July 2024

NASDAQ: IDYA

# **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," "would," "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 IDEAYA'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, IDEAYA'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 March 31, 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**

GILEAD

**Pfizer** 

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**AMGEN** 

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

### Broad Pipeline of 4 Clinical Programs with Multiple 2024 Target Milestones and Catalysts

PHASE 2/3	PHASE 1/2	PHASE 1	IND-ENABLING	PRECLINICAL
<ul> <li>DAROVASERTIB (PKC)</li> <li>Daro + Crizo (cMET) 1L MUM Registrational Ph 2/3 Program Update(s) – 2024</li> <li>Daro + Crizo Ph 2 in GNAQ/11 Melanomas</li> <li>Neoadjuvant UM Ph 2 Company-Sponsored Clinical Data Update and Regulatory Guidance Update – H2 2024</li> </ul>	<ul> <li>IDE397 (MAT2A)</li> <li>Phase 2 Clinical Data Update at IDE397 expansion dose in MTAP urothelial cancer and NSCLC</li> <li>IDE397 + AMG 193 (PRMT5)</li> <li>Ongoing Phase 1 Enrollment and Development of Joint Publication Strategy – 2024</li> <li>IDE397 + Trodelvy® (Trop2-ADC)</li> <li>Ongoing Phase 1 Enrollment in MTAP urothelial cancer</li> </ul>	<ul> <li>IDE161 (PARG)</li> <li>Initial Phase 2 Expansion – H2 2024</li> <li>Enable Combination(s) – 2024</li> <li>IDE161 + KEYTRUDA®</li> <li>(pembrolizumab)</li> <li>Phase 1 FPI in Endometrial Cancer – H2 2024</li> <li>GSK101 (POL THETA)</li> <li>Ongoing Phase 1 Dose Escalation</li> </ul>	WERNER HELICASE • IND Submission (\$7M Milestone Upon Successful IND Clearance) – H2 2024	<ul> <li>NEXT GEN PROGRAMS</li> <li>Development Candidate Nominations, including in MTAP and potential first-in- class in KAT6 pathway – H2 2024</li> </ul>
Pharma Collaborations			Financials and Investor Relation	าร

~\$978M to fund operations into 2028<sup>1,2</sup>

NASDAQ: IDYA

IND = Investigational New Drug, UM = Uveal Melanoma, MUM = Metastatic Uveal Melanoma, NSCLC = Non Small Cell Lung Cancer, HRD = Homologous Recombination Deficiency, MTAP = methylthioadenosine phosphorylase

GSK

(1) Includes aggregate of \$941.4M cash, cash equivalents and marketable securities as of March 31, 2024, plus pro forma \$36.5M estimated net proceeds from sales of common stock through at-the-market offerings in April 2024

~\$2B in

potential milestones

(2) \$941.4M of cash, cash equivalents and marketable securities as of March 31, 2024, as disclosed in IDEAYA's Form 10-Q dated May 7, 2024 as filed with the U.S. Securities and Exchange Commission

MERCK



### 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)



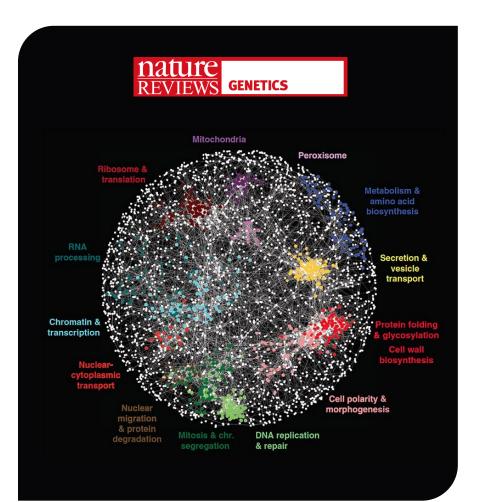
**Functional genomics** combines human genetics with advances in AI and machine learning to develop effective precision medicines



**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

#### **Target & Biomarker Discovery and Validation**



Bioinformatics, including AI Algorithms Dual CRISPR, CRISPR, Chemogenomics Genetically Engineered Models

- Key emerging novel targets identified, such as Werner Helicase, Pol Theta Helicase and PARG
- DECIPHER<sup>™</sup> Dual CRISPR SL Library in DDR Cell Lines in collaboration with UCSD
- PAGEO<sup>™</sup> Paralogous Gene Evaluation in Ovarian in collaboration with Broad Institute
- Machine Learning and Multi-Omics platform

#### Drug Discovery and Pharmacological Validation

Structure Based Drug Design Small Molecule Chemistry Protein Degrader Capabilities

- Crystal structures for SL discovery programs obtained to enable structure-based design
- INQUIRE<sup>™</sup> Chemical Library proprietary, expert-curated small-molecule library
- HARMONY<sup>™</sup> Machine-Learning engine empowers drug discovery platform
- Differentiated clinical / candidate compounds discovered, including IDE397, IDE161 and GSK101 / IDE705 (Pol Theta Helicase)

# Translational Research and Opportunity Expansion

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

- Translational research to define clinical biomarkers and transformative combinations
- Opportunity expansion through broad cell panel screening
- Pharmacodynamic biomarker analysis to confirm target modulation and correlation with clinical activity

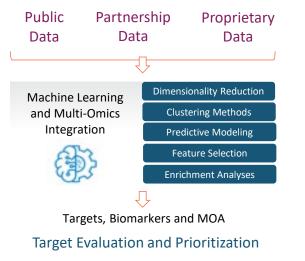


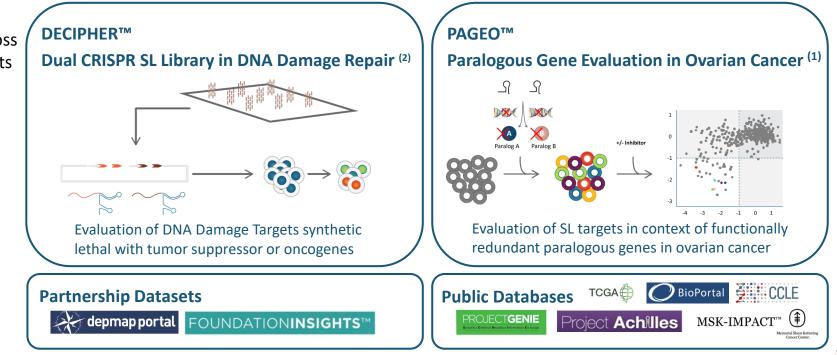
### **IDEAYA Functional Genomics and Synthetic Lethality Platform** Novel Target and Biomarker Discovery and Validation

### 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

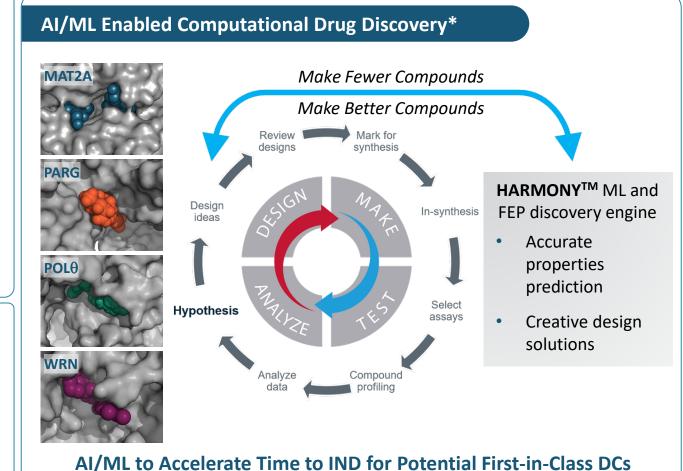
Ligand bound co-crystal structures resolved to enable Structure Based Drug Design for each of the Synthetic Lethality drug-discovery programs

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





### **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)
	+cMET <sup>1</sup> Combination 1L HLA-A2(-) MUM	GNAQ/11						Phase 2 (AA) / Phase 3 registrational trial ^ program update(s) - '24		
Darovasertib	cMET <sup>1</sup> Combination HLA-A2(+) MUM ^	GNAQ/11						HLA-A2(+) clinical trial ^^	Pfizer (1)	WW Commercial
РКС	cMET <sup>1</sup> Combination Melanomas	GNAQ/11						Phase 2 expansion in GNAQ/11 melanomas, including metastatic cutaneous melanoma		Rights
	(Neo)Adjuvant UM	GNAQ/11						Phase 2 company-sponsored clinical efficacy update and regulatory guidance – H2'24		
	Monotherapy Solid Tumors	МТАР						Phase 2 clinical data update at expansion dose in MTAP urothelial and lung cancer		
<b>IDE397</b> <i>MAT2A</i>	Combination Solid Tumors	МТАР						Phase 1 IDE397 + AMG 193 (PRMT5iMTA) ongoing enrollment and joint publication strategy – '24	AMGEN° (2)	WW Commercial Rights
	Combination Urothelial Cancer	МТАР						Ongoing enrollment in Phase 1 IDE397 + Trodelvy®	📢 GILEAD (3)	
	Monotherapy Solid Tumors	HRD						Phase 2 expansion in priority tumor types (Breast, CRC, Endometrial, Prostate) – H2'24		
<b>IDE161</b> PARG	Combination Endometrial Cancer	High-MSI, MSS						Phase 1 IDE161 + KEYTRUDA <sup>®</sup> FPI – H2 '24	•••• MERCK (4)	WW Commercial Rights
	Combinations Solid Tumors	HRD, Others						Enable IDE161 combination(s) – '24		
<b>GSK101</b> Pol Theta Helicase	+Niraparib Combo <sup>4</sup> Solid Tumors	HR Mutations						Ongoing Phase 1 dose escalation	<b>GSK</b> (5)	Global Royalties
<b>WRN</b> Werner Helicase	GI Cancers	High-MSI						Targeting IND submission in H2 2024 (\$7M Milestone upon successful IND clearance)	<b>GSK</b> (5)	50% US Profits and 20% costs
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, ^^ Targeting enrollment of additional HLA-A2(+) patients in a separate clinical trial (e.g., ongoing IDE196-001 Phase 2 clinical trial)

