



September 2023

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 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; 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, 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, 2022, and any current and periodic reports filed thereafter. 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.

This presentation concerns anticipated products that are under clinical investigation and which have not yet been approved for marketing by the U.S. Food and Drug Administration (FDA). It is currently limited by Federal law to investigational use, and no representation is made as to its safety or effectiveness for the purposes for which it is being investigated.

IDEAYA Biosciences Highlights

Leading Precision Medicine Oncology focused biotechnology company advancing transformative First-in-Class targeted and Synthetic Lethality (SL) therapies for cancer patients

- **Broad Pipeline of Key Emerging Targets**

- Ph 2/3 Registrational: Darovasertib (PKC) MUM
- Ph 2: Darovasertib (Neo)Adjuvant Primary UM
- Ph 2: IDE397 (MAT2A)
- Ph 1: IDE397 + AMG 193 (PRMT5^{MTA})
- Ph 1: IDE161 (PARG)
- Ph 1: GSK101 (IDE705) (Pol Theta Helicase)
- Preclinical Lead Optimization: Werner Helicase

- **Pharma Collaborations** with Pfizer (CTCSA), Amgen (CTCSA), GSK (with ~\$2B in potential milestones)

- **Balance Sheet** of ~\$510M to fund ops into 2027^{1, 2}

- **NASDAQ:** IDYA

- **2023 Target Milestones**

- Darovasertib (PKC) / Crizotinib – Registrational in MUM
 - Phase 2/3 Registrational Trial
 - Phase 2 Program Update including ctDNA Data (ESMO Q4 '23)
- Darovasertib (PKC) – Phase 2 in Primary UM
 - Phase 2 in Neoadjuvant / Adjuvant UM (IST Update Q4 '23)
- IDE397 (MAT2A) – Phase 1/2
 - Phase 2 Monotherapy Expansion in High-Priority Tumors
 - Phase 1 Amgen-Sponsored IDE397 + AMG 193
- IDE161 (PARG) – Phase 1/2
 - Phase 1 Expansion in HRD Tumors (Program Updates H2 '23)
- GSK101 (IDE705) (Pol Theta Helicase) – Phase 1/2
 - Phase 1 GSK-Sponsored GSK101 + Niraparib (FPI Q4 '23)
- Werner Helicase
 - Development Candidate (Nomination H2 '23)

(1) Includes aggregate of \$510.1 M cash, cash equivalents and marketable securities as of June 30, 2023

(2) IDEAYA Form 10-Q dated August 10, 2023 as filed with the U.S. Securities and Exchange Commission

IND = Investigational New Drug

Leading Functional Genomics and Synthetic Lethality Platform

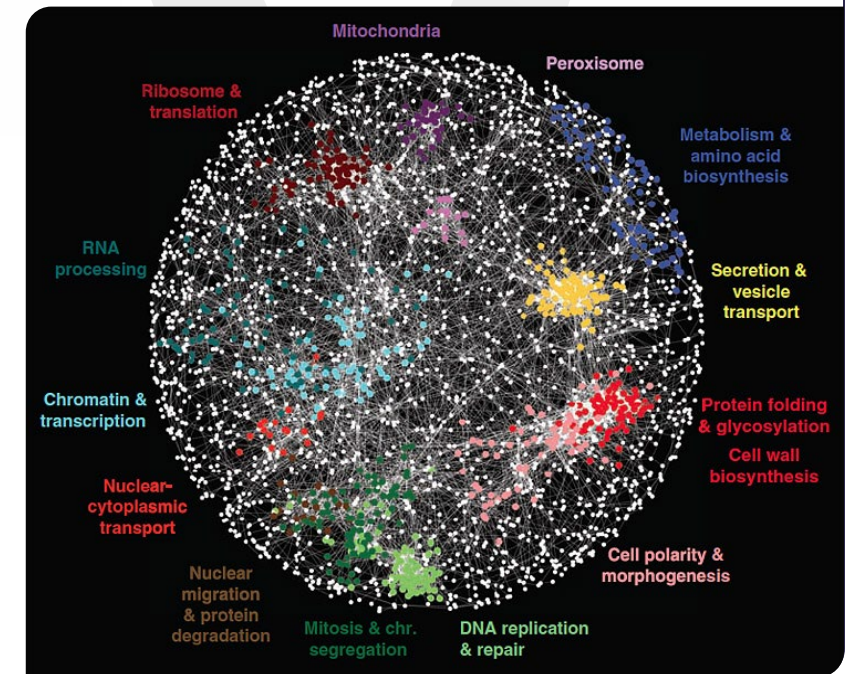
The Next Frontier in Precision Medicine Oncology

Functional Genomics and SL 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

Nature Reviews Genetics, Vol. 18, 2017, Hieter, et al. , as edited by IDEAYA



Reference: Charles Boone

IDEAYA Leadership Team and Scientific Advisory Board

Experienced Team & Scientific Thought Leaders in Precision Medicine Oncology

IDEAYA Executives & R&D Leadership



Yujiro Hata, M.B.A.
Chief Executive Officer, Director



Darrin Beaupre, M.D., Ph.D.
Chief Medical Officer



Michael White, Ph.D.
Chief Scientific Officer



Paul Stone, J.D.
Chief Financial Officer



Matthew Maurer, M.D.
Head of Clinical Oncology & Medical Affairs



Mick O'Quigley, M.B.A.
Head of Development Operations



Paul Barsanti, Ph.D.
Chief Technology Officer



Jason Throne, J.D.
Chief Legal Officer



IDEAYA Scientific Advisory Board



Frank McCormick, Ph.D.
SAB Chair

UCSF, Professor and former Director, Helen Diller Cancer Center
Former President AACR; Founder and CSO, Onyx



Karlene Cimprich, Ph.D.

Professor, Chemical and Systems Biology and (by courtesy)
Biochemistry, Member, Stanford Cancer Institute, Stanford
University



Trey Ideker, Ph.D.

UCSD, Professor, Co-Director Cancer Genomes & Networks
Program, Research in Dual-CRISPR and SL interaction maps



Kornelia Polyak, M.D., Ph.D.

Professor of Medicine at Dana-Farber Cancer Institute, Harvard
Medical School, and a co-leader of the Dana-Farber Harvard
Cancer Center Cancer Cell Biology Program



William Sellers, M.D.

