J.P. Morgan Healthcare Conference January 2025 NASDAQ: IDYA

IDEAYA Biosciences

Improving Lives Through Transformative Precision Medicines



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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 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 September 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

Target Milestone Guidance on Broad Pipeline of 6 Clinical & 3 Preclinical (IND-enabling) Programs:

PHASE 2/3

DAROVASERTIB (PKC)

- Daro + Crizo 1L HLA-A2(-) MUM potential registrational Ph2/3 median PFS readout – by YE 2025
- Daro + Crizo Ph2 1L MUM median OS readout – 2025
- Daro Ph2 Neoadjuvant UM clinical data and regulatory update - 2025
- Daro Ph3 Neoadjuvant UM registrational trial initiation – H1 2025

(MAT2A)

PHASE 1/2

- Phase 1/2 mono expansion ongoing
- IDE397 + Trodelvy® (Trop2-ADC)
- Clinical program update(s) 2025
 IDE397 + PRMT5
- Wholly-owned clinical combo with IDE892 (IDEAYA PRMT5) – H2 2025

IDE849 / SHR-4849 (DLL3 ADC)

Clinical program update(s) – 2025

IDE275 / GSK959 (WERNER)

• Medical conference update – H1 2025

IDE161 (PARG)

PHASE 1/2

- Phase 1 mono expansion ongoing
 IDE161 + Merck's anti-PD-1, KEYTRUDA®
 (pembrolizumab)
- Phase 1 expansion in EC 2025

*IDE161 + Topo-ADC*Enable clinical combo(s) – 2025

IDE705 / GSK101 (POL THETA)

• Phase 2 expansion (\$10M Milestone)

NEXT GEN PROGRAMS

PRECLINICAL

- IDE892 DC (MTA-cooperative PRMT5) IND submission – Mid-2025
- IDE034 DC (B7H3/PTK7 Bi-Specific ADC) IND submission – H2 2025
- IDE251 DC (KAT6/7) IND submission H2 2025

Pharma Collaborations Financials and Investor Relations Image: Prizer Image: Collector Image: Collector

(2) IDEAYA's Form 10-Q dated November 4, 2024, as filed with the U.S. Securities and Exchange Commission

3 KEYTRUDA® is a registered trademark of Merck Sharp & Dohme LLC, a subsidiary of Merck & Co, Inc, Rahway NJ, USA

IND = Investigational New Drug, UM = Uveal Melanoma, MUM = Metastatic Uveal Melanoma, NSCLC = Non-Small Cell Lung Cancer, EC = Endometrial Cancer, UC = Urothelial Cancer, DC = Development Candidate, Daro = Darovasertib, Crizo = Crizotinib

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, PARG and Pol Theta Helicase
- DECIPHER[™] Dual CRISPR SL Library in DDR Cell Lines in collaboration with UCSD
- PAGEO[™] 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[™] Chemical Library proprietary, expert-curated small-molecule library
- HARMONY[™] Machine-Learning engine empowers drug discovery platform
- Differentiated clinical / candidate compounds discovered, including IDE397, IDE275 (GSK959), IDE161, and IDE705 (GSK101)

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 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

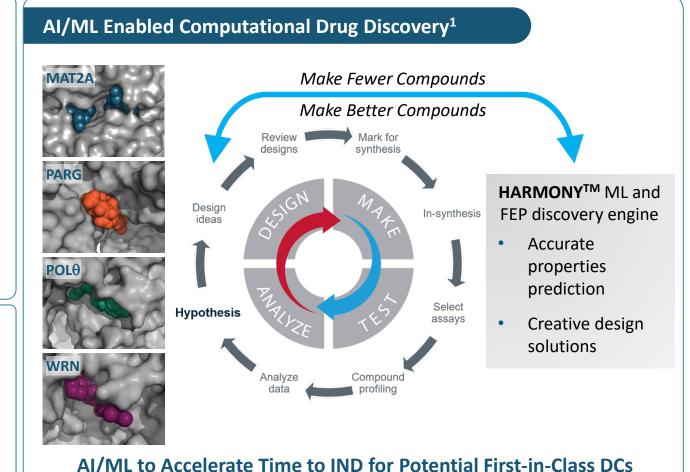
Ligand bound co-crystal structures resolved to enable Structure Based Drug Design for each of the Synthetic Lethality drug-discovery programs

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





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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 ¹ Combination 1L HLA-A2(-) MUM	GNAQ/11						Ph 2 (AA) / Ph 3 registrational trial ¹ – targeting median PFS readout by YE'25	Pfizer (4)	
Darovasertib PKC	rtib (Neo)Adjuvant UM							Ph 2 clinical data update – targeting 2025 Ph3 Neoadj. UM registrational trial initiation ² – H1'25		WW Commercial Rights
	cMET ¹ Combination MUM	GNAQ/11						Ph 2 OS 1L MUM readout – targeting 2025 HLA-A2(+) Phase 2 clinical trial ³	Pfizer (4)	
	Monotherapy Solid Tumors	ΜΤΑΡ						Ongoing Phase 2 expansion in MTAP urothelial and lung cancer		
IDE397 MAT2A	Combination Urothelial Cancer	ΜΤΑΡ						Targeting Phase 1/2 IDE397 + Trodelvy [®] clinical program update (s) – 2025	🌠 GILEAD (5)	WW Commercial Rights
	Combination Solid Tumors	ΜΤΑΡ						Ph1 IDE397+AMG 193 (PRMT5i ^{MTA}) ongoing enrollment	AMGEN (6)	
IDE849 (SHR-4849) DLL3 ADC	SCLC, Neuroendocrine Tumors	DLL3						Clinical program updates – 2025	(7) HENGRUI	Worldwide Rights Outside of Greater China
IDE275 (GSK959) Werner Helicase	Solid Tumors	High-MSI						Ongoing Phase 1 Trial in MSI-High Solid Tumors Medical conference update – 1H'2025	GSK (8)	50% US Profits and 20% costs
IDE161	Monotherapy Solid Tumors	HRD						Ongoing Phase 1/2 expansion in priority tumor type		WW Commercial
PARG	Combination Endometrial Cancer	High-MSI, MSS						Ongoing Phase 1 IDE161 + KEYTRUDA®	MERCK (9)	Rights
IDE705 (GSK101) Pol Theta Helicase	+Niraparib Combo Solid Tumors	HR Mutations						Targeting Phase 2 Expansion (\$10M Milestone)	GSK (8)	Global Royalties
IDE892 PRMT5 ^{MTA}	Combination Solid Tumors	ΜΤΑΡ						Targeting IND Submission – Mid-Year 2025		WW Commercial Rights
IDE034 B7H3/PTK7 BsADC	Solid Tumors	В7Н3/РТК7						Targeting IND Submission – H2'2025 Enable wholly-owned combination – H2'2025	BIOCYTOGEN (10)	WW Commercial Rights
IDE251 <i>KAT6/7</i>	Solid Tumors	8p11						Targeting IND Submission – H2'2025		WW Commercial Rights
Platform	Solid Tumors	Defined Biomarkers						Multiple Potential First-in-Class Programs Advancing		WW Commercial Rights

(1) 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

(2) Phase 3 randomized registrational trial enables potential approval based on FDA Type C Meeting Q3 2024

(3) Targeting enrollment of additional HLA-A2(+) patients in ongoing IDE196-001 Phase 2 clinical trial

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

(5) 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.

(6) 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

(7) Pursuant to exclusive license agreement with Jiangsu Hengrui Pharmaceuticals Co., Ltd for worldwide rights outside of Greater China

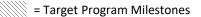
(8) Pursuant to GSK Collaboration, Option and License Agreement: Pol0: Global Royalties; WRN: 50/50 US Profits + ex-US Royalties

(9) 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

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

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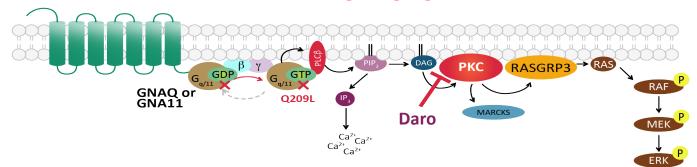
MAT2A = Methionine Adenosyltransferase 2a, MTAP = Methylthioadenosine Phosphorylase, MTA = Methylthioadenosine, PRMT5 = Protein Arginine Methyltransferase 5, PARG = Poly (ADP-ribose) Glycohydrolase, WRN = Werner Helicase, Polθ = DNA Polymerase Theta, HRD = Homologous Recombination Deficiency, MSI = Microsatellite Instability, PKC = Protein Kinase C, MUM = Metastatic Uveal Melanoma, UM = Uveal Melanoma, Crizo = Crizotinib, NSCLC = Non-Small Cell Lung Cancer, WW = Worldwide, HLA-A2(-) = HLA-A2*02:01 Positive; DC = Development Candidate, TOP1i = Topo-I-Payload, BsADC = Bispecific Antibody Drug Conjugate





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

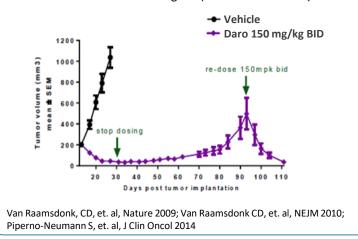
Mutations in GNAQ / GNA11 activate PKC Signaling, a genetic driver of Uveal Melanoma



