



Company Overview The Onvansertib Opportunity

TURNING THE TIDE ON CANCER SEPTEMBER 2022

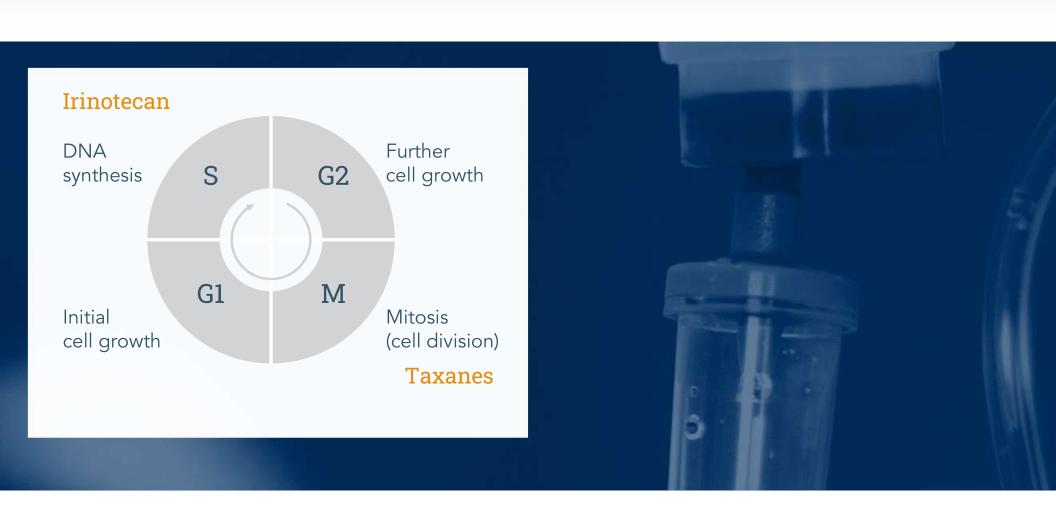
Forward-looking statements

CERTAIN STATEMENTS IN THIS PRESENTATION ARE

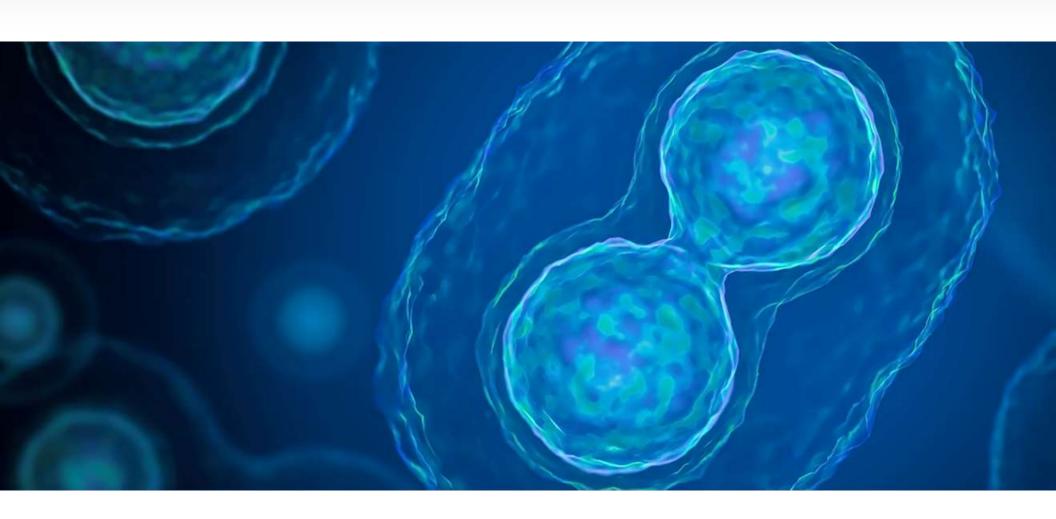
FORWARD-LOOKING within the meaning of the Private Securities Litigation Reform Act of 1995. These statements may be identified by the use of words such as "anticipate," "believe," "forecast," "estimated" and "intend" or other similar terms or expressions that concern our expectations, strategy, plans 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;

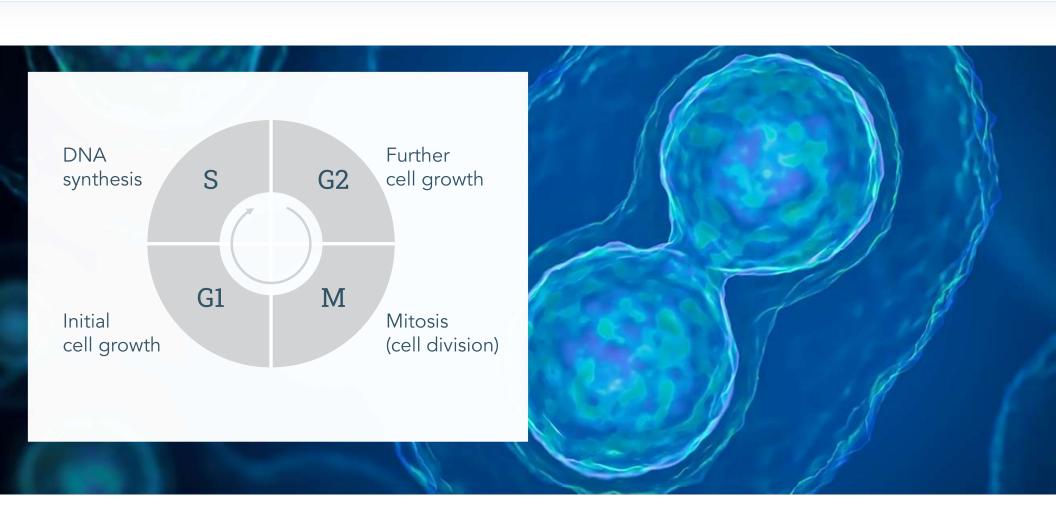
uncertainties of government or third-party payer reimbursement; dependence on key personnel; limited experience in marketing and sales; substantial competition; uncertainties of patent protection and litigation; dependence upon third parties; regulatory, and risks related to failure to obtain FDA clearances 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, 2021, 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 forwardlooking 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.

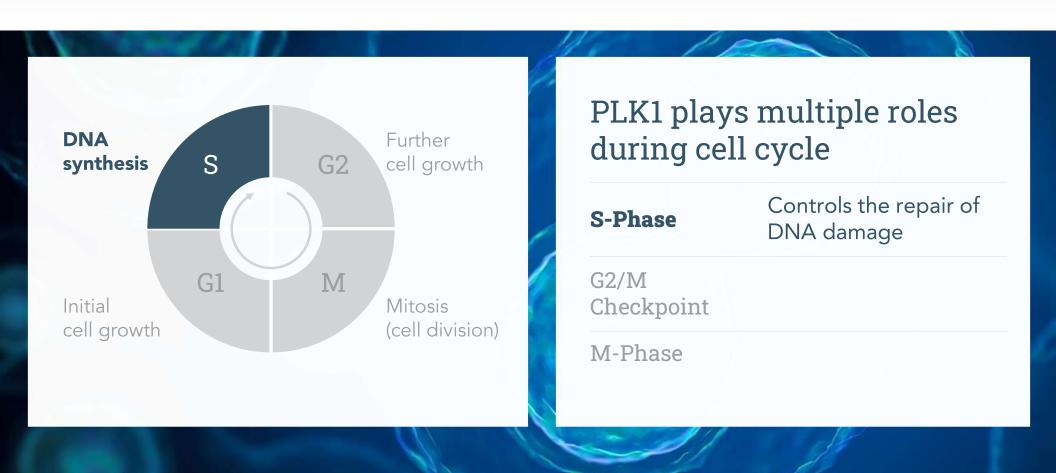
Many chemotherapy agents damage a cancer cell's ability to replicate

