MACROGENICS®

Developing Breakthrough Biologics, Life-changing Medicines

Corporate Update

June 13, 2024

Legal Notices

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Investigational Agents

The safety and efficacy of investigational agents and/or investigational uses of approved products have not been established.



Unique Capabilities to Develop Next Generation Antibodies for Treating Cancer



(a) See data slides previously presented (and included in this deck) that relate to both vobramitamab duocarmazine and lorigerlimab.

- (b) TZIELD® was sold to Provention Bio (Sanofi) and is marketed by Sanofi; ZYNYZ™ was licensed to, and is marketed by, Incyte.
- (c) The "Help Elucidate & Attack Longitudinally" (HEAT) neo-adjuvant prostate cancer study is an investigator-sponsored trial.

Multiple Opportunities to Impact Treatment Paradigm in Prostate Cancer

Prostate cancer remains 2nd leading cause of cancer death in U.S. (34.7k deaths in 2023^(a))

Vobra Duo (ADC)

T[‡]MARACK

- Early interim mCRPC safety data (√ April 4)
 Updated interim safety & prelim. efficacy (√ May 9)
- Updated clinical data, including rPFS (exp. 2H24)

Lorigerlimab (Bispecific Checkpoint)



Randomized Phase 2 in mCRPCTrial update expected in 1H25

Enoblituzumab (Fc-optimized mAb)

HEAT

Phase 2 IST in neoadjuvant PCInitiated 1Q24

Multiple potential first-in-class programs

Incorporate cutting-edge platform technologies

Complementary MoAs

Combine with SoC and other internal assets





Deep and Differentiated Proprietary Pipeline with Retained Commercial Rights

Program (Target)	Potential Indication(s)	Modality/ Platform	Preclinical	Phase 1	Phase 2	Phase 3	Partner / Sponsor
	mCRPC T[‡]MARACK Study	ADC					
Vobramitamab Duocarmazine (87-H3)	NSCLC, SCLC, Melanoma, SCCHN, Anal Cancer	ADC	Initiation pla	anned mid-2024			
(87-113)	Multiple Solid Tumors (+lorigerlimab)	ADC + DART®					
Lorigerlimab (PD-1 × CTLA-4)	mCRPC (+ <i>docetaxel</i>) 2007	DART					
Enoblituzumab (B7-H3)	Neo-adj. Prostate Cancer HEAT Study ^(a)	Fc-optimized mAb					JOHNS HOPKINS
Tebotelimab ^(b) (PD-1 × LAG-3)	Solid Tumors & Heme Malignancies	DART					
MGC026 (B7-H3)	Multiple Solid Tumors	ADC					
MGC028 (ADAM9)	Multiple Solid Tumors	ADC					

The safety and efficacy of investigational agents and/or investigational uses of approved products have not been established. Pipeline reflects current status of each program or most recently completed phase of development. (a) The "Help Elucidate & Attack Longitudinally" (HEAT) study is an investigator-sponsored trial. (b) MacroGenics currently has no active/ongoing tebotelimab studies.



Partnered Programs: Potential Future Cash Flow & Platform Validation

Program (Target)	Potential Indication(s)	Modality/ Platform	Preclinical	Phase 1	Phase 2	Phase 3	Marketed	Partner
MARGENZA® (HER2)	HER2+ Metastatic Breast Cancer	Fc-optimized mAb						EVERSANA (a)
	Merkel Cell Carcinoma	mAb						
ZYNYZ® (PD-1)	Squamous Cell Anal Carcinoma	mAb						Incyte
	Non-Small Cell Lung Cancer	mAb						
TZIELD®	Stage 2 "At Risk" T1D	mAb						sanofi
(CD3)	Stage 3 "Early Onset" T1D	mAb						
PRV-3279 (CD32B × CD79B)	Systemic Lupus Erythematosus	DART						sanofi
MGD024 (CD123 × CD3)	CD123+ Heme Malignancies	DART						Exclusive Option
Bispecific (Undisclosed)	Multiple Solid Tumors	DART/TRIDENT®						🚺 GILEAD

\$335M Non-dilutive funding achieved since mid-2022, with >\$1B in potential milestones remaining from Sanofi and Incyte

The safety and efficacy of investigational agents and/or investigational uses of approved products have not been established. Pipeline reflects current status of each program or most recently completed phase of development. (a) MacroGenics entered risk-sharing collaboration with Eversana in November 2020, under which MacroGenics books U.S. sales and Eversana leads execution of U.S. commercialization of MARGENZA. For all other currently partnered programs for which a license option has been exercised, the partner would book any future worldwide sales, if approved, and MacroGenics would be entitled to receive milestones and royalties.