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

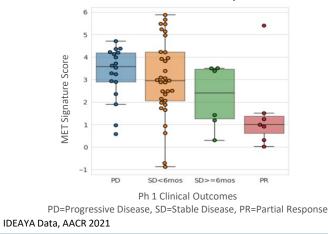
Daro Mono Rationale in Primary UM

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

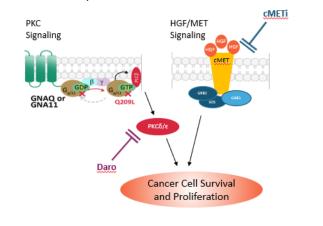


Darovasertib + Crizotinib (Daro + Crizo) Combo Rationale for Use in MUM

Daro Phase 1 Monotherapy Efficacy Association with cMET Expression



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

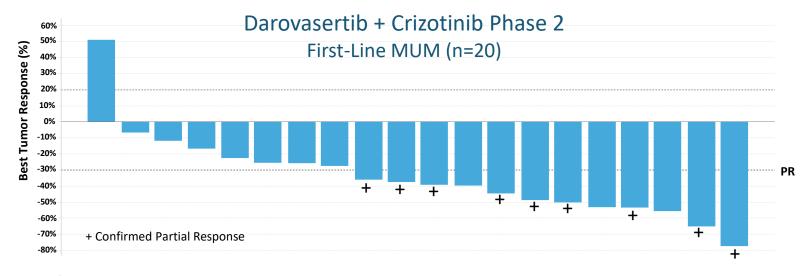


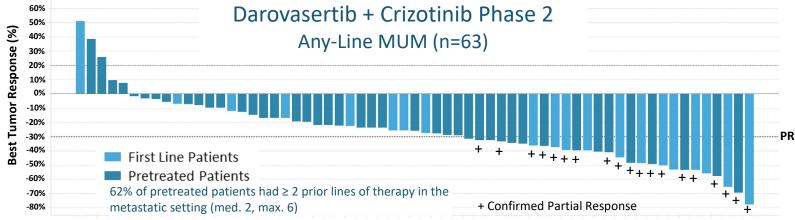


7 (1) Pfizer Clinical Trial Collaboration and Supply Agreements for Darovasertib + Crizotinib Combination in MUM IDEAYA owns or controls all commercial rights in darovasertib, including in Primary UM and MUM



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%

ESMO 2023 Proffered Presentation McKean, M, 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

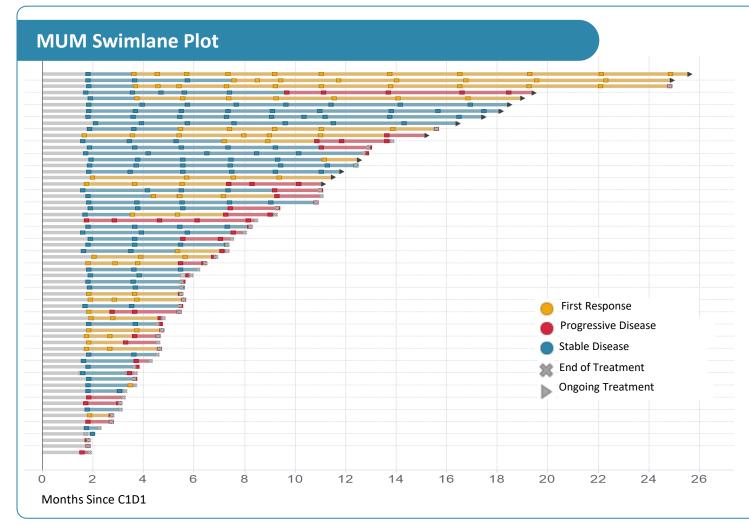
DCR = Disease Control Rate, cPR = Confirmed Partial Response, uPR = Unconfirmed Partial Response, SD = Stable Disease

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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

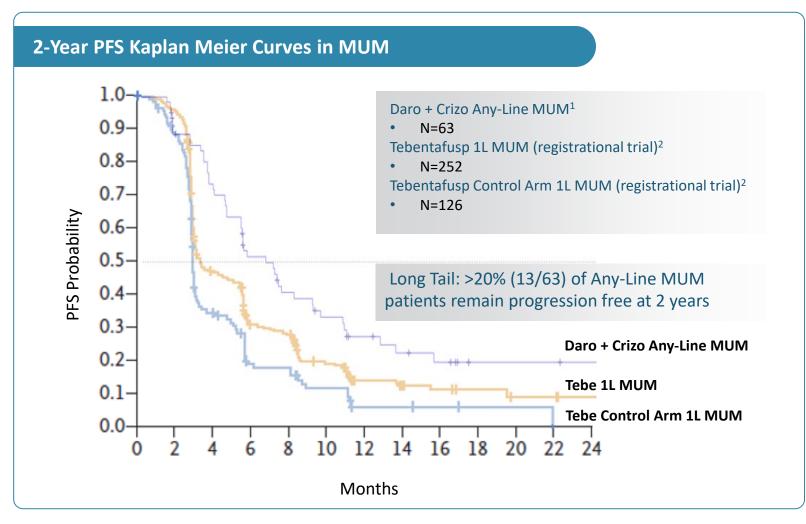


ESMO 2023 Proferred Presentation M McKean et al: Preliminary analysis of unlocked database as of 08/22/2023 by investigator review, C1D1 cutoff as of 9/22/2022, based on 63 evaluable Any-Line MUM patients

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2-Year PFS Kaplan Meier (KM) Curve: Daro + Crizo in Any-Line MUM¹

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



(1) 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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(2) 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^{1, 2}

	Darovasertib + Crizotinib	Cabozantinib Mono / Crizotinib Mono	Selumetinib + DTIC	lpi + Nivo	Tebentafusp
Target / Mechanism	PKC + cMET	cMET	MEK + Chemotherapy	CTLA4 + PD-1	HLA-A2-0201 Bi-Specific
Study Name(s)	NCT03947385	A091201 ³ / NCT05063058 ⁴	NCT01974752⁵	NCT02626962 ⁶	IMCgp100-102 ⁷
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% ⁸	23% ⁹ / NA	35% ⁹	27% ⁹	44% ⁹
Confirmed ORR% (by RECIST 1.1)	First-Line = 45% / Any-Line = 30% / Hepatic Only = 37% ⁸	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 ⁸	2 months / NA	2.8 months	3 months	2.8 months

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

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

(3) 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

(4) European Journal of Cancer, Leyraz, et. al, 2022; 146-155

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(5) Journal of Clinical Oncology, Carjaval, et. al, 2018; 1232-1239

(6) ASCO 2021, Piulats, J, et. al, Ipi = Ipilimumab, Nivo = Nivolumab, ORR% did not require PR/CR confirmation

(7) Based on Immunocore reported 2L+ study data (to reflect comparative patient population) and by independent review and ORR% was with confirmed PRs

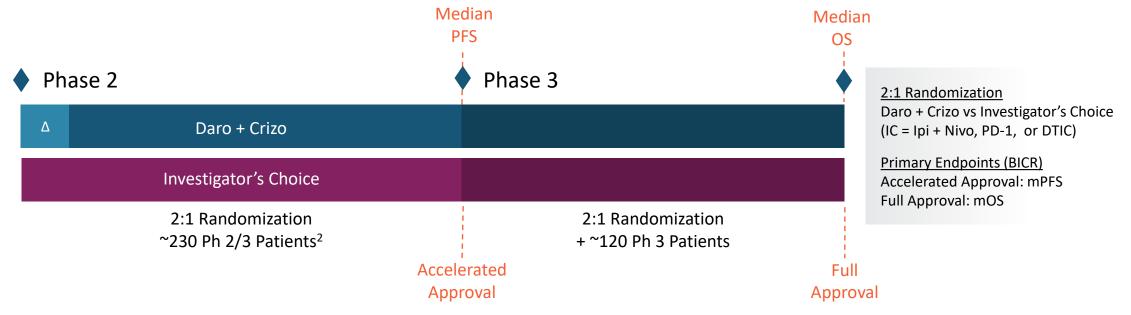
(8) ESMO 2023 Proffered Presentation McKean, M, et al: Preliminary analysis of unlocked database as of 08/22/2023 by investigator review; data cutoff based on treatment Day 1 of Cycle 1 (C1D1) as of 9/22/2022 (9) Estimated from Waterfall plot



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 Choice¹

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

(1) Clinicaltrials.gov: NCT05987332

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(2) 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