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

(2) Pursuant to Amgen Clinical Trial Collaboration and Supply Agreement for IDE397 + AMG 193, an investigational MTA-cooperative PRMT5 inhibitor; Amgen is the sponsor the study and the parties jointly share external costs of the study

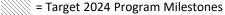
(3) Pursuant to Gilead Clinical Study Collaboration and Supply Agreement for IDE397 + Trodelvy\*, a Trop-2 directed antibody-drug conjugate (ADC); the Company will sponsor the study and Gilead will provide Trodelvy at no cost

(4) Pursuant to Merck Clinical Trial Collaboration and Supply Agreement for IDE161 + Keytruda®, an anti-PD-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

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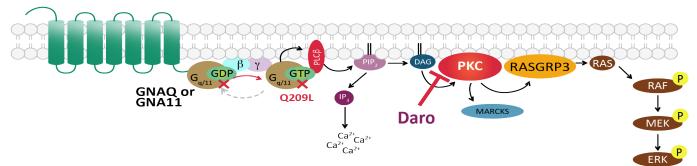
MT22a-methionine adenosyltransferase 2a, MTAP=methylthioadenosine phosphorylase, MTA=methylthioadenosine, PRMT5=protein arginine methyltransferase 5 (PRMT5), PARG= poly (ADP-ribose) glycohydrolase, WRN = Werner Helicase, Pol0 = DNA Polymerase Theta, HRD = homologous recombination deficiency, MSI = microsatellite instability, PKC = protein kinase C, MUM = metastatic uveal melanoma, UM = uveal melanoma, Crizo = crizotinib, NSCLC = non-small cell lung cancer, WW = worldwide, HLA-A2(-) = HLA-A2(-) = HLA-A2(+) = HLA-A2(+)





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

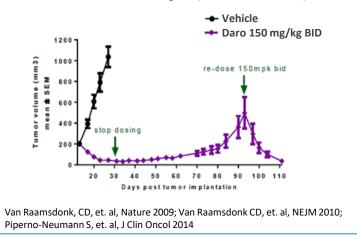
Mutations in GNAQ / GNA11 activate PKC Signaling, a genetic driver of Uveal Melanoma



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

#### Daro Mono Rationale in Primary UM

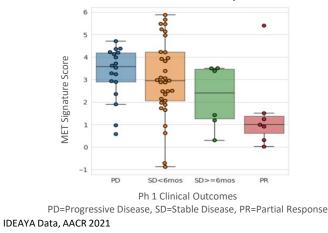
Single Agent Daro Induces Tumor Regression Uveal Melanoma Xenograft (92.1 mutant GNAQ)



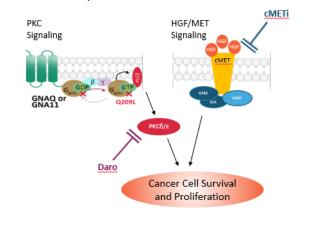
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#### Daro + Crizo Combo Rationale for Use in Metastatic Uveal Melanoma (MUM)

Daro Phase 1 Monotherapy Efficacy Association with cMET Expression



Activation of PKC and cMET Pathways with Observed cMET Overexpression in MUM Liver Metastases





\* 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<sup>+</sup>

Baseline C	Baseline Characteristics		1 Phase 2 <sup>*</sup> o + Crizotinib	Tebentasfusp First-Line Phase 3 <sup>#</sup>		
			First-Line n=20 (%)	Tebe Arm n=252 (%)	Control Arm^ n=126	
	< 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	Μ	31 (49)	11 (55)	128 (51)	62 (49)	
	0	43 (68)	14 (70)	192 (76)	85 (67)	
ECOG PS	1	20 (32)	6 (30)	49 (19)	31 (25)	
Baseline LDH	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	<b>3.1 to 8.0</b> cm	35 (56)	9 (45)	92 (37)	46 (37)	
	≥ <b>8.1</b> 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)

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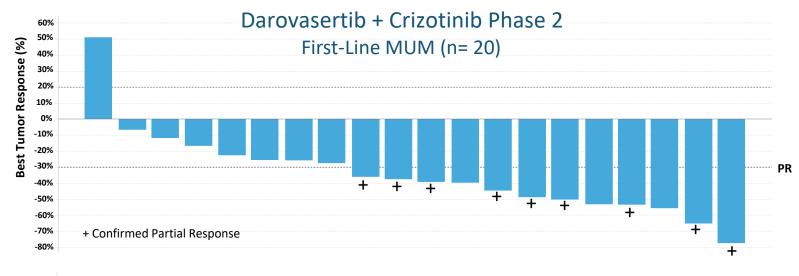
<sup>#</sup> N Engl J Med 2021; 385:1196-1206; ECOG data missing in Tebentafusp and Control arm of 4% and 7% respectively

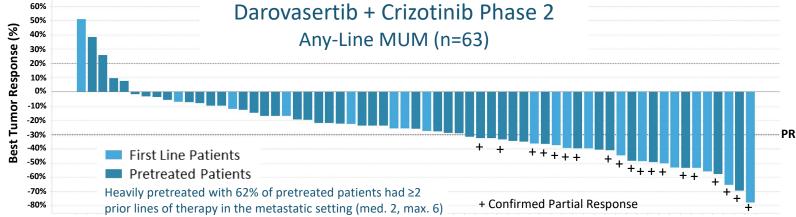
^ Investigator Choice distribution in the control group: 103 (82%) received pembrolizumab, 16 (13%) received ipilimumab, and 7 (6%) received dacarbazine





### **Daro + Crizo Phase 2 Efficacy: First-Line MUM and Any-Line MUM** Compelling Overall Response Rate (ORR) by RECIST 1.1 Observed





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#### 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%

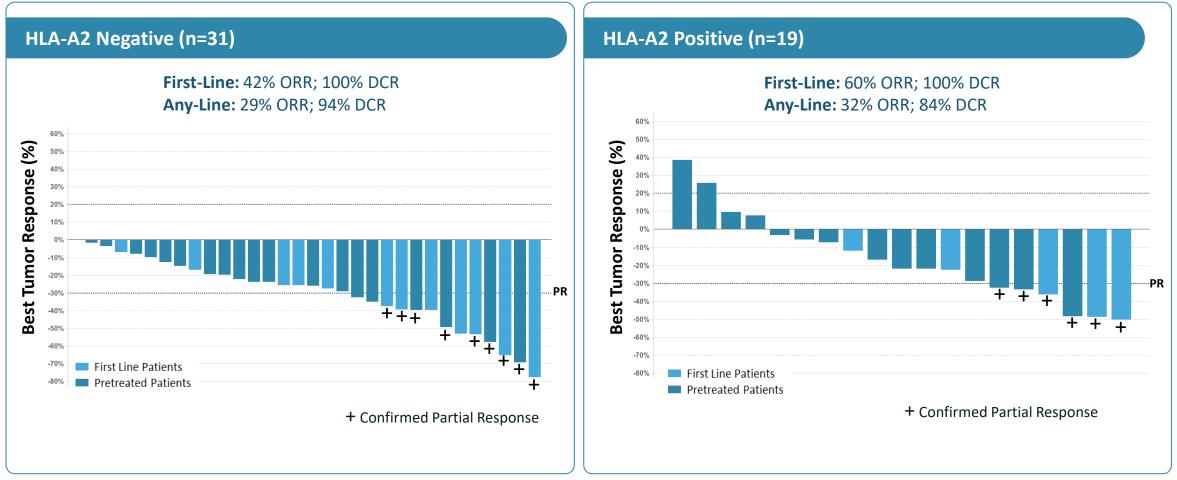
ESMO 2023 Proferred Presentation M McKean et al: preliminary analysis of unlocked database as of 8/22/2023 by investigator review, C1D1 cutoff as of 9/22/2022, based on 20 evaluable 1L MUM patients and 63 evaluable Any-Line (includes 1L and 2L+/pre-treated) MUM patients ORR = Overall Response Rate; DCR = Disease Control Rate; cPR = Confirmed Partial Response; uPR = Unconfirmed Partial Response; SD = Stable Disease





## Daro + Crizo Phase 2 Efficacy: HLA-A2-Negative and HLA-A2-Positive MUM

Clinical Combination Observes Clinical Efficacy Irrespective of HLA-A2 Status

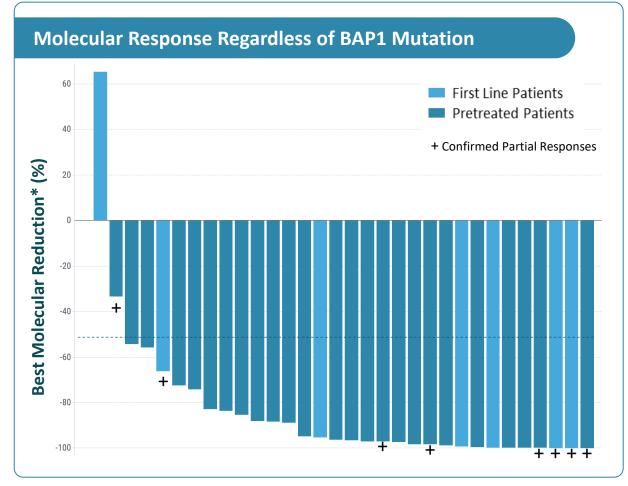


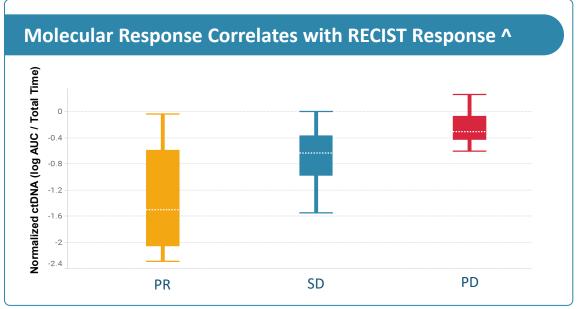
ESMO 2023 Proferred Presentation M McKean et al : preliminary analysis of unlocked database as of 08/22/2023 by investigator review; data cutoff based on treatment Day 1 of Cycle 1 (C1D1) as of 9/22/2022



