

IDEAYA Biosciences

Improving Lives
Through Transformative
Precision Medicines



Safe Harbor Statement

Certain statements in this presentation and the accompanying oral commentary are forward-looking statements. These statements relate to future events or the future financial performance of IDEAYA Biosciences, Inc. (the "Company") and involve known and unknown risks, uncertainties and other factors that may cause the actual results, levels of activity, performance or achievements of the Company or its industry to be materially different from those expressed or implied by any forward-looking statements. In some cases, forward-looking statements can be identified by terminology such as "may," "will," "could," "should," "expect," "plan," "anticipate," "intend," "believe," "estimate," "predict," "potential" or other comparable terminology. All statements other than statements of historical fact could be deemed forward-looking, including expectations regarding the clinical activity profile, potential clinical benefit and potential advantages of the Company's clinical programs: the translation of preliminary clinical trial results into future clinical trial results: the enrollment of clinical trials: whether the Phase 2/3 clinical trial for evaluation of the darovasertib and crizotinib combination in metastatic uveal melanoma will be considered a registrational trial by the U.S. Food and Drug Administration (the "FDA"); the potentially addressable patient population for the Company's programs; any expectations regarding the Company's target discovery platform or new target validation efforts as creating opportunities for research and development initiatives; any projections of financial information, market opportunities, cash runway or profitability, including the estimated funding of operations into 2028; any statements about historical results that may suggest trends for the Company's business; any statements of the plans, strategies, and objectives of management for development programs or future operations; any statements about the timing of preclinical research, clinical development, regulatory filings, manufacturing or release of data; any statements of expectation or belief regarding future events, potential markets or market size, technology developments, or receipt of cash milestones, option exercise fees or royalties; and any statements of assumptions underlying any of the items mentioned. The Company has based these forward-looking statements on its current expectations, assumptions, estimates and projections. While the Company believes these expectations, assumptions, estimates and projections are reasonable, such forward-looking statements are only predictions and involve known and unknown risks and uncertainties, many of which are beyond the Company's control. Such risks and uncertainties include, among others, the uncertainties inherent in the drug development process, including the Company's programs' early stage of development, the process of designing and conducting preclinical and clinical trials, serious adverse events, undesirable side effects or unexpected characteristics of drug development, the regulatory approval processes, the timing of regulatory filings, the challenges associated with manufacturing drug products, the Company's ability to successfully establish, protect and defend its intellectual property, and other matters that could affect the sufficiency of existing cash to fund operations. These and other important factors may cause actual results, performance or achievements to differ materially from those expressed or implied by these forward-looking statements. The forward-looking statements in this presentation are made only as of the date hereof. For a further description of the risks and uncertainties that could cause actual results to differ from those expressed in these forward-looking statements, as well as risks relating to the business of the Company in general, see the Company's periodic filings with the Securities and Exchange Commission (the "SEC"), including its Annual Report on Form 10-K for the year ended December 31, 2023, its Quarterly Report on Form 10-Q for the guarter ended June 30, 2024, and any current or periodic reports filed with the SEC. Except as required by law, the Company assumes no obligation and does not intend to update these forward-looking statements or to conform these statements to actual results or to changes in the Company's expectations.

Other

This presentation concerns anticipated products that are under clinical investigation and which have not yet been approved for marketing by the FDA. These anticipated products are currently limited by Federal law to investigational use, and no representation is made as to their safety or effectiveness for the purposes for which they are being investigated.

Certain information contained in this presentation relates to or is based on studies, publications, surveys and other data obtained from third-party sources and the Company's own internal estimates and research. The Company has not independently verified, and makes no representation as to the adequacy, fairness, accuracy or completeness of, any information obtained from third-party sources. In addition, all of the market data included in this presentation involves a number of assumptions and limitations, and there can be no guarantee as to the accuracy or reliability of such assumptions. Finally, the Company's own internal estimates and research have not been verified by any independent source.

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IDEAYA Biosciences Highlights

Leading Precision Medicine Oncology Biotechnology Company Advancing Potential First-in-Class Therapies

Broad Pipeline of 4 Clinical Programs with Multiple Target Milestones and Catalysts

PHASE 2/3	PHASE 1/2	PHASE 1	IND-ENABLING	PRECLINICAL
 DAROVASERTIB (PKC) Daro + Crizo (cMET) 1L HLA-A2(-) MUM Registrational Ph 2/3 – Triple Digit Patient Enrollment Achieved Daro + Crizo Ph 2 in HLA-A2(+) MUM Ph 3 Neoadjuvant UM Registrational Trial – Targeting Study Initiation 	 IDE397 (MAT2A) Ongoing Phase 2 Expansion in MTAP Urothelial Cancer and NSCLC IDE397 + AMG 193 (PRMT5) Ongoing Phase 1 Enrollment and Development of Joint Publication Strategy – 2024 IDE397 + Trodelvy® (Trop2-ADC) Ongoing Phase 1 Enrollment in MTAP Urothelial Cancer 	 IDE161 (PARG) Initial Phase 1/2 Expansion – H2 2024 Enable Combination(s) – 2024 IDE161 + KEYTRUDA® (pembrolizumab) Phase 1 FPI in Endometrial Cancer – H2 2024 GSK101 (POL THETA) Ongoing Phase 1 Dose Escalation 	 WERNER HELICASE IND Submission (\$7M Milestone Upon Successful IND Clearance) – H2 2024 	 NEXT GEN PROGRAMS Development Candidate Nominations, including in MTAP and Potential First-In- Class in KAT6 Pathway – H2 2024 B7H3/PTK7 Bi-Specific ADC development candidate nomination – H2 2024

Pharma Collaborations











potential milestones

Financials and Investor Relations

~\$1.2B to fund operations at least into 2028 1, 2

NASDAQ: IDYA



⁽¹⁾ Includes aggregate of \$952.7M cash, cash equivalents and marketable securities as of June 30, 2024, plus pro forma \$283.8M estimated net proceeds from July 2024 public offering

^{\$952.7}M of cash, cash equivalents and marketable securities as of June 30, 2024, as disclosed in IDEAYA's Form 10-Q dated August 6, 2024 as filed with the U.S. Securities and Exchange Commission

Leading Functional Genomics and Synthetic Lethality Platform

The Next Frontier in Precision Medicine Oncology

Functional Genomics and Synthetic Lethality provides a powerful approach to discover novel precision medicine therapies with patient biomarkers, including MTAP-deletion (~15% of solid tumors), BRCA/HRD (Breast, Prostate, Ovarian, Others), and high-MSI (15% GI Cancers)



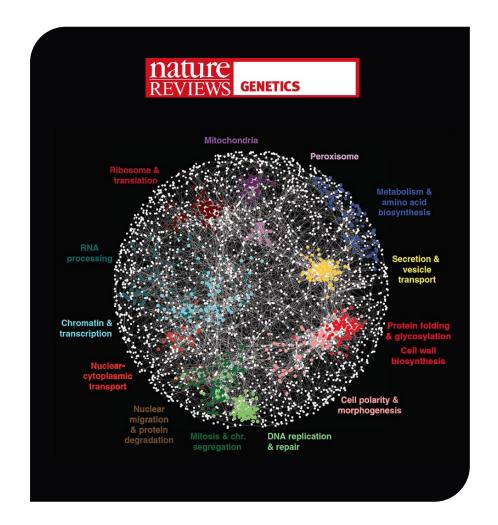
Functional genomics combines human genetics with advances in AI and machine learning to develop effective precision medicines



Synthetic lethality occurs when the simultaneous perturbation of two genes results in cell death



Large-scale screening for novel synthetic lethal targets has progressed through advances in molecular biology (e.g., RNA interference, CRISPR-Cas9 editing) and bioinformatics





IDEAYA Precision Medicine Oncology Platform

Fully-Integrated Target, Biomarker, Drug Discovery and Translational Capabilities

Drug Discovery and Pharmacological Validation

Structure Based Drug Design **Small Molecule Chemistry**

Protein Degrader Capabilities

 Key emerging novel targets identified, such as Werner Helicase, Pol Theta Helicase and PARG

Bioinformatics, including AI Algorithms

Dual CRISPR, CRISPR, Chemogenomics

Genetically Engineered Models

 DECIPHER™ - Dual CRISPR SL Library in DDR Cell Lines in collaboration with UCSD

Target & Biomarker

Discovery and Validation

- PAGEO™ Paralogous Gene Evaluation in Ovarian in collaboration with Broad Institute
- Machine Learning and Multi-Omics platform

Translational Research and Opportunity Expansion



Genomics – DNA and RNA Analysis Proteomics – Protein Expression Profiling Tissue (IHC, IF) and Liquid Biopsies Analysis

> clinical biomarkers and transformative combinations

Translational research to define

- Opportunity expansion through broad cell panel screening
- Pharmacodynamic biomarker analysis to confirm target modulation and correlation with clinical activity
- Crystal structures for SL discovery programs obtained to enable structure-based design
- INQUIRE™ Chemical Library proprietary, expert-curated small-molecule library
- HARMONY™ Machine-Learning engine empowers drug discovery platform
- Differentiated clinical / candidate compounds discovered, including IDE397, IDE161 and GSK101 / IDE705 (Pol Theta Helicase)



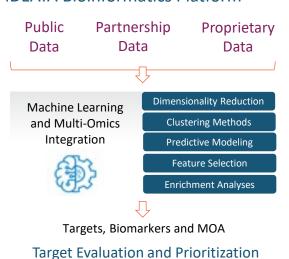
IDEAYA Functional Genomics and Synthetic Lethality Platform

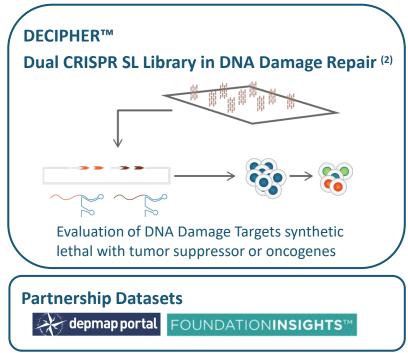
Novel Target and Biomarker Discovery and Validation

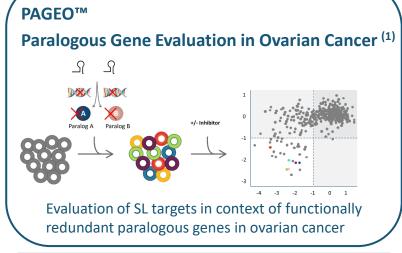
Target and Biomarker Discovery & Validation Platform

IDEAYA Functional Genomics Platform integrates proprietary and public data sets with orthogonal and complementary content Bioinformatic analysis enables identification and validation of synthetic lethal target / biomarker interactions across vast datasets Robust SL interactions validated genetically (Dual CRISPR, paralogues, isogenic pairs, CRISPR/siRNA), pharmacologically and *in vivo*

Data-to-Knowledge Enterprise fueled by multi-omic patient and molecular data across public, partnership and proprietary data sets via IDEAYA Bioinformatics Platform











IDEAYA Precision Oncology Drug Discovery Platform & IND Engine

AI/ML & Structure Based Drug Design to Deliver Potential First-in-Class Development Candidates

Structural Biology & Structure Based Drug Design

Full suite of capabilities in structural biology, biophysics, & computational chemistry

Ligand bound co-crystal structures resolved to enable Structure Based Drug Design for each of the Synthetic Lethality drug-discovery programs

Multiple potential "first-in-world" co-crystal structures resolved, including for PARG, Pol Theta Helicase and Werner Helicase

INQUIRE™ Proprietary Chemical Library

Expert-curated HTS library to enhance hit discovery capabilities against novel SL targets classes

Enhances IDEAYA's SL Drug Discovery Platform and competitive differentiation

AI/ML Enabled Computational Drug Discovery* Make Fewer Compounds Make Better Compounds **HARMONYTM ML and** FEP discovery engine In-synthesis Accurate properties prediction **Hypothesis** Creative design solutions AI/ML to Accelerate Time to IND for Potential First-in-Class DCs