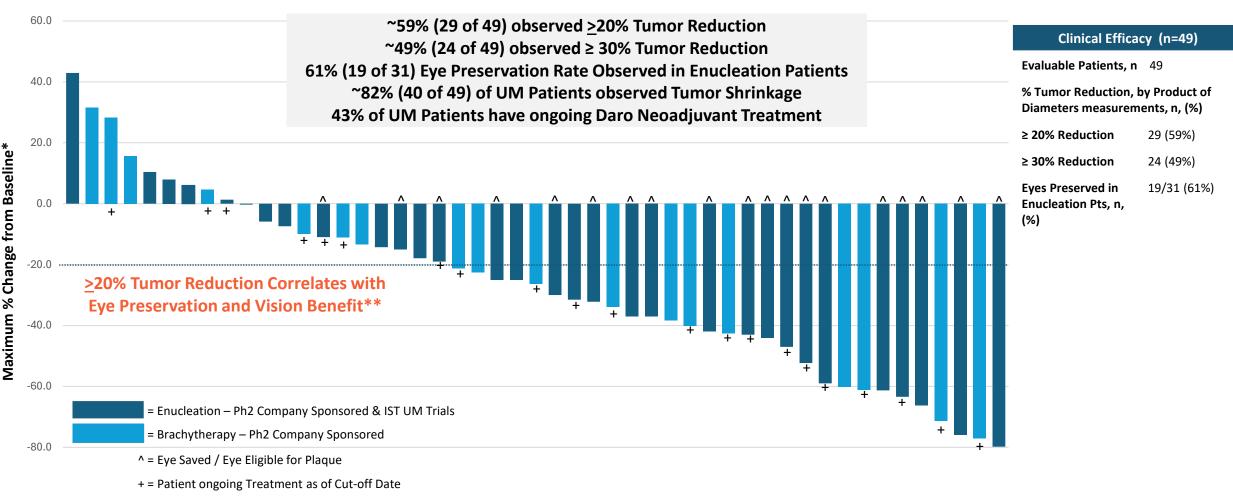
^a Nested study to confirm move forward dose: (i) Daro 300 mg BID + Crizo 200 mg BID or (ii) Daro 200 mg BID + Crizo 200 mg BID

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



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*



-100.0

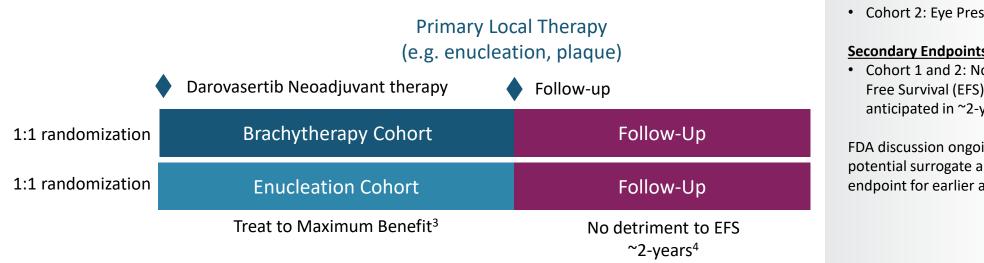
IDEAYA Data: Enrollment cut-off date of 13May2024; and results as of 15Aug2024 (based on preliminary analysis of unlocked database for Ph2 company sponsored patients enrolled up to 13May2024; Ph2 IST as of 14May2024 [ASCO 2024 Oral Presentation] *Ocular tumor size measured by the product of diameters (longest basal diameter x tumor thickness); **Based on clinical data correlating ocular tumor shrinkage with eye preservation and vision from darovasertib treatment in UM. Clinical data provided

13 in FDA briefing book for FDA Type C meeting IST = Investigator Sponsored Trial



Preliminary Darovasertib Neoadjuvant UM Phase 3 Trial Design¹

Paradigm Shifting Opportunity to Save the Eye and Protect Vision



Primary Endpoints²

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

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

Three Independent Approaches for Demonstrating Clinical Benefit With Approval Pathway

Enucleation Cohort \rightarrow Save the Eve

Brachytherapy Cohort \rightarrow Protect Vision

Follow-up \rightarrow No detriment to EFS

(1) Protocol finalization pending FDA Type B meeting

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(2) FDA briefing book notes clinical endpoint target to exceed a lower bound of 10% for eye preservation rate with a 95% confidence interval

(3) Treatment to maximum benefit: continued observation of ocular tumor shrinkage

(4) Estimate of initial no detriment EFS readout of 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 MUM¹

+95% of UM patients harbor GNAQ/GNA11 mutation

		Uveal Melanoma Patient Journey						
	Neoadjuvant UM			Adjuvant UM		MUM		
HLA-A2-Negative (~70% of UM / MUM) ²	Enucleation Daro Phase 2/3 Enucleation Define Approval Path		Radiation Define	6	Daro Phase 2	No FDA Approved Therapies ¹	Daro + Crizo Registrational Trial Accelerated Approval Full Approval	
HLA-A2-Positive (~30% of UM / MUM) ²	No FDA /	Approval Approval Path Path		No FDA /		Daro + Crizo Target NCCN / Compendia Listing		
Target Treatment Duration	<u>≥</u> 6 months		≥6 months		mPFS + ~3 months			
Target Clinical Endpoints	Eye Preservation, Time to Vision Loss, No detriment to EFS		Relapse Free Survival		ORR, mPFS, mOS			
Annual Incidence ³	~12К		~12K		~4-5k			

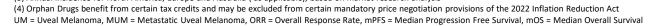
FDA Orphan Drug Designation in Uveal Melanoma⁴; FDA Fast Track Designation in Metastatic Uveal Melanoma Phase 2/3 Registrational Trial Ongoing in HLA-A2 negative 1L MUM for both Accelerated and Full Approval

(1) No FDA approved systemic therapies in multiple UM and MUM indications across the patient journey

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(2) IDEAYA data: ~70% of MUM patients were HLA-A2-negative based on 149 patients tested for HLA-A2 status as presented at ESMO 2023

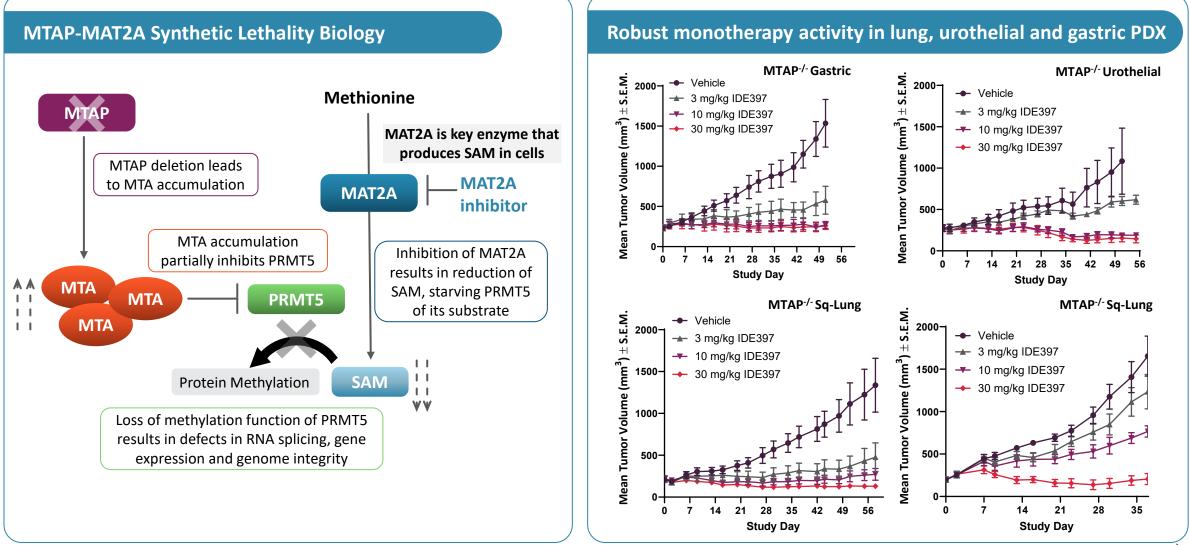
(3) Annual incidence for North America, Europe and Australia (as applicable), based on market research analysis





MAT2A Inhibition is Synthetic Lethal with MTAP-Deletion

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



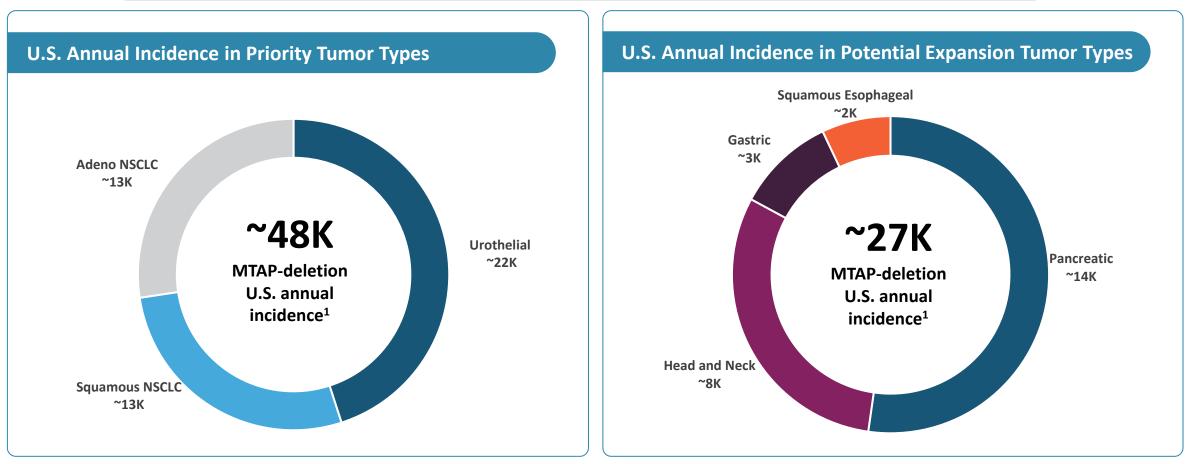


MAT2A

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



(1) 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.

