onvansertib

# Onvansertib + bev inhibits tumor growth greater than either agent alone

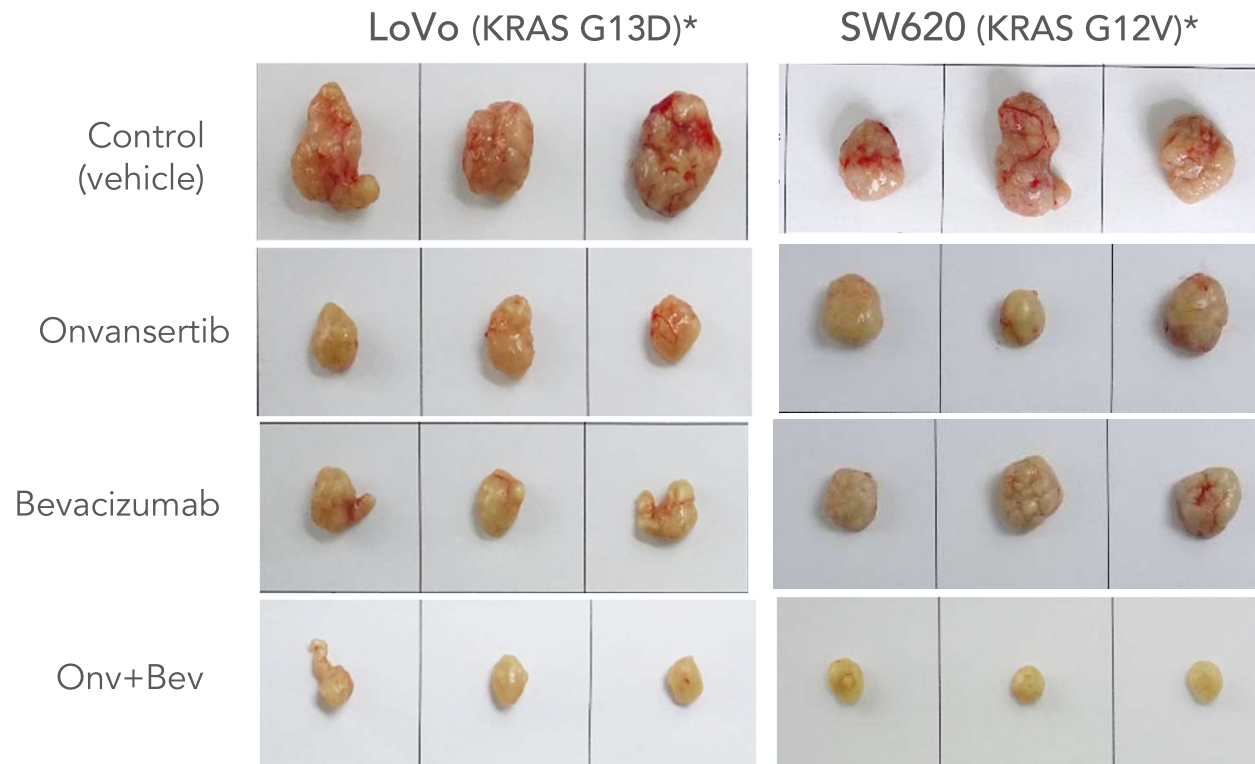
The combination had significant superior anti-tumor activity compared to the single agents



Three KRAS-mutant xenograft models were treated with vehicle (control), onvansertib, bevacizumab or the combination of onvansertib and bev. 8-9mice/ group. Mean  $\pm$  SEM are represented on graphs. An unpaired t-test was used to test the difference in tumor volume change on the last day of treatment between the combination treatment and the most effective control arm. \* $p < 0.05$ , \*\*\* $p < 0.001$ , \*\*\*\* $p < 0.0001$

# Onvansertib plays an independent role in anti-angiogenesis that complements bev

KRAS-mut tumors from mice treated with onv + bev appear smaller and pale (less vascularized)

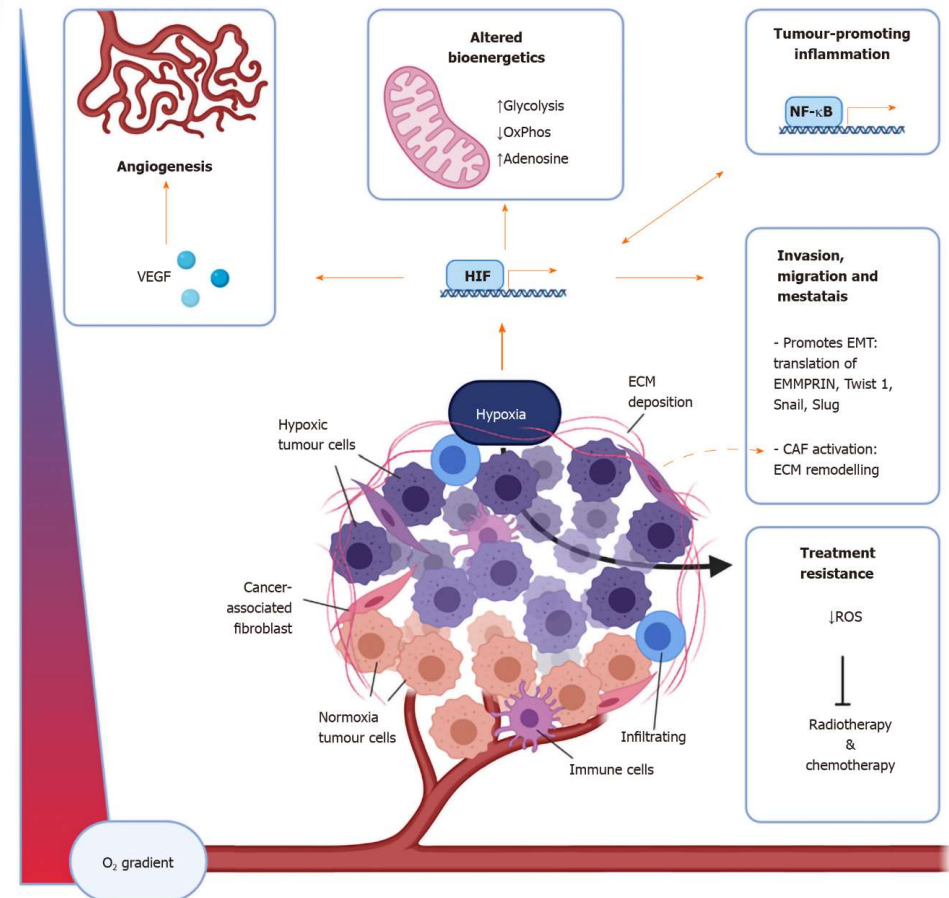


\* Two KRAS-mutant xenograft models were treated with control (vehicle), onvansertib, bevacizumab or the combination of onvansertib and bev. 8-9mice / group. Tumors were removed and photographed at the end of the study. Representative photographs from three mice from each group are shown.