IDEAYA's Potential First-in-Class Precision Medicine Oncology Pipeline

	Modality/Indication	Biomarker	Pre-clinical	IND Enabling	Phase 1	Phase 2	Potential Registrational	Program Goals / Achievements	Collaborations	Commercial (IDEAYA)
	+cMET¹ Combination 1L HLA-A2(-) MUM	GNAQ/11						Phase 2 (AA) / Phase 3 registrational trial ^ – triple digit patient enrollment achieved	Pfizer (1)	
Darovasertib <i>PKC</i>	(Neo)Adjuvant UM	GNAQ/11						Ph 3 neoadjuvant UM registrational trial ^^ – targeting study initiation		WW Commercial Rights
	cMET¹ Combination HLA-A2(+) MUM	GNAQ/11						HLA-A2(+) Phase 2 clinical trial ^^^	Pfizer (1)	
	Monotherapy Solid Tumors	МТАР						Phase 2 expansion in MTAP urothelial and lung cancer		
IDE397 <i>MAT2A</i>	Combination Solid Tumors	MTAP						Phase 1 IDE397 + AMG 193 (PRMT5i ^{MTA}) ongoing enrollment and joint publication strategy – '24	AMGEN° (2)	WW Commercial Rights
	Combination Urothelial Cancer	MTAP						Ongoing enrollment in Phase 1 IDE397 + Trodelvy®	GILEAD (3)	
IDE161	Monotherapy Solid Tumors	HRD						Phase 1/2 expansion in priority tumor types (Breast, CRC, Endometrial, Prostate) – H2'24		WW Commercial
PARG	Combination Endometrial Cancer	High-MSI, MSS						Phase 1 IDE161 + KEYTRUDA® FPI – H2 '24	MERCK (4)	Rights
GSK101 Pol Theta Helicase	+Niraparib Combo ⁴ Solid Tumors	HR Mutations						Ongoing Phase 1 dose escalation	GSK (5)	Global Royalties
WRN Werner Helicase	GI Cancers	High-MSI						Targeting IND submission in H2 2024 (\$7M Milestone upon successful IND clearance)	GSK (5)	50% US Profits and 20% costs
B7H3/PTK7 TOP1i BsADC	Solid Tumors	В7Н3/РТК7						BCG034: B7H3/PTK7 Top1i Bispecific ADC targeting development candidate nomination – H2 2024	3 BIOCYTOGEN(6)	WW Commercial Rights
Platform	Solid Tumors	Defined Biomarkers						Targeting Multiple DCs, including in MTAP and potential first-in-class in KAT6 pathway – H2'24		WW Commercial Rights

[^] Integrated Phase 2/3 enables potential Accelerated Approval (AA, Phase 2) and potential Full Approval (Phase 3) based on FDA Type C Meeting Q1 2023, ^^ Phase 3 randomized registrational trial enables potential approval based on FDA Type C Meeting Q3 2024, ^^^ Targeting enrollment of additional HLA-A2(+) patients in ongoing IDE196-001 Phase 2 clinical trial

[2] Pursuant to Amgen Clinical Trial Collaboration and Supply Agreement for IDE397 + AMG 193, an investigational MTA-cooperative PRMTS inhibitor; Amgen is the sponsor the study and the parties jointly share external costs of the study



= Target Program Milestones

⁽¹⁾ Pursuant to Pfizer Clinical Trial Collaboration and Supply Agreements for Darovasertib/Crizotinib Combination; IDEAYA retains all Darovasertib Commercial Rights

⁽³⁾ Pursuant to Gilead Clinical Study Collaboration and Supply Agreement for IDE397 + Trodelvy®, a Trop-2 directed antibody-drug conjugate (ADC); the Company will sponsor the study and Gilead will provide Trodelvy at no cost. Gilead retains all commercial rights to Trodelvy.

⁽a) Pursuant to Merck Clinical Trial Collaboration and Supply Agreement for IDE161 + Keytruda*, an anti-P0-1 therapy; the Company will sponsor the study and Merck will provide Keytruda at no cost.

⁽⁵⁾ Pursuant to GSK Collaboration, Option and License Agreement: Pol0: Global Royalties; WRN: 50/50 US Profits + ex-US Royalties

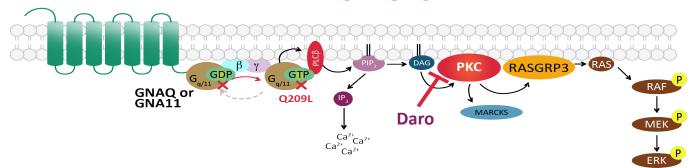
⁽⁶⁾ Pursuant to exclusive worldwide licensing and option agreement with Biocytogen

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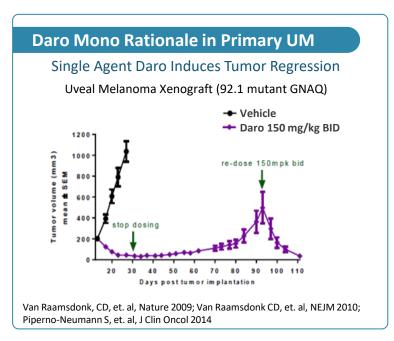
MATZA=methionine adenosyltransferase 2a, MTAP=methylthioadenosine, PRMTS=protein arginine methyltransferase 5 (PRMTS), PARG= poly (ADP-ribose) glycohydrolase, WRN = Werner Helicase, Polθ = DNA Polymerase Theta, HRD = homologous recombination deficiency, MSI = microsatellite instability,
PKC = protein kinase C, MUM = metastatic uveal melanoma, Crizo = crizotinib, NSCLC = non-small cell lung cancer, WW = worldwide, HLA-A2*02:01 Negative; HLA-A2*02:01 Positive, DC = development candidate, TOP1i = topo-l-payload, BsADC = bispecific antibody drug conjugate

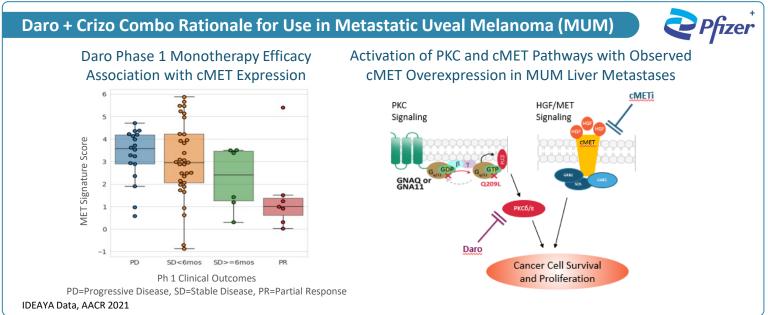
Darovasertib – Potential to Broadly Impact Uveal Melanoma Potential First-in-Class and Best-in-Class in (Neo)adjuvant UM and Metastatic UM

Mutations in GNAQ / GNA11 activate PKC Signaling, a genetic driver of Uveal Melanoma



Darovasertib is an oral, potent and selective PKC inhibitor GNAQ or GNA11 (~95%) and other upstream mutations activate PKC signaling in UM and MUM patients UM is typically treated with radiation and/or enucleation, with no approved systemic therapies for Neoadjuvant UM MUM occurs in approximately 50% of UM patients and predominantly as liver metastasis in ~90% of MUM patients, with no approved therapies for HLA-A*02:01 negative MUM





⁺ Pfizer Clinical Trial Collaboration and Supply Agreements for Darovasertib + Crizotinib Combination in MUM IDEAYA owns or controls all commercial rights in darovasertib, including in Primary UM and MUM

Phase 2 Clinical Trial - Comparatively High-Risk, Poor Prognosis Population

Disease Burden Significantly Higher in Both Any-Line and First-Line MUM Population⁺

Baseline Characteristics			1 Phase 2* o + Crizotinib	Tebentasfusp First-Line Phase 3#		
		Any-Line n=63 (%)	First-Line n=20 (%)	Tebe Arm n=252 (%)	Control Arm^ n=126	
Ago (Voars)	< 65	35 (56)	10 (50)	64 Median	66 Median	
Age (Years)	≥65	28 (44)	10 (50)			
Sex	F	32 (51)	9 (45)	124 (49)	64 (51)	
Sex	M	31 (49)	11 (55)	128 (51)	62 (49)	
ECOC DC	0	43 (68)	14 (70)	192 (76)	85 (67)	
ECOG PS	1	20 (32)	6 (30)	49 (19)	31 (25)	
Pagalina I DU	Normal	25 (40)	10 (50)			
Baseline LDH	>ULN	38 (60)	10 (50)	90 (36)	46 (37)	
	≤3.0 cm	22 (35)	8 (40)	139 (55)	70 (56)	
Largest metastatic lesion	3.1 to 8.0 cm	35 (56)	9 (45)	92 (37)	46 (37)	
	≥ 8.1 cm	6 (10)	3 (15)	21 (8)	10 (8)	
	Hepatic Only	19 (30)	10 (50)	131 (52)	59 (47)	
Location of metastases	Extrahepatic Only	3 (5)	0	9 (4)	10 (8)	
	Hepatic and Extrahepatic	41 (65)	10 (50)	111 (44)	55 (44)	

⁺ Cross-trial comparisons are not based on head-to-head studies and are presented for informational purposes; no direct comparisons are being made



^{*} IDEAYA Data as of August 22, 2023 (based on preliminary analysis of unlocked database by investigator review)

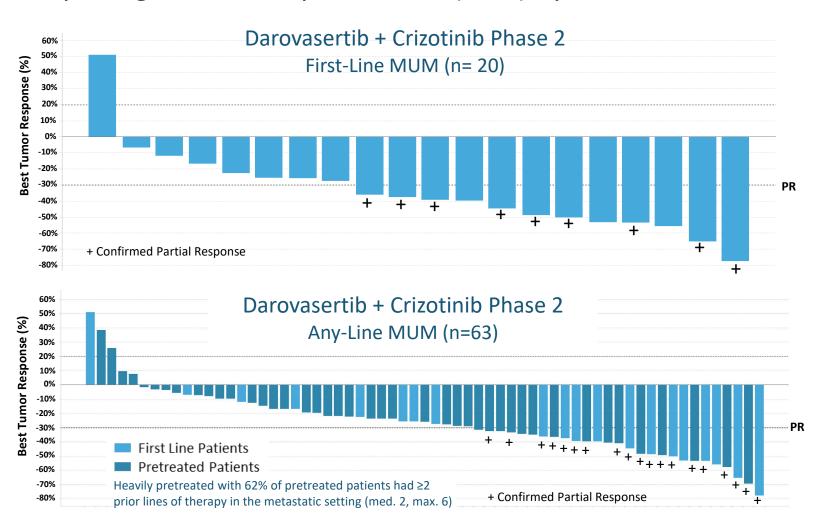
[#] N Engl J Med 2021; 385:1196-1206; ECOG data missing in Tebentafusp and Control arm of 4% and 7% respectively

[^] Investigator Choice distribution in the control group: 103 (82%) received pembrolizumab, 16 (13%) received ipilimumab, and 7 (6%) received dacarbazine



Daro + Crizo Phase 2 Efficacy: First-Line MUM and Any-Line MUM

Compelling Overall Response Rate (ORR) by RECIST 1.1 Observed



Confirmed 45% ORR and 90% DCR

Response by RECIST 1.1 First-Line MUM	Evaluable (N=20)
Confirmed ORR (9/20)	45%
Tumor Shrinkage (19/20)	95%
>30% Tumor Shrinkage (12/20)	60%
Best Overall Response	
cPR (9/20)	45%
SD (9/20)	45%
DCR (18/20)	90%