Uniquely Positioned to Develop Best-in-Class Antibody-Drug Conjugates



Vobra Duo M

ab MGD

Vobra Duo: Antibody-Drug Conjugate with Duocarmycin-based Linker Payload

Encouraging interim TAMARACK safety and preliminary efficacy data

В7-Н3	В7-НЗ	Function/ MoA	 ADC that delivers potent duocarmycin payload to dividing and non-dividing B7-H3-expressing cells Cleavable peptide linker facilitates bystander effect Not subject to multi-drug resistance (MDR)
		Clinical Results	 Interim TAMARACK Phase 2 updated safety and preliminary efficacy data disclosed May 9
	Drug Linker and Payload DAR ~2.7	Anticipated Milestones	 Updated TAMARACK clinical data, including rPFS, exp. 2H24 Plan to initiate additional dose expansion indications in NSCLC, SCLC, melanoma, SCCHN and anal cancer (mid-2024) Progress enrollment of combination study with lorigerlimab
lgG1			

Duocarmycin payload and cleavable peptide linker technology was licensed from Byondis, B.V., The Netherlands. mCRPC = metastatic castration-resistant prostate cancer. Vobramitamab duocarmazine (vobra duo, previously known as MGC018) is investigational and has not yet been approved for marketing by any regulatory authority.

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8

Vobra Duo: mCRPC Phase 2 Study Design Summary





(a) Participants who received an additional taxane or second ARAT (androgen receptor axis-targeted agent [abiraterone, enzalutamide]) for <60 days as bridging therapy while awaiting lutetium-177 vipivotide tetraxetan are also eligible. Other prior chemotherapy for prostate cancer is not allowed. mCRPC=metastatic castration-resistant prostate cancer; ORR=objective response rate; PSA=prostate-specific antigen; Q4W=every 4 weeks; R=randomize; rPFS=radiographic progression-free survival.

Data Cut-off: April 12, 2024



10

Key strengths of interim data

(disclosed June 13, 2024, based on April 12, 2024 data cut-off; median # cycles = 5)

Initial interim efficacy data in line with targeted parameters outlined for study in 2023:

- PSA50 ~37-44% confirmed across 2.0 and 2.7 mg/kg dose cohorts (50-51% including unconfirmed)
- ORR ~18-25% confirmed across 2.0 and 2.7 mg/kg dose cohorts (24-44% including unconfirmed)
- Disease Control Rate (DCR) ~90%

Manageable safety observed through interim April 12 data cut-off

 Rates of Grade ≥3 TRAEs and TEAEs leading to drug discontinuation, dose reductions and drug interruptions at 16 weeks **compare favorably** with those from similar period in Phase 1 dose expansion study^(a)

Vobra Duo



Final safety, efficacy and durability data, including study's primary endpoint of rPFS

ADCs that target B7-H3 (including vobra duo) are biologically active in advanced disease setting; vobra duo's duocarmycin payload can significantly alter tumor growth and progression

(a) 16-week comparable data from vobra duo Phase 1 dose expansion study has not yet been published. Most recent data presented from Phase 1 study was at ESMO 2021.

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TAMARACK Phase 2 Interim Data Overview