Broad Institute, Dana Farber, and Harvard, Professor
Novartis, Former Head Oncology Research,
SL Project Drive initiative

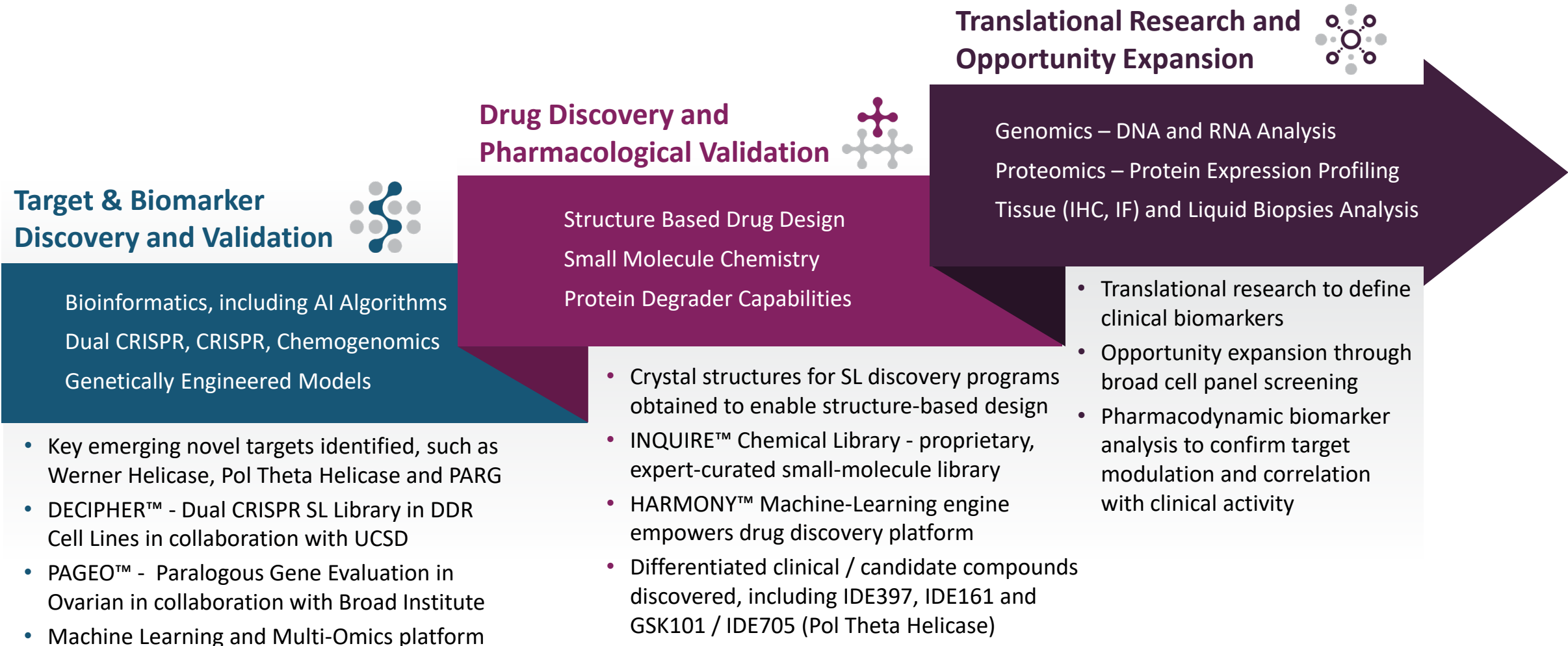


Elizabeth Swisher, M.D.

University of Washington, Professor; Co-Leader, Breast and
Ovarian Cancer Research Program, Seattle Cancer Care Alliance
Principal Investigator on multiple PARP inhibitor trials

IDEAYA Precision Medicine Oncology Platform

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



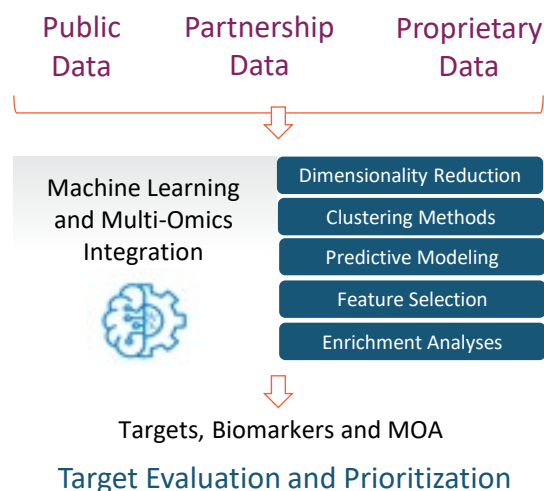
IDEAYA Functional Genomics and Synthetic Lethality Platform

Novel Target and Biomarker Discovery and Validation

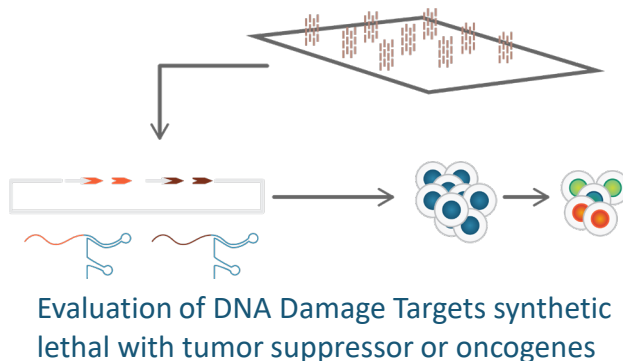
Target and Biomarker Discovery & Validation Platform

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*

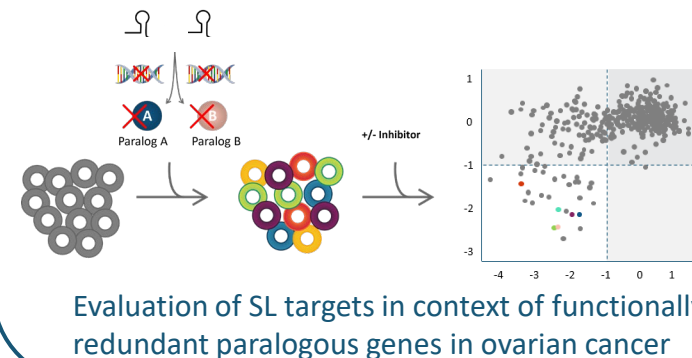
Data-to-Knowledge Enterprise fueled by multi-omic patient and molecular data across public, partnership and proprietary data sets via IDEAYA Bioinformatics Platform