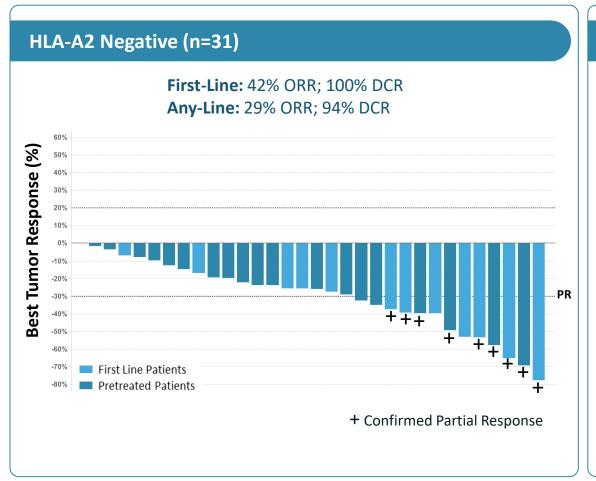
Confirmed 30% ORR and 89% DCR

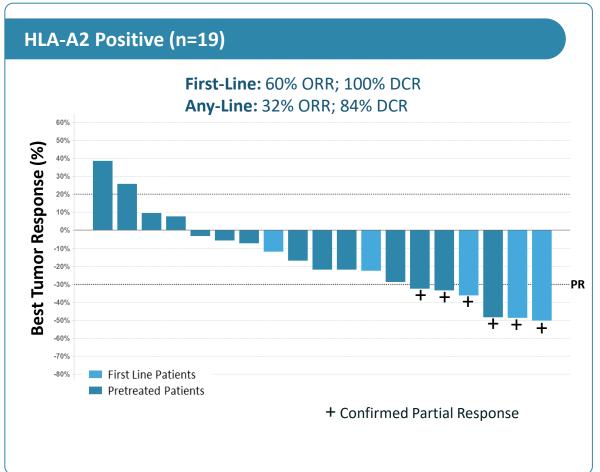
Response by RECIST 1.1 Any-Line MUM	Evaluable (N=63)
Confirmed ORR (19/63)	30%
Tumor Shrinkage (58/63)	92%
>30% Tumor Shrinkage (27/63)	43%
Best Overall Response	
cPR (19/63)	30%
SD (37/63)	59%
DCR (56/63)	89%





Daro + Crizo Phase 2 Efficacy: HLA-A2-Negative and HLA-A2-Positive MUM Clinical Combination Observes Clinical Efficacy Irrespective of HLA-A2 Status





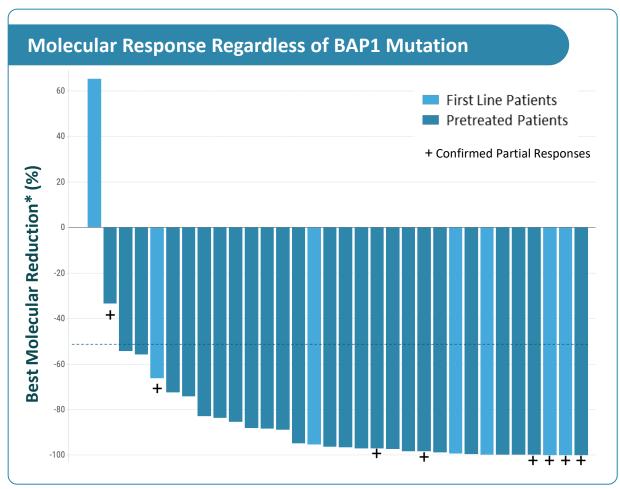
ESMO 2023 Proferred Presentation M McKean et al: preliminary analysis of unlocked database as of 08/22/2023 by investigator review; data cutoff based on treatment Day 1 of Cycle 1 (C1D1) as of 9/22/2022

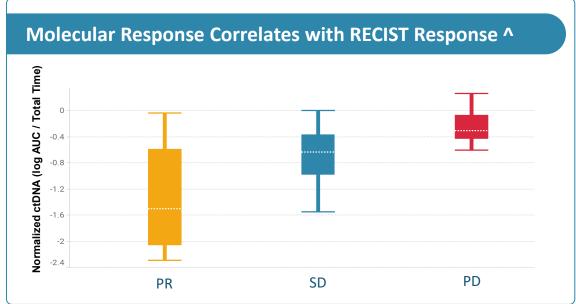




Observed 94% ctDNA Molecular Response Rate with Deep & Sustained MRs*

Any-Line MUM Patients Treated with the Darovasertib + Crizotinib Combination





High ctDNA Molecular Response Rate of 94% in Any-Line MUM Deep and Sustained MRs with approximately 80% of patients showing >80% reduction in MAF

ctDNA MRs correlate with Clinical Efficacy (PR, SD, PD) by RECIST

ESMO 2023 Proferred Presentation M McKean et al: Preliminary analysis of unlocked database as of 08/22/2023 by investigator review; data cutoff based on treatment Day 1 of Cycle 1 (C1D1) as of 9/22/2022



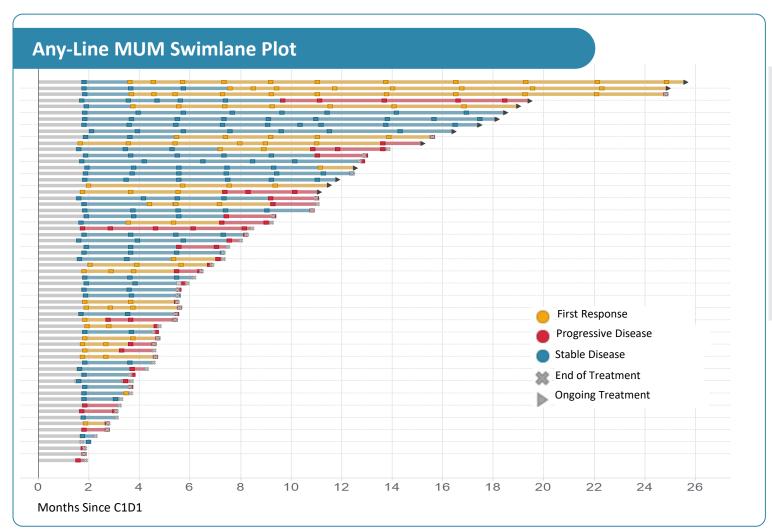
^{*}Molecular response (MR) defined as at least 50% reduction in percentage of Mean Allele Frequency (MAF) at any timepoint

[^] Best Overall Response



Median PFS in First-Line, Any-Line and Hepatic-Only MUM

Observed Compelling Median Progression Free Survival with Encouraging Trend



Darovasertib + Crizotinib Phase 2

Median Progression Free Survival

- First-Line (n=20): 7.1 months
- Any-Line (n=63): 6.8 months
- Hepatic-Only (n=19): 11.0 months

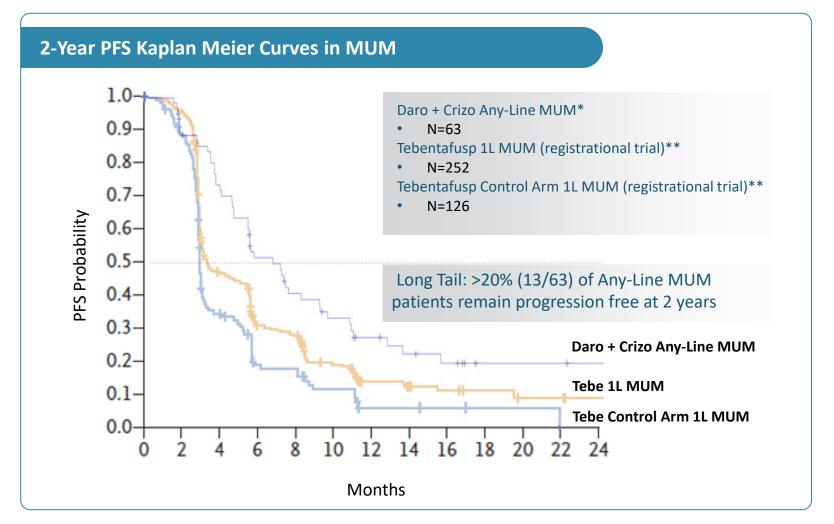
Treatment Duration – Observations

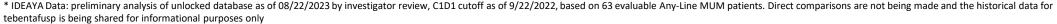
- ~50% of patients treated > 6 months
- ~30% of patients treated > 1 year



2-Year PFS Kaplan Meier (KM) Curve: Daro + Crizo in Any-Line MUM*

Daro + Crizo Combo Observes a Promising 2-Year PFS KM Curve and a "Long Tail" Effect









Darovasertib + Crizotinib Combination Clinical Summary in MUM

Highly Differentiated Clinical Efficacy & AE Profile Observed*, **

	Darovasertib + Crizotinib	Cabozantinib Mono / Crizotinib Mono	Selumetinib + DTIC	lpi + Nivo	Tebentafusp
Target / Mechanism	PKC + cMET	сМЕТ	MEK + Chemotherapy	CTLA4 + PD1	HLA-A2-0201 Bi-Specific
Study Name(s)	NCT03947385	A091201^ / NCT05063058 ^^^^	NCT01974752^^^	NCT02626962##	IMCgp100-102#
Population	1L/2L/3L+ MUM (n=63)	1L+ MUM (n=31) / 1L (n=6) 2L (n=1) MUM	1L+ MUM (n=97)	1L MUM (n=52)	2L+ MUM (n=127)
Patient Selection	NA	NA / MET Overexpression	NA	NA	HLA-A2-positive
Drug Form	Oral Tablets	Oral Capsules	Oral Capsules + chemo	IV infusion	IV Infusion (Weekly)
Tolerability (Grade ≥3 Drug-Related AE)	31%	51.6% / NA	63% (All Cause)	58%	46.5%
% of Patients with Tumor Shrinkage	First-Line = 95% / Any-Line = 92% / Hepatic Only = 100%*	23% ^^ / NA	35% ^^	27% ^^	44% ^^
Confirmed ORR% (by RECIST 1.1)	First-Line = 45% / Any-Line = 30% / Hepatic Only = 37%*	0% / 0%	3%	11.5% (not confirmed ORR)	4.7%
Median PFS	First-Line: 7.1 months / Any-Line: 6.8 months / Hepatic-Only: 11.0 months*	2 months / NA	2.8 months	3 months	2.8 months

⁺ Cross-trial comparisons are not based on head-to-head studies and are presented for informational purposes; no direct comparisons are being made

⁺⁺ ESMO 2022: F. Dimitriou, et. al: IPI + Nivo Combo in HLA-A2-0201 MUM reports ~6% ORR (2 PRs out of 33 patients)

^{*} ESMO 2023 Proferred Presentation M McKean et al: Preliminary analysis of unlocked database as of 08/22/2023 by investigator review; data cutoff based on treatment Day 1 of Cycle 1 (C1D1) as of 9/22/2022

[#] Based on Immunocore reported 2L+ study data (to reflect comparative patient population) and by independent review and ORR% was with confirmed PRs; ## ASCO 2021, J. Piulats, et. Al, Ipi = ipilimumab, nivo = nivolumab, ORR% did not require PR/CR confirmation

[^] Randomized Phase II Trial and Tumor Mutational Spectrum Analysis from Cabozantinib versus Chemotherapy in Metastatic Uveal Melanoma (Alliance A091201); Clin Cancer Res 2020;26:804–11

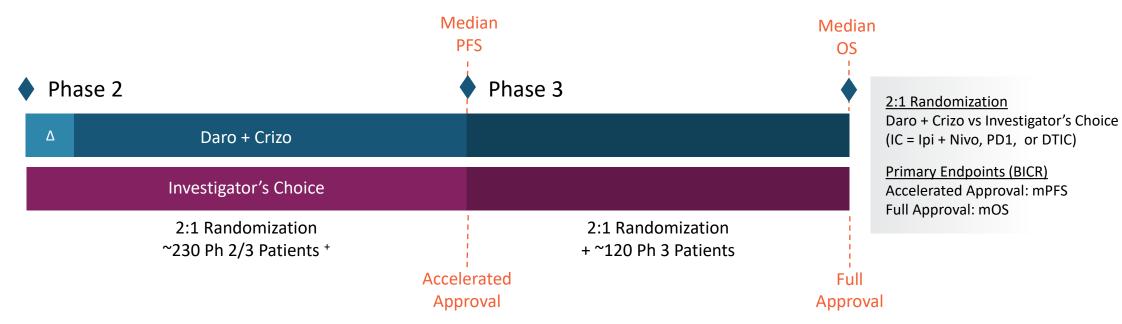
^{^^} Estimated from Waterfall plot

Accelerated Approval Trial Design in First-Line HLA-A2 Negative MUM

FDA Guided Design: Open Label Ph2/3 Evaluation of Daro + Crizo vs. Investigator's Choice ^

FDA Project FrontRunner: Target First-Line approval strategy to enhance patient benefit in MUM **FDA Accelerated Approval:** Address unmet need in MUM, which has limited effective treatment options

Integrated Phase 2/3 Study within Study Enables Potential Accelerated Approval & Full Approval