# Hypoxia: a hallmark of cancer

In response to hypoxia, cancer cells activate the hypoxia-inducible factor (HIF) pathway, which can promote tumorigenesis through multiple means:

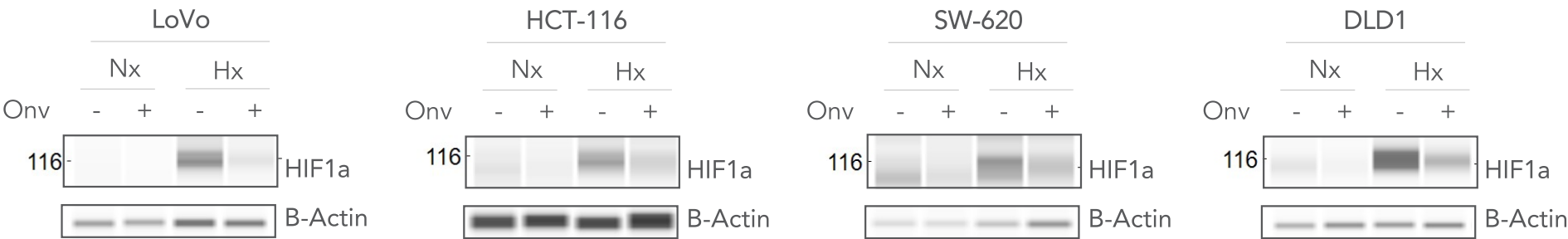
- Angiogenesis
- Cell proliferation and survival
- Highly immunosuppressive and invasive tumor microenvironment
- Hypoxia-induced EMT and acquisition of cancer cell stemness in turn driving metastasis
- Reprogrammed cancer cell metabolism and increased glycolysis
- Delivery of anti-cancer agents rendered more intractable



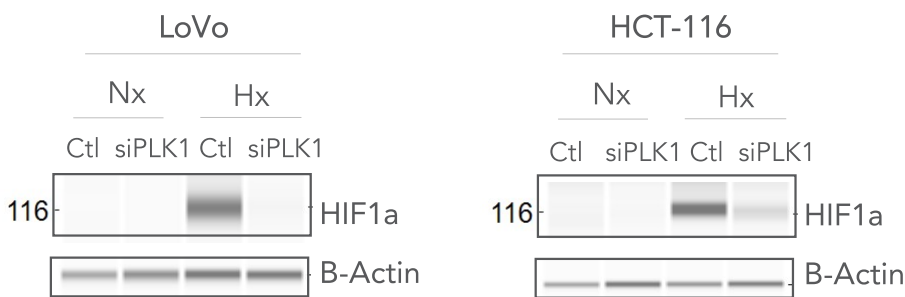
From: King et al., World J Gastrointest Oncol. 2021

# Onvansertib inhibits the hypoxia signaling pathway by downregulating HIF1a expression

In 4 RAS-mutant CRC cell lines\*, onvansertib inhibited hypoxia-induced HIF1a expression



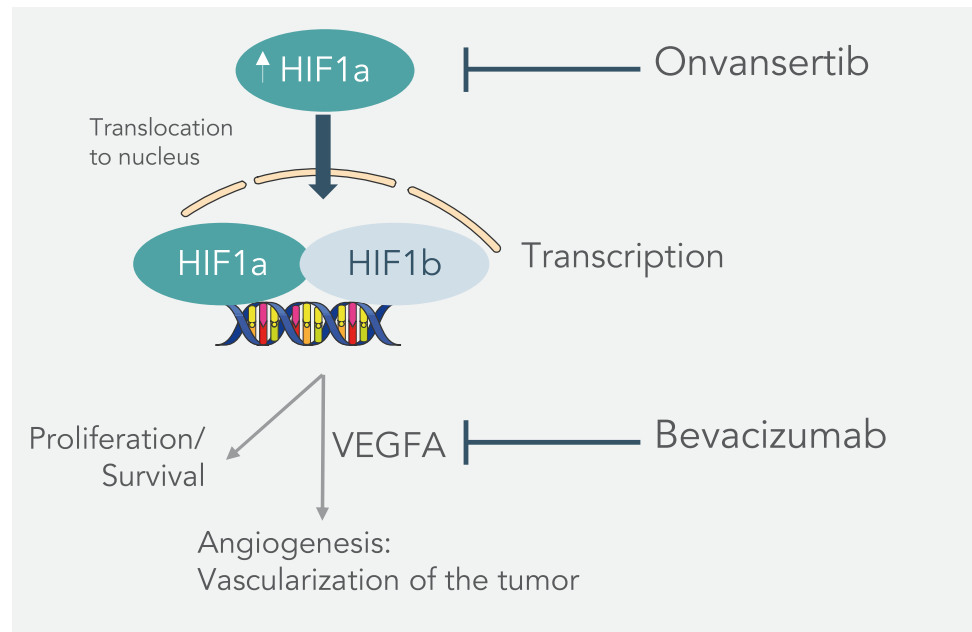
PLK1 inhibition using siRNA against PLK1 (siPLK1) prevented hypoxia-induced HIF1a expression



\* Four KRAS-mutant CRC cell lines were cultured under normoxia (20%O<sub>2</sub>, Nx) or hypoxia (1%O<sub>2</sub>, Hx), in the presence (+) or absence (-) of onvansertib. HIF1a expression was strongly induced under hypoxia.

# Onvansertib and bev are complementary inhibitors of the hypoxia signaling pathway

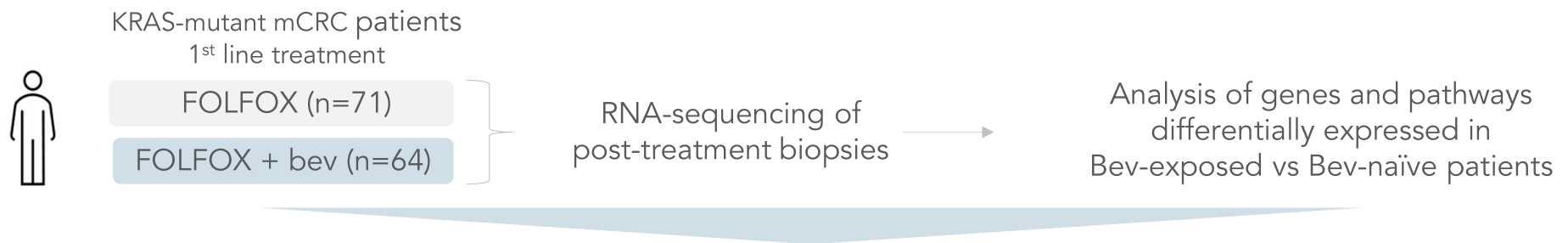
This new MOA, which inhibits a “survival switch” of tumorigenesis, may underlie the increased efficacy observed clinically