DECIPHER™ Dual CRISPR SL Library in DNA Damage Repair ⁽²⁾



PAGEO™ Paralogous Gene Evaluation in Ovarian Cancer ⁽¹⁾



Partnership Datasets



Public Databases



IDEAYA Precision Medicine Oncology Drug Discovery Platform



Structure-Based Drug Design & Proprietary Chemical Library Enable “Hard to Drug” Targets

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

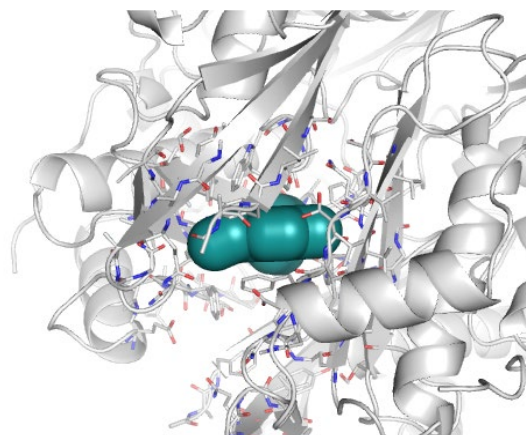
HARMONY™ Proprietary Machine-Learning

Internal Machine-Learning engine empowers discovery platform through effective prioritization leading to efficient SAR cycles

INQUIRE™ Proprietary Chemical Library

Expert-curated HTS library to enhance hit discovery capabilities against novel SL targets classes, such as helicases and endonucleases






Enhances IDEAYA's SL Drug Discovery Platform and competitive differentiation



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

Building an Industry Leading and Fully-Integrated Biotechnology Company

Precision Medicine Pipeline

	Modality/Indication	Biomarker	Pre-clinical	IND Enabling	Phase 1	Phase 2	Potential Registrational	Program Goals / Achievements	Collaborations	Commercial (IDEAYA)
Darovasertib <i>PKC</i>	+cMET ¹ Combination 1L HLA-A2(-) MUM	GNAQ/11						Phase 2 (AA) / Phase 3 Registrational Trial * Initiated	 (1)	WW Commercial Rights
	+cMET ¹ Combination HLA-A2(+) MUM ^	GNAQ/11						HLA-A2(+) Clinical Trial ^		
	(Neo)Adjuvant UM	GNAQ/11						Phase 2 Clinical Trial Initiated IST Update Q4 2023		
IDE397 <i>MAT2A</i>	Monotherapy Solid Tumors	MTAP						Phase 2 Monotherapy Expansion in NSCLC, Bladder, Esophageal and Gastric Cancers	 (2)	WW Commercial Rights
	Combinations Solid Tumors	MTAP						Phase 1 IDE397 + AMG 193 (PRMT5 ^{MTA}) Amgen-Sponsored Combination Study Initiated		
IDE161 <i>PARG</i>	Breast, Ovarian Cancers	HRD						Phase 1 Monotherapy Expansion in HRD Tumors Program Updates H2 2023	 (3)	WW Commercial Rights
GSK101 <i>Pol Theta Helicase</i>	+Niraparib Combo ⁴ Solid Tumors	HR Mutations						Phase 1 GSK101 (IDE705) + Niraparib Earned \$7M Milestone IND Clearance	 (4)	Global Royalties
WRN <i>Werner Helicase</i>	GI Cancers	High-MSI						Development Candidate H2 2023 Potential \$3M Milestone IND-Enabling Studies	 (4)	US 50/50 Profit Share Ex-US Royalties
Platform	Solid Tumors	Defined Biomarkers						New Target / Biomarker Discovery & Validation Drug Discovery / Translational Biology		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 in MUM; 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 will sponsor the study and the parties will jointly share external costs of the study

(3) Pursuant to CRUK Evaluation, Option and License Agreement; IDEAYA controls all PARG Commercial Rights

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

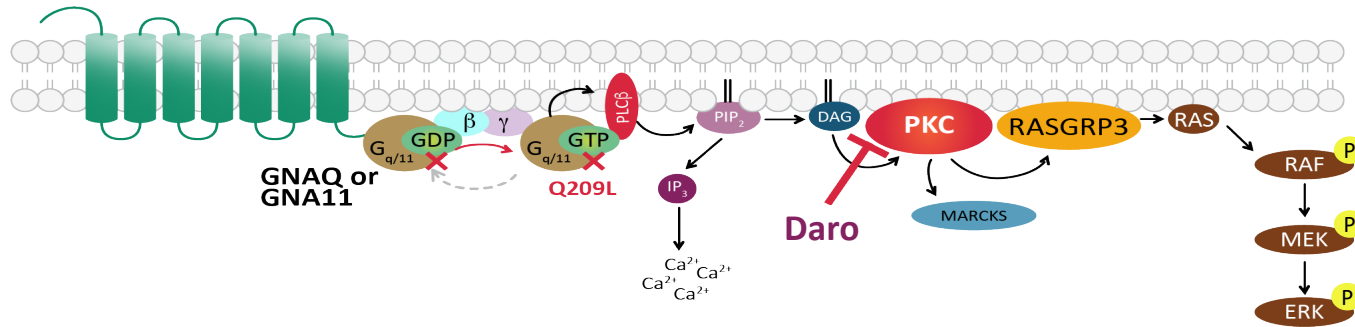
MAT2A=methionine adenosyltransferase 2a, MTAP=methylthioadenosine phosphorylase, MTA=methylthioadenosine, PRMT5=protein arginine methyltransferase 5 (PRMT5), PARG=poly (ADP-ribose) glycohydrolase, DDT = DNA Damage Target, WRN = Werner Helicase, Polθ = DNA Polymerase Theta, HRD = homologous recombination deficiency, 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 Negative; HLA-A2(+) = HLA-A2*02:01 Positive