FDA Fast Track and EMA SME Status Designation for Daro + Crizo in MUM



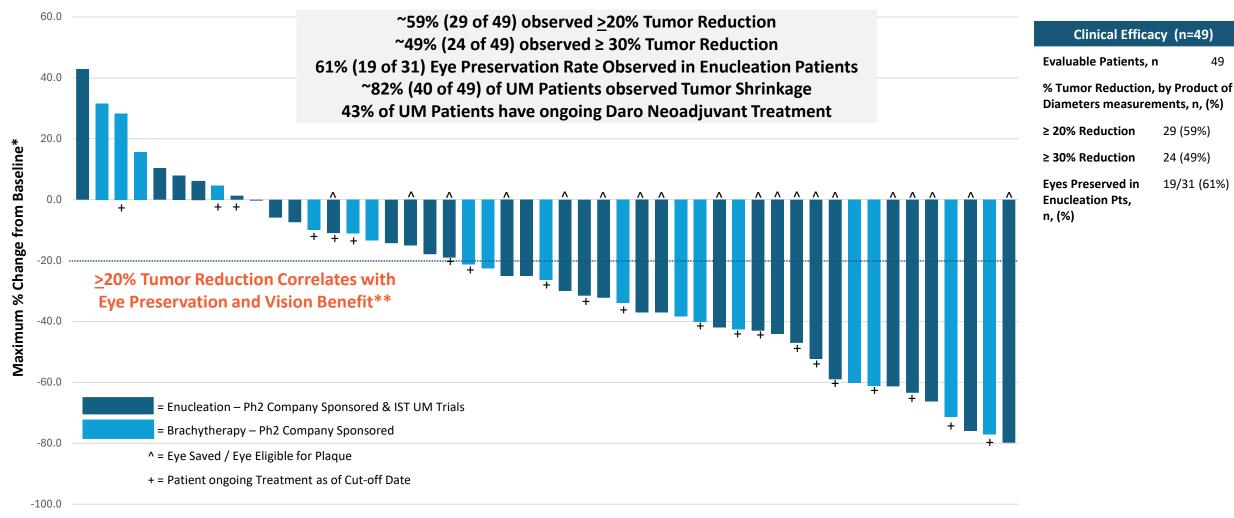
[△] Nested study to confirm move forward dose: (i) Daro 300 mg BID + Crizo 200 mg BID or (ii) Daro 200 mg BID + Crizo 200 mg BID

^{*} Phase 2 study contemplates data set of n=200 patients randomized 2:1 with treatment arm at move forward dose in support of potential accelerated approval based on mPFS

Daro = Darovasertib, Crizo = Crizotinib, MUM=Metastatic Uveal Melanoma, HLA-A2 = HLA-A2*02:01 Serotype, IC = Investigator's Choice, Ipi = ipilimumab, nivo = nivolumab; DTIC = dacarbazine

^ Clinicaltrials.gov: NCT05987332

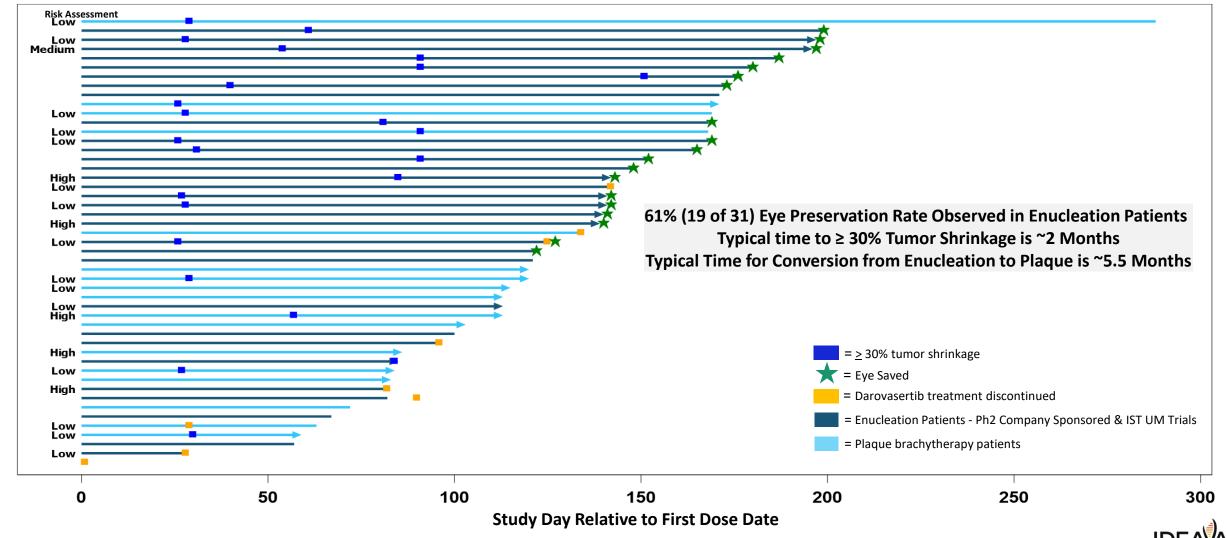
Darovasertib Neoadjuvant Therapy: Ph2 Company Sponsored & Ph2 IST UM Trials 61% (19 of 31) Observed Eye Preservation and 49% (24 of 49) with >30% Tumor Reduction*





Darovasertib Neoadjuvant Therapy: Ph2 Company Sponsored & Ph2 IST UM Trials

Swimlane Plot (n=49)*



Enucleation Case Study: Darovasertib Neoadjuvant UM Treatment

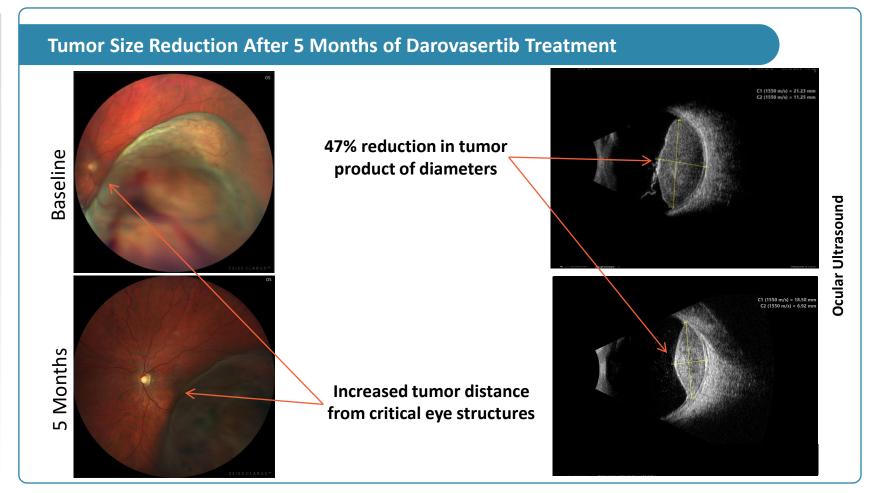
Robust Ocular Tumor Shrinkage and Increasing Distance from Critical Structures

20+ year old male with large tumor obstructing fovea/macula and optic disc/nerve with GNA11 – Q209L mutation enrolled in the Enucleation Cohort. Patient is Class 1A, PRAME+

After 5 months of treatment**

- -39% in Tumor Thickness
- -47% in Product of Diameters
- -54% in Volume

Patient eligible to convert to plaque brachytherapy



Images provided courtesy of David Reichstein, MD, Tennessee Retina



^{*} Patient enrolled in Phase 2 company-sponsored neoadjuvant UM study

^{**} Data from an unlocked, unverified database

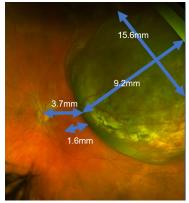


Phase 2 Darovasertib Neoadjuvant UM IST Results in Enucleation Patients Pre & Post Darovasertib Treatment Radiation Plaque Planning and Vision Implications

Baseline & Post Baseline Measurements

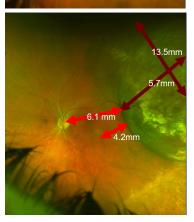
Baseline Tumor Size Measurements

 Distance of tumor to optic nerve and fovea are 3.7 mm and 1.6 mm respectively



Post Baseline Tumor Size Measurements

 Distance to tumor from optic nerve and fovea increased by ~65% and ~163% respectively



Plaque Treatment Plan Baseline Plaque Size Requirements Patient requires an Iodine plaque at Baseline lodine Plaque **Post-Baseline Plaque Size Requirements** Increased distance to critical structures and tumor enables smaller Ruthenium plaque (less radiation) Ruthenium Plaque

Reduced Radiation to Critical Structures & Potential Improvement in Vision*

	Baseline	Post Baseline	Change
Dose to nerve	78 Gy	13 Gy	-83%
Dose to fovea	157 Gy	59 Gy	-62%
1-year probability of visual loss	~67%	~20%	-
3-year probability of visual loss	~95%	~43%	-

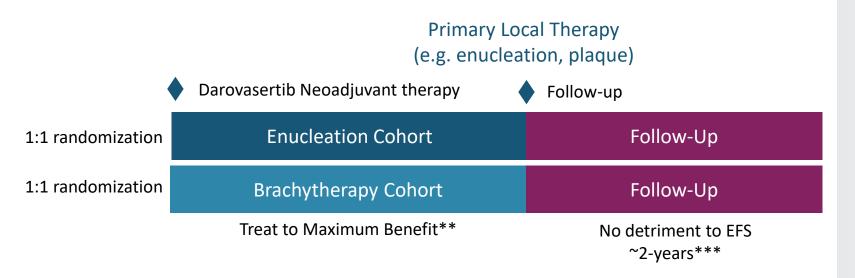


Adapted from A Joshua, ASCO 2024, NADOM Investigator Sponsored Trial (IST): NCT05187884 Slides courtesy of Dr Rod O'Day and Lotte Fog

^{*} Aziz et al., 2016 (Visual acuity of 20/200 or worse)

Darovasertib Neoadjuvant UM Phase 3 Trial Design for Regulatory Approval

Paradigm Shifting Opportunity to Save the Eye and Protect Vision



Primary Endpoints*

- Cohort 1: Eye Preservation
- Cohort 2: Time to Vision Loss

Secondary Endpoints

 Cohort 1 and 2: No detriment to Event Free Survival (EFS). Initial EFS readout anticipated in ~2-years

FDA discussion ongoing for use of ORR as potential surrogate and composite endpoint for earlier approval scenarios

Currently projecting ~400 patient enrollment****

Three Independent Approaches for Demonstrating Clinical Benefit With Approval Pathway

Enucleation Cohort → Save the Eye

Brachytherapy Cohort → Protect Vision

Follow-up → No detriment to EFS



^{*}FDA briefing book notes clinical endpoint target to exceed a lower bound of 10% for eye preservation rate with a 95% confidence interval

^{**} Treatment to maximum benefit: continued observation of ocular tumor shrinkage

^{***}Estimate of initial no detriment EFS readout of UM patients with high risk of metastatic disease

^{****} Finalization pending FDA discussions; current preliminary enrollment projections. Target to enroll UM patients with high-risk of metastatic disease

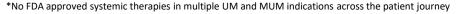
Darovasertib and Uveal Melanoma Patient Journey

High Unmet Need and Multiple First-Line Opportunities in UM and MUM*

+95% of UM patients harbor GNAQ/GNA11 mutation

		Uveal Melanoma Patient Journey								
	Neoadjuvant UM			Adjuvant UM		MUM				
HLA-A2-Negative (~70% of UM / MUM)**	FDA Approved Therapies*	Daro Phase 2/3 Enucleation Define	Daro Phase 2/3 Radiation Define	PDA Approved Therapies* Daro Phase 2		No FDA Approved Therapies*	Daro + Crizo Registrational Trial Accelerated Approval Full Approval			
HLA-A2-Positive (~30% of UM / MUM)**	No FDA	Approval Approval Path Path		No FDA /		Daro + Crizo Target NCCN / Compendia Listing				
Target Treatment Duration		<u>></u> 6 moı	nths		≥6 months		mPFS + ~3 months			
Target Clinical Endpoints		Time to Vis	Vision Loss,		eservation, Vision Loss, iment to EFS		Relapse Free Survival		ORR, mPFS, mOS	
Annual Incidence US/EU**		~12	12K		~12K		~4-5k			

FDA Orphan Drug Designation in Uveal Melanoma⁺; FDA Fast Track Designation in Metastatic Uveal Melanoma Phase 2/3 Registrational Trial Ongoing in HLA-A2 negative 1L MUM for both Accelerated and Full Approval