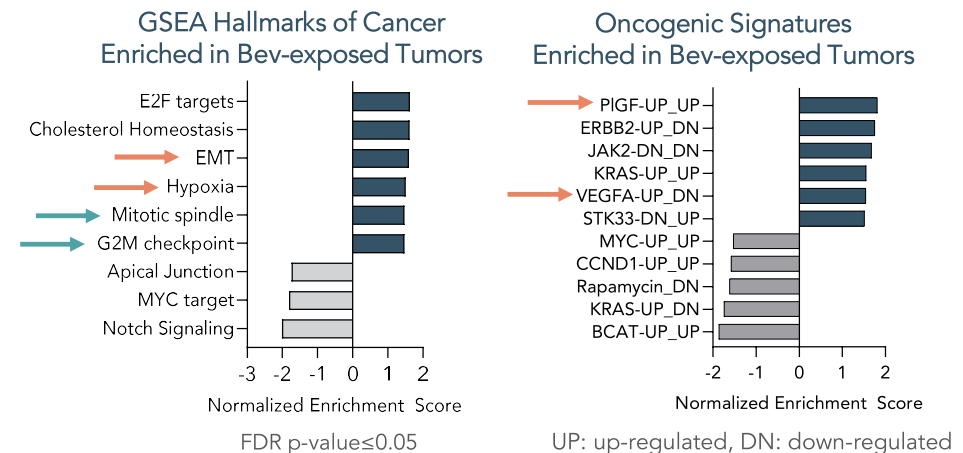
In the low oxygen tumor microenvironment (hypoxia), HIF1a is induced by tumors to increase vascularization by secreting VEGF, and to promote proliferation and survival

# Prior bev treatment modulates gene pathways that can confer resistance to bev and onvansertib

- Aim: to identify potential mechanisms of treatment resistance in bev exposed KRAS-mutant mCRC patients
- Method:



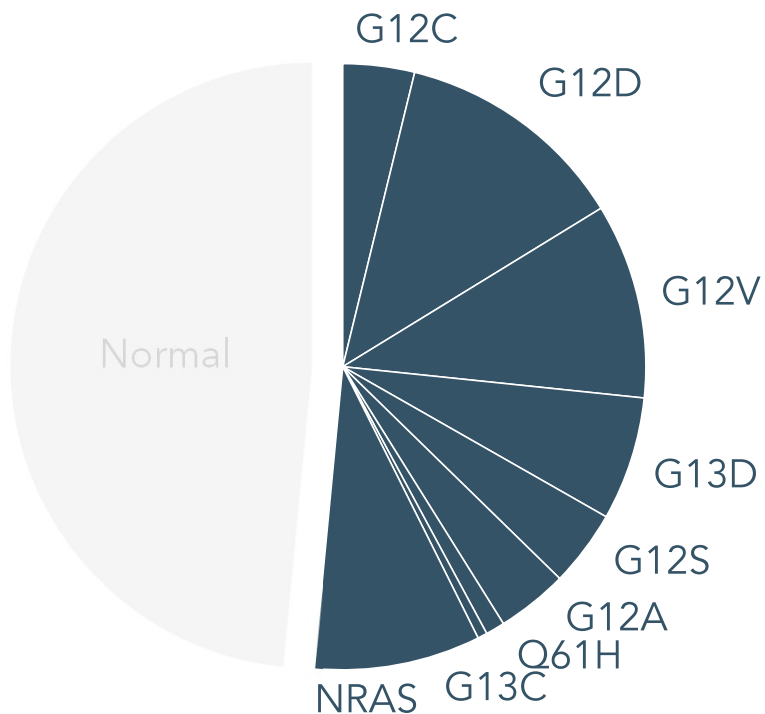
- Bev exposed tumors showed up-regulation of pathways associated with:
  - **Hypoxia**
  - **G2/M checkpoint and mitosis**
- Up-regulation of these pathways may drive resistance to onvansertib and bev
- Additionally, modulation of oncogenic signatures associated with **angiogenic factors** (PIGF, VEGFA) were observed in bev exposed tumors and may drive treatment resistance





# Our work supports the hypothesis of a 3<sup>rd</sup> MOA for PLK1 inhibition

## RAS-mutations in mCRC<sup>1</sup>



## MOA

In RAS-mutated mCRC, onvansertib has three mechanisms of action

- 1 Synthetic lethality in RAS mutants
- 2 Synergy with 2L SoC chemotherapy
- 3 Inhibit hypoxia / angiogenesis pathways

1. Jones R et al. Br J Cancer. 2017 Mar 28;116(7):923-929

Onvansertib clinical development plan in mCRC

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**CLINICAL FINDINGS FROM 2L Ph 1b/2 TRIAL**

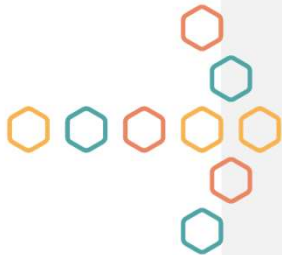
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**SCIENTIFIC BASIS FOR CLINICAL FINDINGS**

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**CLINICAL DEVELOPMENT PATH FORWARD**

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provided feedback at our Type C meeting in June 2023

FDA suggested we consider moving to a 1<sup>st</sup> line clinical development path...

2nd line  
mCRC



1st line  
mCRC

FDA commented:

Allows all patients with RAS-mut tumors to benefit from treatment with onvansertib rather than only the 2<sup>nd</sup> line bev naïve population

...and FDA agreed with Cardiff Oncology's proposed 1<sup>st</sup> line clinical program

CRDF-004

1<sup>st</sup> line RAS-mutated mCRC trial

- Obtain signal of safety and efficacy
- Select the dose for registrational trial



CRDF-005

1<sup>st</sup> line registrational RAS-mutated mCRC trial

- Seamless trial designed to support BOTH accelerated approval (ORR) and full approval (PFS/OS trend)

# Factors driving our move into 1<sup>st</sup> line from 2<sup>nd</sup> line RAS-mut mCRC

## Clinical

- All patients in 1<sup>st</sup> line are bev naïve
- No new therapies in 20 years
- No competing trials in RAS-mut 1<sup>st</sup> line mCRC speeds enrollment

## Regulatory

- FDA suggested we consider moving into 1<sup>st</sup> line to increase number of patients that could benefit from treatment
- Validated path to accelerated approval from CRDF-005 objective response rate

## Commercial

- Large 1<sup>st</sup> line patient population and market opportunity
- 1<sup>st</sup> line trial is funded through data with existing cash

## Transition from 2L to 1L

- ONSEMBLE (2<sup>nd</sup> line) trial tests same hypothesis as 1<sup>st</sup> line trial
- Bev naïve patients in 1<sup>st</sup> line provide the strongest opportunity for clinical efficacy to support accelerated approval

# Trial design of CRDF-004: 1<sup>st</sup> line RAS-mutated mCRC Ph 2 trial

## ENROLLMENT CRITERIA

1<sup>st</sup> line mCRC

KRAS+/NRAS+

Unresectable

No prior bev, FOLFIRI or FOLFOX treatment

**R**

N=90  
1:1:1

Onv 20mg + FOLFIRI/bev or  
FOLFOX/bev  
(n=30)

Onv 30mg + FOLFIRI/bev or  
FOLFOX/bev  
(n=30)

SoC: FOLFIRI/bev or  
FOLFOX/bev  
(n=30)