# 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

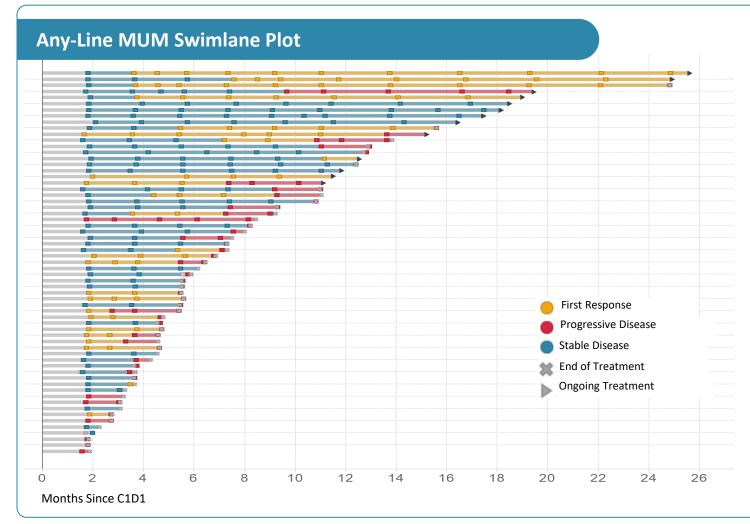
ESMO 2023 Proferred Presentation M McKean et al: Preliminary analysis of unlocked database as of 08/22/2023 by investigator review; data cutoff based on treatment Day 1 of Cycle 1 (C1D1) as of 9/22/2022 \*Molecular response (MR) defined as at least 50% reduction in percentage of Mean Allele Frequency (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

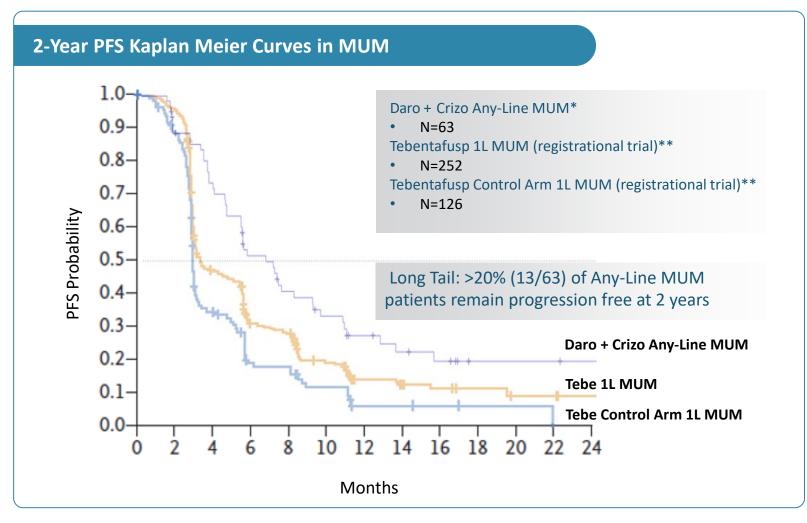


ESMO 2023 Proferred Presentation M McKean et al: Preliminary analysis of unlocked database as of 08/22/2023 by investigator review, C1D1 cutoff as of 9/22/2022, based on 63 evaluable Any-Line MUM patients

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### 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



\* IDEAYA Data: preliminary analysis of unlocked database as of 08/22/2023 by investigator review, C1D1 cutoff as of 9/22/2022, based on 63 evaluable Any-Line MUM patients. Direct comparisons are not being made and the historical data for tebentafusp is being shared for informational purposes only

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\*\* N Engl J Med 2021;385:1196-206; Tebentafusp Phase 3 registrational trial, PFS curves



# Darovasertib + Crizotinib Combination Clinical Summary in MUM

Highly Differentiated Clinical Efficacy & AE Profile Observed<sup>+, ++</sup>

	Darovasertib + Crizotinib	Cabozantinib Mono / Crizotinib Mono	Selumetinib + DTIC	lpi + Nivo	Tebentafusp
Target / Mechanism	PKC + cMET	cMET	MEK + Chemotherapy	CTLA4 + PD1	HLA-A2-0201 Bi-Specific
Study Name(s)	NCT03947385	A091201 <sup>^</sup> / NCT05063058 ^^^^	NCT01974752	NCT02626962##	IMCgp100-102 <sup>#</sup>
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

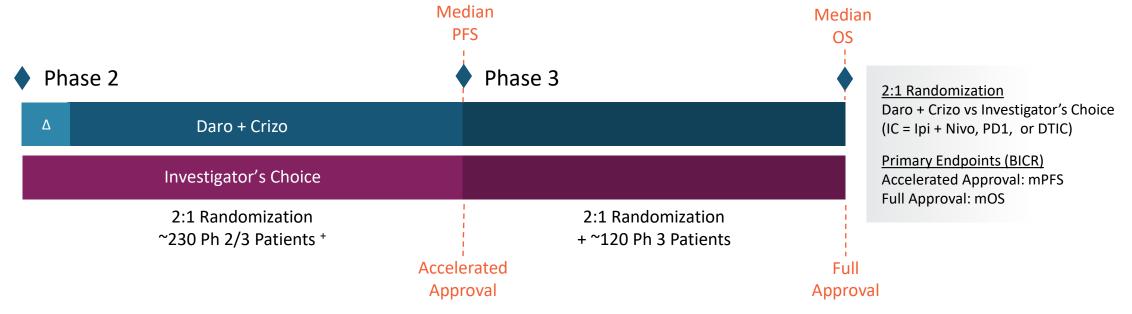
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^^^ Journal of Clinical Oncology, Carjaval, et. al, 2018; 1232-1239; ^^^^ European Journal of Cancer, Leyraz, et. al, 2022; 146-155

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 Designation for Daro +Crizo in MUM

<sup>a</sup> 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

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### **IDEAYA Phase 2 Darovasertib Neoadjuvant UM Company-Sponsored Study** Enucleation & Plaque Eligible Patients who Received >4 Months Treatment (n=8)

Preliminary data on 8 patients treated with neoadjuvant darovasertib for ≥ 4 months

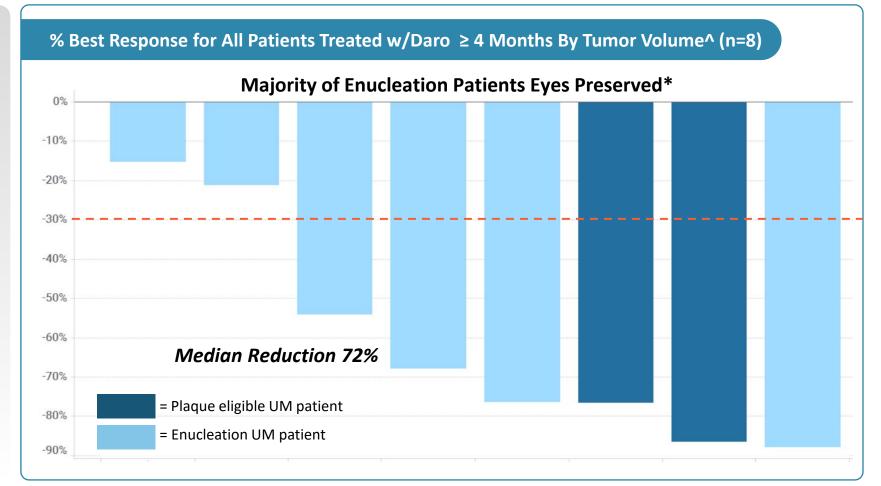
Majority of enucleation patients eye preserved

### Median % maximal tumor shrinkage by:

- Apical Height: -40%
- Basal Diameter: -25%
- Volume: -72%



Iodine-125 Plaque Surgery, UCLA



 $^{\text{N}}$  Volumetric Calculation: 4/3  $\pi a^2$  b (tumour diameter divided by 2 = a; tumour height = b;  $\pi$  = 3.14) divided by 2; Richtig E, et al; Nature Eye 2004;18(6):619–623

\* The majority of patients had reported Eye Saved (i.e., converted to plaque brachytherapy or EBRT eligible)

Preliminary data from unverified database as of 24May24; NCT#05907954 multi-centered global trial with over 14 enrolling sites.