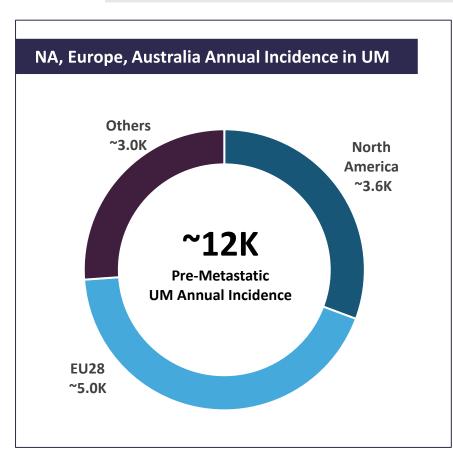
^{**}IDEAYA data: ~70% of MUM patients were HLA-A2-negative based on 149 patients tested for HLA-A2 status as presented at ESMO 2023; US/EU MUM annual incidence and total prevalence based on market research analysis
† Orphan Drugs benefit from certain tax credits and may be excluded from certain mandatory price negotiation provisions of the 2022 Inflation Reduction Act



Annual Incidence of Pre-Metastatic UM*

North America, Europe, and Australia

High Unmet Need: No FDA-Approved Therapies for Pre-Metastatic Uveal Melanoma



Projected Addressable UM Total Prevalence is Multiples of Annual Incidence

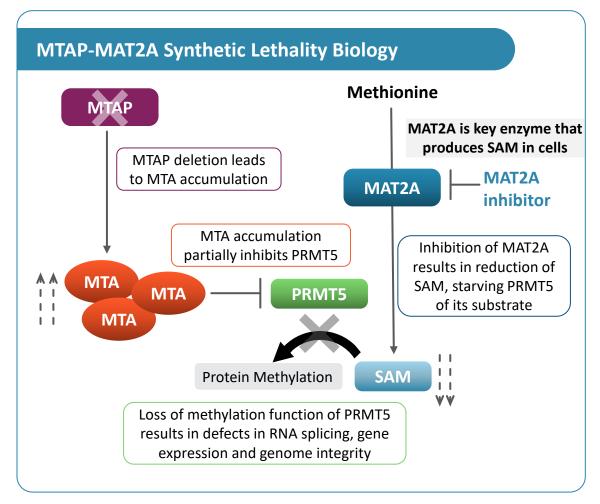
Pre-Metastatic Uveal Melanoma						
Small Tumors	Medium Tumors	Large Tumors				
~30% of patients ¹	~50% of patients ¹	~20% of patients¹				
 Tumors measuring <3mm in apical height and basal diameter of <5mm Primarily managed with close observation Treatment reserved until growth is observed 	 Tumors measuring 3 to 8mm in apical height and basal diameter of <16mm Treatment at this stage can be plaque brachytherapy, PBT, or enucleation 	 Tumors measuring >8mm in apical height or basal diameter >16mm Most notable therapies are CPRT and enucleation Enucleation preferred as they may not be managed with RT 				

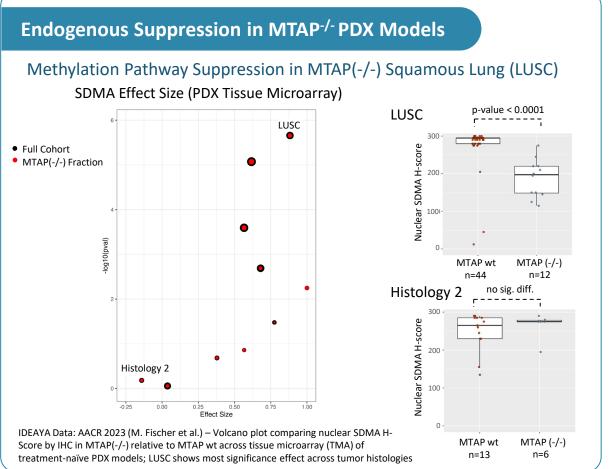
¹ Weighted average of tumor sizes across patients with iris, ciliary, and choroidal melanoma; PBT: Particle Beam Therapy; CPRT: Charged Particle Radiation Therapy; RT: Radiation Therapy; UM = Uveal Melanoma; Source: Paul. NEJM, 2021; Sayan. ROJ, 2020; Shields. Arch Opthalmol. 2009; Clear View Analysis



MAT2A Inhibition is Synthetic Lethal with MTAP-Deletion

Strategies to address MTAP-/- Prevalence in ~15% of all Solid Tumors

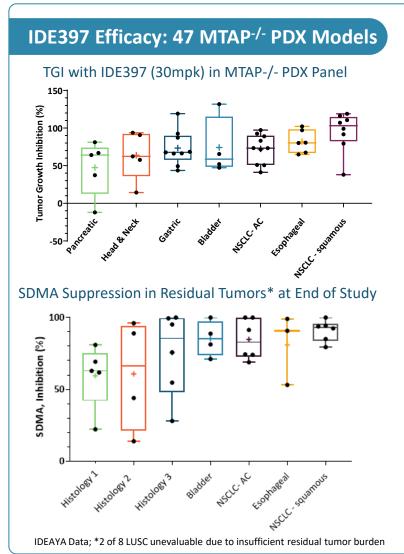


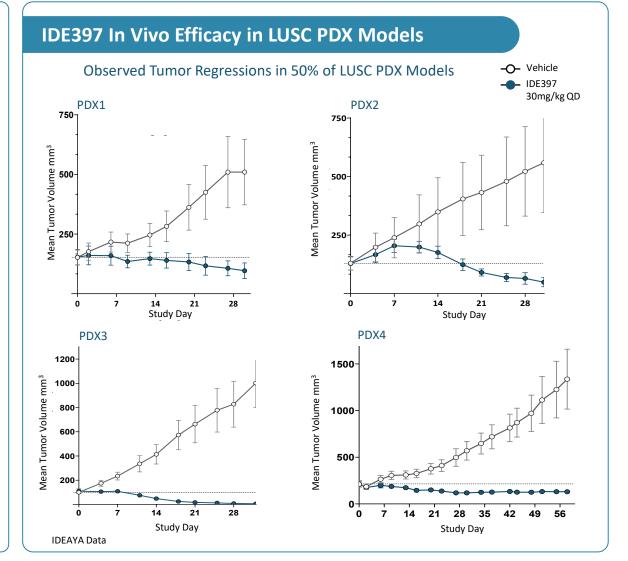




IDE397 Demonstrates Broad Efficacy across MTAP-Deletion PDX Models

Deep Regressions observed in NSCLC-squamous (LUSC), Esophageal and Bladder Cancers

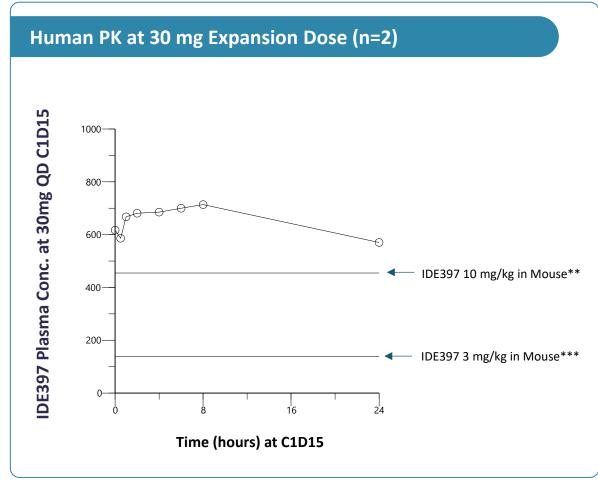


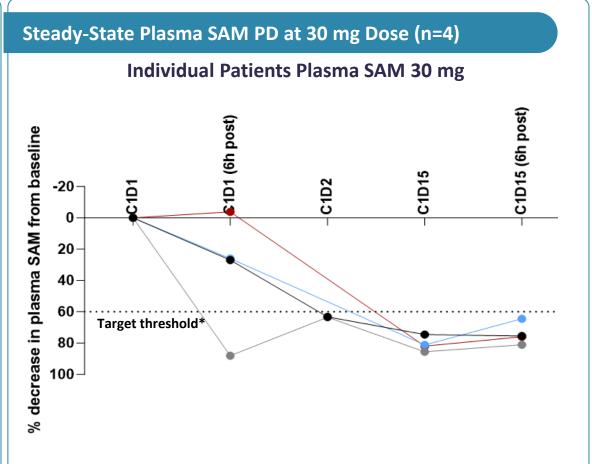




IDE397 Human Pharmacokinetics (PK) and Pharmacodynamics (PD)

30mg QD Expansion Dose Delivers Target Drug Coverage and Robust Plasma SAM PD





^{*} IDEAYA Investigator's Brochure: Target threshold for human plasma SAM reduction determined based on anti-tumor response observed by IDE397 in MTAP-deletion xenograft preclinical models



^{**} IDE397 at \geq 10 mg/kg in mouse observes tumor regressions in MTAP-deletion xenograft models

^{***} IDE397 at 3 mg/kg in mouse observes tumor regressions in combination with clinical stage MTA-cooperative PRMT5 inhibitors in MTAP-deletion xenograft models

Preliminary IDE397 Adverse Event Profile of 30mg QD Ph2 Expansion Dose

MTAP-Deletion Solid Tumor Patients

- Favorable adverse event (AE)
 profile demonstrated for the
 30 mg Phase 2 expansion dose
 (n=18)
- ~5.6% of grade ≥ 3 drugrelated AFs
- No drug-related SAEs
- No discontinuations due to drug-related adverse events making long-term dosing feasible

Drug-Related Adverse Event Profile (>5%), n=18

	Drug Related AE		Drug Relate	ed Serious AE
Preferred Term	Grade >=3 n (%)	All Grade n (%)	Grade >=3 n (%)	All Grade n (%)
Any Event	1 (5.6%)	11 (61.1%)	0 (0.0%)	0 (0.0%)
Nausea	0 (0.0%)	3 (16.7%)	0 (0.0%)	0 (0.0%)
Peripheral Neuropathy*	0 (0.0%)	3 (16.7%)	0 (0.0%)	0 (0.0%)
Blood Creatinine Increased	0 (0.0%)	2 (11.1%)	0 (0.0%)	0 (0.0%)
Alanine Aminotransferase Increased	0 (0.0%)	1 (5.6%)	0 (0.0%)	0 (0.0%)
Anemia	0 (0.0%)	1 (5.6%)	0 (0.0%)	0 (0.0%)
Aspartate Aminotransferase Increased	0 (0.0%)	1 (5.6%)	0 (0.0%)	0 (0.0%)
Asthenia	1 (5.6%)	1 (5.6%)	0 (0.0%)	0 (0.0%)
Decreased Appetite	0 (0.0%)	1 (5.6%)	0 (0.0%)	0 (0.0%)
Dehydration	0 (0.0%)	1 (5.6%)	0 (0.0%)	0 (0.0%)
Dizziness	0 (0.0%)	1 (5.6%)	0 (0.0%)	0 (0.0%)
Muscular Weakness	0 (0.0%)	1 (5.6%)	0 (0.0%)	0 (0.0%)
R/O Relative Adrenal Insufficiency	0 (0.0%)	1 (5.6%)	0 (0.0%)	0 (0.0%)
Urethral Discharge	0 (0.0%)	1 (5.6%)	0 (0.0%)	0 (0.0%)

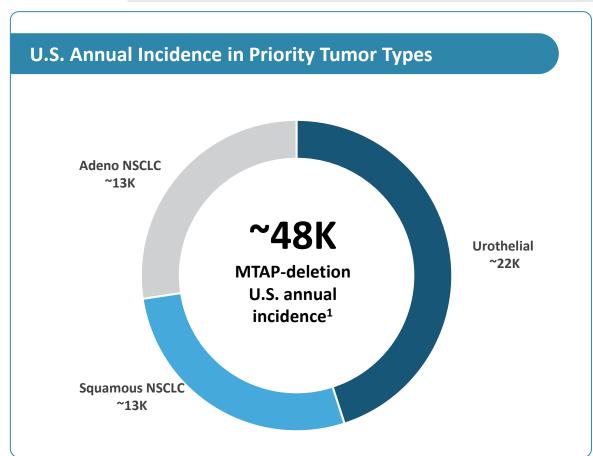
^{*}All 3 patients reporting low grade Peripheral Neuropathy had prior platinum-containing chemotherapy regimens; Data from an unlocked, unverified database as of June 12, 2024 data cut off; AE = Adverse Event

