Poster BOLD-100-001: A Phase 2 Study of BOLD-100 in Combination with FOLFOX in Advanced mCRC **44**P Patients that have Failed at Least Two Prior Lines of Therapy

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Background

- Metastatic colorectal cancer (mCRC) is the second leading cause of cancer related deaths worldwide, with median overall survival ranging from 6-10 months after progressing on standard first and second-line therapy.^{1,2}
- BOLD-100 is a first-in-class ruthenium-based anticancer agent in development for the treatment of gastrointestinal (GI) cancers.
- BOLD-100 is currently being tested in a Phase 2 clinical trial combination with standard-of-care FOLFOX in patients with advanced GI cancers (NCT04421820) and has potential in a range of solid and liquid cancer indications.³
- BOLD-100 exerts its function via the modulation of the unfolded protein downregulation, with secondary mechanistic pathways including generation of reactive oxygen species, DNA damage, modulation of lipid metabolism, and interactions with ribosomal proteins.
- Here, we present efficacy and safety data in patients with heavily pretreated, advanced metastatic colorectal cancer (mCRC) who have received prior treatment in the metastatic setting.

Obiective

To assess the safety, and efficacy, including progression-free survival (PFS), overall survival (OS) and overall response rate (ORR) of BOLD-100 in combination with FOLFOX in patients with mCRC enrolled into the BOLD-100-001 study



FOLFOX regimen: oxaliplatin 85 mg/m² IV Q2W; leucovorin 400 mg/m² IV Q2W; and 5-FU 2400 mg/m² (continuous 46-hour infusion). 5-FU, 5-fluorouracil; IV, intravenously; Q2W, once every 2 weeks; Gr, Grade; RP2D, Recommended phase 2 dose; ≥2, Second-line and beyond; PK/PD: pharmacokinetic/pharmacody

STATISTICAL ANALYSIS

- Safety analyses included all patients who received ≥1 dose of any study drug
- Efficacy analyses included all patients who had a baseline and ≥1 postbaseline assessment or discontinued study treatment due to progressive disease or death
- Clinical activity was assessed via RECIST v1.1 criteria
- Disease control rate (DCR) was defined as the percentage of patients with a best overall response of complete response (CR) partial response (PR), or stable disease (SD)
- A Bayesian statistical approach was used in this study.
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Results

in months

- As of the data cut-off date, March 14, 2024, 1 participant with stage III (3%) and 37 participants with stage IV (97%) disease were enrolled and treated in the third-line and beyond study
- Baseline demographic and disease characteristics are reported in Table 1
- was 6 (range: 1 18).
- Participants had a median (range) of 4 (2, 8) prior therapies before enrollment into the BOLD-100-001 trial
- All participants had microsatellite stable disease (MSS)

 Table 1. Demographics and Disease Characteristics

		Any PT	97% 66%	53%	92%
Characteristic	(N = 38)	Neutrophil count decreased	50% 45%	42%	47%
Age, median (range)	62 (40-78)	Nausea	42%	42%	
Male, n (%)	18 (47)	Fatigue	26%	21%	
Race, n (%)		Constinution	26%	21%	(
White	10 (26)	Infusion related reaction	24%	21%	
Asian	27 (71)	Diarrhoea	18%	8%	
American Indian or Alaska Native	1 (3)	Pruritus	18%	16%	
ECOC BS n (%)	1 (0)	Decreased appetite	18%	8%	
ECOG F3, II (<i>%</i>)		Pyrexia	13%	8% 11%	
0	10 (26)	Anaemia	13%	8%	
1	28 (74)	Stomatitis	13%	13%	
Tumer Cidednesse n (%)	- ()	Abdominal pain	8%	3% Al	ll Grades
Tumor Sideaness, n (%)		Platelet count decreased	11%	11% Gi	rade ≥3
Left	23 (61)	Oedema peripheral	8%	3%	
Right	10 (26)	100	75 50 25 0 Patier) 25 nts (%)	50 75 100
Unknown	5 (13)	Data are reported as number of patients Activities (MedDRA) with severity grade Terminology Criteria for Adverse Events	 s, n (%). a. All AEs were recorded using d by investigators according to the Nat s (NCI CTCAE) version 5.0. 	the Medical Diction ional Cancer Institu	ary for Regulatory te Common
Lines of prior therapy for metastatic or locally advanced disease, median (range)	4 (2-8)	Table 2. Safety Pro	file	(N =	: 38)
Previous systemic therapy, n (%)		Any TEAE, n (%)		37 ((97)
Fluoropyrimidine-based	38 (100)	Any TRAE, n (%)			
Ovaliniatin based	20 (100)	Grade 1-2		35 ((92)
Oxalipiatin-based	38 (100)	Grade 3-4		20 ((53)
Anti-VEGF	30 (80)	Grade 5		0 ((0)
Anti-EGFR	12 (32)	Any Serious Adverse E	ivent, n (%)	7 (*	18)
Regorafenib and/or TAS-102	17 (45)	Most common TRAEs	Al b n (%)	l Grades	Grade ≥3
DD 1/DD 11 inhibitor	10 (22)	Neutronhil count de		18 (47)	16 (42)
	12 (32)	Nausea		16 (42)	0(0)
Stage IV disease, n (%)	37 (97)	Fatique		8 (21)	0(0)
Time since diagnosis of metastatic disease,	31.9	Vomiting		8 (21)	0(0)
median (range)	(7.5, 123.2)	Infusion-related rea	action	8 (21)	0(0)
PS: performance score; PD-1/PD-L1: programmed cell death protein 1/programmed death-lig vascular endothelial growth factor; EGFR: epidermal growth factor receptor; TAS-102: trifluric	and 1; anti-VEGF inhibitor: line/tipiracil; Time represented	^b TRAE's were most common if prevalen	ice was n, (%) ≥20%	- (- ·)	

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Figure 1 includes safety information from the treatment combination. Treatment was well tolerated. Of the 38 treated pts, 35 had 1 or more treatment-related adverse events (TRAEs), most common neutropenia (n=18, 47%), nausea (n=16, 42%), vomiting (n=8, 21%), fatigue (n=8, 21%), infusion related reaction (n=8, 21%), and pruritus (n=6, 16%). neutrophil count decrease. Despite previous oxaliplatin treatment, fewer than 5% of pts reported peripheral neuropathy; those reported were G1/2.

• The median (range) number of cycles of BOLD-100 + FOLFOX cycles Most related AEs were grade (G) 1-2. Sixteen pts (42%) had G3/4

SAFETY

Figure 1. Summary of Treatment-Emergent Adverse Events (TEAEs) and Treatment-Related Adverse Events (TRAE's)^a





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neuropathy indicating improved tolerability of the BOLD-100 combination.