 = Target Program Milestones

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



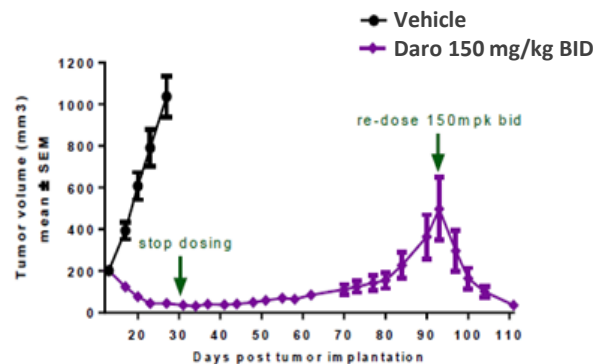
Darovasertib is an oral, potent and selective PKC inhibitor GNAQ or GNA11 (~95%) and other upstream mutations activate PKC signaling in UM and MUM patients

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)

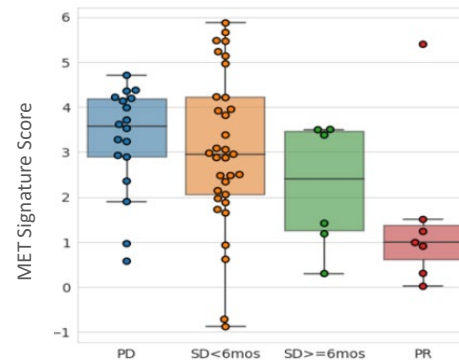


Van Raamsdonk, CD, et. al, Nature 2009; Van Raamsdonk CD, et. al, NEJM 2010; Piperno-Neumann S, et. al, J Clin Oncol 2014

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



Daro Phase 1 Monotherapy Efficacy Association with cMET Expression

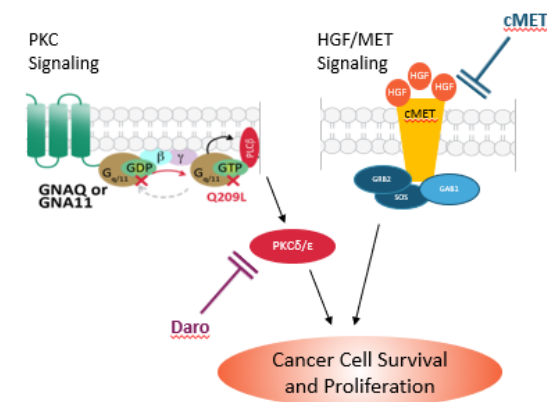


Ph 1 Clinical Outcomes

PD=Progressive Disease, SD=Stable Disease, PR=Partial Response

IDEAYA Data, AACR 2021

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



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

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

Baseline Characteristics		IDE196-001 Phase 2* Darovasertib + Crizotinib		Tebentafusp First-Line Phase 3 [#]	
		Any-Line n=63 (%)	First-Line n=20 (%)	Tebe Arm n=252 (%)	Control Arm^ n=126
Age	< 65	35 (56)	10 (50)	64 Median	66 Median
	≥65	28 (44)	10 (50)		
Sex	F	32 (51)	9 (45)	124 (49)	64 (51)
	M	31 (49)	11 (55)	128 (51)	62 (49)
ECOG PS	0	43 (68)	14 (70)	192 (76)	85 (67)
	1	20 (32)	6 (30)	49 (19)	31 (25)
Baseline LDH	Normal	25 (40)	10 (50)		
	>ULN	38 (60)	10 (50)	90 (36)	46 (37)
Largest metastatic lesion	≤3.0 cm	22 (35)	8 (40)	139 (55)	70 (56)
	3.1 to 8.0 cm	35 (56)	9 (45)	92 (37)	46 (37)
	≥ 8.1 cm	6 (10)	3 (15)	21 (8)	10 (8)
Location of metastases	Hepatic Only	20 (32)	10 (50)	131 (52)	59 (47)
	Extrahepatic Only	3 (5)	0	9 (4)	10 (8)
	Hepatic and Extrahepatic	40 (64)	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 March 08, 2023 (based on preliminary analysis of unlocked database by investigator review)

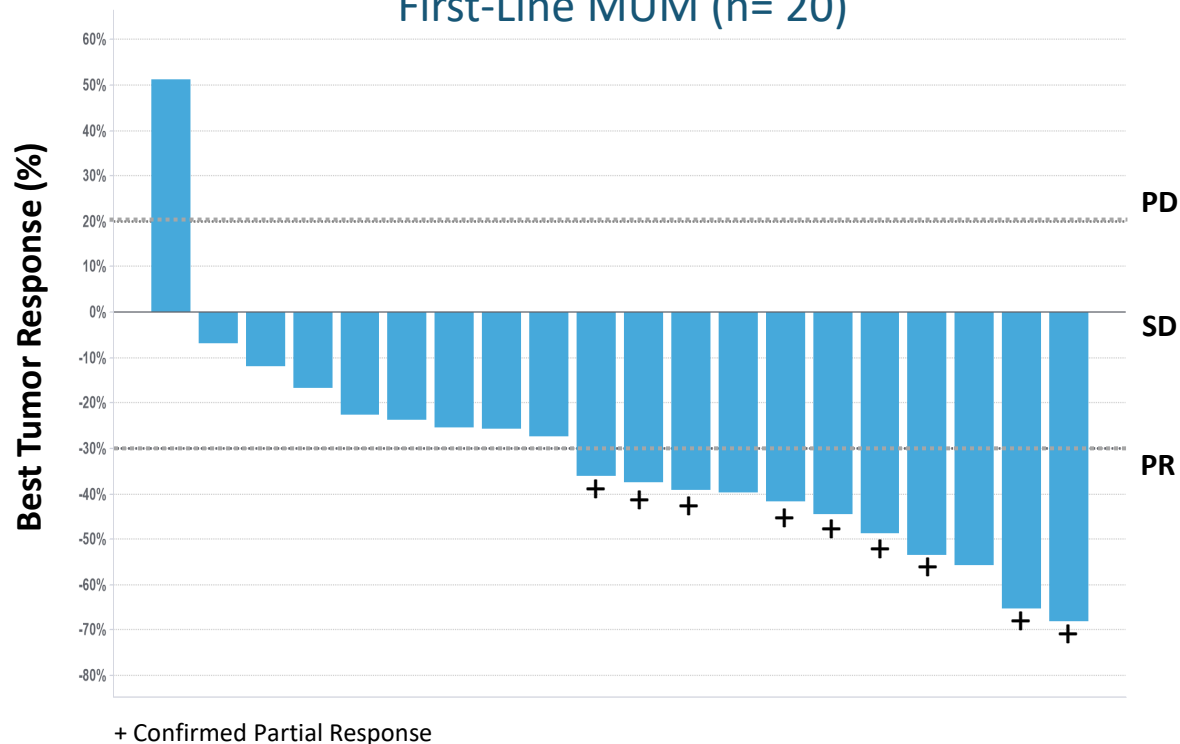
[#] N Engl J Med 2021; 385:1196-1206; ECOG data missing in Tebentafusp and Control arm of 4% and 7% respectively