# IDEAYA Phase 2 Darovasertib Neoadjuvant UM Company-Sponsored Study

Case Study Examples in Enucleation and Plaque Eligible UM Patient

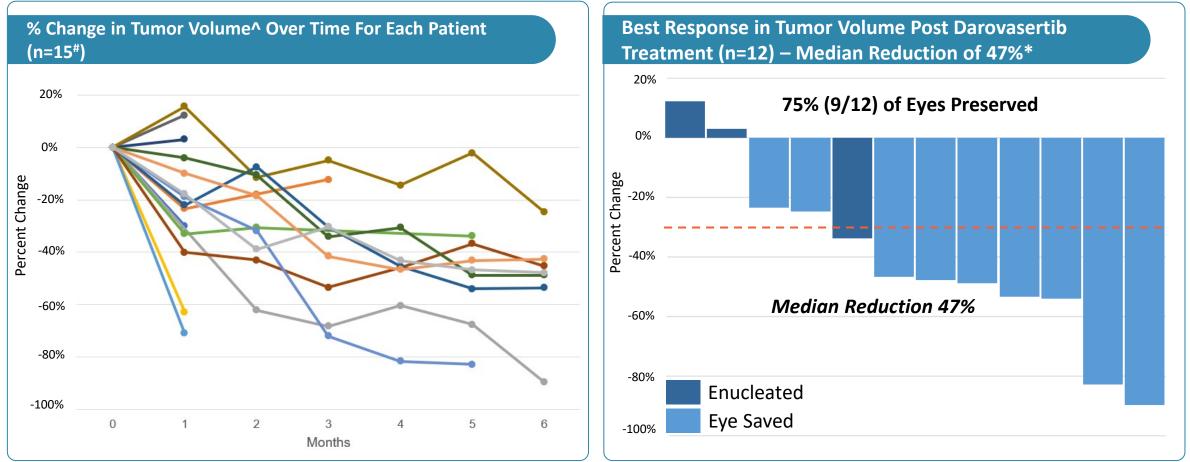
<ul> <li>Plaque Patient: Maximal Change in Tumor Size</li> <li>50+ year old plaque eligible UM patient who received at least 4 months of darovasertib treatment</li> </ul>				<ul> <li>Enucleation Patient: Maximal Change in Tumor Size</li> <li>60+ year old enucleation UM patient who received at leas 4 months of darovasertib treatment</li> </ul>					
Dome-shap	ed tumor			• Dome-shap	ed tumor				
	Baseline (mm)	Post Baseline (mm)	% Change From Baseline		Baseline (mm)	Post Baseline (mm)	% Change From Baseline		
Apical Height	4.9	1.9	-61%	Apical Height	8.1	2.7	-67%		
Basal Diameter	14.7	8.7	-41%	Basal Diameter	13.2	8	-39%		
	554.41	75.23	-86%	By Volume	738.98	90.48	-88%		

Preliminary data from an unverified database as of 24May24; NCT#05907954 multi-centered global trial with over 14 enrolling sites



### Phase 2 Darovasertib Neoadjuvant UM IST Results in Enucleation Patients

75% (9/12) of Eyes Preserved with Darovasertib Neoadjuvant Treatment up to 6 months



Adapted from A Joshua, ASCO 2024, NADOM Investigator Sponsored Trial (IST): NCT05187884; ^ Volumetric Calculation: 4/3 πa2 b (tumour diameter divided by 2 = a; tumour height = b; π = 3.14) Richtig E, et al; Nature Eye 2004;18(6):619–623 \*Eyes preserved: 3 patients converted to lodine plaque, 5 patients converted to Ruthenium plaque and 1 patient received external beam radiation therapy

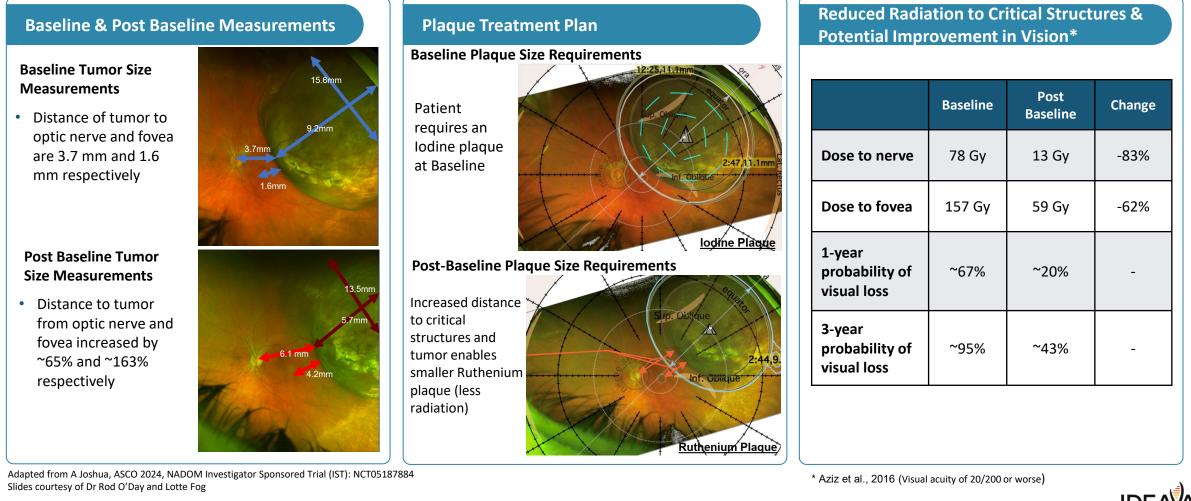
#Thirteen patients completed allocated neoadjuvant treatment. One patient had sub-retinal blood present at baseline and with lack of shrinkage and visual deterioration discontinued after 6 weeks. One additional patient had Grade 3 drug related dermatitis and discontinued treatment





### Phase 2 Darovasertib Neoadjuvant UM IST Results in Enucleation Patients

Pre & Post Darovasertib Treatment Radiation Plaque Planning and Vision Implications

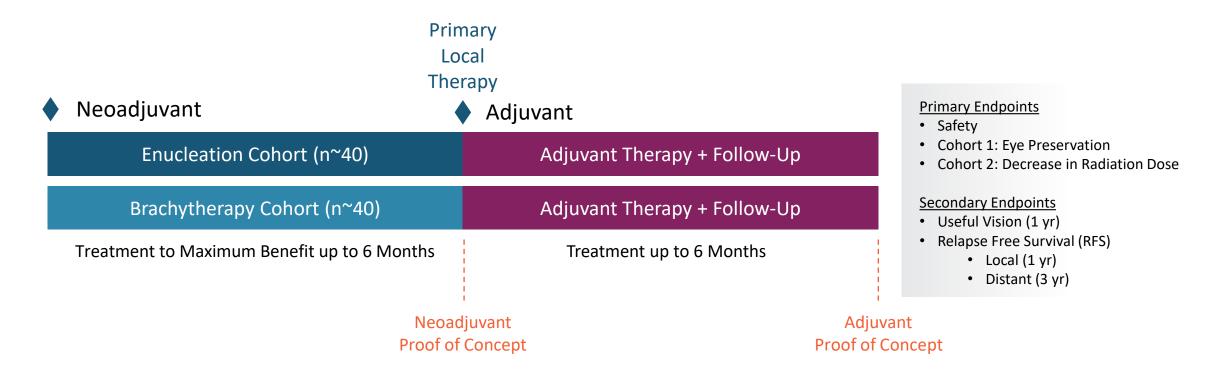


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(Neo)Adjuvant Darovasertib in Primary Uveal Melanoma (UM)

Paradigm Shifting Opportunity to Save the Eye, Protect Vision and Save Lives

Phase 2 Study of Darovasertib Monotherapy as Neoadjuvant Therapy followed by Adjuvant Therapy ^



Three Independent Approaches for demonstrating Clinical Benefit and defining potential Approval Pathways Enucleation Cohort 

Save the Eve Brachytherapy Cohort 

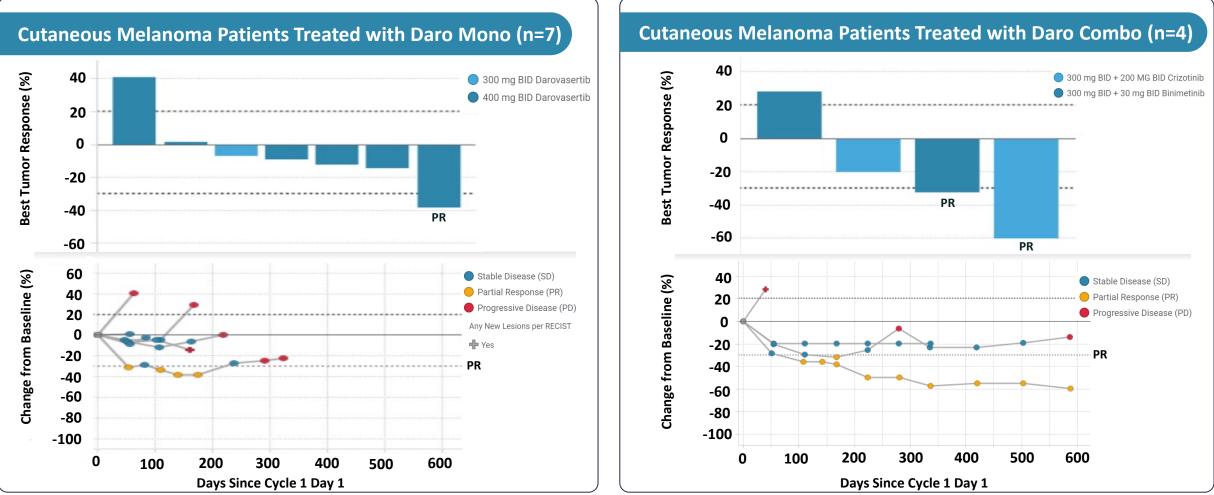
Protect Vision Adjuvant Therapy 

Save Lives



# **GNAQ/11 Cutaneous Melanoma Patients Treated With Darovasertib**

2 of 4 (50%) Observed Durable Partial Responses by RECIST 1.1 with Daro Combination