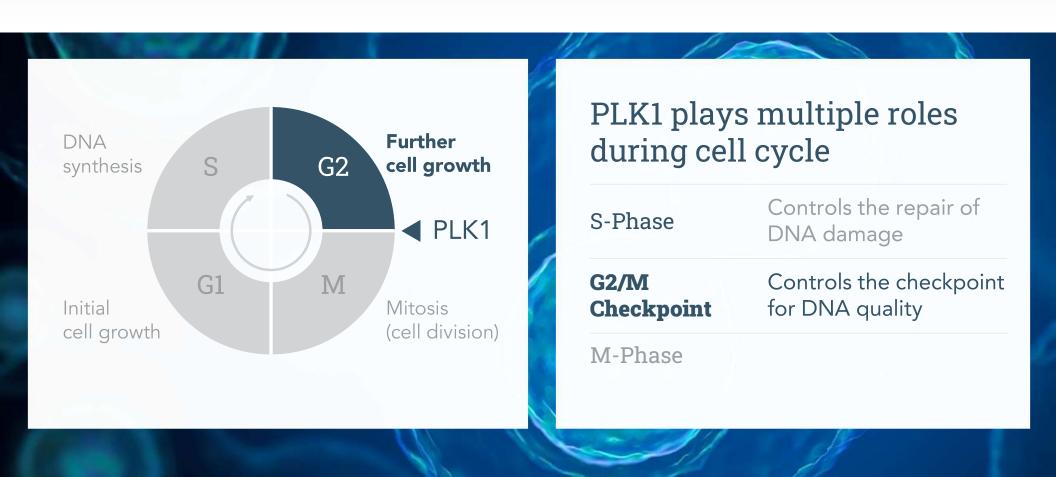


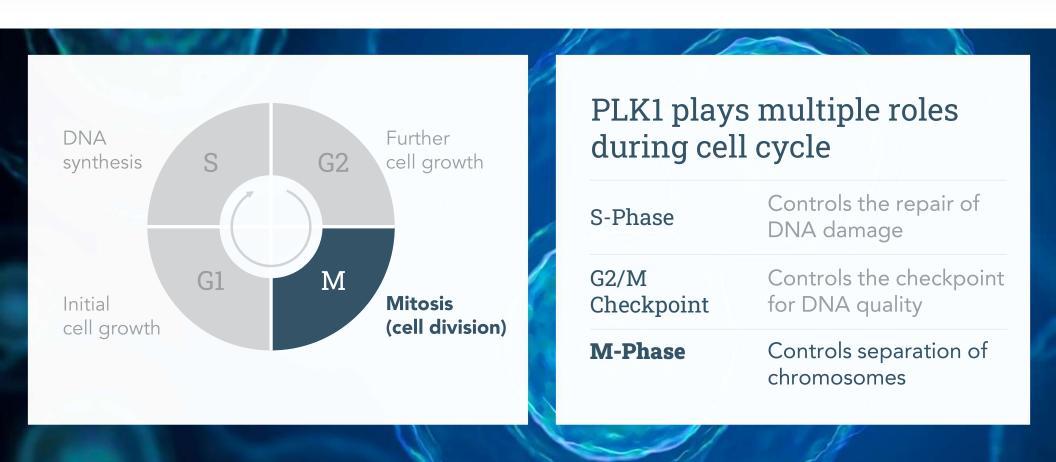
Cancers thrive because they prioritize DNA replication and cell division

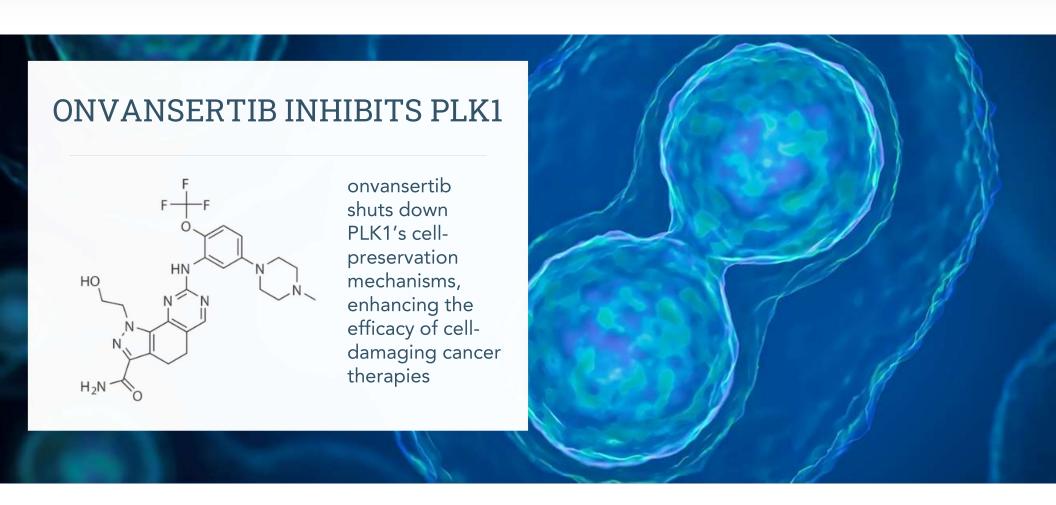












Onvansertib positions Cardiff Oncology to effectively target PLK1

PROPERTIES

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

SPECIFICITY Exquisitely specific for PLK1			
ENZYME	IC ₅₀ (μΜ)		
PLK1	0.002		
PLK2	>10		
PLK3	>10		
CK2	0.4		
FLT3	0.4		
CDK1/CycB	>10		
42 other kinases and >140 in the Millipore panel	>10		





WHAT Onvansertib has achievedWHY Onvansertib worksWHERE Cardiff Oncology can go



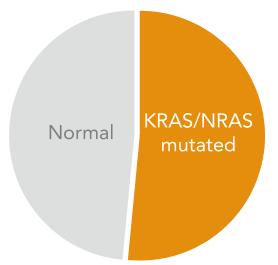


WHAT	Onvansertib has achieved
WHY	Onvansertib works
WHERE	Cardiff Oncology can go

There are no targeted therapies available for KRAS/NRAS mutations



Mutated mCRC is approx. half the mCRC population¹



The prognosis for second-line mCRC patients is poor

Normal	1st LINE	2 nd LINE]	HIST	'ORICAL*
Standard	FOLFOX + bevacizumab	FOLFIRI + bevacizumab		(ORR
Targeted	+ EGFR inhibitor	NONE			
				5%	2006 – 2008
Mutated					0000 0040
Standard	FOLFOX + bevacizumab	FOLFIRI + bevacizumab	-	11.4%	2000 – 2013
Targeted	NONE	NONE		13%	2015 – 2017

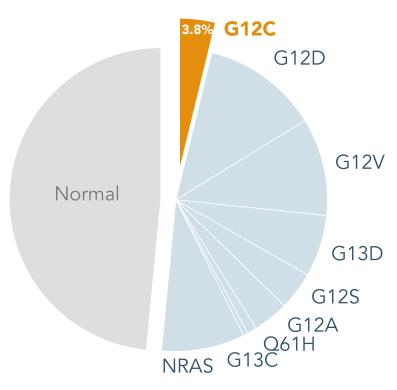
^{*} Bennouna et al., Lancet Oncol 2013; 14: 29–37; Giessen et al., Acta Oncologica, 2015, 54: 187-193; Cremolini et al., Lancet Oncol 2020, 21: 497–507; Antoniotti et al., Correspondence Lancet Oncol June 2020. mCRC: metastatic colorectal cancer

Adding onvansertib to SoC could address the unmet need

Normal	1st LINE	2 nd LINE	F
Standard	FOLFOX + bevacizumab	FOLFIRI + bevacizumab	F F
Targeted	+ EGFR inhibitor	NONE	HO HN N
Mutated			N N N
Standard	FOLFOX + bevacizumab	FOLFIRI + bevacizumab	H ₂ N O
Targeted	NONE	ONVANSERTIB	Onvansertib has the potential to fill this gap

Gaps in KRAS-mutated mCRC therapies leave a significant unmet need

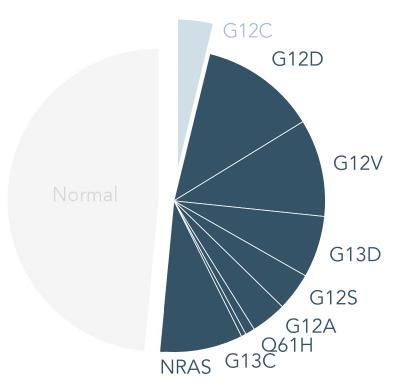
KRAS/NRAS Mutations in mCRC¹



Investigational therapies (Amgen; Mirati) address the G12C KRAS mutation *only*

Gaps in KRAS-mutated mCRC therapies leave a significant unmet need

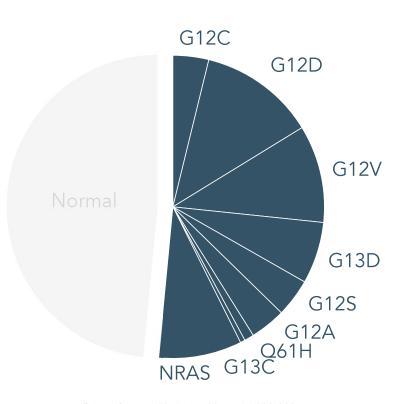
KRAS/NRAS Mutations in mCRC1



93%
of patients with
KRAS/NRAS mutations
miss targeted therapy

Onvansertib is positioned to address gaps in KRAS-mutated mCRC

KRAS/NRAS Mutations in mCRC¹



MOA

In KRAS-mutated mCRC, onversertib has two mechanisms of action

Synthetic lethality in KRAS mutants

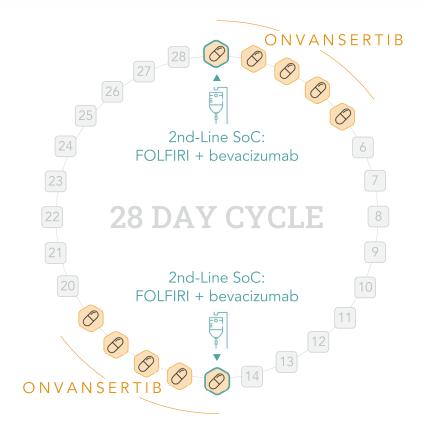
Synergy with 2nd-line SoC

Our Ph1/2b trial combined onvansertib with the current SoC

ENROLLMENT CRITERIA

2nd line mCRC KRAS+ Unresectable





SINGLE ARM TRIAL

N=50 (48 evaluable)

Can we get a signal that onvansertib complements and improves SoC?