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

First-Line MUM Clinical Efficacy

Observed Compelling Confirmed Overall Response Rate and Disease Control Rate

Darovasertib + Crizotinib Phase 2 First-Line MUM (n= 20)



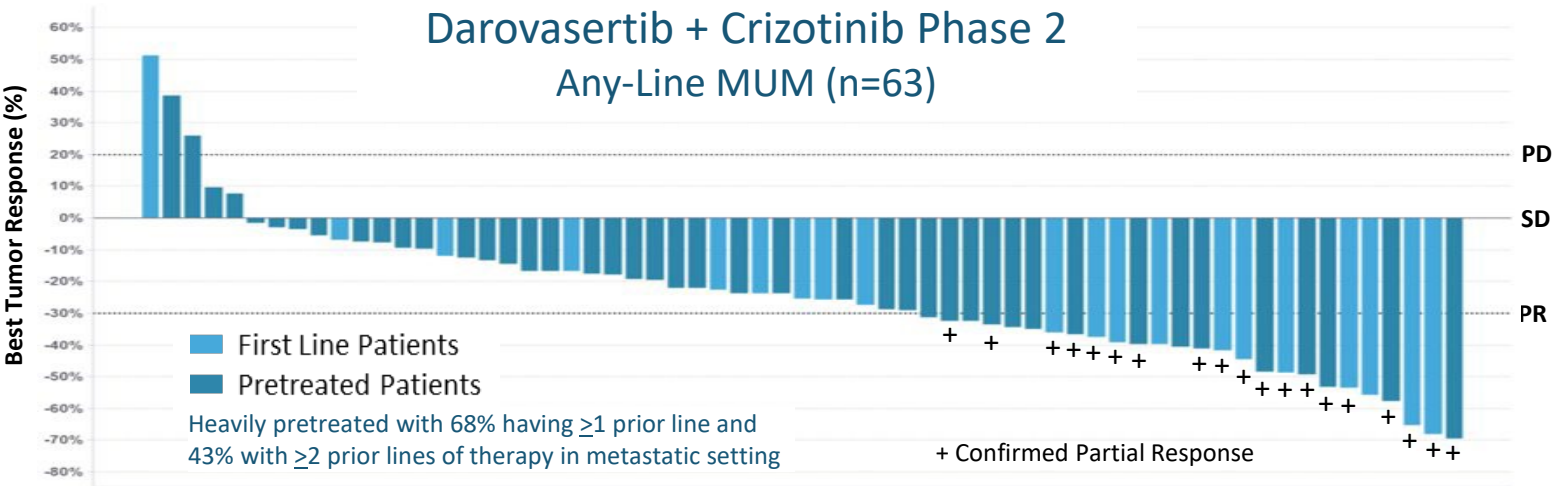
Confirmed 45% ORR and 90% DCR

Response by RECIST 1.1 First-Line MUM	Evaluable (N=20)
Confirmed ORR (9/20)	45%
Tumor Shrinkage (19/20)	95%
>30% Tumor Shrinkage (11/20)	55%
Best Overall Response	
cPR (9/20)	45%
uPR (1/20)	5%
SD (8/20)	40%
DCR (18/20)	90%

Clinical Efficacy supports Registrational Strategy in First-Line MUM to Enhance Patient Benefit

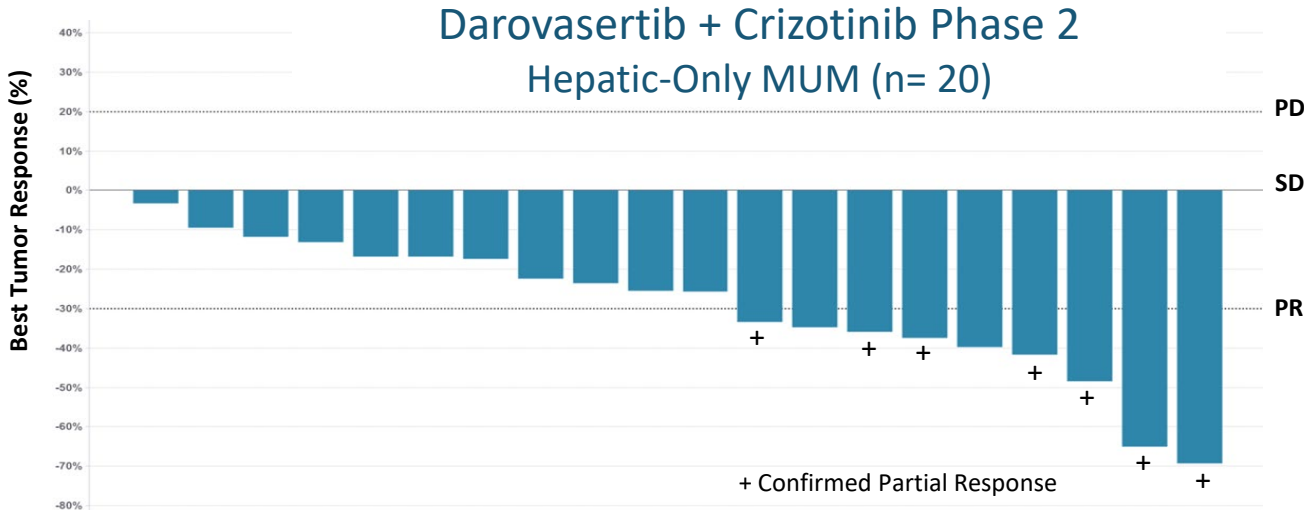
Any-Line MUM and Hepatic-Only MUM Clinical Efficacy

Clinical Efficacy irrespective of HLA-A2 Status and in Hepatic & Extra-Hepatic Metastases