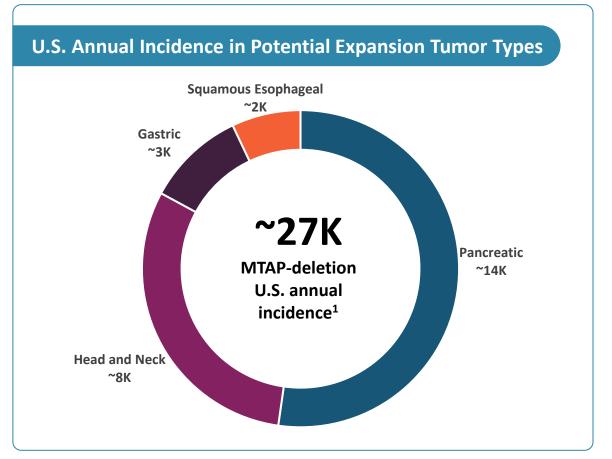


IDE397: Phase 2 Potential First-in-Class MAT2A Inhibitor

~48k U.S. Annual Incidence in MTAP-Deletion NSCLC and Urothelial Cancer

High Unmet Need: No FDA-Approved Therapies for MTAP-Deletion Solid Tumors

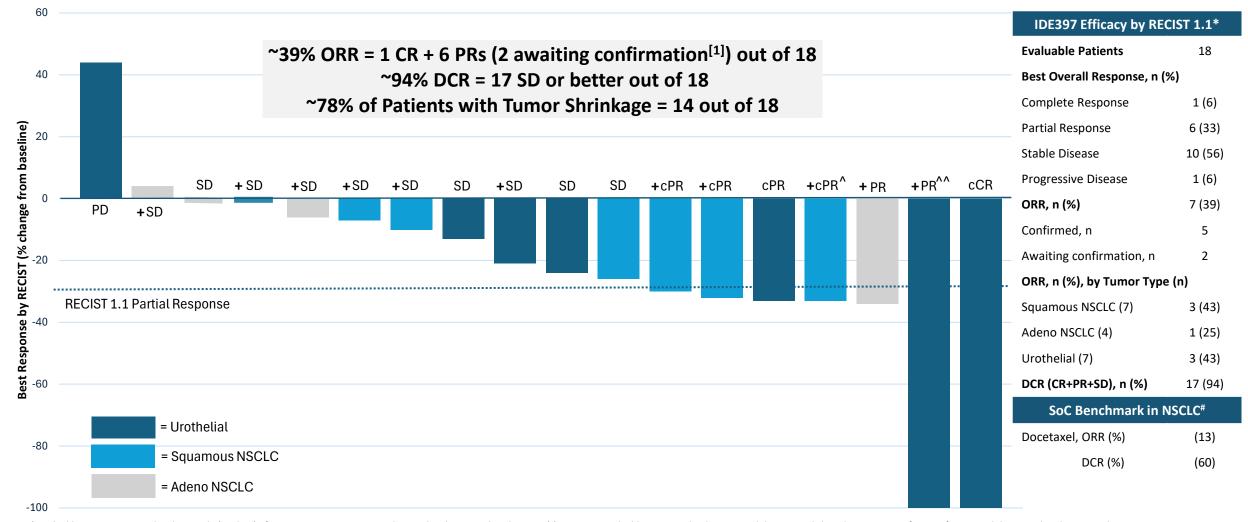






Preliminary IDE397 Efficacy Evaluation of 30 mg Phase 2 Expansion Dose

ORR by RECIST 1.1: 18 Evaluable NSCLC & Urothelial Cancer MTAP-Deletion Patients*



^{*} Evaluable Patients: Treated with \geq 1 cycle (21 days) of IDE397 at 30 mg expansion dose and with \geq 1 post-baseline scan(s); One non-evaluable patient who discontinued due to rapid clinical progression of cancer fatigue and drug-unrelated AEs in cycle 1 ^ Response evaluation by central review; ^^ Urothelial cancer patient that had a -100% tumor reduction in the target lesion at the last CT-scan assessment; + patient still on treatment as of cut-off date;

Data from an unlocked, unverified database as of June 21, 2024 data cut off; CR = Complete Response, PR = Partial Response; SD = Stable Disease; ORR = Overall Response Rate; DCR = Disease Control Rate; c = confirmed response

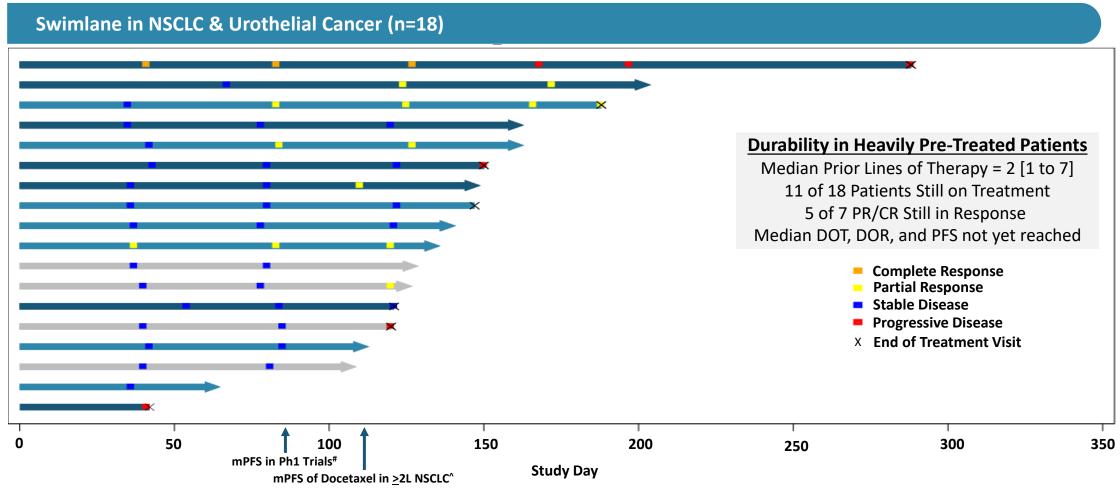
SoC = Standard of Care. Docetaxel ORR and DCR efficacy benchmark data in NSCLC from CodeBreaK 200, Lancet (2023) 401: 733-746; ESMO 2023: TROPION-Lung01 reported 12.8% ORR for Docetaxel in >2L NSCLC (n=305)



[1] As presented on July 8, 2024 IDE397 Investor webcast

Preliminary IDE397 Efficacy Evaluation of 30 mg Phase 2 Expansion Dose

Swimlane: 18 Evaluable NSCLC and Urothelial Cancer MTAP-Deletion Patients*



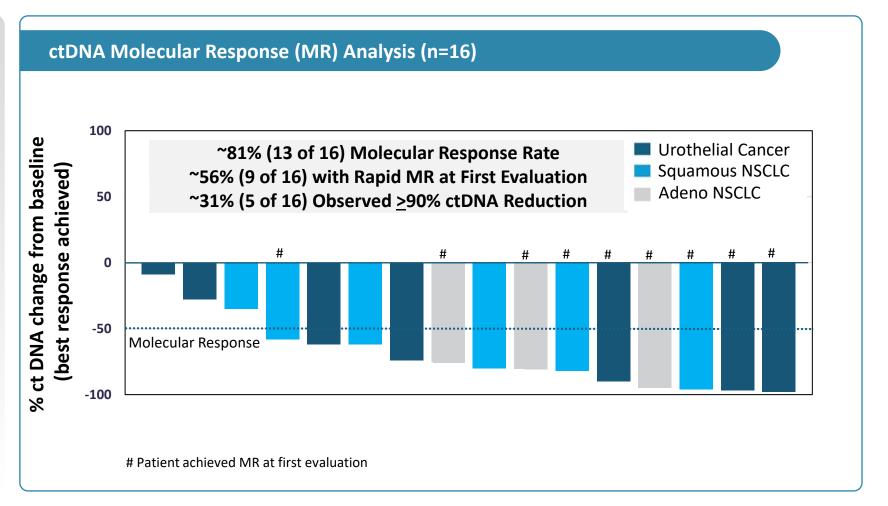
^{*} Evaluable Patients: Treated with \geq 1 cycle (21 days) of IDE397 at 30 mg expansion dose and with \geq 1 post-baseline scan(s); One non-evaluable patient who discontinued due to rapid clinical progression of cancer fatigue and drug-unrelated AEs in cycle 1 Data from an unlocked, unverified database as of June 21, 2024 data cut off; CR = Complete Response, PR = Partial Response; SD = Stable Disease; ORR = Overall Response Rate; DCR = Disease Control Rate; DOT = Duration of Treatment; DOR = Duration of Response; PFS = Progression Free Survival; # Median PFS in Ph1 oncology trials ~3 months, Reference: Arkenau, HT., Olmos, D., Ang, J. et al. Clinical outcome and prognostic factors for patients treated within the context of a phase I study: the Royal Marsden Hospital experience. Br J Cancer 98, 1029–1033 (2008). The confirmed complete response urothelial patient progressed after the week 18 scan due to a drug-unrelated AE dose holiday and then restarted treatment

^ESMO 2023: TROPION-Lung01 reported mPFS of 3.7 months for Docetaxel in >2L NSCLC (n=305)

Preliminary IDE397 Efficacy Evaluation of 30 mg Phase 2 Expansion Dose

~81% ctDNA Molecular Response Rate in 16 NSCLC & Urothelial MTAP-Deletion Patients*

- Molecular Response (MR) analysis of 16 MTAPdeletion patients (3 adeno NSCLC, 7 urothelial, and 6 squamous NSCLC) at 30mg QD expansion dose
- ctDNA reduction observed in all subjects evaluated, including ~56% (9 of 16) with rapid MR at first evaluation and ~31% (5 of 16) with >90% ctDNA reduction





IDE397 Confirmed PR by RECIST 1.1 in NSCLC at 30mg Expansion Dose

Case Report and CT-Scan Images

Baseline Characteristics:

60+ year old male with squamous NSCLC

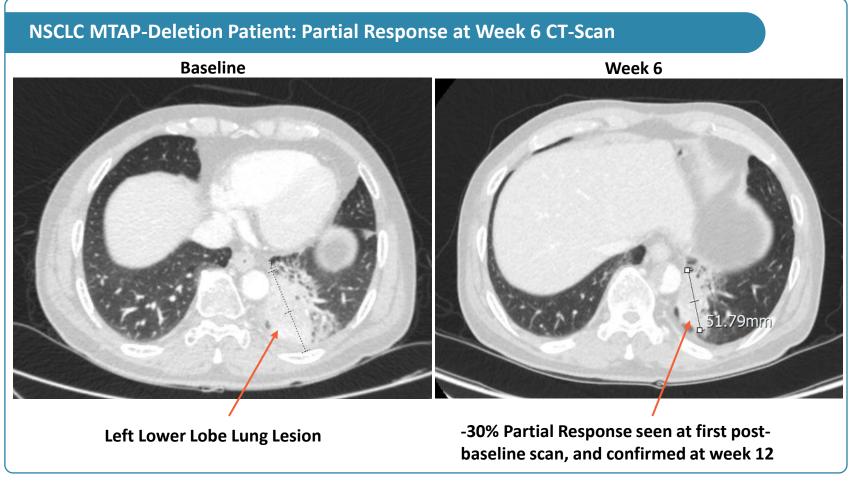
Treatment History:

2 prior lines of therapy:

- Necitumumab + Carboplatin + Paclitaxel followed by
- Gemzar.
- Received palliative radiation therapy

RECIST 1.1 Evaluation:

Unconfirmed Partial Response by RECIST 1.1 at week 6 with -30% reduction and confirmed at week 12



IDEAYA Data (based on preliminary analysis of investigator provided images); tumor lesion reductions by investigator review, from an unlocked unverified database



IDE397 Confirmed CR by RECIST 1.1 in Urothelial at 30mg Expansion Dose

Case Report and CT-Scan Images

Baseline Characteristics:

60+ year old male with high grade urothelial carcinoma of the renal pelvis

Treatment History:

Prior therapy:

- Neo-adjuvant Gemzar/Cisplatin,
- Left Nephro-ureterectomy.
- Adjuvant Nivolumab