Our Ph1/2b trial assessed safety, efficacy and response biomarker

2nd line mCRC KRAS+ Unresectable

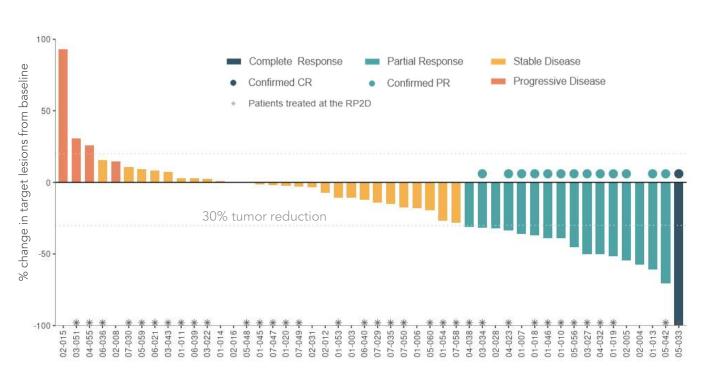


EFFICACY ENDPOINTS

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

Patients achieved a strong, durable response with onvansertib + SoC

Best Radiographic Response* – all doses (as of July 25, 2022)



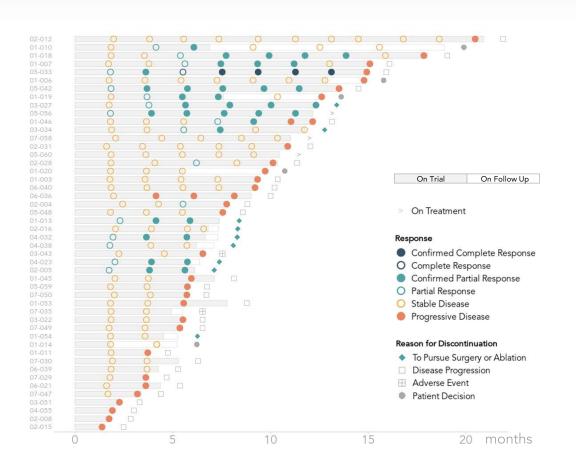
	All Doses	RP2D
Objective Response Rate* (CR + PR)	35% (17/48)	34% (12/35)
Disease Control Rate (CR + PR + SD)	92% (44/48)	94% (33/35)

Durability

Median Duration of Response	11.7 months	12.5 months
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^{*} Waterfall plot and table reflect interim data as of July 25, 2022 from an ongoing trial and unlocked database

We observe initial PRs up to eight months on treatment

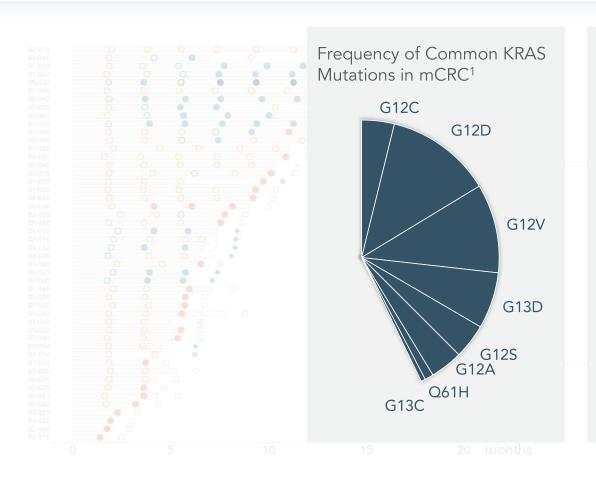


Swimmer plot* – all doses (as of July 25, 2022)

Evaluable Patients – all doses	48
Time of initial PR	
8-week scan	8
16-week scan	3
24-week scan	5
32-week scan	1

^{*} Swimmer plot and table reflect interim data as of July 25, 2022 from an ongoing trial and unlocked database

Patients achieved responses across several KRAS mutations



Onvansertib responses across KRAS mutations (as of July 25, 2022)				
KRAS Variant	CR+PR	SD	PD	Total
G12D	6	7	1	14
G12V	1	8	1	10
G13D	4	3		7
G12A	3	3		6
A146T	1	2		3
G12S		3	1	4
G12C	1	1	1	3
Q61H	1			1
Total	17	27	4	48

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

Objective Response Rate for mCRC trial exceeds SoC over time



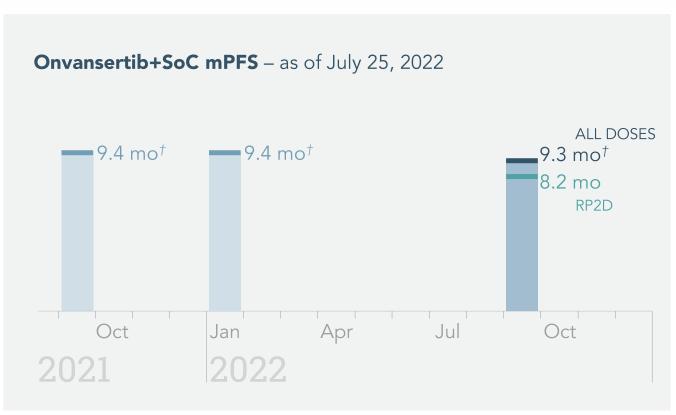


^{* 2008:} Bennouna et al., Lancet Oncol 2013; 14: 29–37; 2013: Giessen et al., Acta Oncologica, 2015, 54: 187-193; 2017: Cremolini et al., Lancet Oncol 2020, 21: 497–507; and Antoniotti et al., Correspondence Lancet Oncol June 2020. SoC: Standard-of-care

[†] ORR data are interim data from an ongoing trial and unlocked database

Progression Free Survival for mCRC trial exceeds SoC over time





[†] Onvansertib mPFS are interim data from an ongoing trial and unlocked database

^{* 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. SoC: Standard-of-care. mPFS: median progression free survival





WHAT	Onvansertib has achieved
WHY	Onvansertib works
WHERE	Cardiff Oncology can go

To date, toxicity has prevented regulatory approval of PLK1 inhibitors

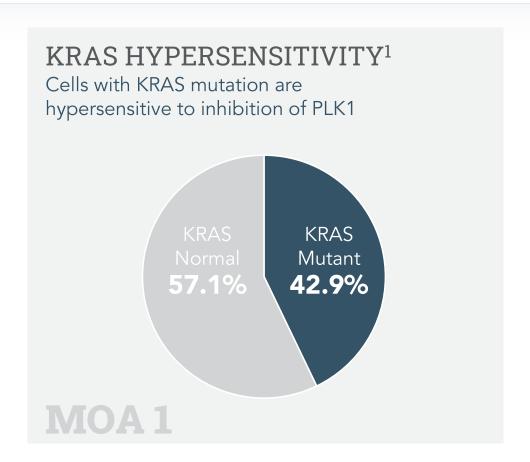
Onvansertib's safety profile

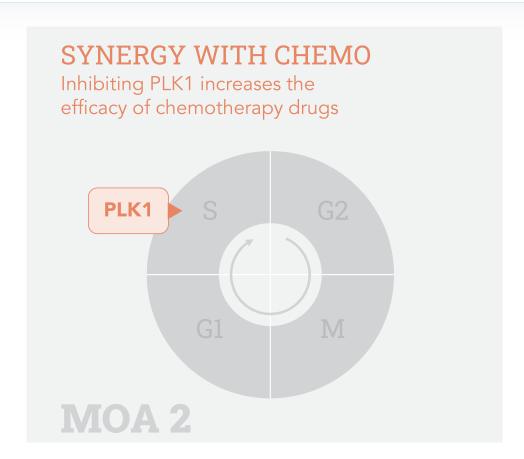
eclipses that of its most promising predecessor

	Onvansertib	Volasertib ¹
Selectivity for PLK1	Exclusive for PLK1	Pan-inhibitor for PLK1, 2, and 3
Dosing	Oral	IV
Half-life	1 day	~5 days
Safety and tolerability	Well tolerated in ~200 patients	Pivotal trial suspended at 371 patients: toxicity

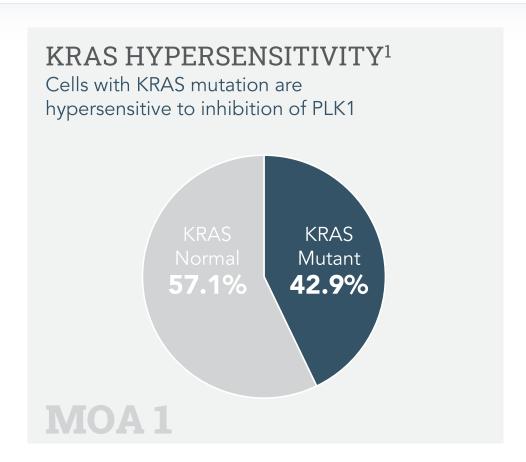
^{1.} Boehringer Ingelheim was developing volasertib plus LDAC for the treatment of AML which did not meet the primary endpoint of ORR (EHA 2016). The data showed an unfavorable overall survival trend with the safety profile of volasertib plus LDAC considered as the main reason. Schoffski et al; European Journal of Cancer 48(2012); 179-186