IDEAYA Data: preliminary analysis of unlocked database as of 24Dec2023 by investigator review

### **Darovasertib Clinical & Commercial Strategy in Uveal Melanoma and CM** High Unmet Need and Multiple First-Line Opportunities

	Uveal Melanoma Patient Journey									
		Neoadjuv	ant UM		Adjuvant UM MU		MUM	Metastatic CM		
HLA-A2-Negative (~70% of UM / MUM)**	Approved Therapies*	Daro Phase 2 Enucleation Define	Daro Phase 2 Radiation Define Accelerated	Approved Therapies*	<b>Daro</b> Phase 2 Define Accelerated	No FDA Approved Therapies <sup>*</sup>	<b>Daro + Crizo</b> Registrational Trial Accelerated Approval	<b>Daro + Crizo</b> <b>Phase 2</b> Define Accelerated Approval		
HLA-A2-Positive (~30% of UM / MUM)**	No FDA A	Accelerated Approval Path	Accelerated Approval Path	No FDA A	Approval Path		Daro + Crizo et NCCN / Compendia Listing	Path		
Target Treatment Duration		<u>&gt;</u> 6 mor	nths		≥6 months	mPFS + ~3 months		mPFS + ~3 months		
Target Clinical Endpoints	Ey	e & Vision P	reservation		Relapse Free Survival		Relapse Free Survival ORR, mF		ORR, mPFS, mOS	ORR, mPFS, mOS
Annual Incidence US/EU**		~8-10	Ok		~8-10k		~4-5k	>5K <sup>[1]</sup>		
Total Prevalence US/EU**		~100	)k		~100k		~14k	~180K <sup>[2]</sup>		

+95% of UM and ~5% of Cutaneous Melanoma (CM) patients harbor GNAQ/GNA11 mutation FDA Orphan Drug Designation in Uveal Melanoma<sup>+</sup>

\*No FDA approved systemic therapies in multiple UM and MUM indications across the patient journey

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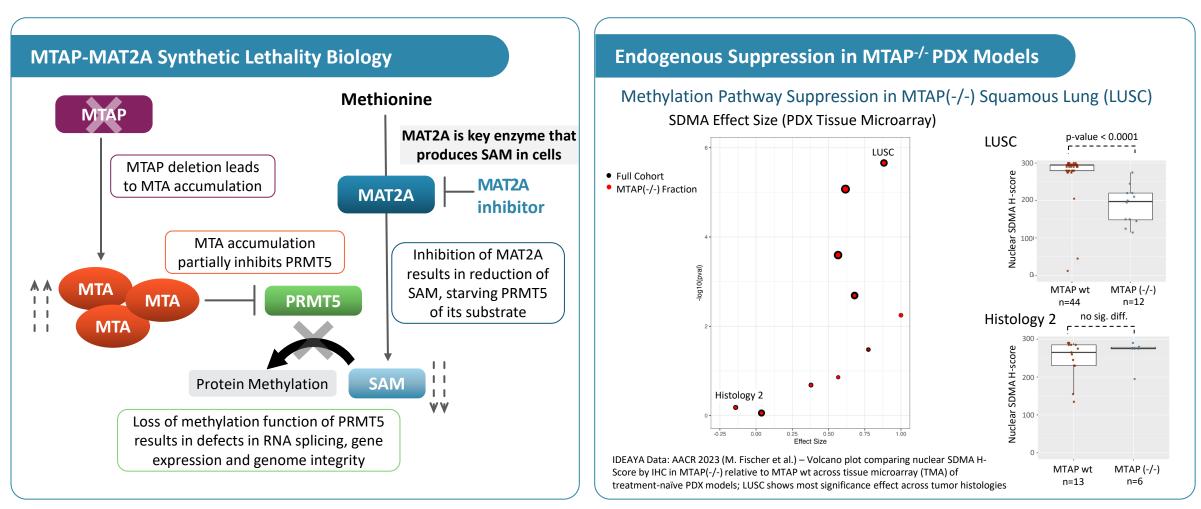
\*\*IDEAYA data: ~70% of MUM patients were HLA-A2-negative based on 149 patients tested for HLA-A2 status as presented at ESMO 2023; US/EU MUM annual incidence and total prevalence based on market research analysis <sup>+</sup> Orphan Drugs benefit from certain tax credits and may be excluded from certain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

- [1] GNAQ/11 cutaneous melanoma estimated annual incidence is approximately 5,000 patients in the US and 8,000 patients in the EU28. Based on several metastatic cancer patient databases, including Memorial Sloan Kettering Cancer Center (MSKCC) Impact, we project GNAQ/11
- metastatic cutaneous melanoma has the potential to double or more the annual addressable metastatic patient population of metastatic uveal melanoma alone [2] The estimated total prevalence of primary GNAQ/11 cutaneous melanoma is approximately 70,000 patients in the US and 110,000 patients in the EU28



# MAT2A Inhibition is Synthetic Lethal with MTAP-Deletion

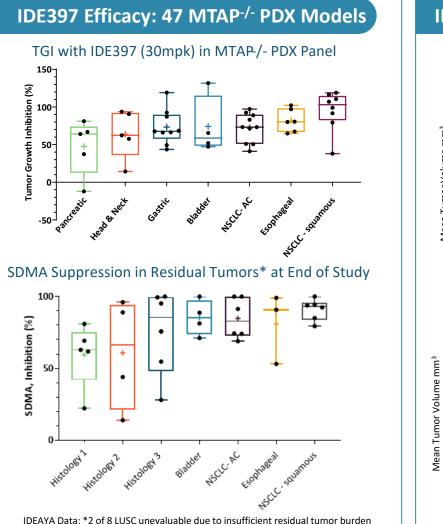
Strategies to address MTAP<sup>-/-</sup> Prevalence in ~15% of all Solid Tumors



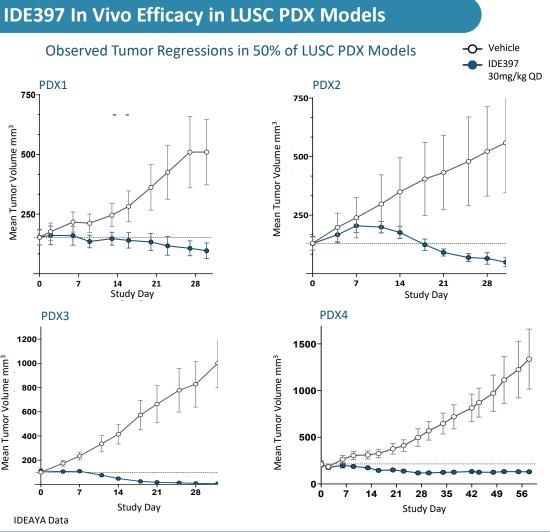


### **IDE397 Demonstrates Broad Efficacy across MTAP-Deletion PDX Models**

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



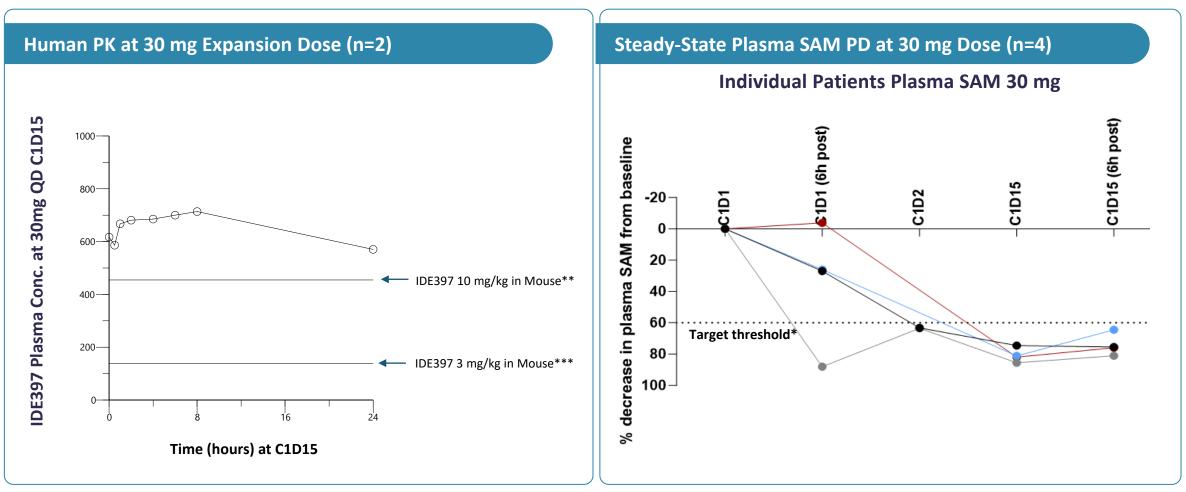
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# **IDE397 Human Pharmacokinetics (PK) and Pharmacodynamics (PD)**

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 <a>>10</a> mg/kg in mouse observes tumor regressions in MTAP-deletion xenograft models

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\*\*\* 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) ٠ profile demonstrated for the 30 mg Phase 2 expansion dose (n=18)
- ~5.6% of grade  $\geq$  3 drug-related AFs
- No drug-related SAEs ٠
- No discontinuations due to ٠ drug-related adverse events making long-term dosing feasible