Recurrent disease after treatment, including immunotherapy

RECIST 1.1 Evaluation:

Unconfirmed Complete Response by RECIST 1.1 at week 6 and confirmed at week 12

Urothelial MTAP-Deletion Patient: Complete Response at Week 18 CT-Scan Baseline Week 18 **Enlarged Retrocaval Lymph Node, 1.5 cm short axis Continued Complete Response at week 18 scan**

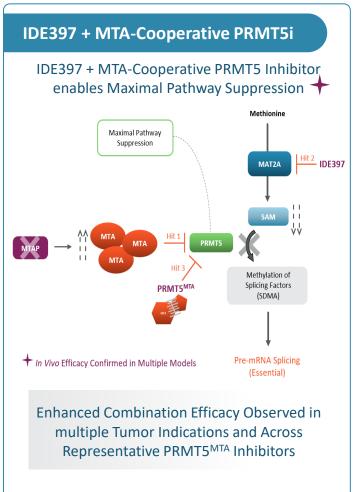
IDEAYA Data (based on preliminary analysis of investigator provided images); tumor lesion reductions by investigator review, from an unlocked unverified database

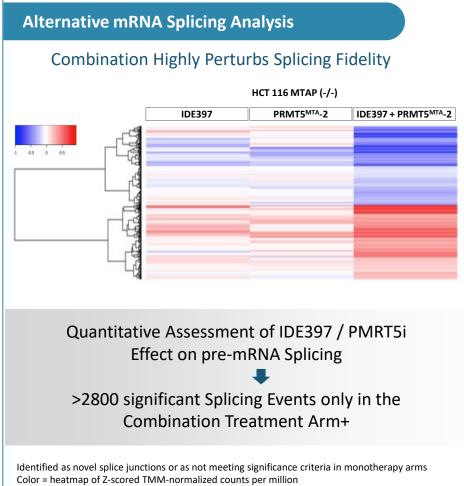


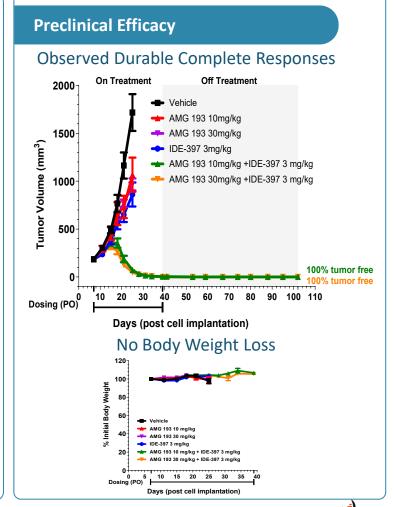
IDE397 Clinical Combination Strategy in MTAP-Deletion NSCLC



Phase 1 Study of IDE397 + AMG 193 (Amgen PRMT5) Clinical Combination Enrolling





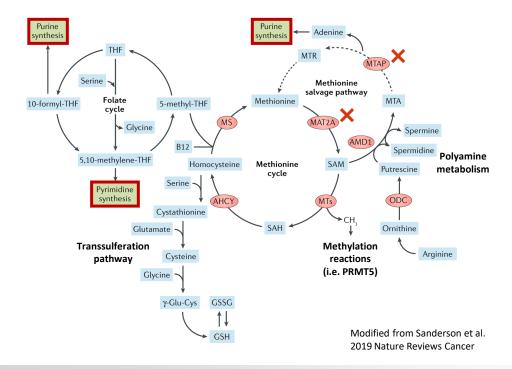




TRODELVY® + IDE397 Combination in MTAP-Deletion Urothelial Cancer

Disordered methionine metabolism underpins IDE397 combination opportunity with TOP1i-based ADC

IDE397 perturbs both nucleotide pools and mRNA splicing in MTAP-/- cells



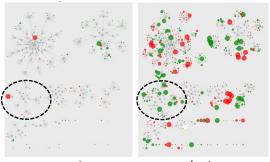
Key clinical correlates underscore combination opportunity

- MTAP-/- UC: shorter survival, lower RR to CPI, shorter PFS and OS with Enfortumab-Vedotin (EV)
- MTAP-/- status is associated with pemetrexed antitumor activity in UC
- A small study evaluating Trodelvy activity in UC post-EV suggested preferential activity in MTAP-/- tumors (RR 50% vs. 19% post EV)
- IDE397 demonstrated monotherapy efficacy in MTAP-/- UC (CR observed in a patient with short DFI post platinum and CPI, other tumor reductions and molecular responses seen)

Metabolic perturbation by IDE397 selectively interacts with MTAP

Metabolite Cytoscape

Global (untargeted) metabolic profiling of MTAPwt vs MTAP-/- +/- IDE397

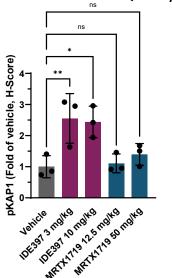


MTAP WT +/- IDE397 MTAP-/- +/- IDE397

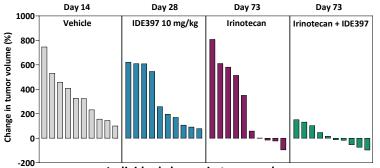
Ovals indicate nucleotide subcluster (purine/pyrimidine); green-decrease, red-increase FDR< 0.05

IDE397 provokes DDR response in vivo

HCT116 MTAP-/- CDX QD 6 days



TOP1i combination delivers durable benefit in challenging RT112/84 UC CDX model



Individual change in tumor volume

Individual tumors measured on day of study group termination as indicated; termination timing was based on endpoint criteria for tumor volume



IDE397 Phase 1/2 Clinical Development Plan in MTAP-Deletion Solid Tumors

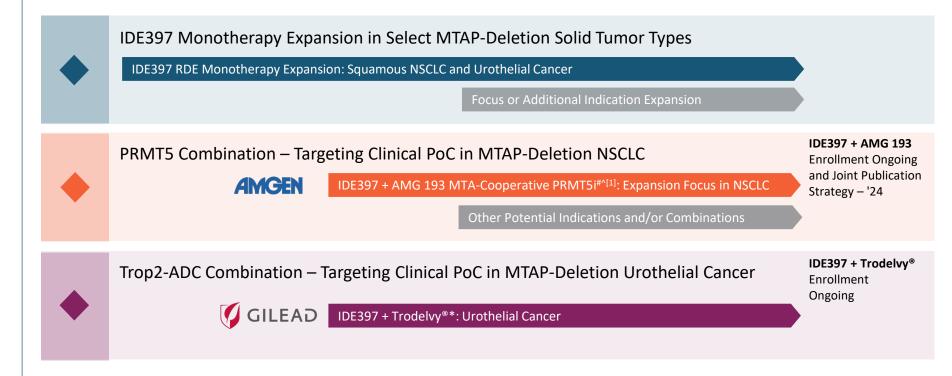
Strategic Focus in Select Monotherapy Indications and High Conviction Clinical Combinations

IDE397 – Clinical Profile

Exposure-Dependent Pharmacokinetic (PK) Profile with low C_{max} : C_{min}

Robust Pharmacodynamic (PD) Response observed

Monotherapy Expansion demonstrated clinical efficacy with Responses in Multiple High-Priority Tumor Types in Dose Expansion, including a Complete Response IDE397 is strategically well positioned to evaluate both monotherapy and clinical combinations in MTAP-deletion solid tumors





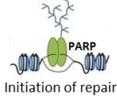
IDE161: Potential First-in-Class Phase 1 PARG Inhibitor

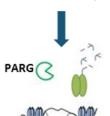
PARG inhibition is synthetic lethal with HRD/replication stress

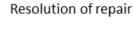
PARG Inhibition is Mechanistically Distinct from PARPi

PARG hydrolyzes PAR chains to resolve DNA repair events

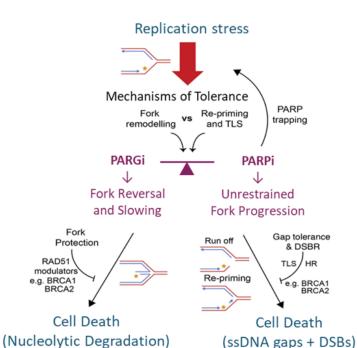
PARG activity is selectively required for tolerance to replication stress







Modified from James et al., ACS Chem. Biol. 2016



Modified from Pillay et al., Progress in Biophysics and Molecular Biology 2021

IDE161 is a potent and selective PARG inhibitor Induction of DNA damage, persistent replication stress and checkpoint activation yH2AX p-ATM p-KAP1 p-RPA 400000 6h 300000 ■ 48h DMSO ■ 72h 200000-100000-MSD 25000 **IDE161** IDE161 conc (uM) Robust anti-tumor activity in PARPi-refractory HRD models **25001 ▼** Vehicle QD; po IDE161 100 mg/kg QD; po 600₁ IDE161 100mg/kg Niraparib 45 mg/kg QD; po 2000 Tumor: µg PAR/mg protein 1500· 1000 500

20

Days on treatment

30

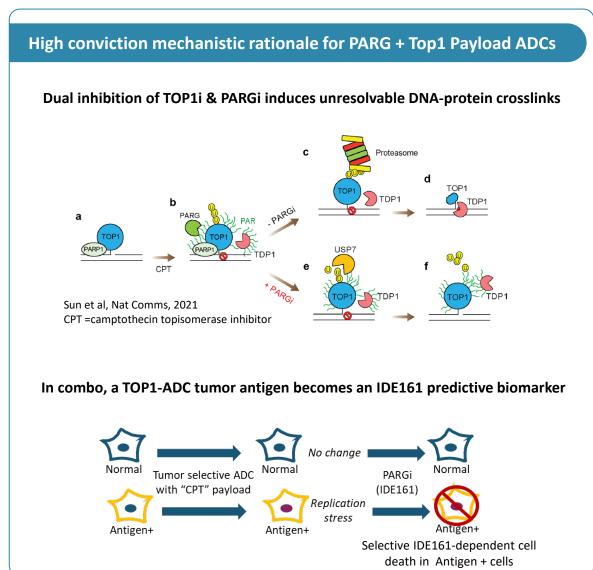
40

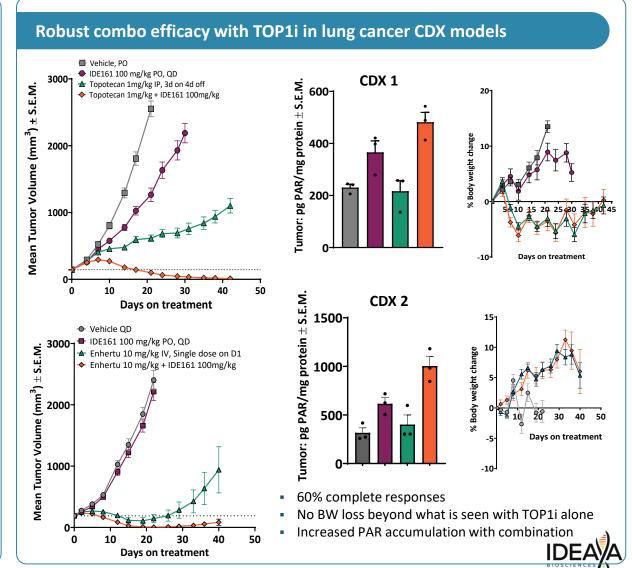


Time post Dose (h)

IDE161: Potential First-in-Class Phase 1 PARG Inhibitor

TOP1-Payload ADC Combo Rationale & Potentially Broad Development Opportunity

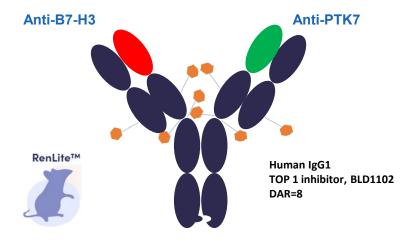




BCG034: Potential First-in-Class B7H3/PTK7 TOP1i Payload Bi-Specific ADC

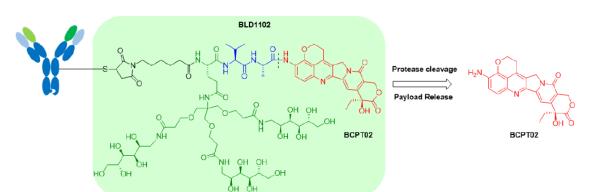
Dual Tumor-Associated Antigen Targeting for Potential Enhanced Therapeutic Window