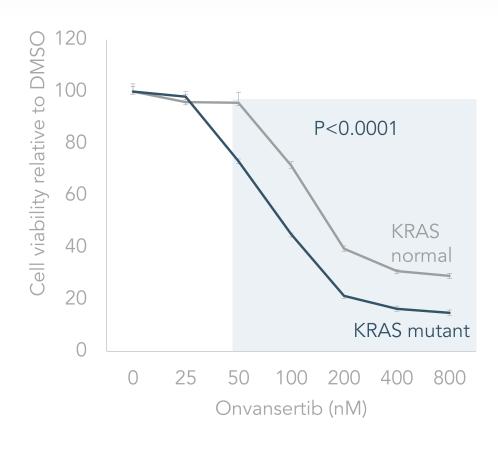
Onvansertib's PLK1 inhibition is a two-pronged attack of tumor cells



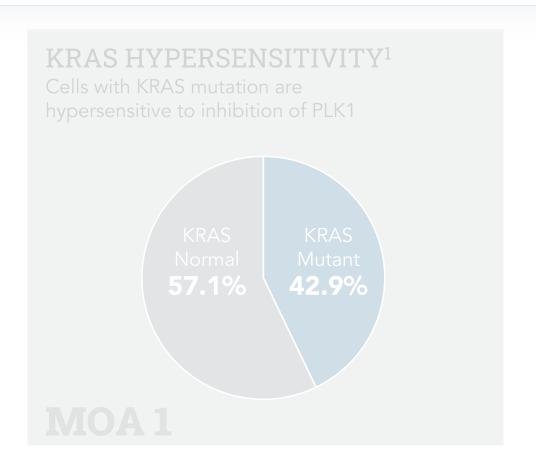


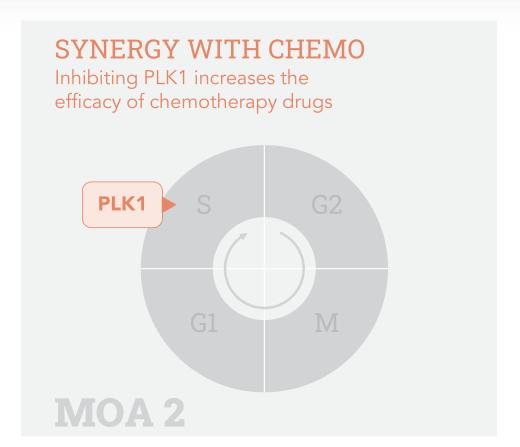
Onvansertib's PLK1 inhibition is a two-pronged attack of tumor cells



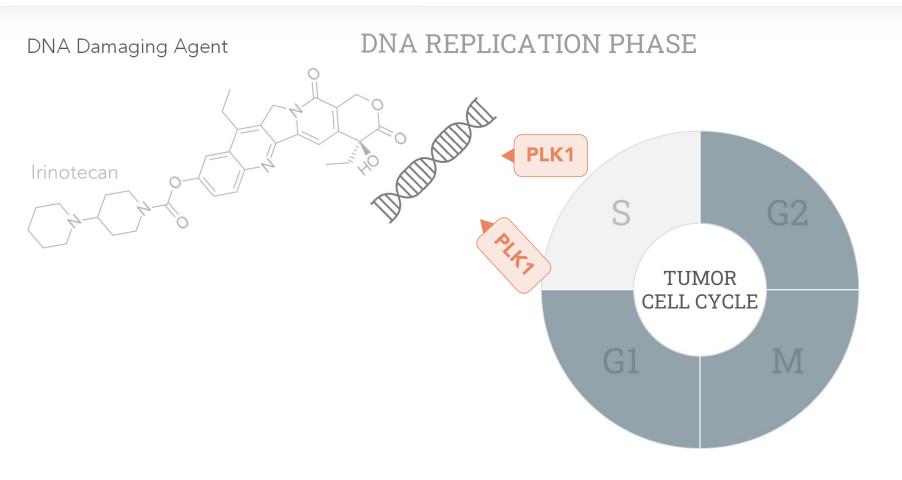


Onvansertib's PLK1 inhibition is a two-pronged attack of tumor cells

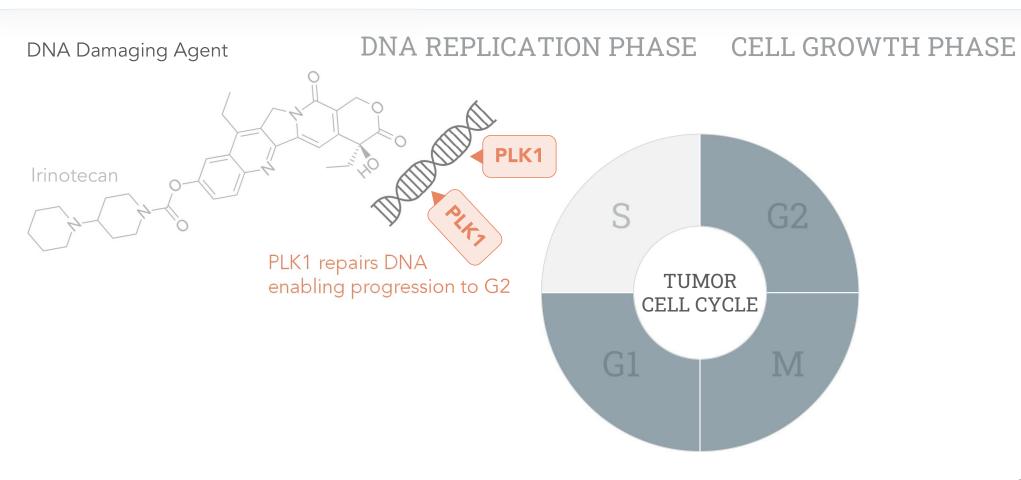




Chemotherapy drugs damage tumor DNA to prevent cell proliferation



PLK1's repair of DNA interferes with chemotherapy drugs



Inhibiting PLK1 prevents DNA repair and halts the cell cycle

Onvansertib inhibits PLK1 preventing DNA repair

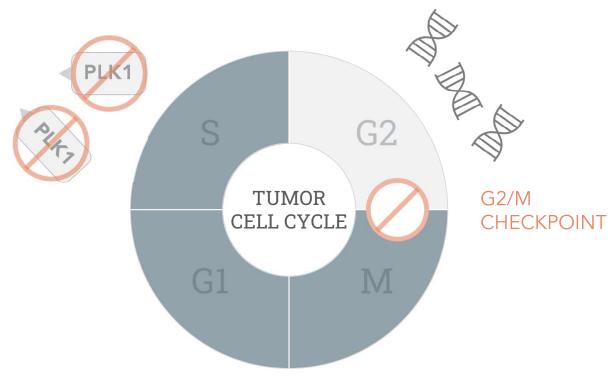
CELL GROWTH PHASE



Inhibiting PLK1 prevents DNA repair and halts the cell cycle

Onvansertib inhibits PLK1 preventing DNA repair and progression from G2 to M

CELL GROWTH PHASE







Our clinical development program supports our key goals

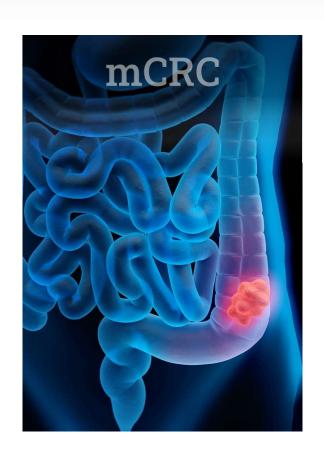


GOALS

- Validate prior mCRC data with a randomized trial
- Demonstrate clinical POC in additional indications



We approach our next trial, a randomized Ph2, with clear objectives





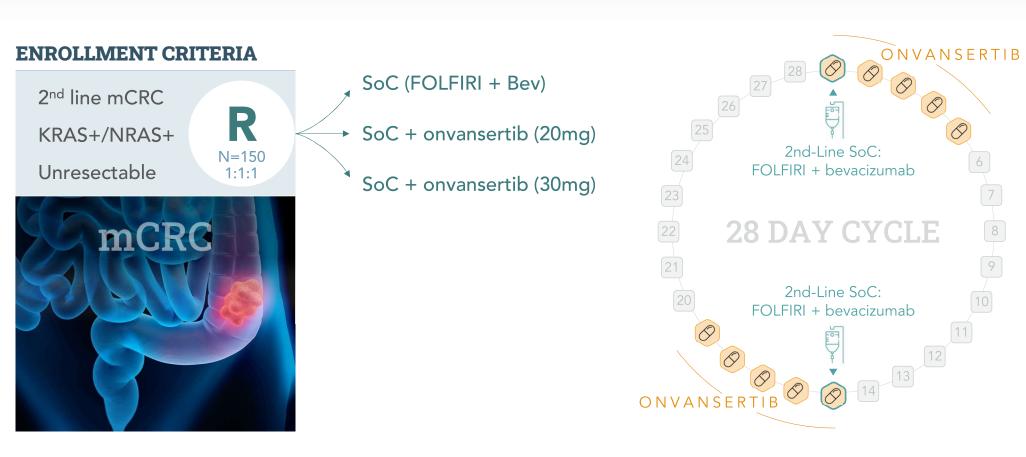
DEMONSTRATE onvansertib's contribution to SoC

