

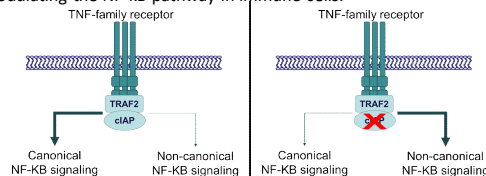
480P – CATRIPCA - A Phase 1 of pembrolizumab combined with xevinapant (Debio 1143) in patients (pts) with non MSI-high advanced/metastatic pancreatic ductal adenocarcinoma (PDAC) or colorectal cancer (CRC).

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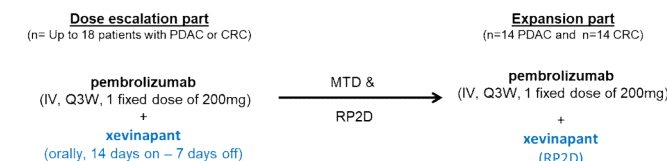
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RATIONALE

Xevinapant is a potent, oral, small-molecule IAP (inhibitor of apoptosis protein) inhibitor. Preclinical data suggest that IAP inhibition may synergize with immune checkpoint blockers (ICB) by modulating the NF- κ B pathway in immune cells.

**STUDY DESIGN**

- 3+3 dose escalation design, 21-day DLT window.
- Adverse Event (AE) graded according to NCI CTCAE v5.0
- DLT definition:** grade 4 non-laboratory AEs, grade 3 non-laboratory AEs lasting more than 7 days, and grade 3-4 laboratory AEs requiring medical intervention (including hematological AEs) or lasting more than 7 days,

**Key eligibility criteria:**

- Adult pts with non-MSI-H advanced/ metastatic PDAC or CRC. ECOG Performance Status (PS) 0 or 1.
- At least one prior line of chemotherapy for advanced disease.
- Adequate organ function.

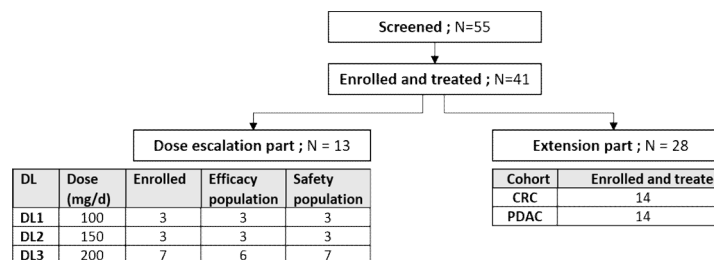
[ClinicalTrials.gov Identifier: NCT03871959]

BASELINE CHARACTERISTICS

	DOSE ESCALATION PART N=13	EXTENSION PART N=28	ALL N=41
Gender			
Male	7 (53.8%)	19 (67.9%)	26 (63.4%)
Female	6 (46.2%)	9 (32.1%)	15 (36.6%)
Age at ICF signature			
Mean (std)	63.8 (8.8)	62.4 (8.5)	62.9 (8.5)
Median (min; max)	65.0 (50; 80)	63.5 (42; 82)	64.0 (42; 82)
ECOG performance Index			
0	3 (23.1%)	3 (10.7%)	6 (14.6%)
1	10 (76.9%)	25 (89.3%)	35 (85.4%)
Primary tumor site			
Colorectal adenocarcinoma	8 (61.5%)	14 (50.0%)	22 (53.7%)
Pancreatic adenocarcinoma	5 (38.5%)	14 (50.0%)	19 (46.3%)
PRIOR THERAPY			
Surgery of the primary tumor			
Yes	9 (69.2%)	15 (53.6%)	24 (58.5%)
Radiotherapy of the primary tumor			
Yes	2 (15.4%)	4 (14.3%)	6 (14.6%)
Number of prior chemotherapy lines (for advanced disease)			
≤ 2	2 (15.4%)	14 (50.0%)	16 (39.0%)
≥ 3	11 (84.6%)	14 (50.0%)	25 (61.0%)
Number of metastatic site(s) at inclusion			
≤ 2	3 (23.1%)	15 (53.6%)	18 (43.9%)
≥ 3	10 (76.9%)	13 (46.4%)	23 (56.1%)
Liver metastases	10 (76.9%)	26 (92.9%)	36 (87.8%)
Peritoneal metastases	6 (46.2%)	7 (25.0%)	13 (31.7%)

Table 1: Patient's characteristics at baseline.

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STUDY POPULATION

Thirteen pts (7M/6F, median age, 65 y [range, 50-80y]) were enrolled in 3 dose levels (DL) (X 100 and 150mg/d: 3 pts each and X 200mg/d: 7 pts). One pt who received less than 10 doses of xevinapant during cycle 1 was considered non-evaluable for DLT at DL3 and efficacy, and was replaced.

SAFETY DATA

No DLT was observed during dose-escalation.