Management's view



Vobra Duo

T[‡]MARACK

Baseline Patient Characteristics of ITT Population

Parameter	Vobra Duo 2.0 mg/kg q4W (n=91)	Vobra Duo 2.7 mg/kg q4W (n=90)	All (n=181)
Age, years		(11 00)	
Mean ± SD	70.3 ± 9.03	69.1 ± 8.94	69.7 ± 8.98
Median (range)	71 (46-89)	70 (35-86)	70 (35-89)
ECOG Performance Status, n (%)			
0	42 (46.2)	52 (57.8)	94 (51.9)
1	48 (52.7)	35 (38.9)	83 (45.9)
2	1 (1.1)	2 (2.2)	3 (1.7)
Baseline PSA (ng/mL)	(n=89)	(n=85)	(n=174)
Mean ± SD	180.5 ± 542.60	182.6 ± 433.06	181.6 ± 490.74
Median (range)	26.4 (0.8, 3447.0)	24.7 (0.2, 2778.0)	24.7 (0.2, 3447.0)
Measurable Disease at Baseline, n (%)	45 (49.5)	34 (37.8)	79 (43.6)
Prior Taxane, n (%)	52 (57.1)	52 (57.8)	104 (57.5)
Prior ARAT, n (%)			
Abiraterone	46 (50.5)	46 (51.1)	92 (50.8)
Enzalutamide	36 (39.6)	33 (36.7)	69 (38.1)
Apalutamide	12 (13.2)	10 (11.1)	22 (12.2)
Location, n (%)			
Western Europe	66 (72.5)	68 (75.6)	134 (74.0)
US	11 (12.1)	10 (11.1)	21 (11.6)
Eastern Europe	8 (8.8)	8 (8.9)	16 (8.8)
Australia/Korea	6 (6.6)	4 (4.4)	10 (5.5)

ECOG=Eastern Cooperative Oncology Group; PSA=prostate-specific antigen; ARAT=Androgen Receptor Axis-Targeted therapy.

Data Cut-off: April 12, 2024

June 13, 2024



Vobra Duo	M
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Interim Summary of Prostate-Specific Antigen (PSA) Response

PSA response evaluable population

Parameter	Vobra Duo 2.0 mg/kg q4W (N=82)	Vobra Duo 2.7 mg/kg q4W (N=71)
Any ≥50% PSA Reduction, n (%)	41 (50.0%)	36 (50.7%)
(95% Cl)	<i>(38.7 – 61.3)</i>	(38.6 – 62.8)
PSA Response (Confirmed ≥50% PSA Reduction), n (%)	36 (43.9%)	26 (36.6%)
(95% Cl)	(33.0 – 55.3)	(25.5 – 48.9)





MGD02

T[‡]MARACK

Interim Summary of Tumor Response

RECIST evaluable patients with measurable disease at baseline

	Vobra Duo 2.0 mg/kg q4W	Vobra Duo 2.7 mg/kg q4W
Parameter	(N=45)	(N=32)
Confirmed Objective Response Rate (ORR) (CR+PR), n (%) (95% Cl)	8 (17.8%) (8.0 – 32.1%)	8 (25.0%) (11.5 – 43.4%)
Confirmed + Unconfirmed ORR, n (%)	11 (24.4%)	14 (43.8%)
Disease Control Rate (CR+PR+SD) ^(a) , n (%) (95% Cl)	41 (91.1%) (78.8 – 97.5%)	28 (87.5%) (71.0 – 96.5%)
Best Overall Response (BOR) ^(b) , n (%)		
Complete Response (CR)	0	1 (3.1%)
Partial Response (PR)	8 (17.8%)	7 (21.9%)
Stable Disease (SD)	33 (73.3%)	20 (62.5%)
Progressive Disease (PD)	3 (6.7%)	2 (6.3%)
Not Available (NA)	1 (2.2%)	2 (6.3%)
Confirmed + Unconfirmed BOR, n (%)		
CR	0	1 (3.1%)
PR	11 (24.4%)	13 (40.6%)
SD	30 (66.7%)	14 (43.8%)
PD	3 (6.7%)	2 (6.3%)
NA	1 (2.2%)	2 (6.3%)

(a) Disease Control Rate (DCR) = sum of confirmed responses for patients with CR, PR and SD. Protocol-defined DCR in final analysis will include patients with CR, PR, and SD for \geq 3 months. (b) Confirmed CR/PR assessed per RECIST v1.1.