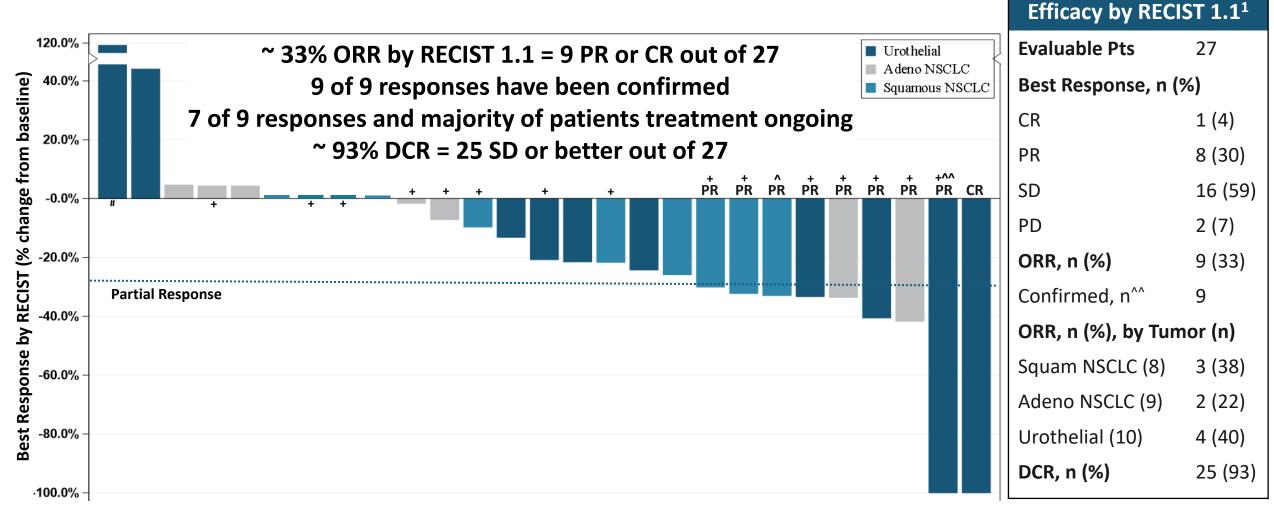
NSCLC = Non-Small Cell Lung Cancer





IDE397 Phase 1 Clinical Efficacy in MTAP-Deletion NSCLC & UC

Best Response by RECIST 1.1 at 30mg QD Phase 2 expansion dose¹



(1) Evaluable Patients: Treated with \geq 1 cycle (21 days) of IDE397 at the 30 mg expansion dose and with \geq 1 post-baseline scan(s); # Patient received less than 75% of planned dosing prior to the first scan due to unrelated AEs in cycle 2; ^ Response evaluation by central review; ^ PR with -100% best response had complete resolution of the target lesion; + patient still on treatment as of cut-off date. Data from an unlocked, unverified database as of 22AUG2024 data cut off; two patients confirmed response after the data cut. CR = Complete Response, PR = Partial Response, SD = Stable Disease, PD = Progressive Disease, ORR = Overall Response Rate, DCR = Disease Control Rate, c = Confirmed, NSCLC = Non-Small Cell Lung Cancer, UC = Urothelial Carcinoma, Squam = Squamous, Adeno = Adenocarcinoma, Pts = patients

18

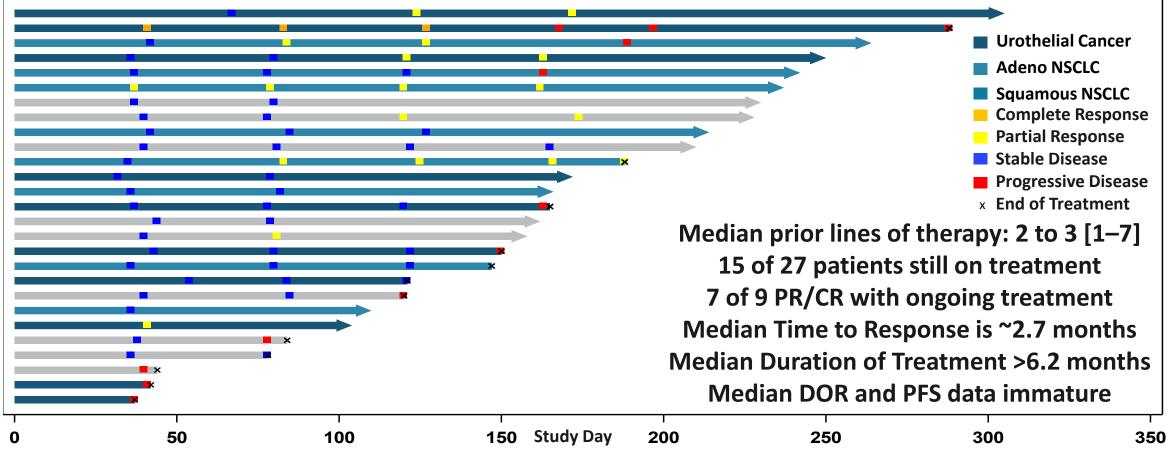




IDE397 Phase 1 Clinical Efficacy in MTAP-Deletion NSCLC & UC

Time on treatment at 30mg QD Ph2 Expansion Dose

NSCLC & Urothelial Cancer Efficacy Evaluable Patients Treated at 30 mg (n=27)¹



(1) Evaluable Patients: Treated with ≥1 cycle (21 days) of IDE397 at 30 mg expansion dose and with ≥1 post-baseline scan(s) Data from an unlocked, unverified database as of 22AUG2024 data cut off. The confirmed complete response urothelial patient progressed after the week 18 scan due to a drug-unrelated AE dose holiday and then restarted treatment. Two patients confirmed response after the data cut.

PFS = Progression Free Survival, DOR = Duration of Response

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IDE397 Confirmed CR by RECIST 1.1 in UC Patient With MTAP-Deletion

Case Report and CT-Scan Images

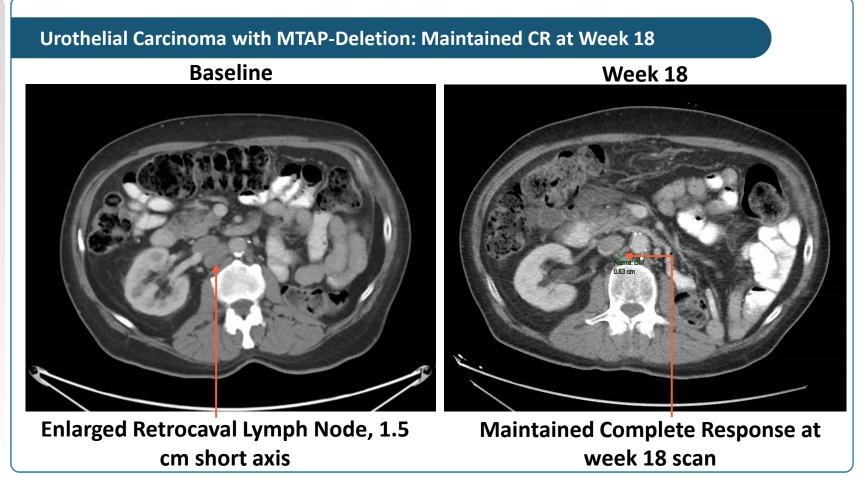
Baseline Characteristics:

60+ years old male urothelial carcinoma

Treatment History:

- Neo-adjuvant cisplatin/gemcitabine
- Left nephro-ureterectomy
- Adjuvant Nivolumab
 Recurrent disease while on adjuvant immunotherapy
 RECIST 1.1 Evaluation:
 CR by RECIST 1.1 at week 6

and confirmed at week 12





IDE397 + Sacituzumab Govitecan Confirmed PR by RECIST 1.1 in Urothelial with MTAP-Deletion and FGFR3-TACC3 Fusion

Case Report and CT-Scan Images

Baseline Characteristics:

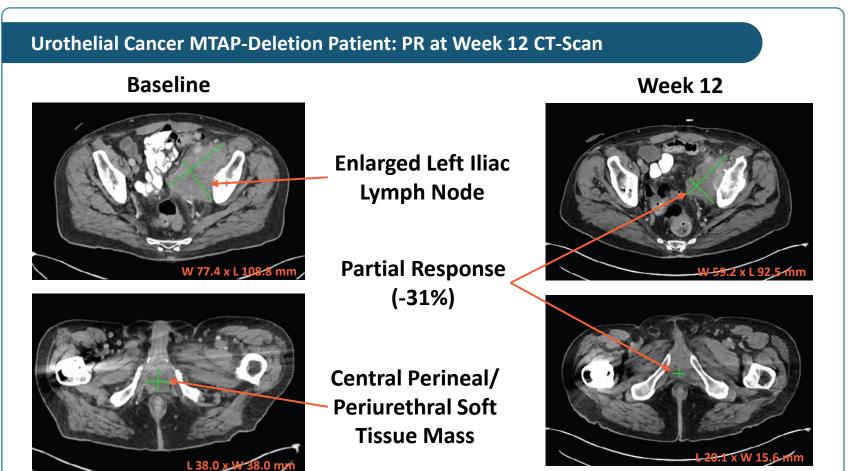
60+ years old male with Urothelial Cancer and MTAPdeletion and FGFR-TACC3 fusion

Treatment History:

- Transurethral resection
- Best response of PD to Enfortumab Vedotin (EV) + Pembrolizumab, and Erdafitinib