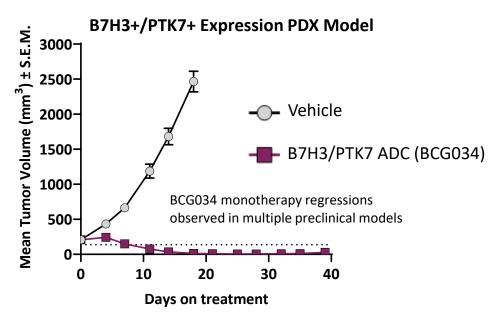
BCG034: B7H3/PTK7 Bispecific Ab-TOP1i ADC*



Knobs-into-holes

Proprietary Topoisomerase I Linker-Payload





- Enhanced tumor versus normal cell binding
- Enhanced internalization efficiency
- Meaningful double-positive disease population**

Indication	B7H3/PTK7 Double Positive %
Lung	29.8%
Colorectal ^[1]	45.9%
HNSCC	27.1%
Ovarian	23.1%

Substantial addressable B7H3/PTK7 patient population



IDE161 Phase 1/2 Clinical Development Plan in HRD Solid Tumors

Strategic Focus in Endometrial, Colorectal, Prostate, Breast & Other Solid Tumor Types

IDE161 Phase 1/2 – Monotherapy and Combination Clinical Development Plan

IDE161 Monotherapy Dose Escalation and Expansion in HRD Solid Tumors^[1]



Dose Escalation



Expansion Cohort: ER+, Her2-, HRD Breast Cancer

Expansion Cohort: HRD Tumors (EC, CRC, Prostate Cancer)

Expansion Opportunities beyond HRD Tumors

IDE161 + KEYTRUDA® (pembrolizumab) in Endometrial Cancer





IDE161+ KEYTRUDA in Endometrial Cancer – Targeting H2 2024 FPI

IDE161 Topo ADC Combination Opportunities Validated Preclinically





IDE161+ B7H3/PTK7 Bispecific Ab-TOP1i ADC

Activity in PARPi- and Platinum-Resistant Settings

Differentiated Sensitivity relative to PARPi's

Targeting Improved Safety
Profile relative to PARPi's

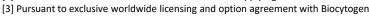
Preliminary IDE161 monotherapy clinical efficacy observed, including RECIST 1.1 Responses and >50% reduction in PSA

ER+, Her2- Breast Cancer Patients with HRD Tumors → ~10% to ~14% of Breast Cancer

Facile peripheral PD Biomarker for PARGi based on measurement of PAR in blood samples (PBMC's)

FDA Fast Track Designation for IDE161 in BRCA1/2 Ovarian and Breast Cancers*

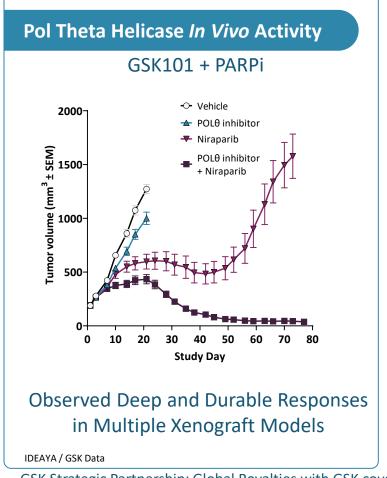
^[2] Pursuant to Merck Clinical Trial Collaboration and Supply Agreement for IDE161 + Keytruda®, Merck's anti-PD-1 therapy; the Company will sponsor the study and Merck will provide Keytruda at no cost

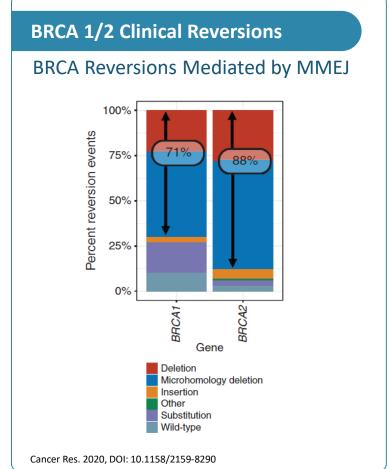


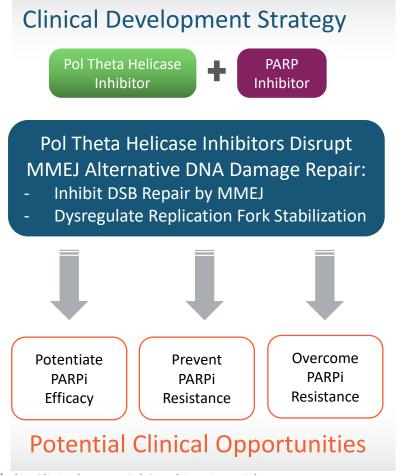


^{*}Fast Track Designations include (i) Pretreated, Platinum-Resistant Advanced or Metastatic BRCA1/2 mutant Ovarian Cancer, and (ii) Pretreated, Advanced or Metastatic HR+, Her2-, BRCA1/2 mutant Breast Cancer PARG = poly (ADP-ribose) glycohyrdolase; PAR = poly (ADP-ribose; PBMC = peripheral blood mononuclear cells, PSA = prostate specific antigen, EC = endometrial cancer, CRC = colorectal cancer [1] Clinicaltrials.gov: NCT05787587

Phase 1 in Combination with Niraparib (PARPi)







GSK Strategic Partnership: Global Royalties with GSK covering all Costs, ~\$1B Milestones, incl up to \$20M Preclinical / Ph1 Clinical Potential Combination with GSK's Zejula™, a PARP Inhibitor

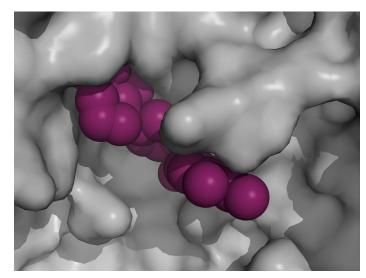


IDEAYA's AI/ML Enabled Drug Discovery Platform and IND-Engine

IND-Filing and Multiple Potential First-in-Class Development Candidates (DCs) Targeted in H2 2024

WRN Helicase

Nominated Werner Helicase Development Candidate

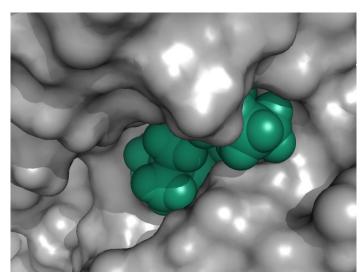


Targeting IND Submission in H2 2024*
MSI-High Tumor Agnostic

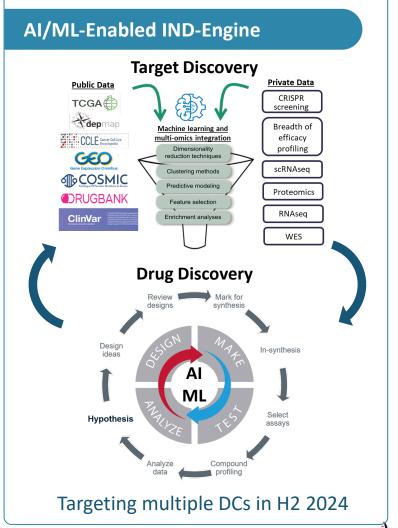
*Pursuant to GSK Collaboration

Multi-Pronged Strategy in MTAP-/-

Next Generation Programs



Enabling wholly-owned rational combination with IDE397







Werner Helicase is Synthetic Lethal with Microsatellite Instability

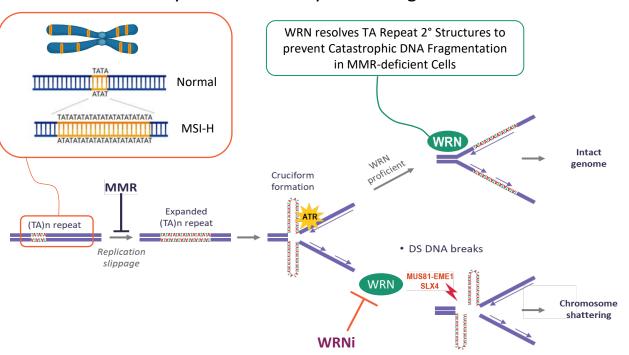
GSK

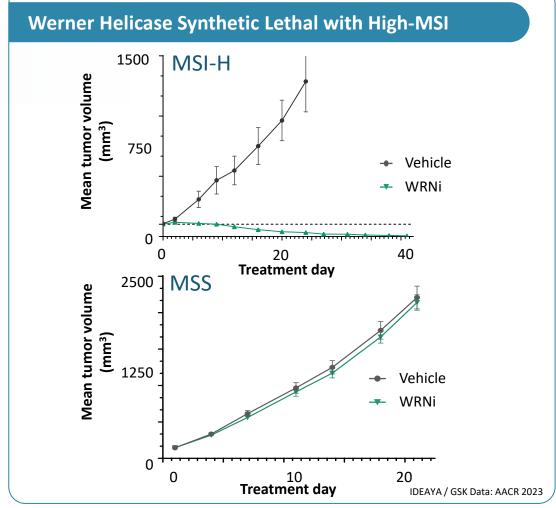
Targeting IND Submission in H2 2024

Werner Helicase Inhibitors Phenocopy Genetic SL in MSI-High Cancers

Nanomolar Potency, Biochemical and Cellular Activity, and Selectivity over other RecQ Helicases

Werner Helicase Synthetic Lethality in MSI-High Cancer Cells





GSK Strategic Partnership: 50/50% US Profit Share and ex-US Royalties, ~\$1B Milestones, incl up to \$20M Preclinical / Ph1 Clinical; Cost Share 80% (GSK) / 20% (IDEAYA); Potential Combination with GSK's Jemperli™, a PD-1 IO Agent



Building a Fully-Integrated Biotech in Precision Medicine Oncology

Foundational Potential First-in-Class Clinical Pipeline and Drug Discovery Platform

CLINICAL PROGRAMS DEVELOPMENT CANDIDATES PRECLINICAL Targeting Multiple DCs in H2 2024, Ph 2/3 – Darovasertib ¹ including in MTAP and potential Ph 2 - IDE397 (MAT2A) 1 Werner DC – Targeting first-in-class in KAT6 pathway Ph 1 – IDE161 (PARG) 1 H2 2024 IND ² Ph 1 – GSK101 (Pol Theta Helicase) ² B7H3/PTK7 Bi-Specific ADC³ **4 Clinical Programs 5 Clinical Programs** >8 Clinical Programs

Darovasertib Registration-Enabling Trial with Potential Accelerated Approval in HLA-A2(-) MUM and Ph3 registrational trial targeted in Neoadjuvant UM is tractable for commercial execution and provides path to potential product revenue to reinvest in broad *first-in-class* pipeline

Potential First-in-Class Precision Medicine Oncology Pipeline, including Darovasertib (Ph2/3), IDE397 (Ph 2), IDE161 (Ph 1), GSK101 (Ph 1), Werner Helicase (IND-enabling), and multiple Development Candidates targeted in H2 2024, including in MTAP and KAT6 pathway

Strong Balance Sheet with ~\$1.2B4 and opportunity for milestones with cash runway into at least 2028

Pharma Collaborations include combinations with Pfizer, Amgen, Gilead, Merck, and GSK partnership with ~\$2 billion² in potential milestones



⁽¹⁾ Clinical Trial Collaboration and Supply Agreements, independently with Pfizer (Darovasertib + Crizotinib), Amgen (IDE397 + AMG193), Gilead (IDE397 + Trodelvy®), and Merck (IDE161 + KEYTRUDA®); IDEAYA retains all commercial rights to its products

²⁾ GSK101 Pol Theta Program Cost Share = 100% GSK with ~\$1B Milestones and WW Royalties; Werner Helicase Program Cost Share = 80% GSK / 20% IDEAYA with ~\$1B Milestones, 50/50 US Profit Share and Ex-US Royalties

⁽³⁾ BCG034: B7H3/PTK7 Top1i Bispecific ADC targeting development candidate nomination H2 2024. Exclusive worldwide licensing and option agreement with Biocytogen

⁽⁴⁾ Includes aggregate of \$952.7M cash, cash equivalents and marketable securities as of June 30, 2024, plus pro forma \$283.8M estimated net proceeds from July 2024 public offering