## ENDPOINTS

**Primary** ORR

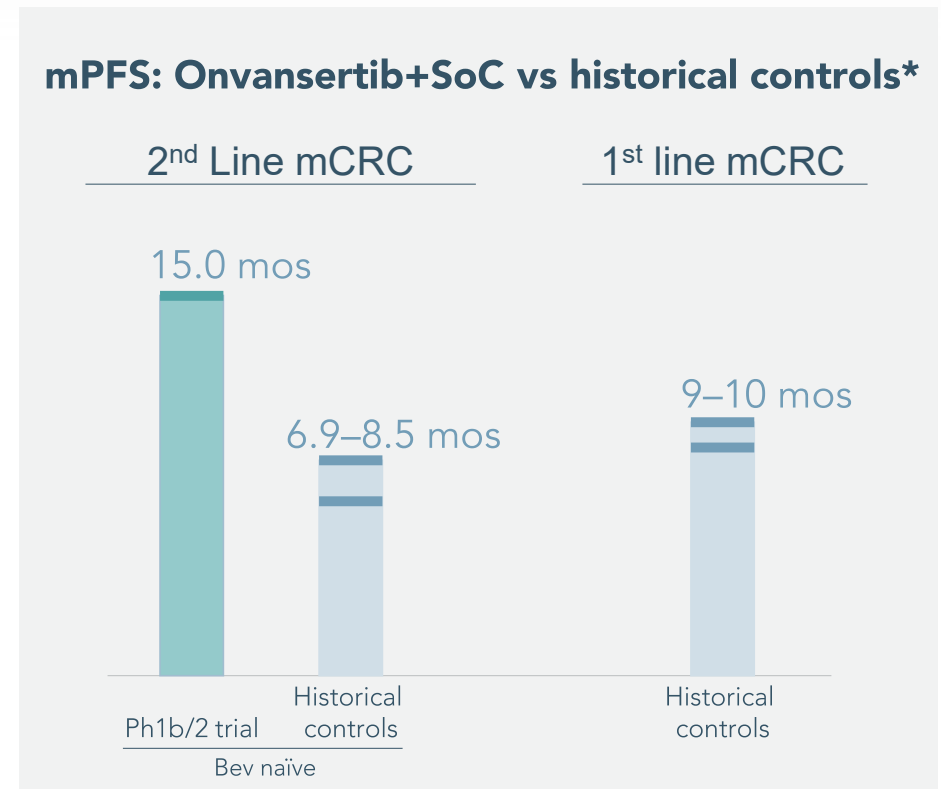
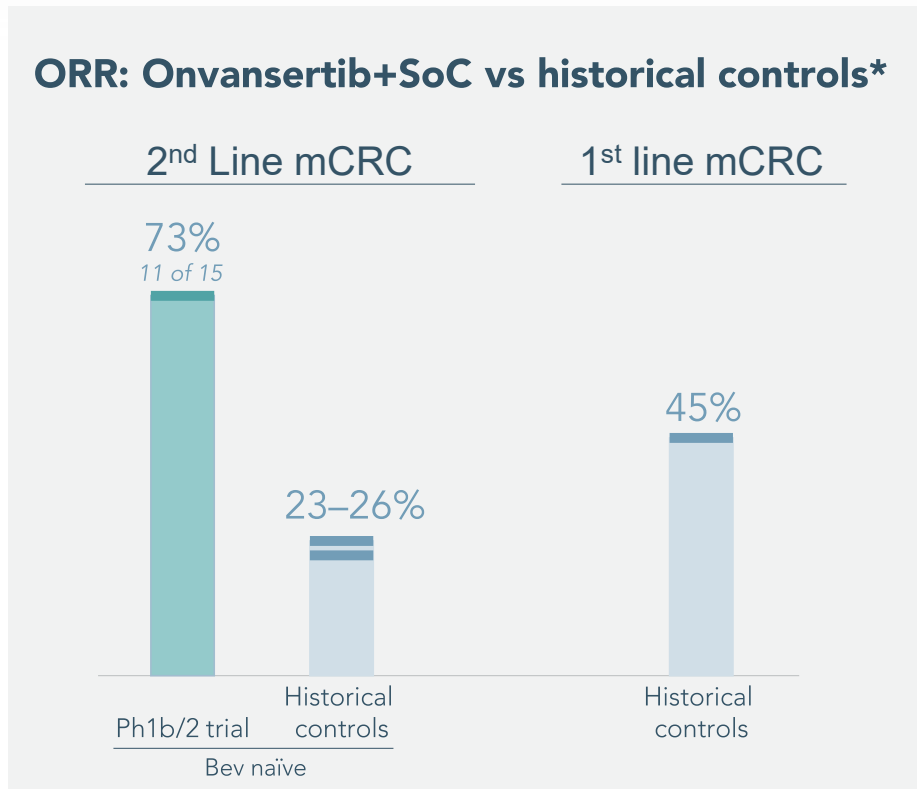
**Secondary** DoR and PFS

**Benchmark of success** ORR  $\geq 65\%$



In CRDF-004, each arm will have an equal number of FOLFIRI/bev and FOLFOX/bev patients.

# ORR/PFS for bev naïve patients exceeds 1<sup>st</sup> and 2<sup>nd</sup> line historical controls



Historical controls reflect RAS-WT and RAS-mut patients

\* 2008: Bennouna et al., Lancet Oncol 2013; 14: 29–37; 2013: Giessen et al., Acta Oncologica, 2015, 54: 187–193; 2017: Cremolini et al., Lancet Oncol 2020, 21: 497–507; and Antoniotti et al., Correspondence Lancet Oncol June 2020. J. Clin. Med. 2020, 9, 3889; doi:10.3390/jcm9123889. ORR and PFS data are interim data from an ongoing trial and unlocked database. Historical controls are from studies in similar anti-angiogenic drugs and restricted geographical areas, and do not all represent purely comparable 2nd line mCRC patient populations.