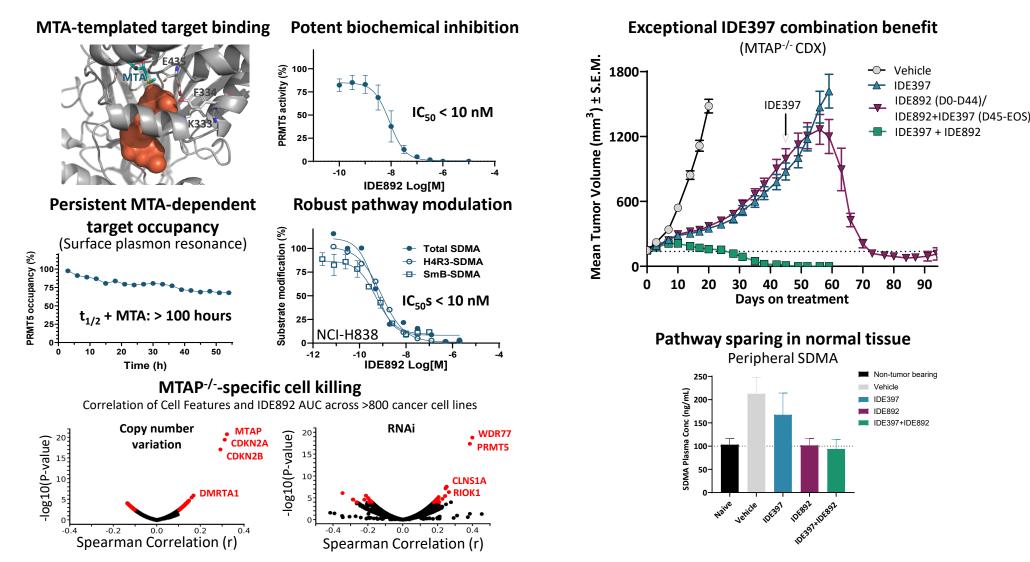
Clinical Evaluation:

PR by RECIST 1.1 at week 12, and confirmation at next scan with treatment ongoing





IDE892 DC: Potential Best-in-Class MTA-Cooperative PRMT5 Inhibitor Target to Enable Wholly-Owned Clinical Combo with IDE397/MAT2A in H2 2025¹

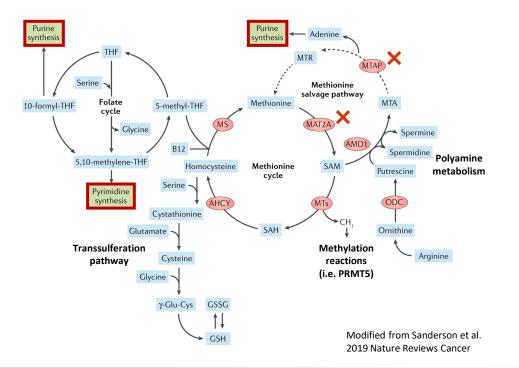


(1) IND-enabling studies ongoing with IND-filing targeted mid-year 2025. DC = Development Candidate

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

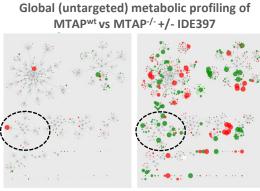


Key clinical correlates underscore combination opportunity

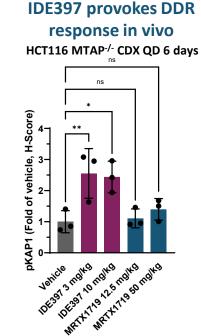
- MTAP-/- UC: shorter survival, lower RR to CPI, shorter PFS and OS with Enfortumab-Vedotin (EV)
- MTAP-/- status is associated with pemetrexed antitumor activity in UC
- A small study evaluating Trodelvy activity in UC post-EV suggested preferential activity in MTAP^{-/-} tumors (RR 50% vs. 19% post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

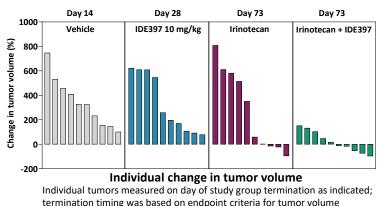
Metabolite Cytoscape



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





ADC = Antibody Drug Conjugate, TOP1i = Topoisomerase I inhibitor, UC = Urothelial Carcinoma, RR = Response Rate, CPI = Check Point Inhibitor, PFS = Progression Free Survival, OS = Overall Survival, CR = Complete Response, DFI = Disease Free Interval , FDR = False Discovery Rate, DDR = DNA Damage Response, CDX = Cell Line-Derived Xenograft

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

Clinical Strategic Focus on High Conviction Rational Combinations

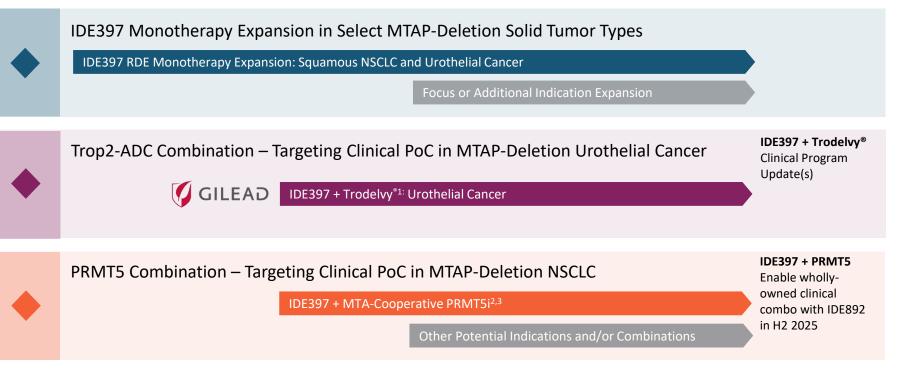
IDF397 – Clinical Profile

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





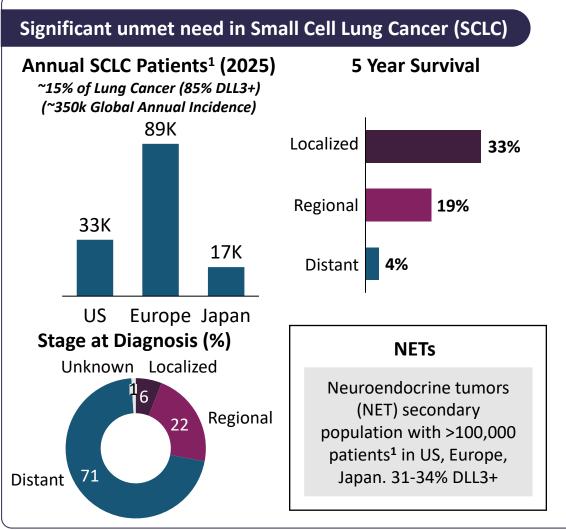
(1) Trodelvy[®] = Gilead's Trop-2 directed ADC

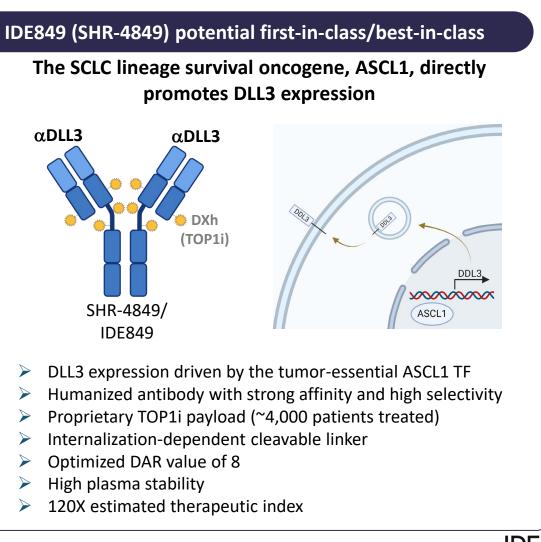
(2) AMG 193 = Amgen's investigational MTA-cooperative PRMT5 inhibitor (Clinicaltrials.gov: NCT05975073); IDE892, IDEAYA PRMT5 inhibitor in IND-enabling studies

24 (3) 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

IDE849 (SHR-4849): Phase 1 DLL3 TOP1i ADC

First-in-Class Potential and Targeting Lineage Survival Oncogene Activity





Incidence plus newly recurrent

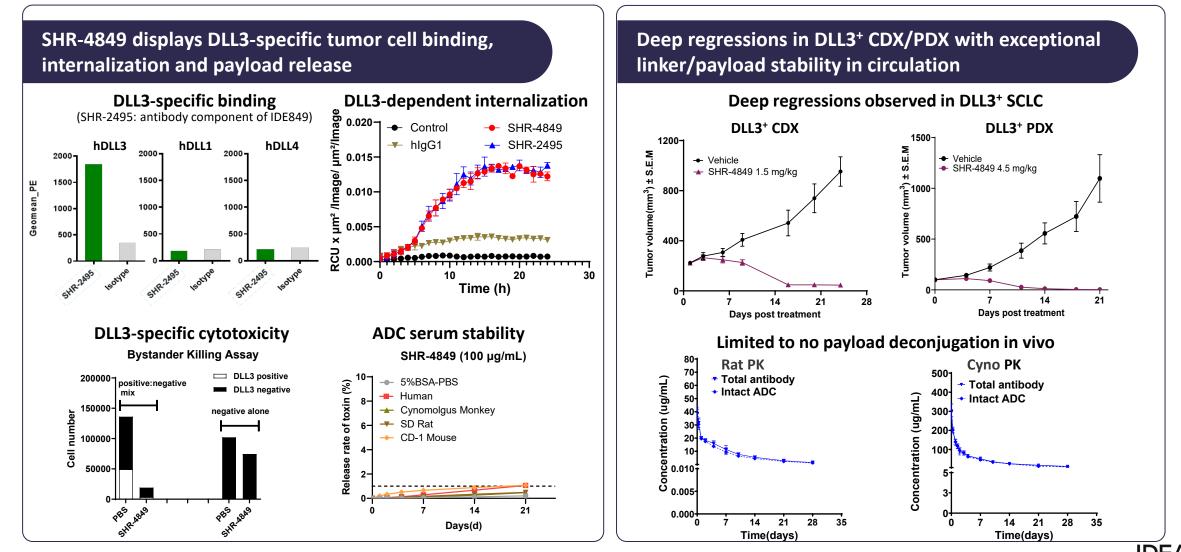
25

Sources: WHO Globocan 2022, SEER, Rojo, F., at al., Lung Cancer. 2020;147:237–243; Tanaka, K., at al., Lung Cancer. 2018 Jan:115:116-120; Yao, J., at al., The Oncologist, 2022, 27, 940–951; Ali, G., at al., Front. Oncol. 11:729765; Song, H., at al., Exp Ther Med 16: 53-60, 2018, Ideaya Commercial Analysis, 2024 AACR. Abstract 3146/27