Data Cut-off: April 12, 2024



T[‡]**MARACK**

Best % Change from Baseline



PSA Response Evaluable Population

Archival Biopsy B7-H3 Membrane H-score Category □ 0 ■ >0 - 100 ■ >100 - 200 ■ >200 - 300 □ Unknown







Archival Biopsy B7-H3 Membrane H-score Category 0 0 - 200 -



 Vobra Duo
 MGC026
 MGC028
 Lorigerlimab
 MGD02

 Interim Investigator-Assessed Tumor Response (2.0 mg/kg q4W)
 T&MARACK

 RECIST evaluable patients with measurable disease at baseline (n=45)





Dosing period: 2.7 mg/kg 2 mg/kg 1.5 mg/kg 1 mg/kg

June 13, 2024

17

Vobra Duo

T[‡]**MARACK**

Interim Overall Summary of Adverse Events

Safety population (n=176)

	Vobra Duo 2.0 mg/kg q4W (N=90)	Vobra Duo 2.7 mg/kg q4W (N=86)	All (N=176)
Any TEAE	89 (98.9%)	86 (100%)	175 (99.4%)
Study Treatment Related AE	87 (96.7%)	83 (96.5%)	170 (96.6%)
TEAE with Severity Grade \geq 3	49 (54.4%)	44 (51.2%)	93 (52.8%)
Study Treatment Related AE with Severity Grade \geq 3	29 (32.2%)	30 (34.9%)	59 (33.5%)
Any SAE	25 (27.8%)	30 (34.9%)	55 (31.3%)
Study Treatment Related SAE	12 (13.3%)	14 (16.3%)	26 (14.8%)
TEAE Resulting in Study Drug Discontinuation	10 (11.1%)	13 (15.1%)	23 (13.1%)
TEAE Leading to Study Drug Dose Reduction	39 (43.3%)	44 (51.2%)	83 (47.2%)
TEAE Leading to Study Drug Interruption	38 (42.2%)	48 (55.8%)	86 (48.9%)
TEAE with Fatal Outcome ^(a)	1 (1.1%)	4 (4.7%)	5 (2.8%)

(a) Note: one Grade 5 event occurred in 2.0 mg/kg dosing cohort: acute myocardial infarction (considered unrelated to study drug by investigator); three Grade 5 events occurred in 2.7 mg/kg dosing cohort: one cardiac arrest (considered unrelated to study drug by investigator) and two events of pneumonitis. In addition, a patient in the 2.7 mg/kg dosing cohort had a Grade 3 pleural effusion that is recorded as having a fatal outcome. The latter three deaths are being investigated, as follow-up is incomplete on this ongoing trial.

Data Cut-off: April 12, 2024





Vobra Duo M

MGC028

ab MG

Interim Treatment-Emergent Adverse Events^(a) (TEAE) ≥10% (Any Grade) **T#MARACK**

Safety population (n=176)



(a) Adverse event preferred terms as per MedDRA v26.1.

Data Cut-off: April 12, 2024

MGD02

MGC026: Complementary Program Employing Proprietary TOP1i Linker Payload

Second molecule in our B7-H3 ADC franchise

B7-H3 B7-H3	Function/ MoA	 B7-H3 overexpressed in multiple tumor types and correlates with poor prognosis Employs Synaffix's proprietary ADC platform GlycoConnect[™] site-specific Fc conjugation with protease cleavable link for enhanced efficacy and safety Hydraspace[™] highly-polar spacer technology for increased stability and therapeutic index SYNtecan E[™] proprietary linker-payload for ADCs (DAR ~4) (exatecan is active catabolite)
IgG1	Rationale / Positioning	 Complementary approach to vobra duo for targeting B7-H3 Potential differentiation of exatecan vs. deruxtecan (DXd)^(a) 2-5x higher potency Less susceptible to efflux/multi-drug resistance (MDR) Exhibits superior cell permeability & bystander effect
	Status	Phase 1 dose escalation enrolling

(a) Rowinsky, Eric K. "14 Preclinical and Clinical Development of Exatecan." Camptothecins in Cancer Therapy (2005); Khera, Eshita, et al. Molecular cancer therapeutics 21.2 (2022): 310-321. MGC026 is investigational and has not yet been approved for marketing by any regulatory authority

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MGC026	MGC028	Lorigerlimab
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Potential to Differentiate from Other TOP1i ADC Programs