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

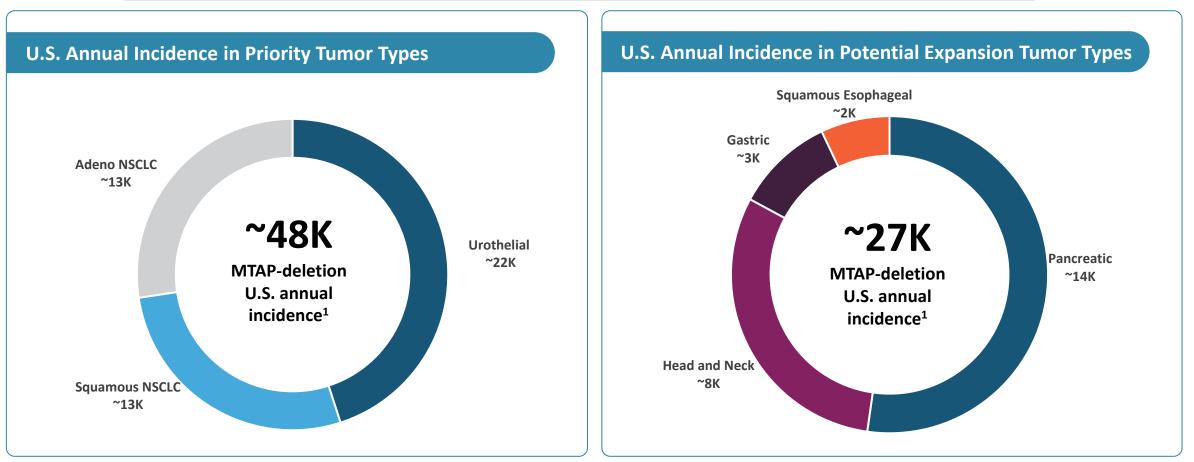
\*All 3 patients reporting low grade Peripheral Neuropathy had prior platinum-containing chemotherapy regimens; Data from an unlocked, unverified database as of June 12, 2024 data cut off; AE = Adverse Event



### 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

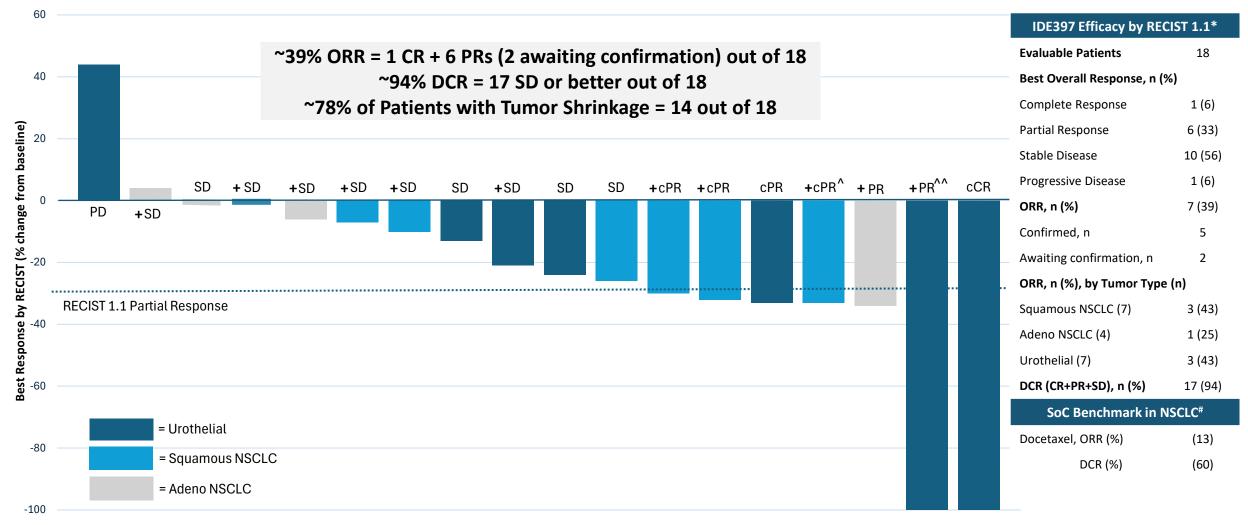


<sup>1</sup> Estimated addressable patient population based on SEER 2024 incidence and MTAP-deletion frequency from TCGA PanCancer Atlas, including frequency of 26% in urothelial, 19% in squamous NSCLC, 11% in adeno NSCLC, 21% pancreatic, 14% head and neck, 10% gastric, and 28% squamous esophageal cancers.

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# Preliminary IDE397 Efficacy Evaluation of 30 mg Phase 2 Expansion Dose

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



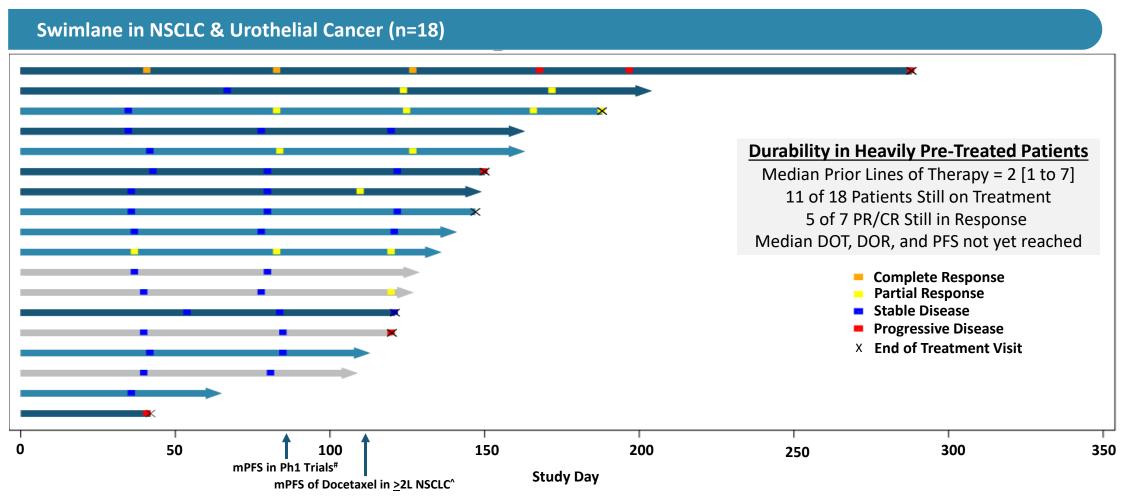
\* Evaluable Patients: Treated with  $\geq$ 1 cycle (21 days) of IDE397 at 30 mg expansion dose and with  $\geq$ 1 post-baseline scan(s); One non-evaluable patient who discontinued due to rapid clinical progression of cancer fatigue and drug-unrelated AEs in cycle 1 ^ Response evaluation by central review; ^^ 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;

30 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 <u>></u>2L NSCLC (n=305)



### 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

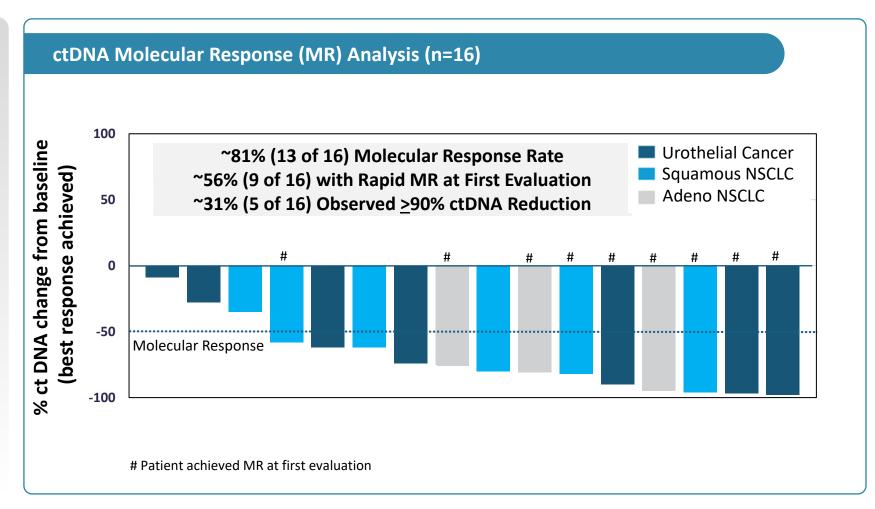
31 Hospital experience. Br J Cancer 98, 1029–1033 (2008). The confirmed complete response urothelial patient progressed after the week 18 scan due to a drug-unrelated AE dose holiday and then restarted treatment ^ESMO 2023: TROPION-Lung01 reported mPFs of 3.7 months for Docetaxel in ≥2L NSCLC (n=305)