## Pfizer will support clinical execution of 1<sup>st</sup> line mCRC trial

### **PFIZER** BREAKTHROUGH GROWTH INITIATIVE

November 2021

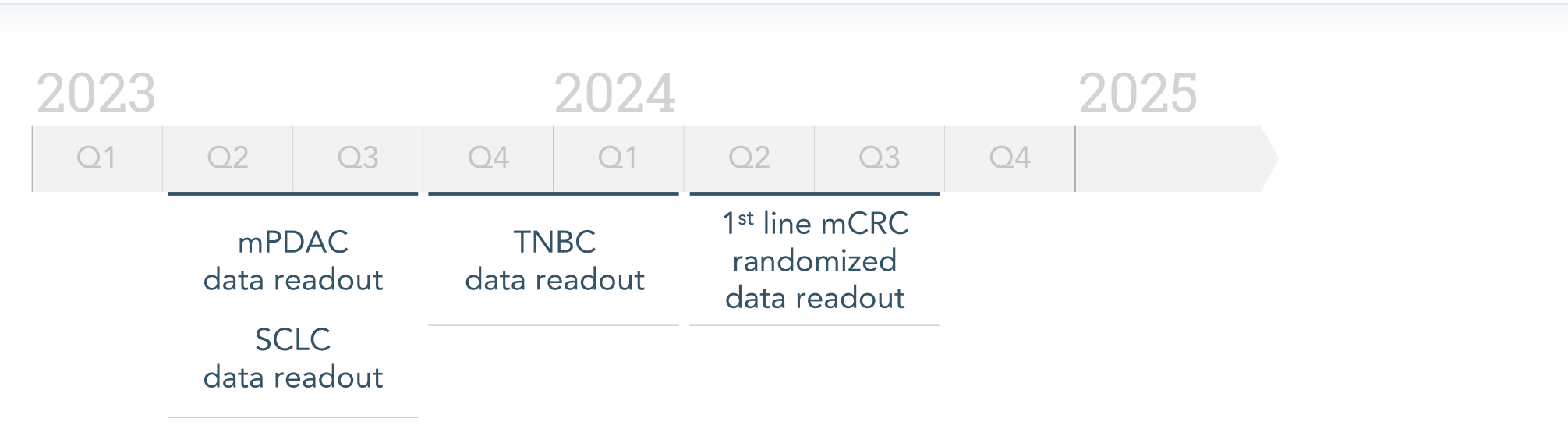
- \$15M investment
- Adam Schayowitz, Ph.D., MBA, Vice President & Medicine Team Group Lead for Breast Cancer, Colorectal Cancer and Melanoma at Pfizer joins Scientific Advisory Board
- Right of first access to data

### **PFIZER Ignite**

August 2023

- Pfizer Ignite will be responsible for the clinical execution of 1<sup>st</sup> line mCRC trial (CRDF-004), including development capabilities, scale and expertise
- Cardiff Oncology retains full economic ownership and control of onvansertib

# We have multiple near-term clinical data read outs



|                                                                                            |         |
|--------------------------------------------------------------------------------------------|---------|
| June 30, 2023 cash and investments                                                         | \$89.4M |
| Net cash used in Operating Activities<br>(Rolling two-quarter period ending June 30, 2023) | \$15.8M |



We are advancing our RAS-mutated mCRC program to the 1<sup>st</sup> line setting

**We expect clinical data from our 1<sup>st</sup> line RAS-mutated mCRC trial in mid-2024**



Clinical findings from  
Ph 1b/2 (n=48)  
Replicated in Ph 1b/2  
Expansion cohort (n=18)



Discovered a new MOA:  
Inhibiting a “survival  
switch” of tumorigenesis  
/ angiogenesis



FDA agreed with  
a 1<sup>st</sup> line clinical  
development path

**PFIZER**

Provides development  
capabilities to support  
1<sup>st</sup> line trial



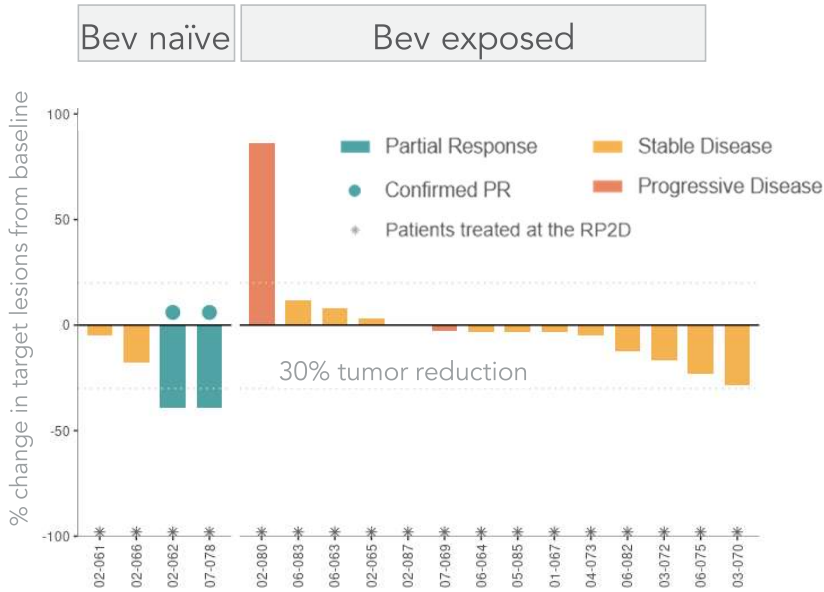
## Appendix: Additional Ph 1b/2 Clinical Data

# Expansion cohort patients replicated the prior bev naïve finding

**Best Radiographic Response\*** – 18 expansion cohort patients (as of June 16, 2023)

As an independent cohort in the Ph 1b/2 trial, the expansion cohort replicated the finding of improved responses from the bev naïve patients

|                      | All patients | Bev naïve | Bev exposed |
|----------------------|--------------|-----------|-------------|
| N                    | 18           | 4         | 14          |
| ORR                  | 11% (2)      | 50% (2)   | 0%          |
| Disease Control Rate | 89%          | 100%      | 86%         |

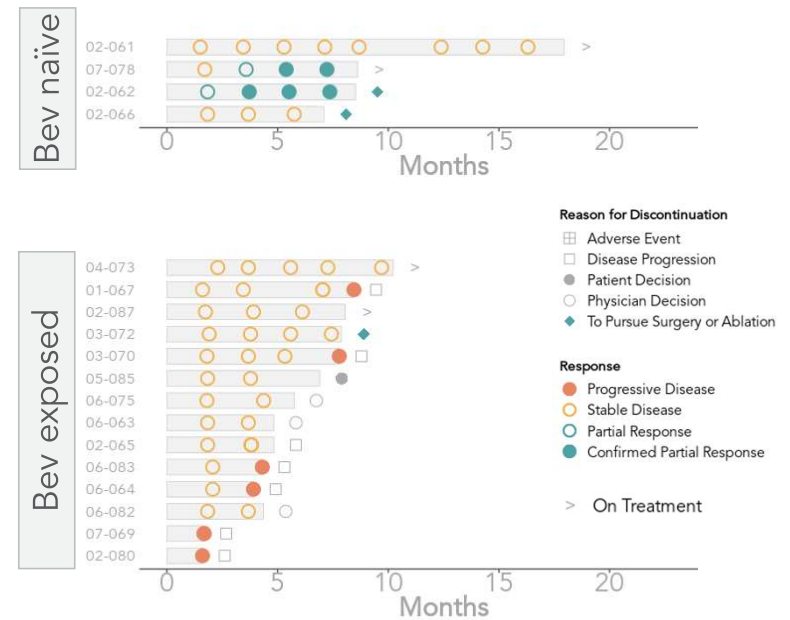


\* Radiographic response determined per RECIST 1.1. Waterfall plot and table reflect interim data as of June 16, 2023 from an ongoing trial and unlocked database.