	Exatecan	SN-38	Deruxtecan
Potency ^(a)	Sub-nM	3-10x Less Potent	2-5x Less Potent
inker HydraSpace™ & Val-Ala Protease-Cleavable		CL2A pH sensitive	GGFG Protease Cleavable
Conjugation	Site-Specific at Glycan (N297)	Native Cysteines	Native Cysteines
Less Sensitivity to Efflux/MDR Avoidance ^(a)		++	+
SYNtecan E ADC (DAR4) Outperforms Trastuzumab Deruxtecan (DAR8) in Synger Mice ^(b)	2500 2250 2250 2250 2250 2250 2250 2000 1750 1250 1250 1000 250 0 0 10 10	llb/c 10 or 20 (CR 4/10) 20 30 40 Days	 vehicle trastuzumab deruxtecan (DAR8, 5 mg/kg) trastuzumab deruxtecan (DAR8, 10 mg/kg) trastuzumab SYNtecan E[™] (DAR4, 10 mg/kg) trastuzumab SYNtecan E[™] (DAR4, 20 mg/kg)

(a) Rowinsky, Eric K. "14 Preclinical and Clinical Development of Exatecan." Camptothecins in Cancer Therapy (2005); Khera, Eshita, et al. Molecular cancer therapeutics 21.2 (2022): 310-321.

(b) Data generated by Synaffix; presented at World ADC 2023.

MGC026: SYNtecan ADC Exhibits Favorable Profile Compared to DXd-based ADC

In vivo efficacy in preclinical CDx models



MGC028: Next-Generation, Preclinical ADAM9 ADC



(a) "Preclinical Evaluation of IMGC936, a Next-Generation Maytansinoid-based Antibody-drug Conjugate Targeting ADAM9-expressing Tumors," Mol Cancer Ther 2022; 21:1047–1059.

Vobra Duo MGC026 MGC028

Mean Tumor Volume (mm³)

Lorigerlimab

MGD0

MGC028: Promising Product Profile Based on Preclinical Data

Supports broad clinical development opportunity across multiple solid tumors

Broad Range of Indications Which May be More Susceptible to TOP1i-Based Payload



Potent Activity Observed Across PDX Models with Range of ADAM9 Expression



MGD02

Lorigerlimab (PD-1 × CTLA-4): DART Molecule w/Two Validated Checkpoint Targets



Function/ MoA	 Simultaneous and/or independent blockade of two validated checkpoint inhibitor molecules
Clinical Results	 Ph. 1 dose expansion results presented at ASCO-GU 2023: Manageable safety profile in advanced solid tumors (n=127 patients at dose of 6.0 mg/kg Q3W) Preliminary evidence of durable anti-tumor activity in mCRPC population refractory to chemo and ARAT (confirmed ORR = 25.7%, confirmed PSA50 response rate = 28.6%)
Program Activities	 Enrolling combination study w/vobra duo in solid tumors Enrolling randomized LORIKEET Phase 2 study in mCRPC

ARAT=androgen receptor axis-targeted agent (abiraterone, enzalutamide or apalutamide)

Lorigerlimab (formerly MGD019) is investigational and has not yet been approved for marketing by any regulatory authority



Lorigerlimab: Durable Anti-tumor Activity Shown in Refractory mCRPC Population

42 Patients with mCRPC received lorigerlimab @ 6 mg/kg Q3W during dose expansion phase

Baseline Characteristics (n=42)

Parameters						
Age	Median (range)	67 (55-79)				
ECOG performance status n (%)	0 1	12 (28.6) 30 (71.4)				
Location of metastatic disease n (%)	Bone Liver Lung	40 (95.2) 11 (26.2) 8 (19.0)				
Baseline SLD, mm n=35 with target lesions	Median (range)	48 (10-207)				
Baseline PSA, ng/mL	Median (range)	94 (11-2523)				
Prior lines of systemic therapy n (%)	Median (range) prior lines 1 2 3 <u>4+</u>	2 (1-9) 7 (16.7) 15 (35.7) 9 (21.4) 11 (26.2)				
Prior systemic therapy n (%)	Docetaxel AR inhibitor PARP inhibitor Cabazitaxel	35 (83.3) 34 (81) 5 (11.9) 6 (14.3)				

All specimens analyzed for microsatellite instability analysis (N=20) were microsatellite stable (MSS).