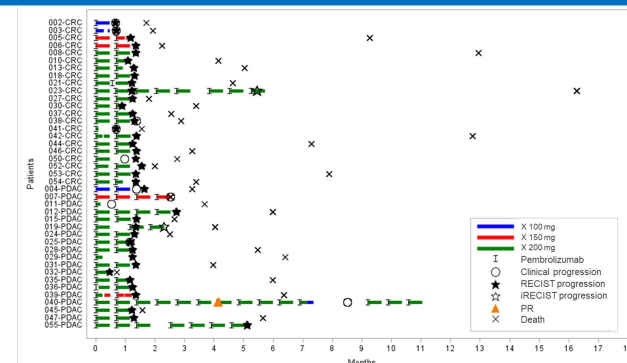
Thirty-six (88%) pts had at least one AE related to xevinapant and/or pembrolizumab. Fifteen pts (37%) presented at least one immune-related adverse event (irAE). IrAEs were grade 1-2, except three grade 3 (stomatitis, myocarditis and rash). The most frequent irAE was rash (6 patients -15%-)

GRADE	DOSE ESCALATION PART All N=13		EXTENSION PART				ALL N=41	
	Grade 1-2	Grade 3-4	CRC N=14	PDAC N=14	Grade 1-2	Grade 3-4	Grade 1-2	Grade 3-4
NAUSEA	3 (23.1%)	0	3 (21.4%)	0	4 (28.6%)	0	10 (24.4%)	0
STOMATITIS	0	0	3 (21.4%)	0	1 (7.1%)	1 (7.1%)	4 (9.8%)	1 (2.4%)
FATIGUE	8 (61.5%)	0	3 (21.4%)	0	3 (21.4%)	1 (7.1%)	14 (34.1%)	1 (2.4%)
LIPASE INCREASED	2 (15.4%)	1 (7.7%)	0	1 (7.1%)	1 (7.1%)	0	3 (7.3%)	2 (4.9%)
DECREASED APPETITE	5 (38.5%)	0	6 (42.9%)	0	4 (28.6%)	0	15 (36.6%)	0
PRURITUS	1 (7.7%)	0	3 (21.4%)	0	4 (28.6%)	0	8 (19.5%)	0
DRY SKIN	2 (15.4%)	0	0	0	4 (28.6%)	0	6 (14.6%)	0
RASH	1 (7.7%)	1 (7.7%)	2 (14.3%)	0	2 (14.3%)	0	5 (12.2%)	1 (2.4%)

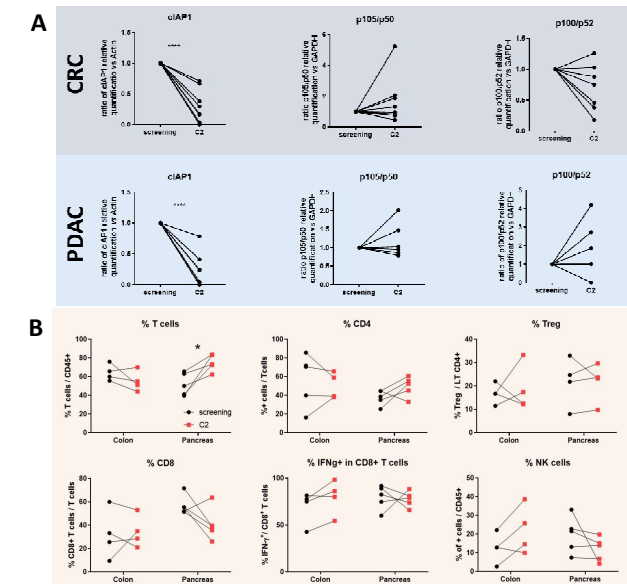
Table 2: All treatment-related AEs observed in more than 10% of pts

	DOSE ESCALATION PART		EXTENSION PART			ALL N=41
	All N=13		CRC N=14	PDAC N=14	All N=28	
EOSINOPHILIA	1 (7.7%)	1 (7.1%)	1 (7.1%)	2 (7.1%)	3 (7.3%)	
MYOCARDITIS	1 (7.7%)	0	0	0	1 (2.4%)	
HYPERTHYROIDISM	1 (7.7%)	1 (7.1%)	1 (7.1%)	2 (7.1%)	3 (7.3%)	
ADRENOCORTICOTROPIC HORMONE DEFICIENCY	0	1 (7.1%)	1 (7.1%)	2 (7.1%)	2 (4.9%)	
HYPOTHYROIDISM	0	0	2 (14.3%)	2 (7.1%)	2 (4.9%)	
THYROIDITIS	1 (7.7%)	0	0	0	1 (2.4%)	
STOMATITIS	0	0	1 (7.1%)	1 (3.6%)	1 (2.4%)	
CONJUNCTIVITIS	1 (7.7%)	0	0	0	1 (2.4%)	
RASH	2 (15.4%)	2 (14.3%)	2 (14.3%)	4 (14.3%)	6 (14.6%)	
PRURITUS	1 (7.7%)	0	2 (14.3%)	2 (7.1%)	3 (7.3%)	

Table 3: Immune-related AEs

EFFICACY DATA

Of 40 patients (escalation+expansion) with RECIST-evaluable disease, one patient with PDAC achieved a confirmed PR (in expansion), 4 patients had SD, while 35 patients had PD as their best response.

PHARMACODYNAMIC DATA

Target modulation in paired tumor samples: cIAP1 down-modulation (assessed using western blotting) was seen in all cases, but NF- κ B modulation (also WB) was variable (panel A). Changes in immune cell types assessed by flow cytometry on fresh tumor samples were also variable although an increase in CD4 T cells was observed in PDAC (panel B). (biopsies were performed during screening and at cycle 2, day 8 (C2)). **Pharmacokinetic analysis is on-going.**

CONCLUSION

The combination of xevinapant 200 mg qd 14 days on/7 days off and pembrolizumab 200 mg IV q3wk was overall well tolerated with no safety signal. The overall anti-tumor activity was low. Biomarker analyses are on-going.