# Bev naïve patients responded better than bev exposed

**Swimmer plot\*** – 18 expansion cohort patients (as of June 16, 2023)

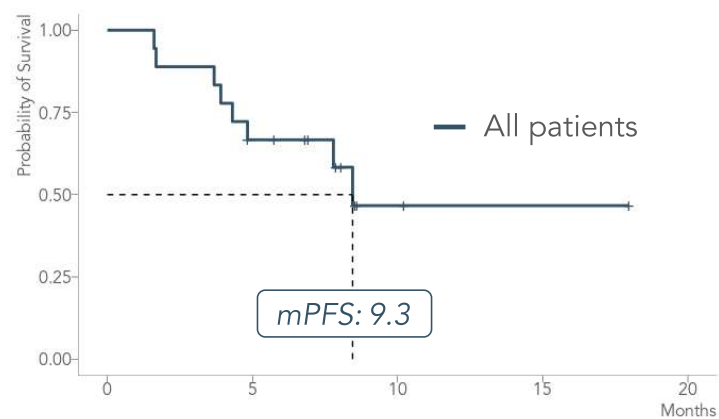
|                            | All patients | Bev naïve | Bev exposed |
|----------------------------|--------------|-----------|-------------|
| Pursued surgery / ablation | 17% (3/18)   | 50% (2/4) | 7% (1/14)   |



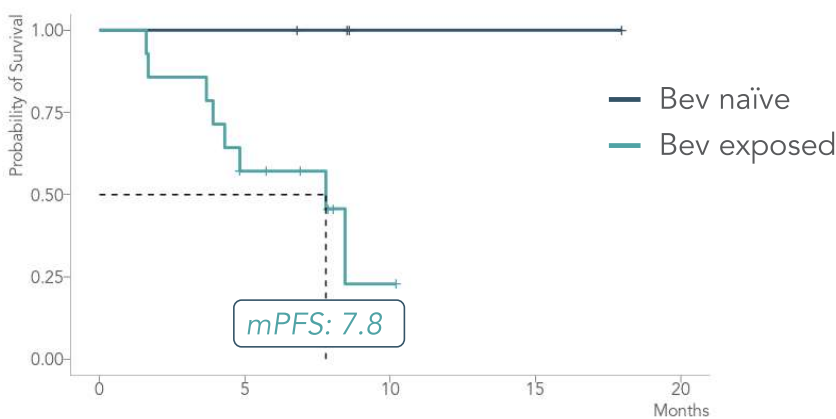
\* Swimmer plot / table reflect interim data as of June 16, 2023 from an ongoing trial and unlocked database.

# Expansion cohort patients replicated the prior bev naïve finding

**Progression free survival\*** – 18 expansion cohort patients (as of June 16, 2023)



| Characteristic | N  | Event N | mPFS (95%CI) |
|----------------|----|---------|--------------|
| Overall        | 18 | 8       | 8.4 (4.8, —) |



| Characteristic             | N  | Event N | mPFS (95%CI)                | p-value <sup>†</sup> |
|----------------------------|----|---------|-----------------------------|----------------------|
| prior_chemo                | 18 | 8       |                             | 0.046                |
| Bev Naïve                  |    |         | — (—, —)                    |                      |
| Prior Bev                  |    |         | 7.8 (4.3, —)                |                      |
| <sup>†</sup> Log-rank test |    |         | CI of "—" means not reached |                      |

| Historical controls** | Bev exposed  | Bev naïve    |
|-----------------------|--------------|--------------|
| PFS                   | 4.5 - 6.7mos | 6.9 - 8.5mos |

\* Onvansertib mPFS are interim data as of June 16, 2023 from an ongoing trial and unlocked database

\*\* Bennouna et al., Lancet Oncol 2013; 14: 29–37; Giessen et al., Acta Oncologica, 2015, 54: 187-193; Cremolini et al., Lancet Oncol 2020, 21: 497–507; Antoniotti et al., Correspondence Lancet Oncol June 2020. Giantonio et al., 2007, J Clin Oncol 25:1539-1544; Moriwaki et al., Med Oncol, 2012, 29:2842–2848; Beretta et al, Med Oncol 2013, 30:486.

# mCRC Ph 1b/2 trial subgroup data compares favorably to SoC

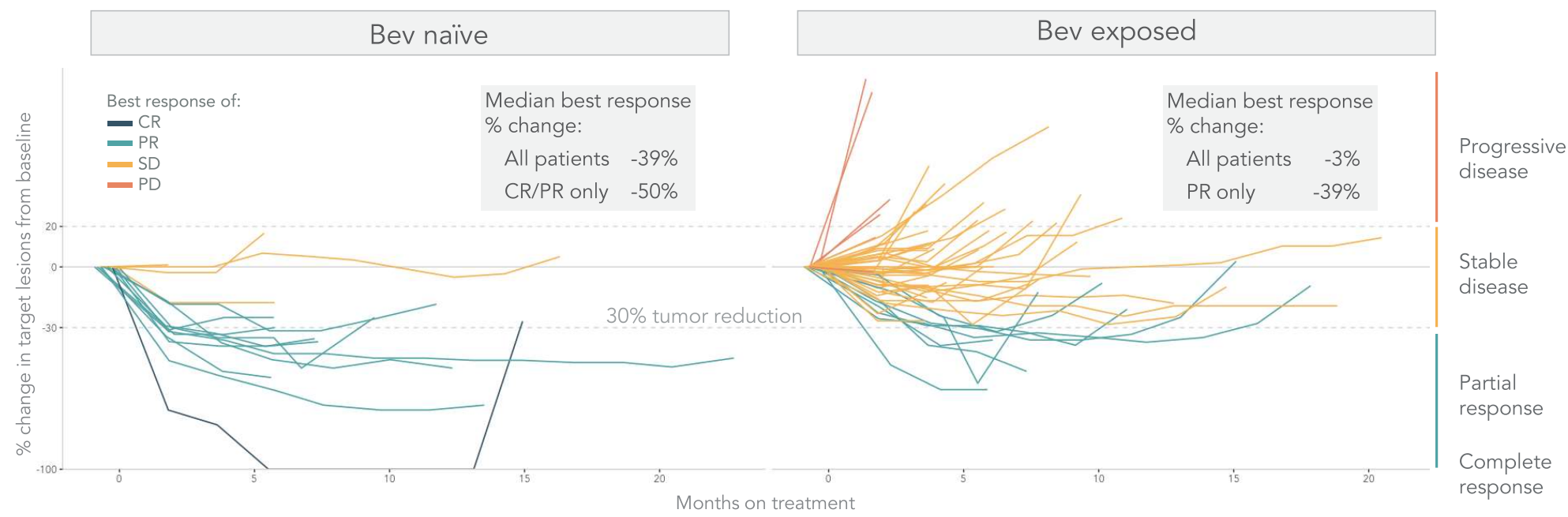
Objective response rates (%) and mPFS (mo) in our Ph1b/2 trial varied considerably by subgroup

|             | Ph1b/2 (N=48)                                | Ph2 Exp. (N=18)                                | Total (N=66)                                 | Historical Controls*            |
|-------------|----------------------------------------------|------------------------------------------------|----------------------------------------------|---------------------------------|
| Bev naïve   | 82% (9 of 11)<br>14.0 mo<br>23% of patients  | 50% (2 of 4)<br>Not reached<br>22% of patients | 73% (11 of 15)<br>15.0 mo<br>23% of patients | 23-26% ORR<br>6.9 – 8.5 mo mPFS |
| Bev exposed | 22% (8 of 37)<br>7.8 mo<br>77% of patients   | 0% (0 of 14)<br>7.8 mo<br>78% of patients      | 16% (8 of 51)<br>7.8 mo<br>77% of patients   | 5-13% ORR<br>4.5 – 6.7 mo mPFS  |
| Total       | 35% (17 of 48)<br>9.3 mo<br>100% of patients | 11% (2 of 18)<br>8.4 mo<br>100% of patients    | 29% (19 of 66)<br>9.3 mo<br>100% of patients |                                 |