Majority of patients refractory to ARAT and taxane and with extensive tumor burden at study entry

Status of Patients





Lorigerlimab: Efficacy Summary in mCRPC

Confirmed ORR = 25.7%, PSA50 response rate = 28.6%

Best % Change of Target Lesions



Includes 32 patients who received ≥ 1 dose, had measurable disease, and ≥ 1 post-baseline tumor evaluation

Best % Change of PSA



Includes patients who received ≥ 1 dose, had baseline PSA ≥ 2 ng/ml, and had ≥ 1 post-baseline PSA evaluation

- Median exposure: 19.2 weeks (range: 3.3-55.1 weeks); median of 5 infusions/patient
- All patients with objective response had >90% reduction in PSA from baseline
- Among 9 patients with obj. response: 4 remained on study, 5 discontinued (unrelated AEs [4] and physician decision [1])

ORR=objective response rate, cPR=confirmed partial response, SD=stable disease, PD=progressive disease, PSA=prostate-specific antigen.



Lorigerlimab: Manageable Safety Observed in Advanced Solid Tumor Population

Safety population N=127 (118 patients from expansion cohorts, 9 from dose escalation)

Summary of Adverse Events

	All Grade, n (%)	Grade ≥3, n (%)
Any AE (all causality)	125 (98.4)	79 (62.2)
Treatment-related AEs	110 (86.6)	45 (35.4)
SAEs (all causality)	50 (39.4)	44 (34.6)
Treatment-related SAEs	22 (17.3)	18 (14.2)
AEs leading to lorigerlimab discontinuation	32 (25.2)	27 (21.3)
AESIs	40 (31.5)	16 (12.6)
Immune-related AEs	31 (24.4)	10 (7.9)

Fatigue -	Į –
Rash ^b -	4
Pruritus ^c -	4
Hypothyroidism -	4
Pyrexia -	{
Hyperthyroidism -	{
Asthenia -	{
Decreased appetite -	{
Infusion-related reaction -	1
Lipase increased -	1
Alanine aminotransferase increased -	1
Aspartate aminotransferase increased -	1
Arthralgia -	1
Diarrhea -	1
Gamma-glutamyl transferase increased -	1
Amylase increased -	1
Nausea -	1
Blood alkaline phosphatase increased -	1
Myalgia -	1
Rash macular -	

Common Adverse Events



- *Safety population*: 127 patients received ≥ 1 dose of lorigerlimab at 6 mg/kg
- Median exposure: 14.4 weeks (range: 1.9-100.1)

AE=adverse event, AESI=adverse event of special interest, SAE=serious adverse event, TRAE=treatment-related adverse event

Lorigerlimab

Background: Immune Checkpoint Inhibitors in mCRPC

	Lorigerlimab mCRPC Cohort (Interim Data) ^(a)	CheckMate 650 ^(b) Phase 2 Nivolumab + Ipilimumab Part II		KEYNOTE-199 ^(c) Phase 2 Pembrolizumab		
Previous Treatments	Median # prior lines: 2 (range: 1-9)	Post-docetaxel		Post-docetaxel and post-NHT		
Ν	42 (35 Measurable)	73 (43 Measurable)	74 (41 Measurable)	133 RECIST- measurable, PD- L1+	66 RECIST-measurable, PD-L1-	59 Bone-predominant disease
Dosing	6 mg/kg Q3W	Nivo (3 mg/kg) + Ipi (1 mg/kg) Q3W x 4 doses^ (Median # ipi doses: 4)	Nivo (1 mg/kg) Q3W x 8 doses + Ipi (3 mg/kg) Q6W x 4 doses^ <i>(Median # ipi doses: 2)</i>	200mg Q3W		
Median rPFS	NA	3.9 mos.	4.2 mos.	2.1 mos.	2.1 mos.	3.7 mos
Median OS	NA	15.9 mos.	13.5 mos.	9.5 mos	7.9 mos	14.1 mos
PSA50 response	28.6% (12/42) ^(d)	13.8% (9/65)	18.2% (12/66)	6%	8%	2%
ORR (%)	25.7%* (9/35)	9.3% (4/43)	19.5% (8/41)	5%	3%	NA
Treatment-Related AE Grade 3+	35.4% (N=127)	29% 1 Grade 5 Pneumonitis	30% 1 Grade 5 Colitis	15%		
AE Leading to Discontinuation	25.2% (N=127)	15% Treatment-Related	26% Treatment-Related	5% Treatment Related		