CONFIRM optimal dosing

POSITION for possible accelerated approval opportunity

OPERATE with capital efficiency

Our ONSEMBLE Ph2 trial is designed to demonstrate efficacy



Our ONSEMBLE Ph2 trial is designed to demonstrate efficacy

ENROLLMENT CRITERIA

2nd line mCRC KRAS+/NRAS+ Unresectable





ENDPOINTS

Primary Objective Response Rate: CR + PR

Key Secondary Progression-Free Survival

Other Secondary Disease Control Rate: CR + PR + SD

Duration of Response: DoR

Overall Survival: OS

Reduced MAF association with ORR,

PFS, DCR, DoR, OS

ONSEMBLE Stats

Our pipeline opens many attractive opportunities for onvansertib

	Combination with:	Preclinical	Ph1/2	Ph2/3	Status	
mCRC	FOLFIRI/bev			randomized	Activation	ONSEMBLE mCRC Clinical Trial
mCRC	FOLFIRI/bev		single-arm		Enrolling	
mPDAC	Onivyde/5-FU		•		Enrolling	
Ovarian	PARP inhibitors)		Evaluating	

Investigator-	initiated trials			Investigator
TNBC	Paclitaxel	•	Enrolling	Dana-Farber Cancer Institute
SCLC	None (monotherapy)	•	Enrolling	UPMC CHANGING MEDICINE

We believe Pfizer relationship validates the opportunity for onvansertib

Pfizer BREAKTHROUGH GROWTH INITIATIVE

- Onvansertib program validation
- Scientific Advisory Board expertise: Adam Schayowitz, PhD
- Financial investment

SUMMARY TERMS

Announced November 18, 2021

- Pfizer invested a total of \$15M at \$6.22 per share (a 19% premium over prior closing price)
- Right of First Access:
 Pfizer sees onvansertib data 2 days before release

Targeting PLK1 opens doors to large patient populations

Targets with oncogenic alterations

ROS1

RET

KRAS G12C

EGFR

TRK

Targets without oncogenic alterations

PLK1

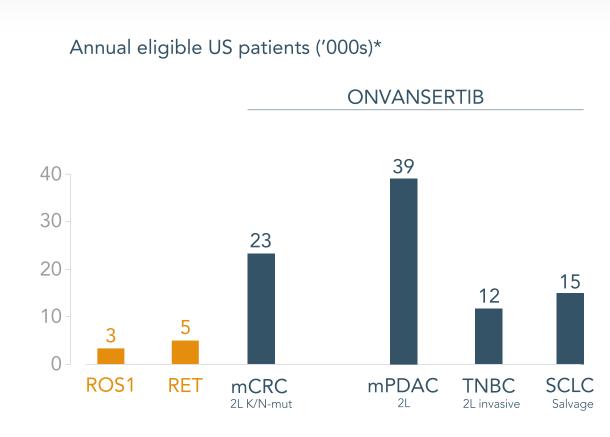
PARP

CDK4/6

PD1/PDL1

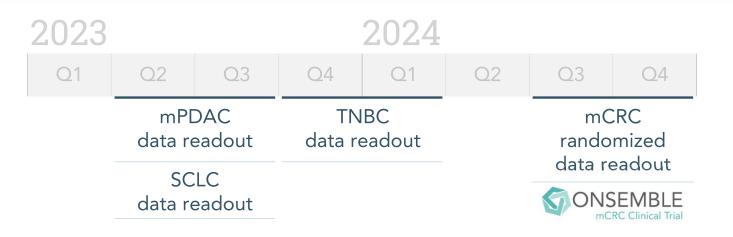
VEGF

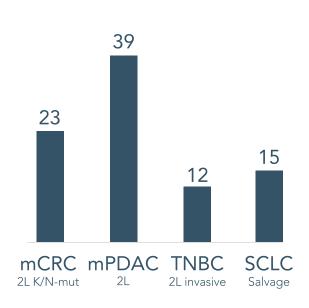
mCRC estimated population includes 2nd line, KRAS- and NRAS-mutated cancers. mPDAC estimated population includes 2nd line PDAC patients. TNBC estimated population includes invasive, 2nd line TNBC patients. SCLC estimated population includes SCLC salvage patients.



^{*}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).

We have multiple important catalysts over the next two years





At June 30, 2022, our financial position is robust



^{*} Financial information above is derived from our unaudited financials in Form 10Q filed on 8/4/22.



KRAS-Mutated Metastatic Colorectal Cancer (mCRC)

Summary of onvansertib mCRC Ph1b/2 trial data over time

	ASCO GI Jan 2021		Event 2021	Investor Jan 2	Webcast 2022	Investor Sept	Webcast 2022
Data Cutoff Date	Nov 1, 2020*	July 2,	, 2021*	Dec 3,	2021*	July 25	, 2022*
	All Doses	All Doses	RP2D	All Doses	RP2D	All Doses	RP2D
Evaluable Patients	14	32	19	48	35	48	35
ORR (CR+PR)	36% (5)	38% (12)	42% (8)	35% (17)	34% (12)	35% (17)	34% (12)
Confirmed CR/PRs	29% (4)	31% (10)	37% (7)	27% (13)	29% (10)	29% (14)	31% (11)
Duration of Response						11.7 mos	12.5 mos
mPFS		9.4 mos		9.4 mos		9.3 mos	8.2 mos
Disease control rate (CR+PR+SD)	86% (12)	94% (30)	100% (19)	92% (44)	94% (33)	92% (44)	94% (33)

^{*} Data releases include certain follow up data and reflect interim data from an ongoing trial and unlocked database.

Onvansertib in combination with FOLFIRI-bev is well-tolerated

No major/unexpected toxicities

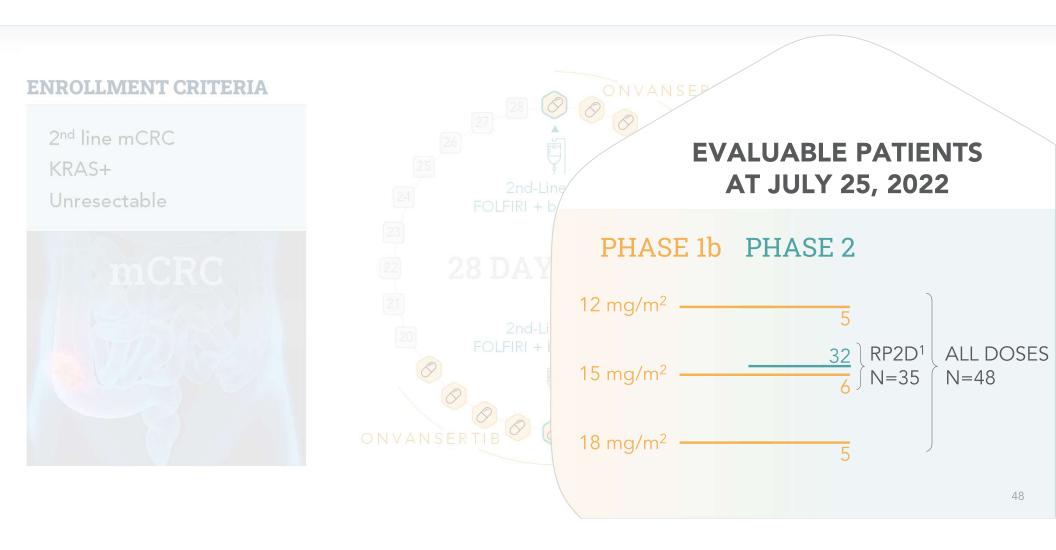
- Of all TEAEs, only 11% (84/788) were G3/G4
- 7 patients had a total of 11 G4 adverse events:
 - Neutropenia (n=7); Decreased WBC (n=2); Neutropenic fever (n=1);
 Hyperphosphatemia (n=1)
- Discontinuation of the 5-FU bolus + use of growth factors ameliorated the severity of neutropenia observed

ioc			GF	RADE					GR	ADE		
165	TEAEs*	1	2	3	4	All	TEAEs*	1	2	3	4	All
	Neutropenia	1	13	15	6	35	Anemia	9	4	1	0	14
	Fatigue	15	15	3	0	33	Vomiting	9	3	1	0	13
	Nausea	24	7	2	0	33	Musculoskeletal Pain†	11	1	0	0	12
	Diarrhea	15	7	2	0	24	Infection [†]	3	4	4	0	11
	Abdominal Pain	13	7	1	0	21	Hemorrhage [†]	8	0	1	0	9
	Mucositis	11	6	2	0	19	Headache	7	0	0	0	7
	Alopecia	17	2	0	0	19	Neuropathy	5	2	0	0	7
	WBC Decrease	6	9	2	1	18	GERD	7	0	0	0	7
	Platelet Count Decrease	10	4	1	0	15	ALT Increase	4	0	1	0	5
	Hypertension	2	8	5	0	15						

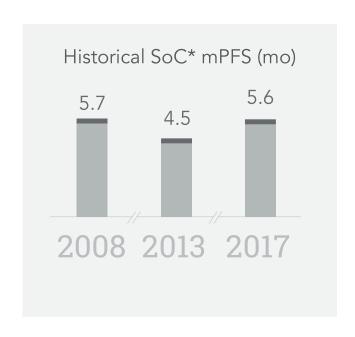
^{*} Data are interim as of July 25, 2022 from an ongoing trial and unlocked database. N: number of patients (total N=50); events shown occurred in ≥10% of patients; numbers indicate number of patients experiencing the event, (regardless of causality); each patient is only counted once and only for the highest grade of a given event. TEAEs: Treatment Emergent Adverse Events