Confirmed 30% ORR and 87% 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 (26/63)	41%
Best Overall Response	
cPR (19/63)	30%
uPR (4/63)	6%
SD (32/63)	51%
DCR (55/63)	87%



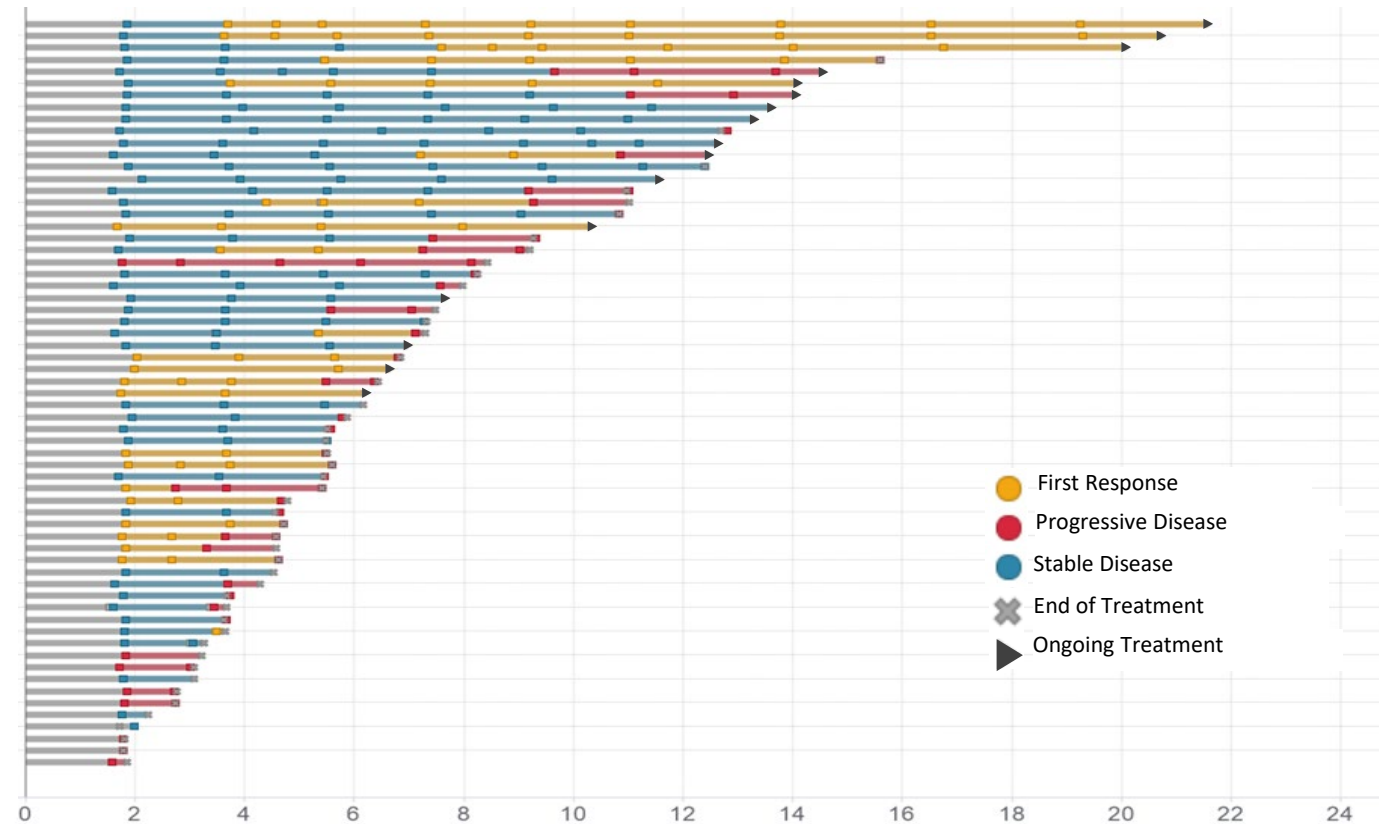
Confirmed 35% ORR and 100% DCR

Response by RECIST 1.1 in Hepatic-Only MUM	Evaluable (N=20)
Confirmed ORR (7/20)	35%
Tumor Shrinkage (20/20)	100%
>30% Tumor Shrinkage (9/20)	45%
Best Overall Response	
cPR (7/20)	35%
uPR (1/20)	5%
SD (12/20)	60%
DCR (20/20)	100%

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

Observed Compelling Median Progression Free Survival with Encouraging Trend

Any-Line MUM Swimlane Plot



Months Since C1D1

Darovasertib + Crizotinib Phase 2 Median Progression Free Survival

- First-Line (n=20): ~7 months
- Any-Line (n=63): ~7 months
 - Median PFS has increased versus previously reported mPFS of ~5 months (n=35, September 2022*)
- Hepatic-Only (n=20): ~11 months

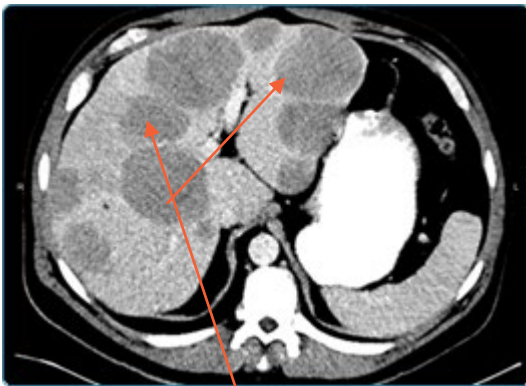
Darovasertib + Crizotinib First-Line MUM Combo Efficacy

Examples of cPRs with Significant Tumor Shrinkage in First-Line MUM Patients

First-Line MUM Patient

- 40+ year old HLA-A2 positive patient with Class 1A diagnosis metastasized after ~6 years
- Diffuse disease in liver and pelvis with elevated LDH of 800 normalized within one month of treatment
- Large tumors (SLD = 210 mm) reduced by 49%
- On treatment for over 15 months