(a) Luke, et al., J Clin Oncol 41, 2023 (suppl 6; abstr 155) - ASCO-GU'23 (data cut-off: 12 December 2022); (b) Sharma, et al., J Clin Oncol 41, 2023 (suppl 6; abstr 22) - ASCO-GU'23; (c) Antonarakis, et al., J Clin Oncol 38, 2020:395-405; (d) Lorigerlimab PSA90 23.8% (10/42 patients)

NHT=next-generation hormonal therapy (e.g., abiraterone, enzalutamide); NA=not available; AE=Adverse Event; *=ORR calculated based on N=35 with measurable disease per RECIST v1.1 at study entry; ^=followed by nivolumab (480 mg Q4W)



Lorigerlimab + Docetaxel: Planned mCRPC Phase 2 Study Design Summary

Study for patients who progress post-NHT; Enrollment ongoing



(a) ORR measured according to Prostate Cancer Clinical Trials Working Group 3 (PCWG3) guidelines.

mCRPC=metastatic castration-resistant prostate cancer; NHT=next-generation hormonal therapy; ORR=objective response rate; PSA=prostate-specific antigen; Q3W=every 3 weeks; BID=twice per day; R=randomize; rPFS=radiographic progression-free survival; DOR=duration of response; mOS=median overall survival.



MGD02

Vobra Duo + Lorigerlimab: Opportunity to Exploit Orthogonal MOAs



- Growing clinical validation around benefits of combining ADCs with immune checkpoints
- Synergy between ADCs and IO-agents can overcome treatment resistance
- Preclinical models have shown combination with anti-PD-1 enhances antitumor activity and induces immunological memory^(a)

(a) AACR 2020 - MGC018, a Duocarmycin-based Antibody-drug Conjugate Targeting B7-H3, Exhibits Immunomodulatory Activity and Enhanced Antitumor Activity in Combination with Checkpoint Inhibitors.



origerlimab

MGD024

MGD024: Next Generation CD123 × CD3 DART Molecule

Leverages MacroGenics' significant know-how in developing CD3-directed bispecifics



MGD024 is investigational and has not yet been approved for marketing by any regulatory authority

MGD024

MGD024: Favorable Cytokine Profile, Encouraging Combination Activity (in vivo)

Preclinical data presented at ASH 2021



Alderson, et al., ASH 2021



Financial Overview

- \$184M Cash, cash equivalents and marketable securities as of March 31, 2024
 - Cash runway *into 2026* via anticipated and potential collaboration payments and product revenues^(a)
- Historical financial details:

						3 Mos. Ended	
\$ in Millions	2019	2020	2021	2022	2023	3/31/24	3/31/23
Total Revenues	\$64	\$105	\$77	\$152	\$59 ^(b)	\$9	\$25
R&D Expense	195	193	215	207	167	46	46
Total Operating Expenses	241	236	280	273	227	63	63
Cash & Investments	216	273	244	154	230	184	242

• Total revenues (primarily from collaborative agreements)



(a) Cash runway guidance reflects anticipated expenditures related to Phase 2 TAMARACK clinical trial, Phase 2 LORIKEET study of lorigerlimab in mCRPC, and MacroGenics' other ongoing clinical and preclinical studies.
 (b) Does not include \$150.9 million of Other Income ("Gain on royalty monetization arrangement").
 (c) Includes \$150.9 million of Other Income ("Gain on royalty monetization arrangement").

Key Anticipated 2024 Program Milestones

Vobra Duo (Anti-B7-H3 ADC)

 ✓ Updated interim safety data and preliminary efficacy data
 Additional update in 2H24

Initiate exp. cohorts (mid-'24)

MGC026 (Anti-B7-H3 TOP1i ADC)

✓ Phase 1 initiated✓ Preclinical data at AACR

MGC028 (Anti-ADAM9 TOP1i ADC)

✓ Preclinical data at AACR
 Submit IND (2H24)

Partnered Assets – Marketed

ZYNYZ clinical and regulatory updates (Incyte)

TZIELD clinical and regulatory updates (Sanofi)

Lorigerlimab (PD-1 × CTLA-4 DART molecule)

Complete enrollment 2H24 Initiate dose exp. for combo study with vobra duo



Thank You!



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