### 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

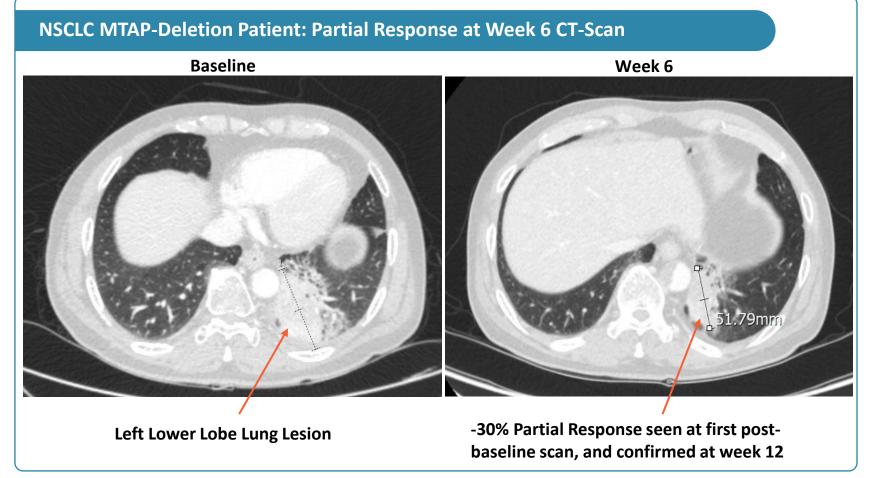
#### **Treatment History:**

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:**

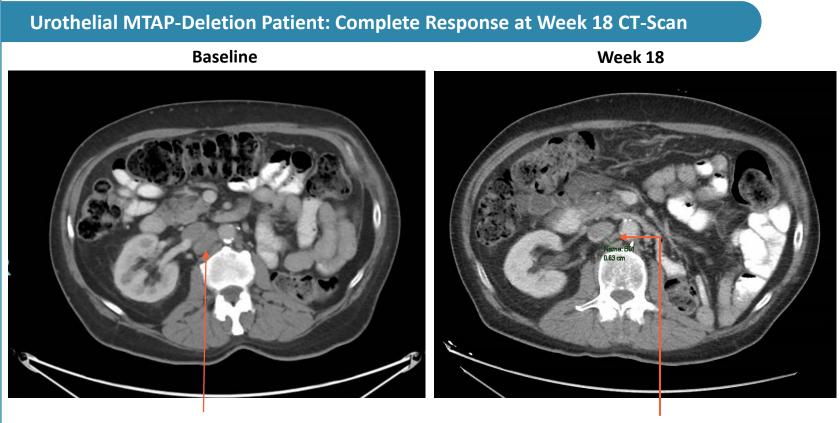
Prior therapy:

- 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



Enlarged Retrocaval Lymph Node, 1.5 cm short axis

Continued Complete Response at week 18 scan

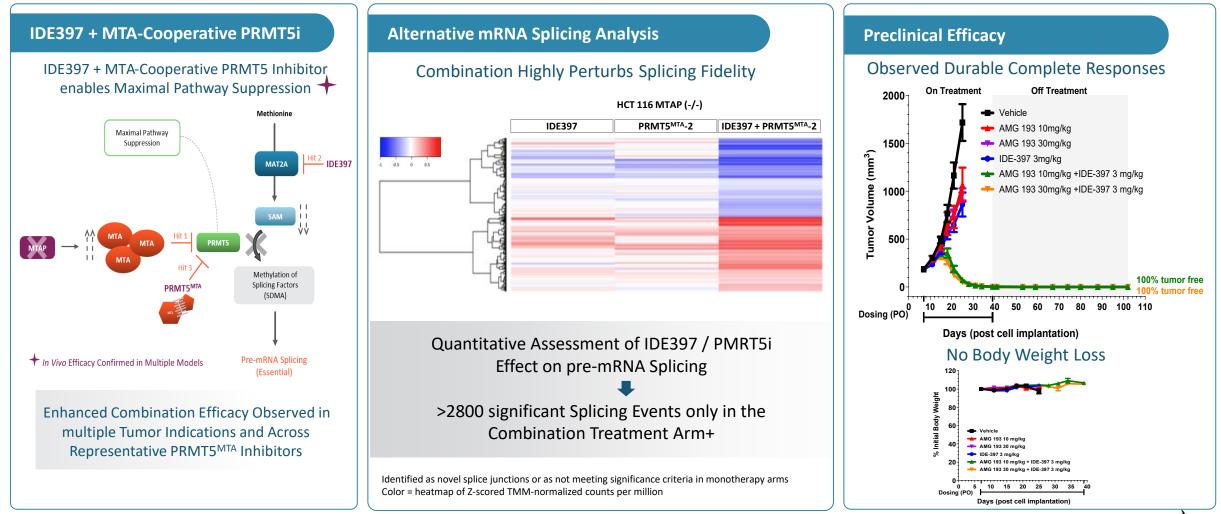
IDEAYA Data (based on preliminary analysis of investigator provided images); tumor lesion reductions by investigator review, from an unlocked unverified database



# **IDE397 Clinical Combination Strategy in MTAP-Deletion NSCLC**



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

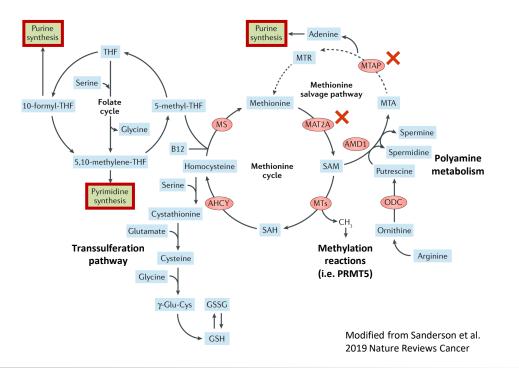




### **TRODELVY® + IDE397 Combination in MTAP-Deletion Urothelial Cancer**

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

#### IDE397 perturbs both nucleotide pools and mRNA splicing in MTAP<sup>/-</sup> cells

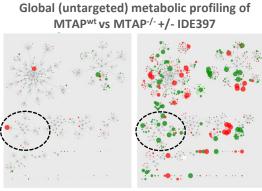


#### Key clinical correlates underscore combination opportunity

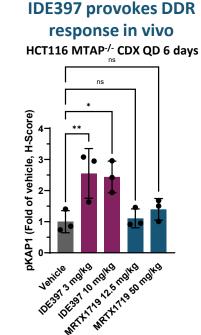
- MTAP-/- UC: shorter survival, lower RR to CPI, shorter PFS and OS with Enfortumab-Vedotin (EV)
- MTAP-/- status is associated with pemetrexed antitumor activity in UC
- A small study evaluating Trodelvy activity in UC post-EV suggested preferential activity in MTAP<sup>-/-</sup> tumors (RR 50% vs. 19% post EV)
- IDE397 demonstrated monotherapy efficacy in MTAP<sup>-/-</sup> 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

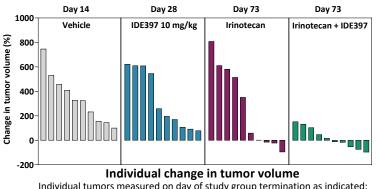
Metabolite Cytoscape



MTAP WT +/- IDE397 MTAP-/- +/- IDE397 Ovals indicate nucleotide subcluster (purine/pyrimidine); green-decrease, red-increase FDR< 0.05



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



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

IDE397 RDE Monotherapy Expansion: Squamous NSCLC and Urothelial Cancer

Strategic Focus in Select Monotherapy Indications and High Conviction Clinical Combinations

### IDE397 – Clinical Profile

Exposure-Dependent Pharmacokinetic (PK) Profile with low C<sub>max</sub>:C<sub>min</sub>

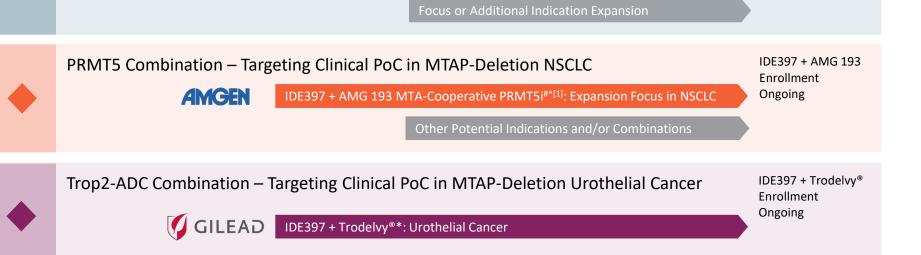
Robust Pharmacodynamic (PD) Response observed

Monotherapy Expansion demonstrated clinical efficacy with Responses in Multiple High-Priority Tumor Types in Dose Expansion, including a Complete Response

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### IDE397 is strategically well positioned to evaluate both monotherapy and clinical combinations in MTAP-deletion solid tumors

IDE397 Monotherapy Expansion in Select MTAP-Deletion Solid Tumor Types

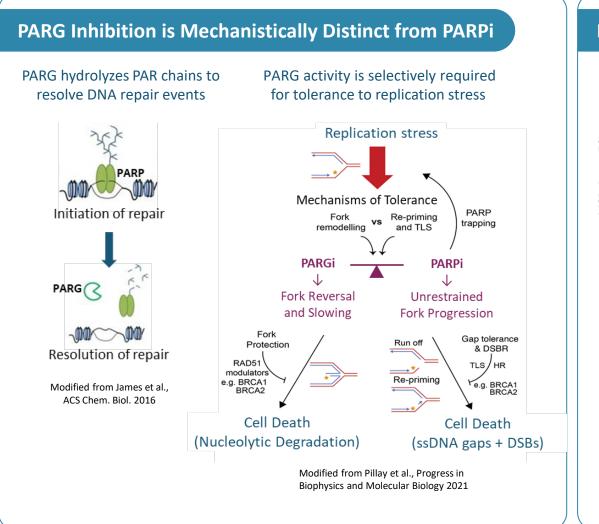


# AMG 193 = Amgen's investigational MTA-cooperative PRMT5 inhibitor; \* Trodelvy<sup>®</sup> = Gilead's Trop-2 directed ADC

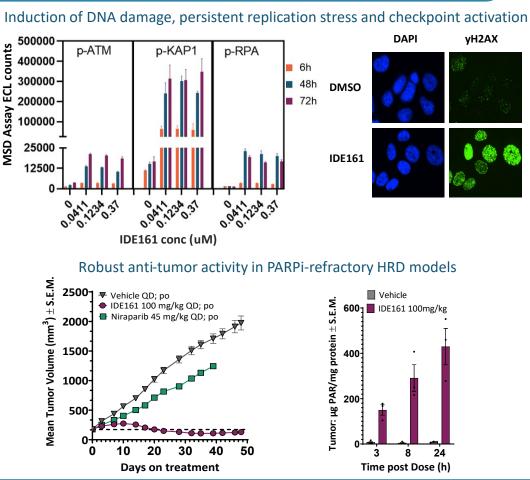
^ Amgen reported initial clinical data at the 2023 AACR-NCI-EORTC that showed 5/18 (ORR=28%) for AMG 193 monotherapy expansion at dose > 800 mg QD in esophageal, pancreatic, renal cell, gallbladder, and Sertoli-Leydig cell cancers [1] Clinicaltrials.gov: NCT05975073