[†] Musculoskeletal pain, infection and hemorrhage are pooled terms

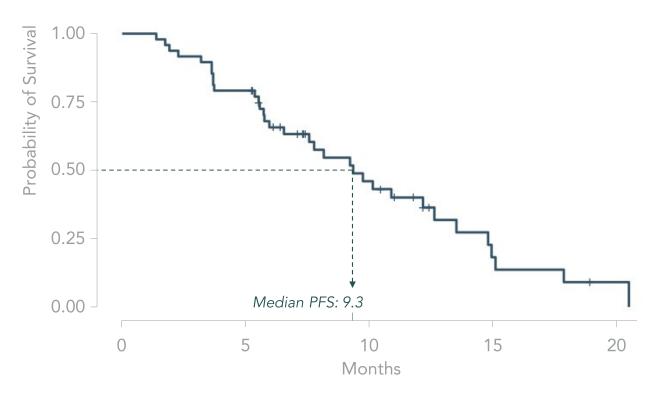
Endpoints measure tumor response and decrease in KRAS burden



Progression Free Survival for mCRC trial exceeds SoC over time



Progression free survival* – all doses (as of July 25, 2022)

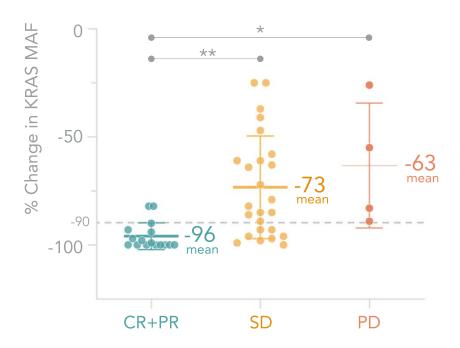


^{*} mPFS is interim data from an ongoing trial and unlocked database.

Early KRAS MAF ctDNA decrease correlates w/ radiographic response

% KRAS Mutant Allelic Frequency (MAF)*

decrease after one 28-day treatment cycle (Mean ±SD, as of July 25, 2022)



Predictive response biomarker

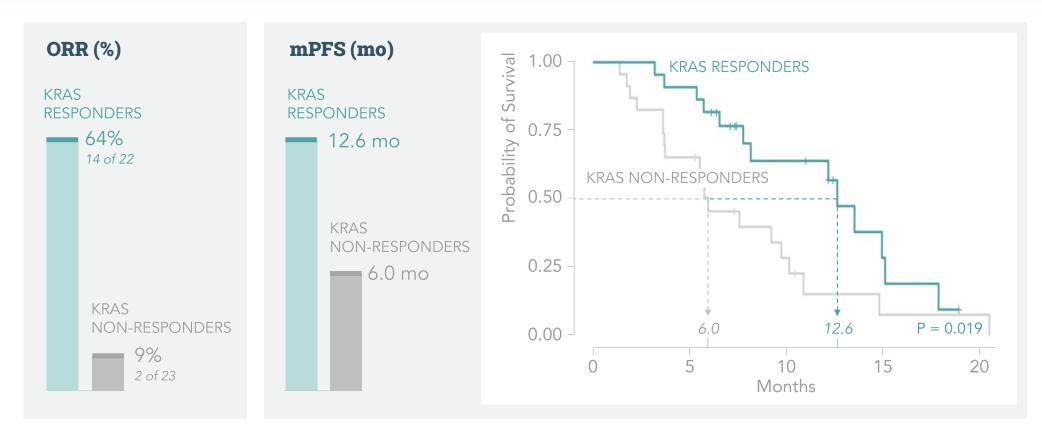
- 45 of the 48 evaluable patients were evaluated for KRAS MAF changes
- 87.5% (14/16) of CR/PR patients had ≥90% decrease in KRAS MAF after the 1st cycle
- 32% (8/25) of SD patients and none of the PD patients (n=4) had such a decrease

KRAS MAF plot reflects interim data as of July 25, 2022 from an ongoing trial and unlocked database.

Onvansertib KRAS MAF are interim data as of July 25, 2022 from an ongoing trial and unlocked database.

^{*} KRAS MAF measured by droplet digital PCR (ddPCR) at baseline (day 1 of cycle 1, pre-dose) and on-treatment (day 1 of cycle 2 pre-dose). 1 PR and 2 SD patients had undetectable KRAS MAF at baseline.

Early Changes in KRAS MAF predicts clinical response



Onvansertib ORR and mPFS are interim data as of July 25, 2022 from an ongoing trial and unlocked database.

Progression-free survival has ranged from 4.5 - 5.7 months

HISTORICAL REFERENCE

PFS	OS		
5.7	11.2	2006 – 2008	ML18147 Phase 3 Registrational Trial FOLFIRI + bev in second-line ¹
4.5	11.5	2000 – 2013	Systematic Literature-Based Analysis of 23 Randomized Trials (10,800 Patients) in Second-Line mCRC ²
5.6	Not reported for 2 nd line	2015 – 2017	TRIBE2 Randomized Phase 3 Trial: SOC arm FOLFIRI + bev in Second-line following FOLFOX + bev First-line ^{3,4}

^{1.} Bennouna et al., Lancet Oncol 2013; 14: 29–37; 2. Giessen et al., Acta Oncologica, 2015, 54: 187-193; 3. Cremolini et al., Lancet Oncol 2020, 21: 497–507; 4, Antoniotti et al., Correspondence Lancet Oncol June 2020. mCRC: metastatic colorectal cancer

Our ONSEMBLE Ph2 trial will be statistically robust

ENROLLMENT CRITERIA





DESIGN

- Randomized with control group exclusively the SoC
- Examine two doses of onvansertib for safety/efficacy
- Stratification within randomization for bev-naïve vs bev exposed
- Efficient and cost effective

STATS

- 80% minimum power to detect a meaningful difference in ORR
- Optimal use of the significance level (alpha 0.045 for each treatment arm vs. control)
- Ability to pool treatment arms for PFS



KRAS-Mutated Metastatic Colorectal Cancer Bevacizumab Subgroup Data

The trial's patient demographics reflects 2nd line mCRC population

Enrollment*

Number of Patients (N)	Phase 1b, Dose Level 0 Onvansertib 12 mg/m²	Phase 1b, Dose Level +1 Onvansertib 15 mg/m²	Phase 1b, Dose Level +2 Onvansertib 18 mg/m²	Phase 2 RP2D Onvansertib 15 mg/m²	Total Patients All Doses
Treated	6	6	6	32	50
Currently on treatment	0	0	0	3	3

Total Patients N=50	Median [range] or n (%)
Age (years)	61 [35-83]
Sex	
Male	28 (56%)
Female	22 (44%)
ECOG	
0	33 (66%)
1	17 (34%)
Primary tumor site	
Colon	27 (54%)
Rectum	18 (36%)
Other	5 (10%)

Total Patients N=50	Median n (%)
Liver metastasis	
None	13 (26%)
Liver and other	27 (54%)
Liver only	10 (20%)
Number of metastatic organs	
1	16 (32%)
≥2	34 (68%)
Prior bevacizumab treatment ⁵	
Yes	35 (70%)
No	15 (30%)

 $^{^{\}star}$ Data are interim as of July 25, 2022 from an ongoing trial and unlocked database, for the first 50 subjects.

Anti-angiogenics, like bevacizumab, combine with 1st and 2nd line SoC

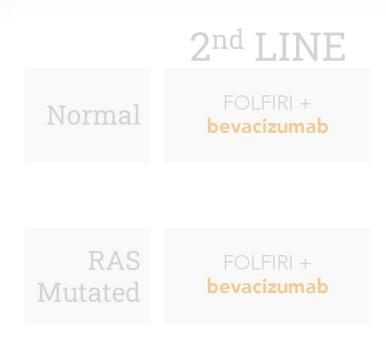


mCRC Ph1b/2 trial

N=50 (48 evaluable)

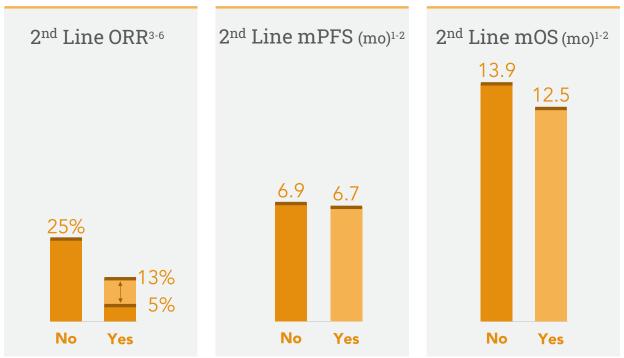
Do 2nd line patients *naïve* to bev show better efficacy than 2nd line patients with *prior* bev in 1st line?

1st line use of bev in prior trials has minimal impact on 2nd line efficacy

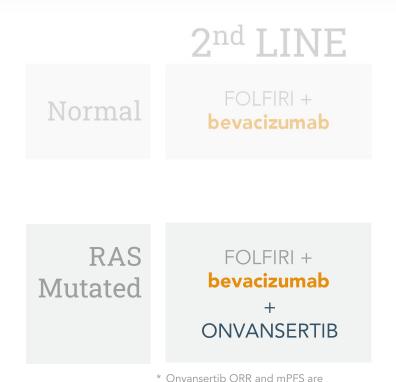


EFFICACY DATA FROM HISTORICAL TRIALS IN mCRC

BEV EXPOSURE IN 1ST LINE?