Baseline



Many lesions distorting and replacing the liver

12 months

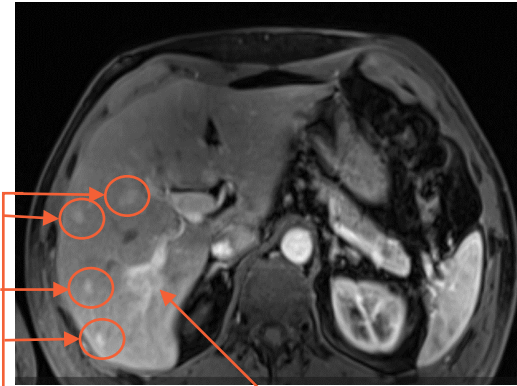


Marked improvement across all lesions

First-Line MUM Patient

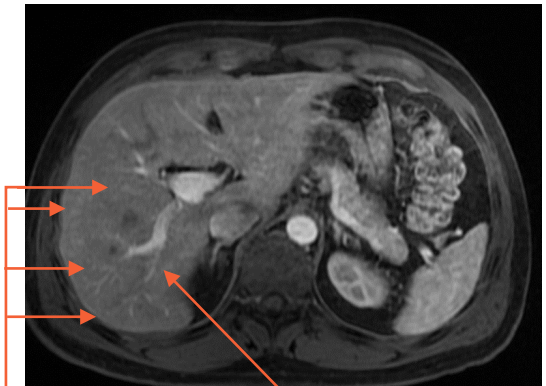
- 40+ year old HLA-A2 negative patient with Class 1A diagnosis metastasized in ~1 year
- Many liver lesions with maximal target lesion reduction of 65%
- Ongoing response
- Remains on treatment at 10 months

Baseline



Many liver lesions & target lesion

8 months



Marked improvement across all lesions

Darovasertib + Crizotinib Combination Clinical Summary in MUM

Highly Differentiated Clinical Efficacy & AE Profile Observed^{+, ++}

	Darovasertib + Crizotinib	Cabozantinib Mono / Crizotinib Mono	Selumetinib + DTIC	Ipi + Nivo	Tebentafusp
Target / Mechanism	PKC + cMET	cMET	MEK + Chemotherapy	CTLA4 + PD1	HLA-A2-0201 Bi-Specific
Study Name(s)	NCT03947385	A091201 [^] / NCT05063058 ^{^^^^}	NCT01974752 ^{^^}	NCT02626962 ^{##}	IMCgp100-102 [#]
Population	1L/2L/3L+ MUM (n=63)	1L+ MUM (n=31) / 1L (n=6) 2L (n=1) MUM	1L+ MUM (n=97)	1L MUM (n=52)	2L+ MUM (n=127)
Patient Selection	NA	NA / MET Overexpression	NA	NA	HLA-A2-positive
Drug Form	Oral Tablets	Oral Capsules	Oral Capsules + chemo	IV infusion	IV Infusion (Weekly)
Tolerability (Grade ≥3 Drug-Related AE)	33%	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 = 35%*	0% / 0%	3%	11.5% (not confirmed ORR)	4.7%
Median PFS	First-Line: ~7 months / Any-Line: ~7 months / Hepatic-Only: 11 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)

* IDEAYA Data: preliminary analysis of unlocked database as of 03/08/2023 by investigator review, and C1D1 cutoff 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

^{^^^} 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

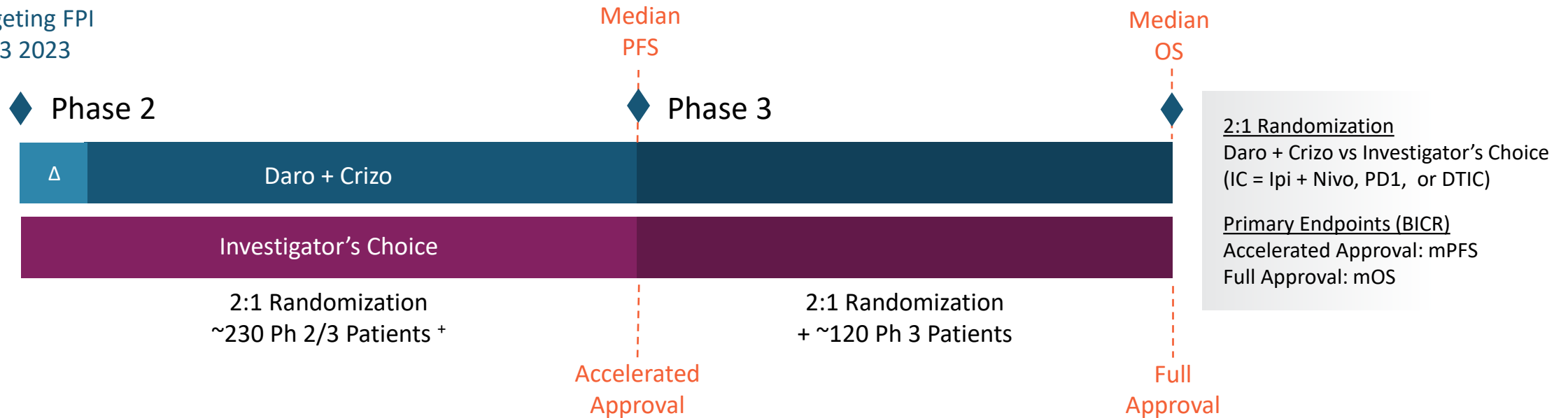
FDA Guided Design: Open Label Ph2/3 Evaluation of Daro + Crizo vs. Investigator's Choice

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

Targeting FPI
Q3 2023



FDA Fast Track Designation for Daro + Crizo in MUM

^Δ 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

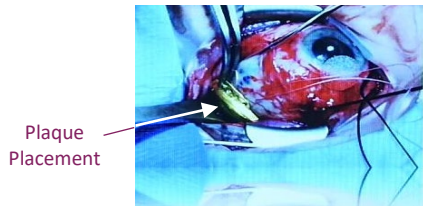
Darovasertib Monotherapy in (Neo)adjuvant Primary Uveal Melanoma

Clinical Experience: Observed 100% of Patients (9 of 9) with Ocular Tumor Reduction[^]

IDEAYA Phase 2 and IST ongoing to evaluate Darovasertib
Current Treatment Approach following diagnosis of UM depends on tumor size and location:

- Enucleation in Large Tumors (~ 20%)
- Radiation in Small / Medium Tumors (~80%)