\* Bennouna et al., Lancet Oncol 2013; 14: 29–37; Giessen et al., Acta Oncologica, 2015, 54: 187-193; Cremolini et al., Lancet Oncol 2020, 21: 497–507; Antoniotti et al., Correspondence Lancet Oncol June 2020. Giantonio et al., 2007, J Clin Oncol 25:1539-1544; Moriwaki et al., Med Oncol, 2012, 29:2842–2848; Beretta et al, Med Oncol 2013, 30:486. mCRC: metastatic colorectal cancer

# Bev naïve patients experienced deeper tumor regression

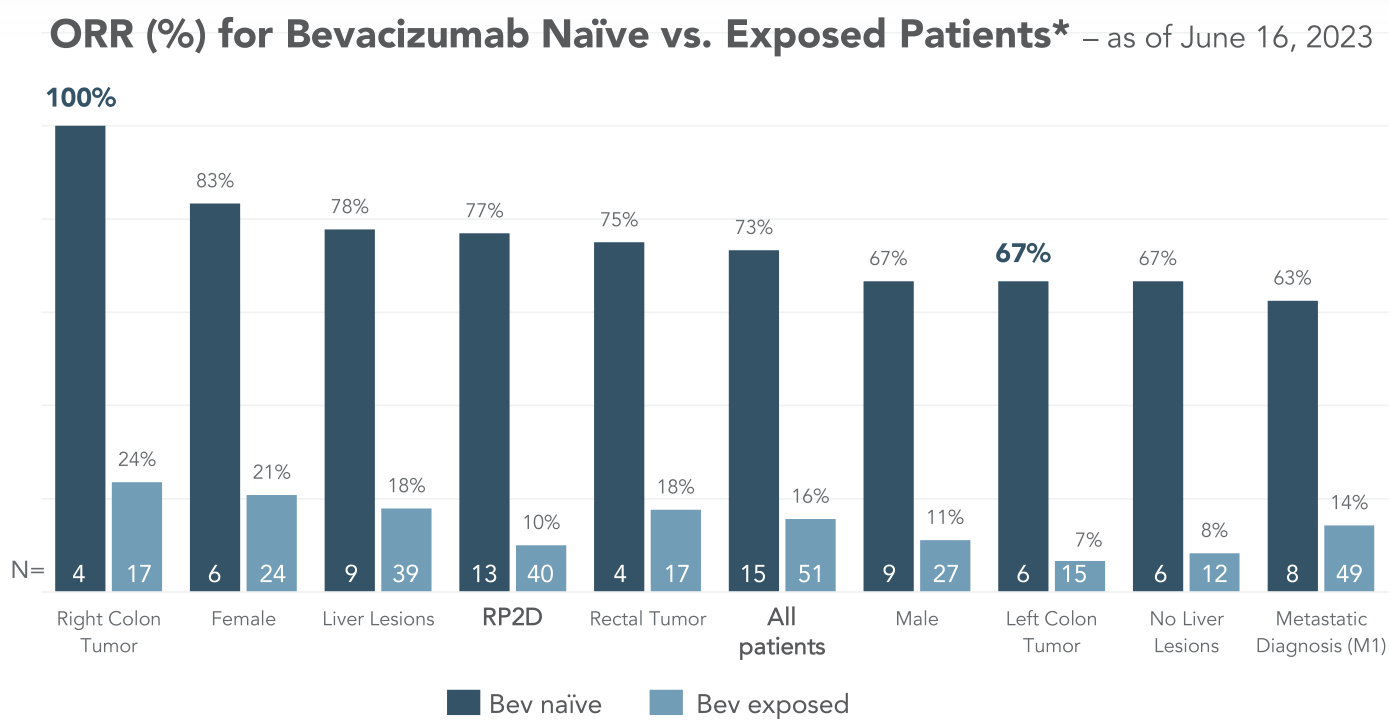
Change in tumor size from baseline\* – all doses (as of June 16, 2023)



\* Spider plots reflect interim data as of June 16, 2023 from an ongoing trial and unlocked database

# ORR is consistently greater for bev naïve patients across characteristics

No single patient characteristic explains the difference in response rates by prior bev status



\* Onvansertib ORR is interim data as of June 16, 2023 from an ongoing trial and unlocked database.





## Appendix: Additional Preclinical Data

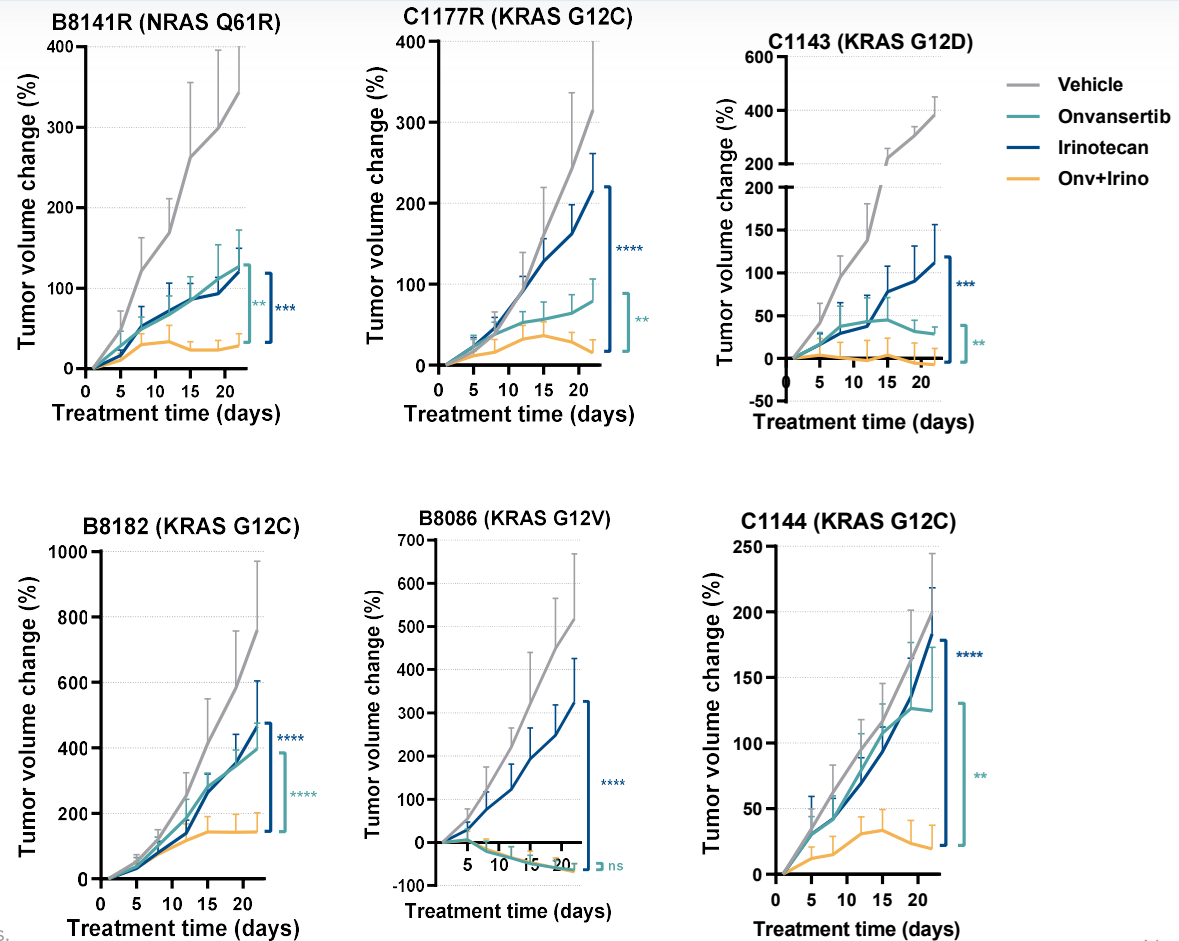
# Onvansertib in combination with irinotecan in RAS-mutant CRC PDXs