IDE849 (SHR-4849): Well-tolerated Robust Antitumor Activity in DLL3⁺ SCLC

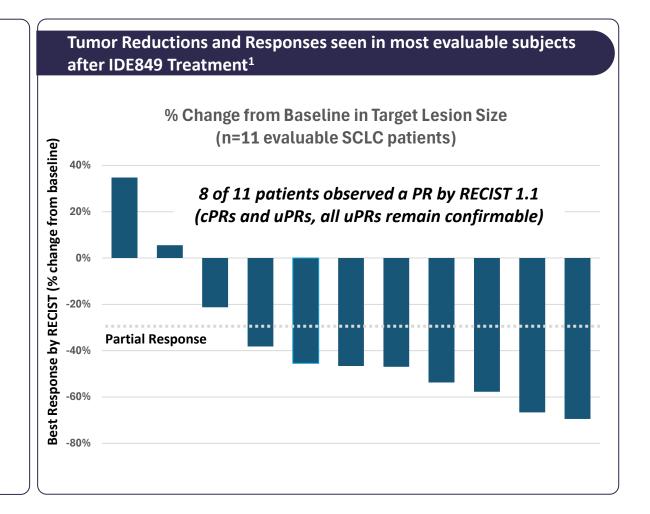
DLL3-Specific Tumor Cell binding, Internalization and Payload Release



IDE849 (SHR-4849): Potential First-in-Class with Preliminary Ph1 Clinical PoC Phase 1 FIH Study of DLL3 Topo-1-Payload ADC in Pre-Treated SCLC Patients

Phase 1 Dose Escalation in China in Pre-Treated SCLC Patients¹

- Preliminary Clinical PK Summary
 - Dose dependent increase in exposure
 - Promising T-Ab to ADC ratio
- Preliminary Clinical Efficacy Summary²
 - 8 of 11 evaluable SCLC patients observed a partial response by RECIST 1.1, resulting in a ~73% ORR (confirmed and unconfirmed, all unconfirmed PRs remain confirmable)
- Preliminary Clinical Safety Summary
 - TRAEs were largely Grade 1 or 2
 - No AE leading to discontinuation (related or unrelated)
 - Maximum tolerated dose has not yet been reached
 - Most commonly observed TRAEs: white blood cell count decreased, anemia, neutrophil count decreased, nausea and platelet count decreased





(1) All unconfirmed responses pending further evaluation

- (2) Clinical efficacy summary at therapeutic dose levels
- Source: Hengrui Pharma. Data Cut off Dec 10, 2024.

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IDE849 (SHR-4849): Potential First-in-Class with Preliminary Ph1 Clinical PoC

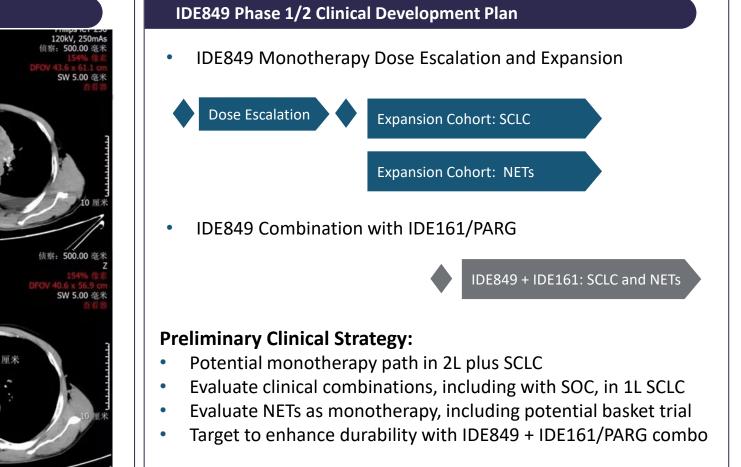
Pre-Treated SCLC Patient Case Study and Preliminary IDEAYA Clinical Development Plan

Case Example in Phase 1 FIH Dose Escalation

A 70-year-old male with extensive stage SCLC who had failed prior PD-L1 and platinum doublet treatment

The subject was treated with IDE849 and achieved PR at Week 6 with a 70.6% reduction in the large mediastinal tumor mass

查说明: SD Chest +AB. 列说明: V, iDose (3) Baseline 侦察: 500.00 Week 6

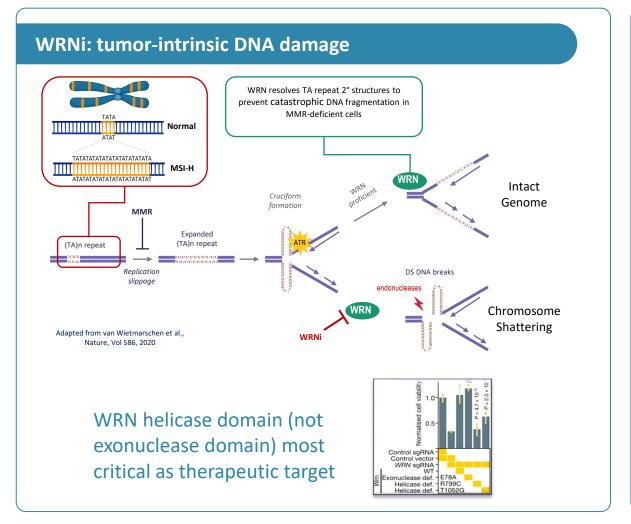


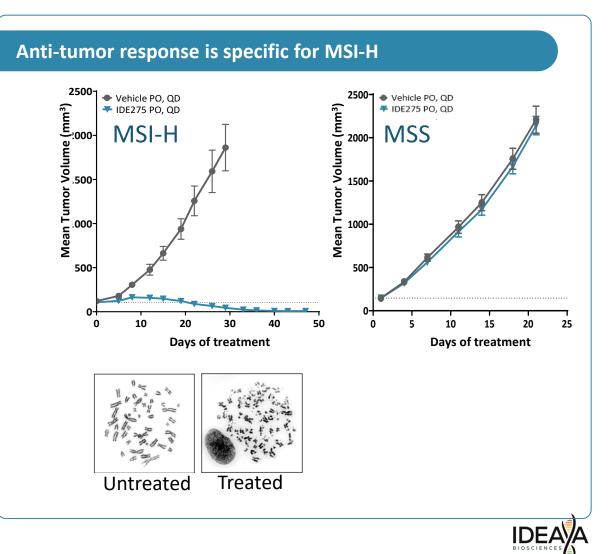
SOC = Standard of Care Source: Hengrui Pharma



IDE275 (GSK959): Potential First-in-Class Ph1 Werner Helicase Inhibitor

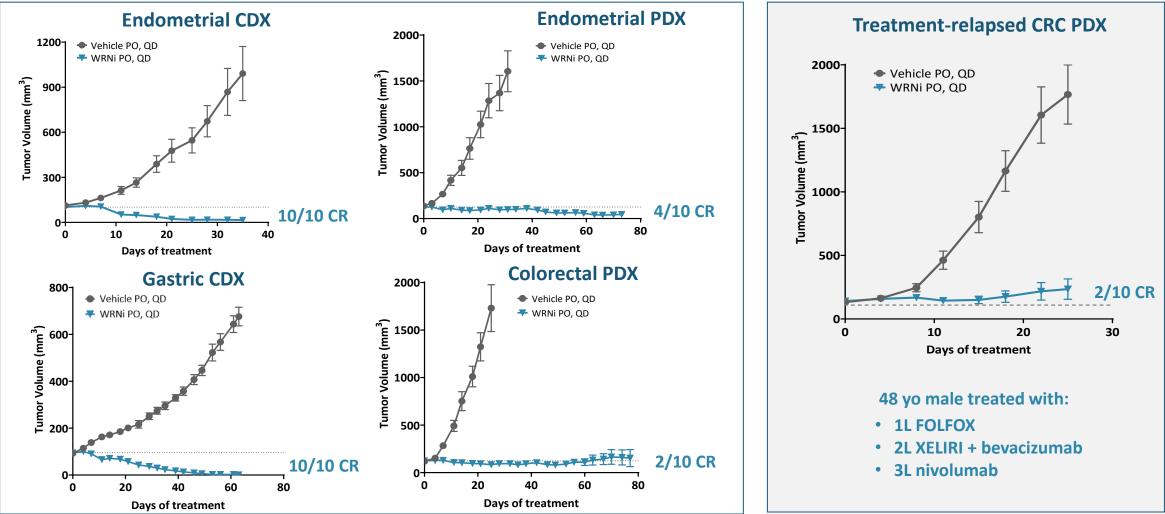
WRN Helicase Activity is Specifically Essential for Survival of MSI-high/dMMR Cancer Cells