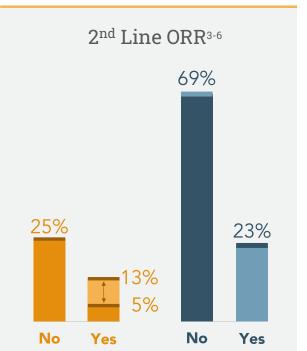
Ph 1b/2 trial bev naïve patients had unexpectedly high ORR and mPFS

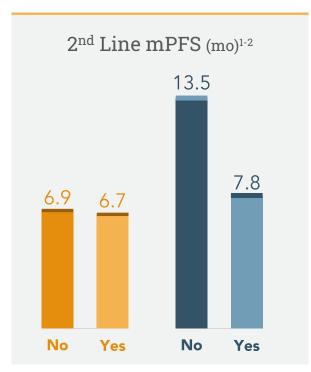


interim data as of July 25, 2022 from ongoing trial and unlocked database.

HISTORICAL CONTROLS VS ONVANSERTIB* Ph 1b/2 DATA

BEV EXPOSURE IN 1ST LINE?





^{1.} Hansen et al., Cancers 2021, 13, 1031; 2. Tabernaro et al. Eur J Cancer, 2014, 50, 320-332; 3. Bennouna et al., Lancet Oncol. 2013, 14, 29–37; 4. Van Cutsem et al., J. Clin. Oncol. 2012, 30,3499–3506; 5. Tabernaro et al., Lancet Oncol 2015; 16: 499–508; 6. Beretta et al., Med Oncol (2013) 30:486.

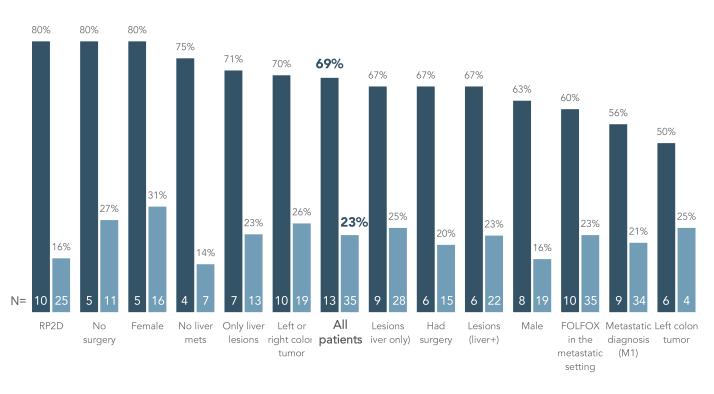
ORR is consistently greater for bev naïve patients across characteristics

No single patient characteristic explains observed ORR difference

BEV EXPOSURE IN 1ST LINE?

	No (naïve)	Yes (exposed)
Range of ORRs	50 – 80%	14 – 31%

ORR (%) for Bevacizumab Naïve vs. Exposed Patients* – as of July 25, 2022



^{*} Onvansertib ORR and mPFS are interim data as of July 25, 2022 from an ongoing trial and unlocked database.

The potential onvansertib bevacizumab synergy is a new opportunity

How should we respond to this observation?

BEV EXPOSURE IN 1ST LINE?

	No (naïve)	Yes (exposed)
All Patients	69% ORR	23% ORR
RP2D	80% ORR	16% ORR

HYPOTHESES

- A. This is a statistical anomaly (small n)?
- B. This is an unexpected onv / bev synergy?

ACTIONS

- 1. Stratify for prior bev exposure within randomization of next mCRC trial
- 2. Explore apparent onv / bev synergy in pre-clinical studies
- 3. Analyze baseline ctDNA in our Ph 1b/2 patients for genomic alterations in bev naïve vs bev exposed

OPPORTUNITY

Conduct a 1st line exploratory mCRC trial of onvansertib + FOLFIRI + bev



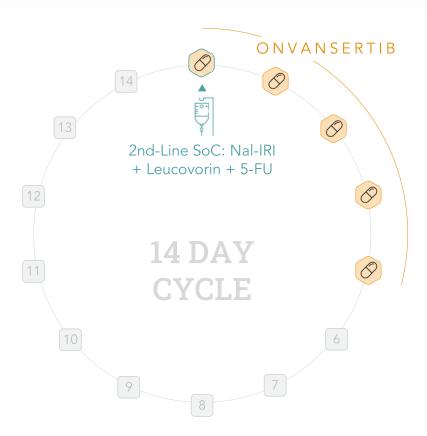
Metastatic Pancreatic Adenocarcinoma (mPDAC)

Our mPDAC Ph2 trial combines onvansertib with standard-of-care

ENROLLMENT CRITERIA

Failed 1st Line Gemcitabine / Abraxane





SINGLE ARM TRIAL

43 patients planned

Can we get a signal that onvansertib complements and improves SoC?

The endpoints measure tumor response and duration of response

ENROLLMENT CRITERIA

Failed 1st Line Gemcitabine / Abraxane



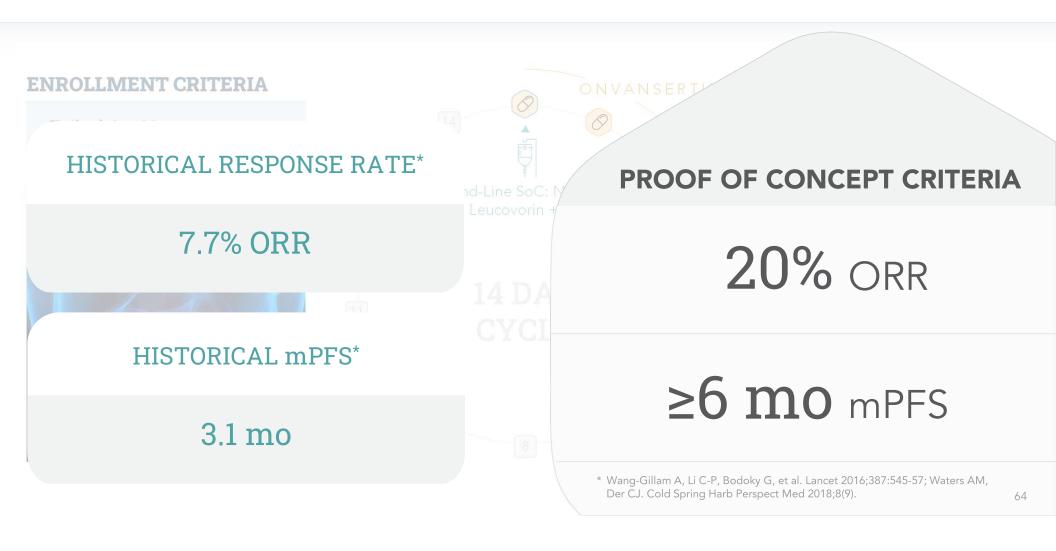


EFFICACY ENDPOINTS

- Primary: Objective Response Rate (ORR) in patients who receive ≥28-days of treatment
- 2 Secondary: Duration of Response (DOR) and Overall Survival (OS)
- 3 Exploratory: Identification of biomarkers related to sensitivity and resistance to treatment using patient-derived organoids, blood samples, and archival tissue biopsies

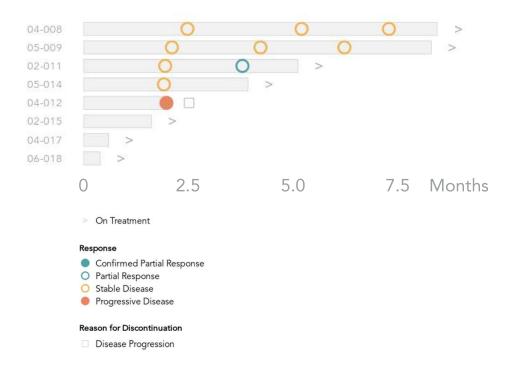
63

mPDAC trial is designed to demonstrate onvansertib's efficacy vs SoC

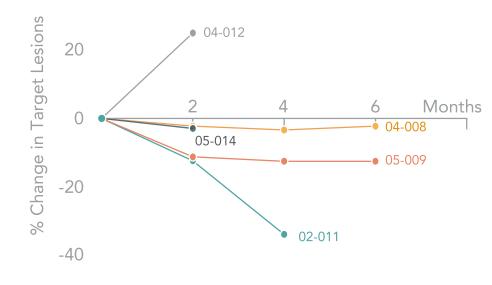


Early data from our mPDAC trial data is encouraging

Swimmer plot* – as of August 30, 2022



Change in tumor size from baseline*



Swimmer and spider plots reflect interim data as of August 30, 2022 from an ongoing trial and unlocked database

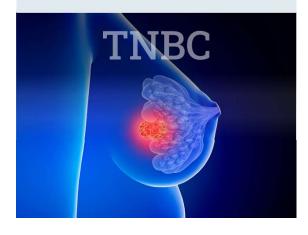


Investigator-Initiated Trial
Triple Negative Breast Cancer (TNBC)

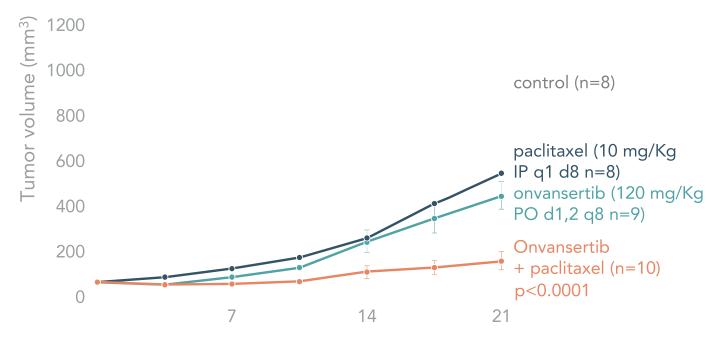
Onvansertib + paclitaxel is superior to single agent therapy