The combination of onvansertib and irinotecan showed anti-tumor activity in 6 RAS-mutated PDX models with either acquired or intrinsic resistance to irinotecan.

The combination showed significant increased anti-tumor activity compared to onvansertib single agent in 5 of the 6 models.

These data support that onvansertib + irinotecan is an active combination in RAS-mutated PDX models and that Onvansertib can sensitize tumors to irinotecan.

In collaboration with Dr. Kopetz (MD Anderson)



Dosing schedule: onvansertib 60 mg/kg daily; irinotecan 40mg/kg weekly, for up to 21days. Mean + SD are represented. Unpaired t-test, \*\*p<0.01, \*\*\*p<0.001, \*\*\*\*p<0.0001

# Onvansertib in combination with FOLFOX in RAS-mutant CRC PDXs

The chemotherapeutics oxaliplatin+5FU had no or modest activity in the 6 RAS-mutant PDX models tested.

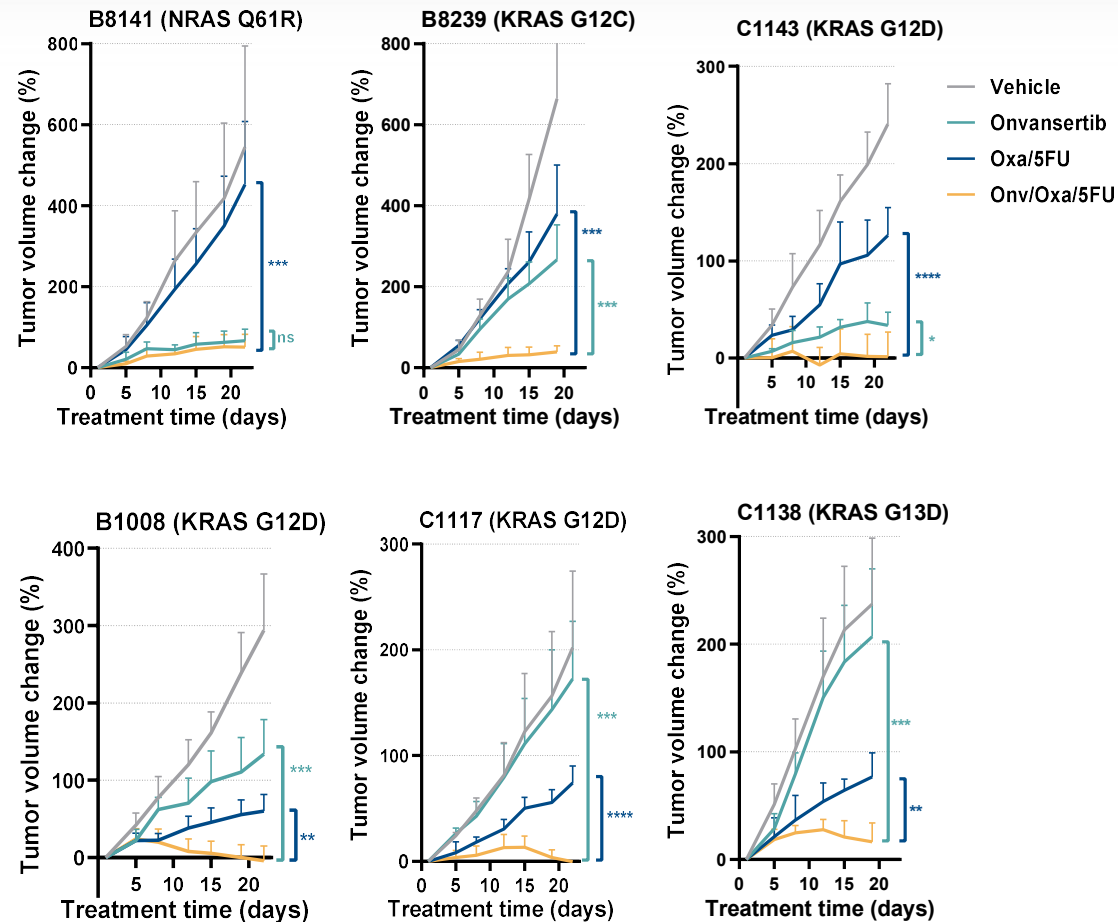
Conversely, the combination of onvansertib with oxaliplatin+5FU was efficacious in all 6 models, resulting in tumor stasis or tumor regression.

In 5 of the 6 models, the combination had significantly superior activity than the single agent treatments.

These data support the efficacy of onvansertib in combination with oxaliplatin+5FU in RAS-mutant CRC PDXs resistant or partially sensitive to oxaliplatin+5FU.

In collaboration with Dr. Kopetz (MD Anderson)

Dosing schedule: onvansertib 45 mg/kg daily; oxaliplatin 10mg/kg weekly; 5-FU 25mg/kg 5times/week for up to 21days. Mean + SD are represented. Unpaired t-test, \*p<0.05, \*\*p<0.01, \*\*\*p<0.001, \*\*\*\*p<0.0001



# Onvansertib inhibits vascularization *in vitro*

Tube formation assay: HUVEC endothelial cells seeded onto a 3D extracellular matrix form tube-like structures upon stimulation with the angiogenic factor VEGFA, simulating the formation of new blood vessels

Treatment with onvansertib (25, 100 and 400nM) for 24h significantly reduced VEGFA-stimulated HUVECs tube formation in a dose-dependent manner, demonstrating that onvansertib inhibits angiogenesis *in vitro*