IDE275 (GSK959) Werner Helicase Inhibitor Demonstrates Robust Anti-Tumor Activity in MSI-H and Heavily Pre-Treated Tumors

Supports Clinical Strategy to Expand beyond MSI-H Colorectal Cancers



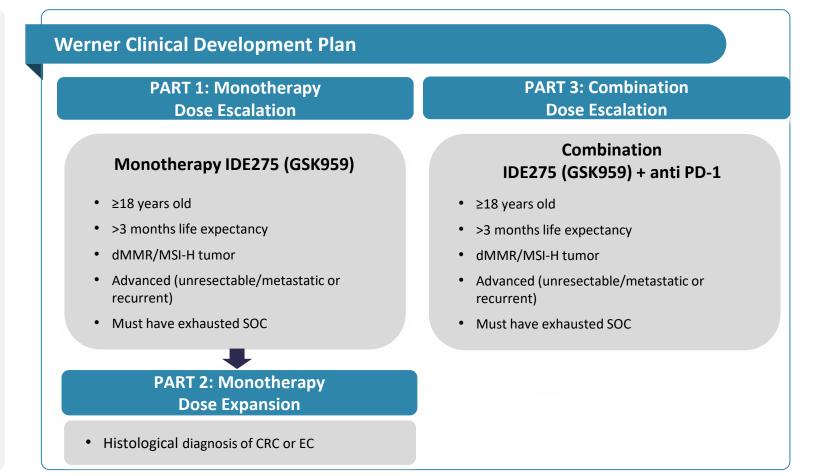


IDE275 (GSK959): Phase 1 Werner Helicase Inhibitor

Clinical Development Plan

IDE275 (GSK959) Werner Helicase Inhibitor

- IDE275 (GSK959) has demonstrated robust and selective synthetic lethality preclinically in the high microsatellite instability (MSI-High) biomarker setting
- Phase 1 clinical trial enrolling patients having tumors characterized by MSI-High (NCT06710847)

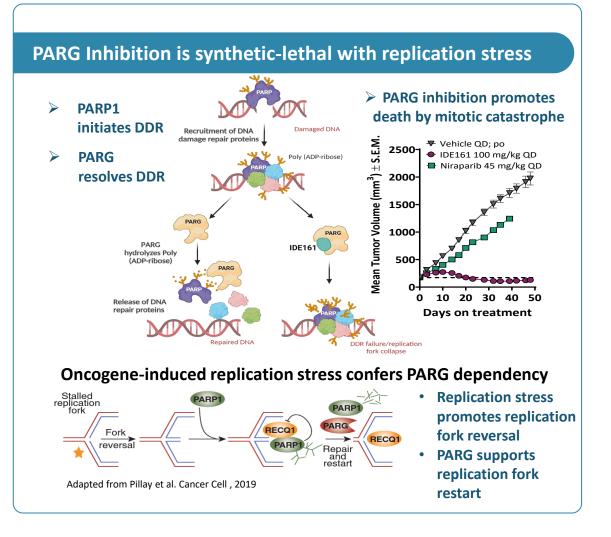


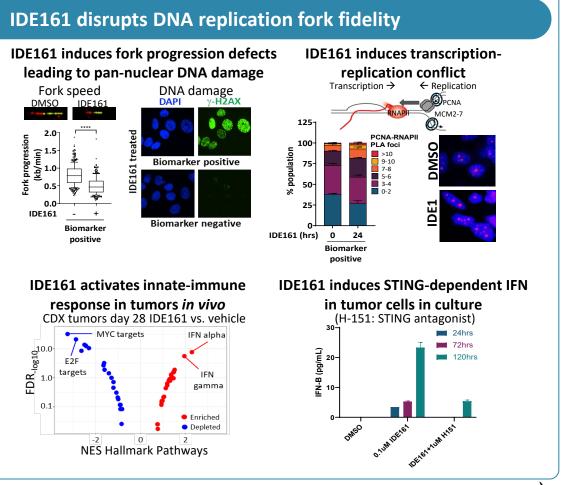
GSK Strategic Partnership: 50/50% US Profit Share and ex-US Royalties, ~\$1B Milestones, incl. up to \$20M Preclinical / Ph1 Clinical; Cost Share 80% (GSK) / 20% (IDEAYA); Potential Combination with GSK's Jemperli[™], a PD-1 IO Agent



FISX

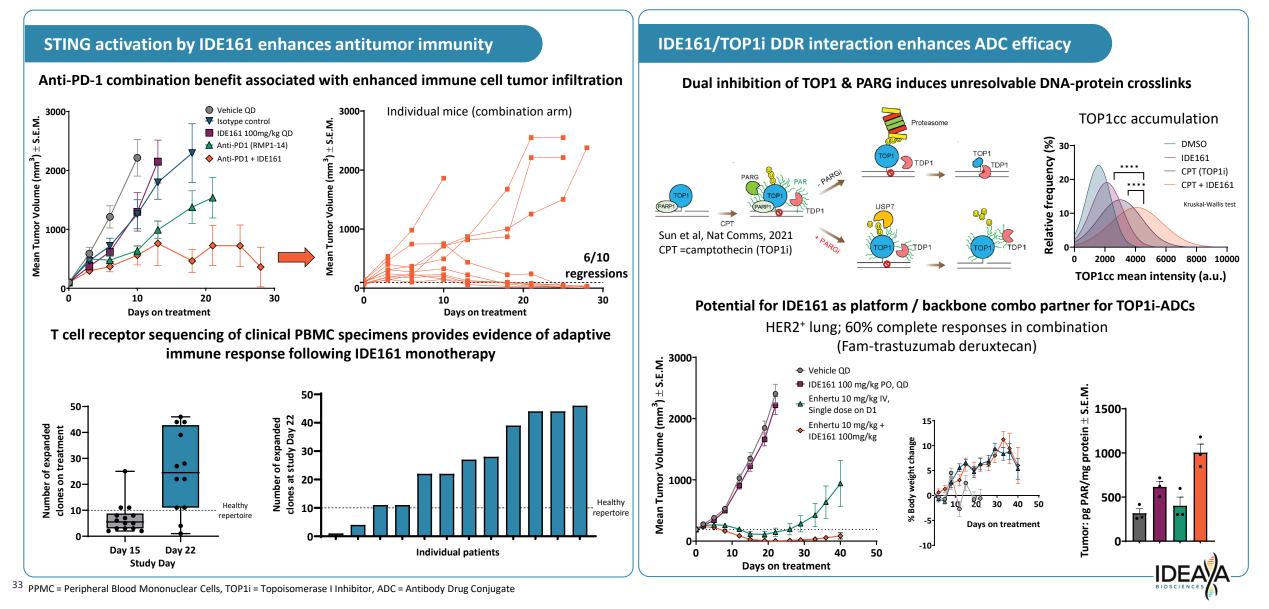
IDE161: Potential First-in-Class Phase 1 PARG Inhibitor





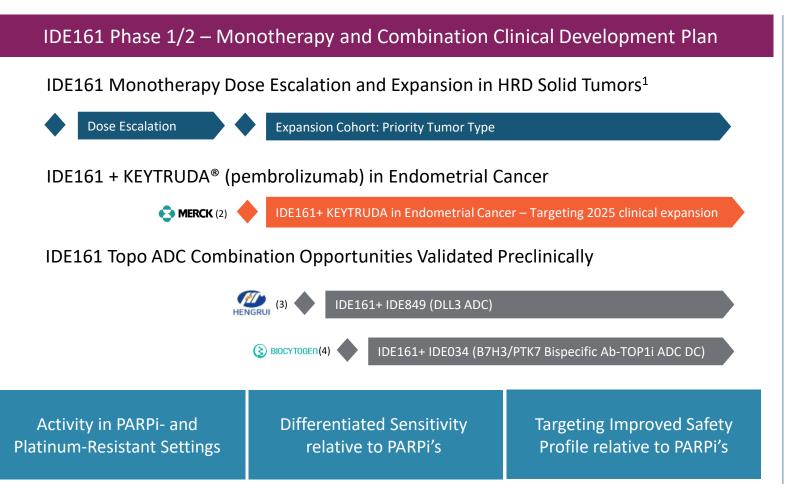
IDE161 Combination Strategies with PD-1 and TOP1i-ADCs

High Conviction Mechanistic Rationale with Potentially Broad Development Opportunity