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

PARG inhibition is synthetic lethal with HRD/replication stress



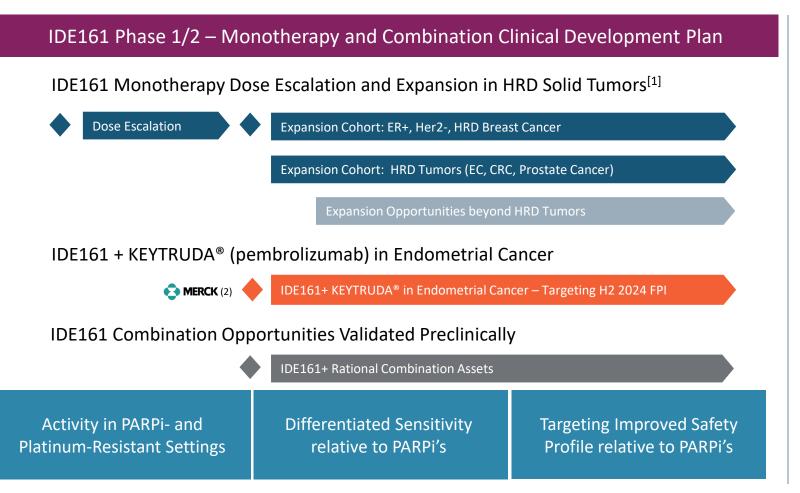
#### IDE161 is a potent and selective PARG inhibitor





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

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



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

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

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

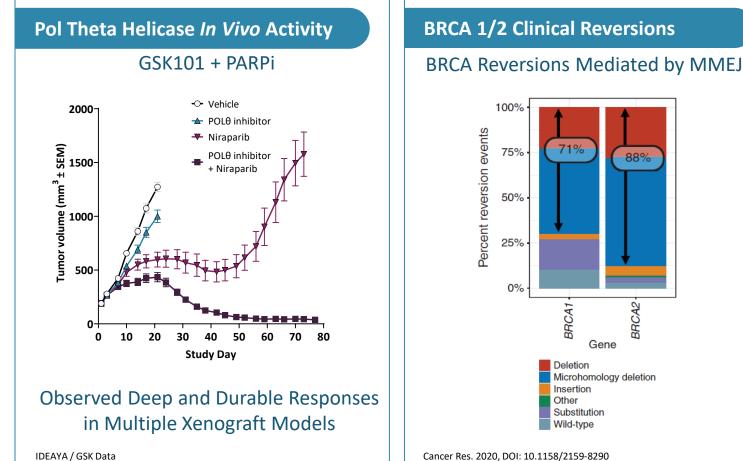
FDA Fast Track Designation for IDE161 in BRCA1/2 Ovarian and Breast Cancers\*

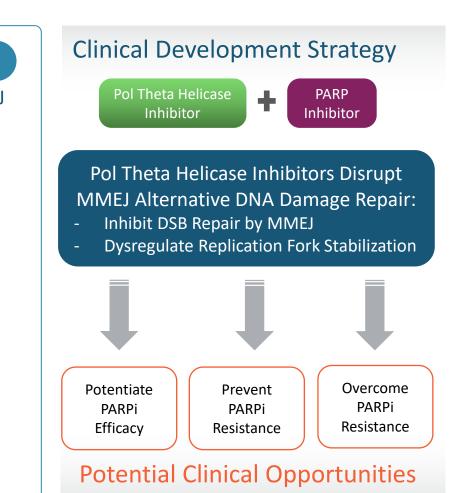
\*Fast Track Designations include (i) Pretreated, Platinum-Resistant Advanced or Metastatic BRCA1/2 mutant Ovarian Cancer, and (ii) Pretreated, Advanced or Metastatic HR+, Her2-, BRCA1/2 mutant Breast Cancer PARG = poly (ADP-ribose) glycohyrdolase; PAR = poly (ADP-ribose; PBMC = peripheral blood mononuclear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

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

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### GSK101 (IDE705): Potential First-in-Class Pol Theta Helicase Inhibitor GSK101 Phase 1 in Combination with Niraparib (PARPi)





GSK Strategic Partnership: Global Royalties with GSK covering all Costs, ~\$1B Milestones, inclup to \$20M Preclinical / Ph1 Clinical Potential Combination with

GSK's Zejula<sup>™</sup>, a PARP Inhibitor

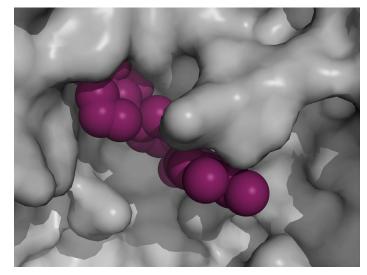


# IDEAYA's AI/ML Enabled Drug Discovery Platform and IND-Engine

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

#### **WRN Helicase**

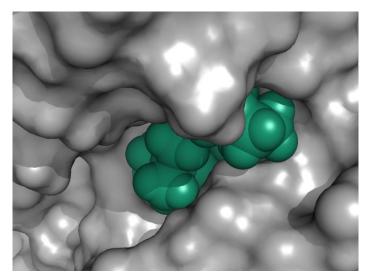
Nominated Werner Helicase Development Candidate



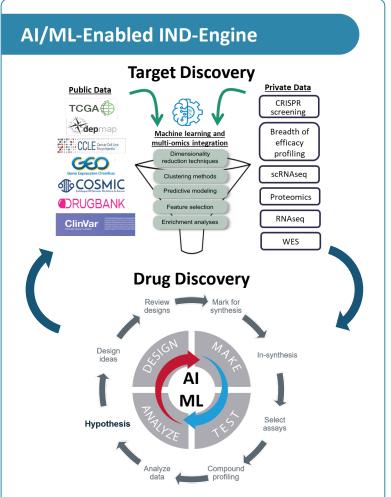
Targeting IND Submission in H2 2024\* MSI-High Tumor Agnostic

#### Multi-Pronged Strategy in MTAP-/-

#### **Next Generation Programs**



Enabling wholly-owned rational combination with IDE397



#### Targeting multiple DCs in H2 2024



\*Pursuant to GSK Collaboration



GSK

### Werner Helicase is Synthetic Lethal with Microsatellite Instability Targeting IND Submission in H2 2024 Werner Helicase Synthetic Lethal with High-MSI

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

Cruciform

formation

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MMR

Replicatior

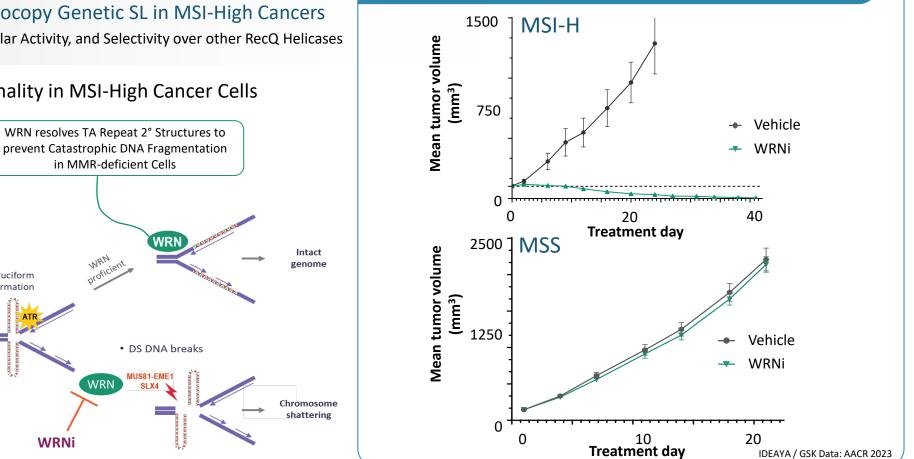
slippage

Normal

MSI-H

Expanded

(TA)n repeat



GSK Strategic Partnership: 50/50% US Profit Share and ex-US Royalties, ~\$1B Milestones, inclup 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
Ph 2/3 – Darovasertib <sup>1</sup> Ph 2 – IDE397 (MAT2A) <sup>1</sup> Ph 1 – IDE161 (PARG) <sup>1</sup> Ph 1 – GSK101 (Pol Theta Helicase) <sup>2</sup>	Werner DC – Targeting H2 2024 IND <sup>2</sup>	Targeting Multiple DCs in H2 2024, including in MTAP and potential first-in-class in KAT6 pathway
4 Clinical Programs	5 Clinical Programs	>7 Clinical Programs

**Darovasertib Registration-Enabling Trial with Potential Accelerated Approval** in HLA-A2(-) MUM 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 ~\$978M<sup>3</sup> and opportunity for milestones with cash runway to 2028
 Pharma Collaborations include combinations with Pfizer, Amgen, Gilead, Merck, and GSK partnership with ~\$2 billion<sup>2</sup> in potential milestones

(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) Includes aggregate of \$941.4M cash, cash equivalents and marketable securities as of March 31, 2024, plus pro forma \$36.5M estimated net proceeds from sales of common stock through at-the-market offerings in April 2024

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<sup>1)</sup> 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