TRIAL RATIONALE

The combination of onvansertib + paclitaxel showed significant synergy



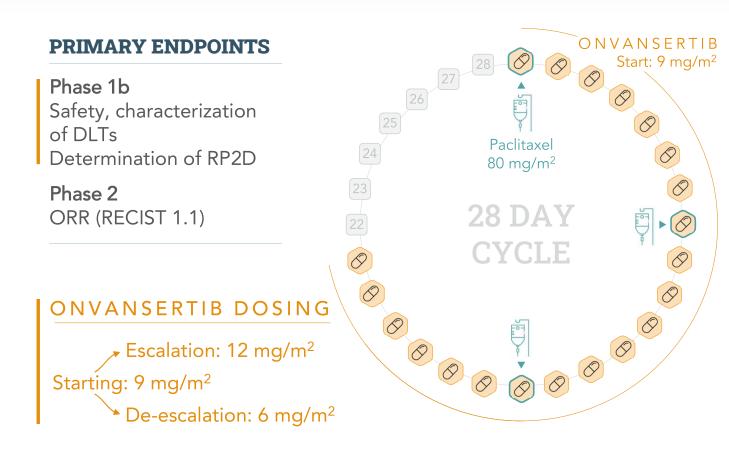
In vivo efficacy of onvansertib in combination with paclitaxel Tp53-Mutant SUM159 xenografts*



^{*} SUM159 cells were implanted in the mammary fat pad of NOD-scid-IL2 receptor gamma null female mice, and treatments began as follows when tumor volume reached 40 mm3: vehicle, onvansertib oral (PO) twice per week (days 1-2), paclitaxel intraperitoneally (IP) weekly (day 1), or the combination.

This is the first trial to explore onvansertib + paclitaxel combination

Metastatic TNBC relapsed or progressed Single arm trial Ph 1b: N=14-16 Ph 2: N=34 Dana-Farber Cancer Institute



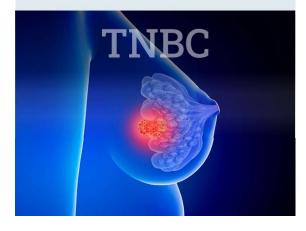
This is the first trial to explore onvansertib + paclitaxel combination

ENROLLMENT CRITERIA

Metastatic TNBC relapsed or progressed

Single arm trial Ph 1b: N=14-16

Ph 2: N=34



PRIMARY ENDPOINTS

Phase 1b

Safety, characterization of DLTs

Determination of RP2D

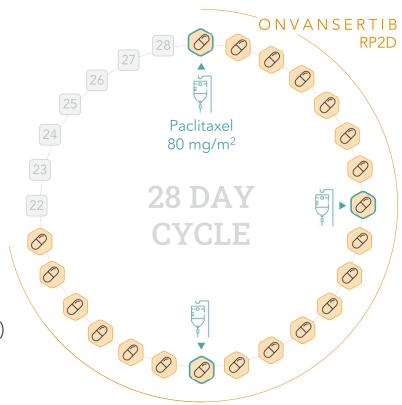
Phase 2

ORR (RECIST 1.1)

SECONDARY ENDPOINT

Phase 2

Progression-Free Survival (PFS)





Investigator-Initiated Trial Small Cell Lung Cancer (SCLC)

Onvansertib demonstrates single-agent activity in SCLC

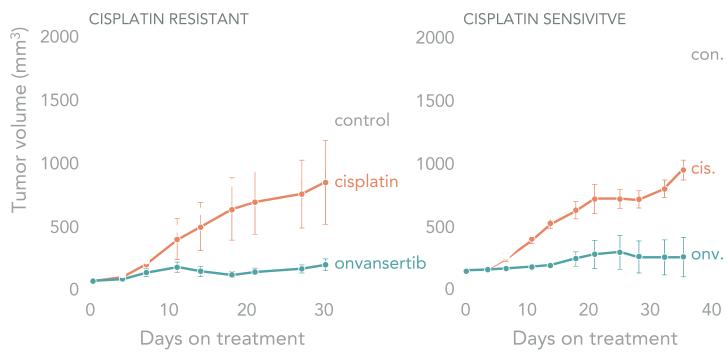
TRIAL RATIONALE

Onvansertib monotherapy showed significant tumor growth inhibition against platinum-sensitive and -resistant models



OFF

In vivo efficacy of onvansertib monotherapy (SCLC xenografts)*



 $Mice\ were\ implanted\ with\ SCLC\ PDX\ and\ treated\ with\ vehicle,\ cisplatin\ 3mg/kg\ IP\ weekly,\ or\ onvansertib\ oral\ 60mg/kg\ 10\ ON\ /\ 4$

This is the first trial to explore onvansertib monotherapy

ENROLLMENT CRITERIA

Relapsed who have received ≤ 2 prior therapies

Single-arm trial Stage 1: N=15

Stage 2: N=20





PRIMARY ENDPOINT

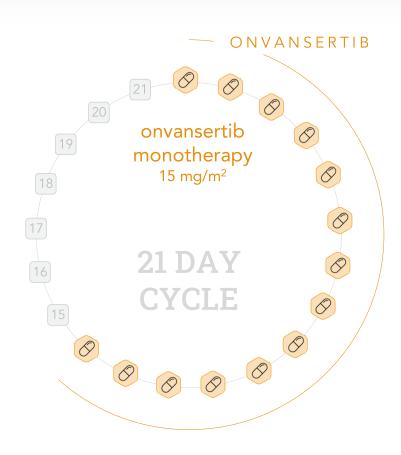
Phase 2
ORR (RECIST 1.1)

SECONDARY ENDPOINTS

Phase 2

Progression-Free Survival (PFS)

Overall Survival (OS)

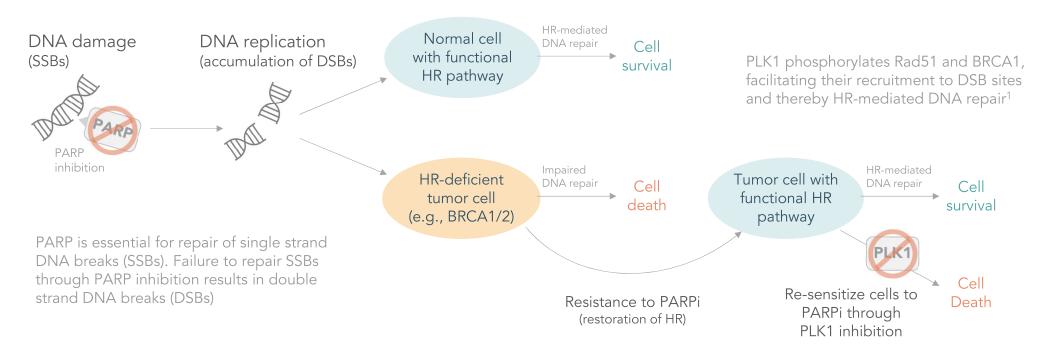




PARPi Pre-Clinical Data

PLK1 inhibition re-sensitizes tumor cells to PARP inhibition

Onvansertib + PARP inhibitors

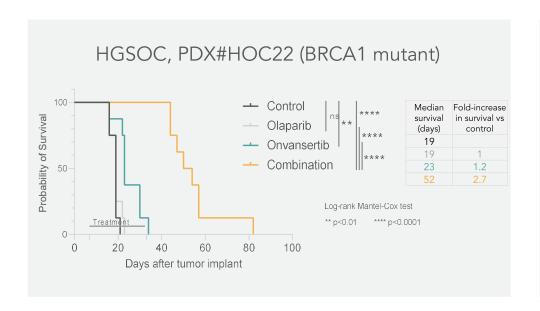


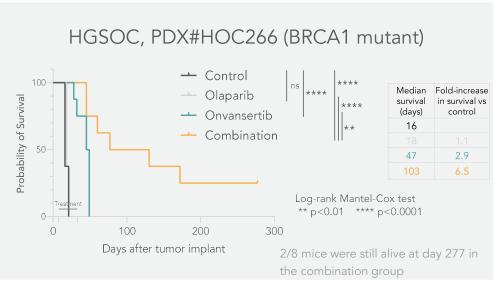
^{1.} Yata et al. Mol. Cell 45, 371-383, 2012; Chabalier-Taste et al., Oncotarget 2016 Jan 19; 7(3): 2269-83; Peng et al., NAR 2021,49(13):7554-7570. HR: Homologous recombination; PARPi: PARP inhibitor

Preclinical studies demonstrate the benefit of PLK1 + PARP inhibitors

Onvansertib + PARP inhibitors*

Ovarian BRCA1 mutant PARPi-resistant PDX models





^{*} Tumor cells (#HOC22 and #HOC266) were intraperitoneally transplanted and mice were treated for 4 weeks with vehicle, onvansertib, olaparib or the combination of onvansertib + olaparib. In collaboration with Giovanna Damia (IRFM, Italy). HGSOC: high grade serous ovarian cancer; PARPi: PARP inhibitor