IDE161 Phase 1/2 Clinical Development Plan in Solid Tumors

Clinical Strategic Focus on Rational Combinations with TOP1i-ADCs and PD-1



IDE161 monotherapy expansion initiated in priority tumor type

IDE161 + Keytruda clinical combo FPI achieved

Targeting to enable IDE161 + TOP1i-ADC clinical combinations

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

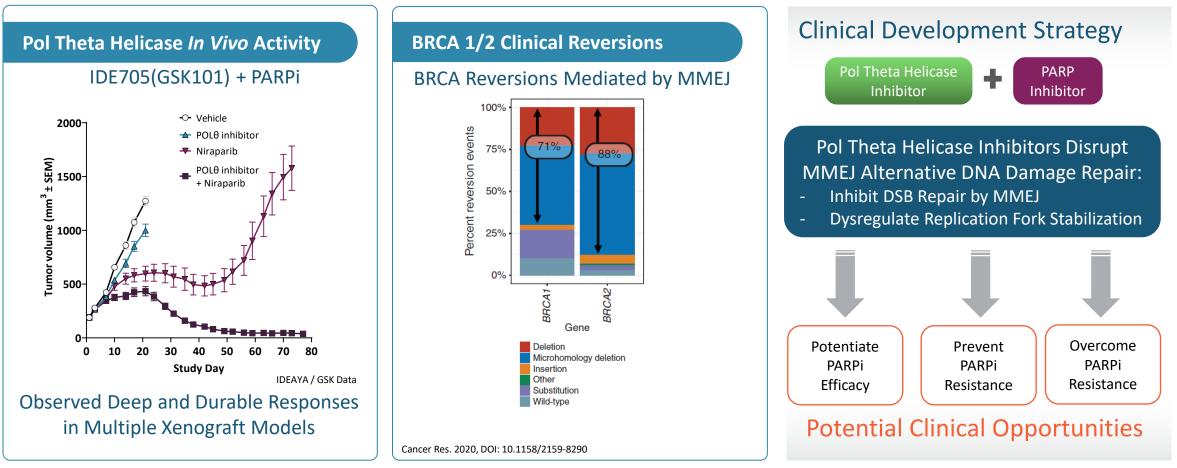
(1) Clinicaltrials.gov: NCT05787587

(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 (3) Pursuant to exclusive license agreement with Jiangsu Hengrui Pharmaceuticals Co., Ltd for worldwide rights outside of Greater China

4 (4) Pursuant to exclusive worldwide licensing and option agreement with Biocytogen PARG = poly (ADP-ribose) glycohyrdolase, PAR = poly (ADP-ribose), PBMC = Peripheral Blood Mononuclear Cells, PSA = Prostate Specific Antigen, EC = Endometrial Cancer, CRC = Colorectal Cancer



IDE705 (GSK101): Potential First-in-Class Ph1 Pol Theta Helicase Inhibitor Phase 1 in Combination with Niraparib (PARPi)

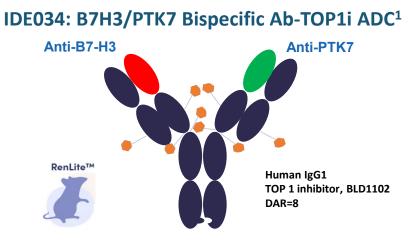


GSK Strategic Partnership: Global Royalties with GSK covering all Costs, ~\$1B Milestones, incl. up to \$20M Preclinical / Ph1 Clinical Potential Combination with GSK's Zejula™, a PARP Inhibitor



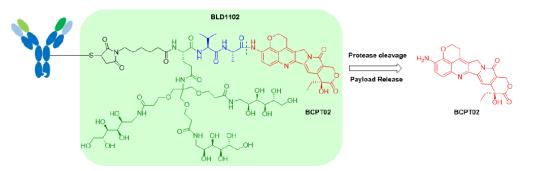
IDE034 DC: Potential First-in-Class B7H3/PTK7 TOP1i Bi-Specific ADC¹

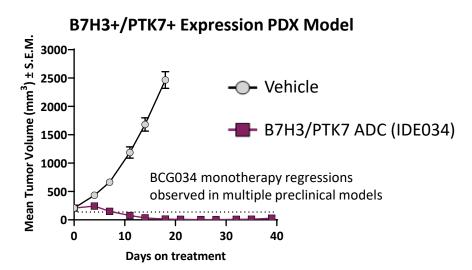
Dual Tumor-Associated Antigen Targeting for Potential Enhanced Therapeutic Window



Knobs-into-holes

Proprietary Topoisomerase I Linker-Payload





- Enhanced tumor versus normal cell binding
- Enhanced internalization efficiency
- Meaningful double-positive disease population²

Indication	B7H3/PTK7 Double Positive %	
Lung	29.8%	Substantial
Colorectal ³	45.9%	addressable
HNSCC	27.1%	B7H3/PTK7 patient
Ovarian	23.1%	population

(1) IDE034: B7H3/PTK7 Top1i Bispecific ADC development candidate (DC). Exclusive worldwide licensing and option agreement with Biocytogen; IND-enabling studies ongoing with IND-filing targeted in H2 2025 (2) IDEAYA analysis of Human Protein Atlas



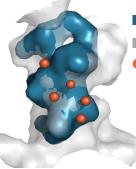
DAR = Drug Antibody Ratio, IND = Investigational New Drug

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IDE251 DC: Dual KAT6/7 Inhibitor with High Selectivity vs KAT Family¹

Potent Pathway Modulation Delivers Robust Biomarker-Specific Single-Agent Activity

IDE251 solves considerable design challenge

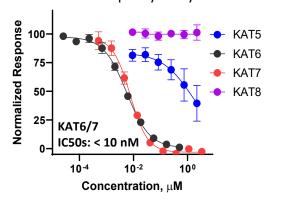


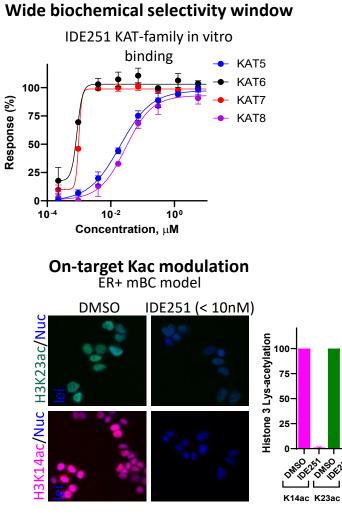
KAT7 pocket (270 Å³)
 KAT6 pocket (614 Å³)
 Residue differences

Substantial difference in binding site volume and residue identity

Strong and selective cellular target binding

IDE251 KAT family cellular occupancy assay





Durable anti-tumor activity PDX ST941 (HR+ mBC, 8p11 CN amp, ESR1 Y537S) 2500 S.E.M. Vehicle QD 2000 IDE251 QD Volume (mm³) : Clinical KAT6i (CRD) 1500 1000 Mean Tumor Drug off dav 69 500 0 20 80 100 0 40 60 Days on treatment NSCLC CDX (8p11 CN amp) 2000-S.E.M. Vehicle QD IDE251 QD +1Mean Tumor Volume (mm³) 1500-1000-500-20 40 60 80 O Days on treatment

(1) IND-enabling studies ongoing with IND-filing targeted in H2 2025

DC = development candidate, CN = Copy Number, mBC = Metastatic Breast Cancer, CDX = Cell Line-Derived Xenograft, QD = Once Daily

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 PROGRAMS
Ph 2/3 – Darovasertib (PKC) ¹ Ph 2 – IDE397 (MAT2A) ¹ Ph 1 – IDE849 (DLL3 ADC) ² Ph 1 – IDE275 (Werner Helicase) ³ Ph 1 – IDE161 (PARG) ¹ Ph 1 – IDE705 (Pol Theta Helicase) ³	IDE892 (PRMT5) – Targeting IND Mid-2025 IDE034 (B7H3/PTK7 Bi-Specific ADC ⁴) – Targeting IND H2 2025 IDE251 (KAT6/7) – Targeting IND H2 2025	Multiple Potential First-in-Class Programs Advancing

6 Clinical Programs

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Targeting 3 IND Filings

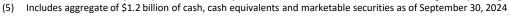
Darovasertib Registration-Enabling Trial with Potential Accelerated Approval in HLA-A2(-) MUM and Ph3 registrational trial targeted in Neoadjuvant UM is tractable for commercial execution and provides path to potential product revenue to reinvest in broad *first-in-class* pipeline

Potential First-in-Class Precision Medicine Oncology Pipeline, including Darovasertib (Ph2/3), IDE397 (Ph 2), IDE849 (Ph1), IDE275 / GSK959 (Ph 1), IDE161 (Ph 1), IDE892 (Targeting IND mid-2025), IDE034 (Targeting IND H2 2025), and IDE251 (Targeting IND H2 2025)

Strong Balance Sheet with ~\$1.2B⁵ and opportunity for milestone payments with cash runway into at least 2028

Pharma Collaborations including Pfizer, Amgen, Gilead, Merck, Hengrui, and GSK partnership with ~\$2 billion³ in potential milestones

⁽⁴⁾ IDE034: B7H3/PTK7 Top1i Bispecific ADC development candidate. Exclusive worldwide licensing and option agreement with Biocytogen





⁽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⁾ IDE849 (SHR-4849): DLL3 Top1i Antibody Drug Conjugate. Exclusive license agreement with Jiangsu Hengrui Pharmaceuticals Co., Ltd for worldwide rights outside of Greater China

⁽³⁾ IDE705 (GSK101) Pol Theta Program Cost Share = 100% GSK with ~\$1B Milestones and WW Royalties; IDE275 (GSK959) Werner Helicase Program Cost Share = 80% GSK / 20% IDEAYA with ~\$1B Milestones, 50/50 US Profit Share and Ex-US Royalties