Plaque Brachytherapy



Iodine-125 Plaque Surgery, UCLA

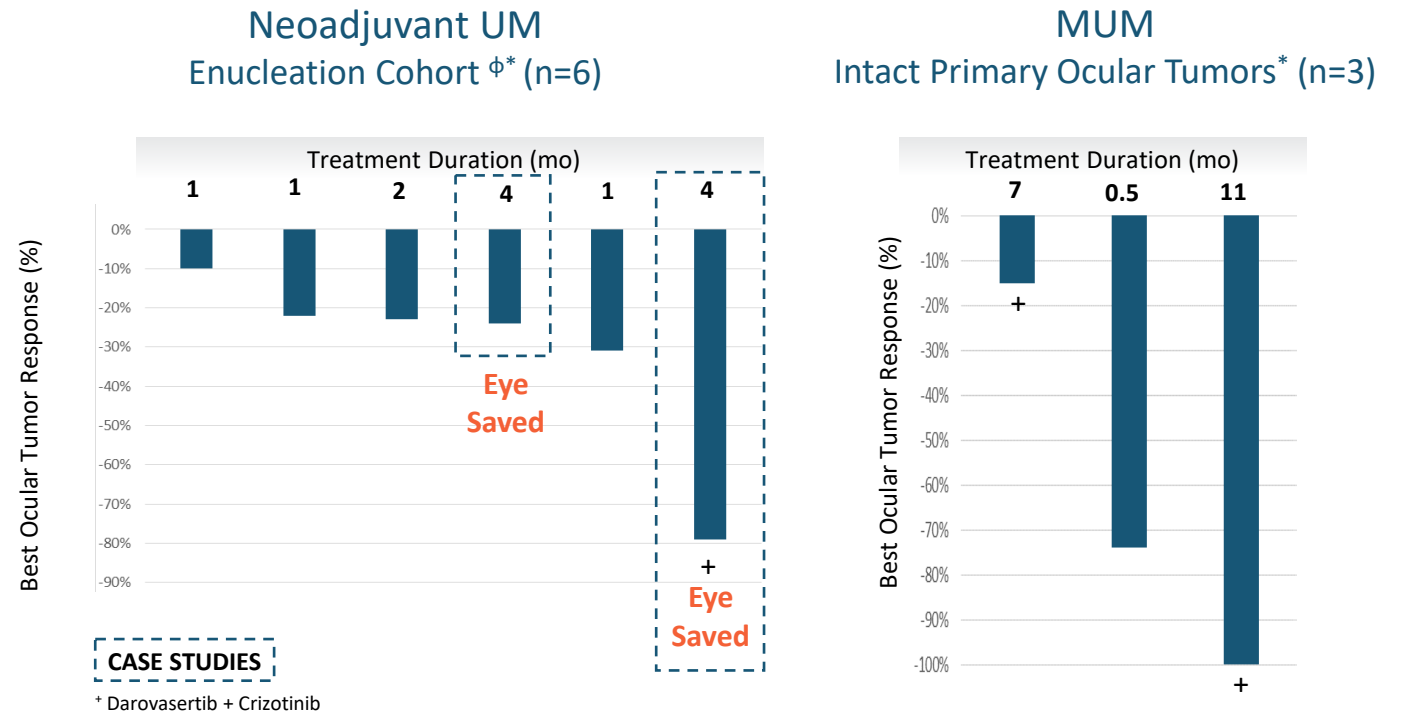
Poor Vision ($\leq 20/200$) occurs in about 70%-80% of patients with UM (including enucleation)

Neoadjuvant / Adjuvant Systemic Therapy goals:

- Avoid Nucleation → Save the Eye
- Reduce Tumors and Radiation Dose → Protect Vision
- Reduce Occurrence of Metastasis → Save Lives

Paradigm Shifting Opportunity to Broadly Impact UM, with annual incidence of ~8,000 – 10,000 patients in US, EU

Clinical Experience in UM and MUM Patients



Each Reported Case has shown a Reduction in Size of Ocular Eye Lesion ϕ^*

+ Neoadjuvant UM or MUM patients treated with Darovasertib + Crizotinib

[^] Data by investigator assessment as of April 15, 2023, from (i) NADOM IST courtesy of Professor Anthony Joshua, MBBS, PhD, FRACP, St. Vincent's Hospital, with update as of June 22, 2023 for monotherapy NADOM IST patient who was spared enucleation (ii) Compassionate Use Case; for NADOM IST, by initial protocol the first 3 neoadjuvant UM patients were required to stop treatment at ~1 month; IST protocol was subsequently amended to treat up to 6 months

[^] Best Ocular Tumor Response based on maximal % reduction in measured Apical Height or Longest Basal Diameter (LBD)

* Ocular tumor shrinkage measured by investigator assessment by either MRI, ultrasound, CT-scan, or PET scan (0.5 month scan for MUM patient, SUV Max% tumor response)

Case Studies of Saved Eyes: Neoadjuvant Treatment of UM Patients

Initial Cases of Systemic Neoadjuvant Therapy resulting in Prevention of Enucleation

Case 1: Eye Saved by Neoadjuvant Treatment ⁺ ^

UM patient was blind in one eye, developed a large ocular tumor in other eye causing vision loss, and diagnosed with UM Large Ocular Lesion – 16.5 mm Apical Height x 18 mm LBD

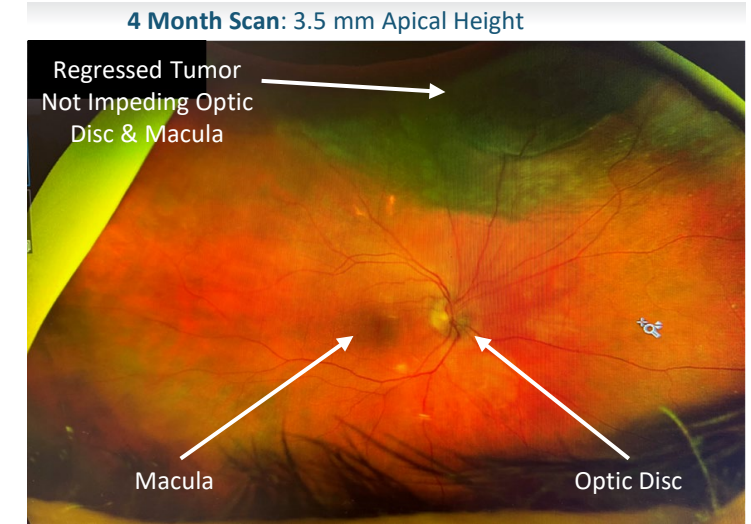
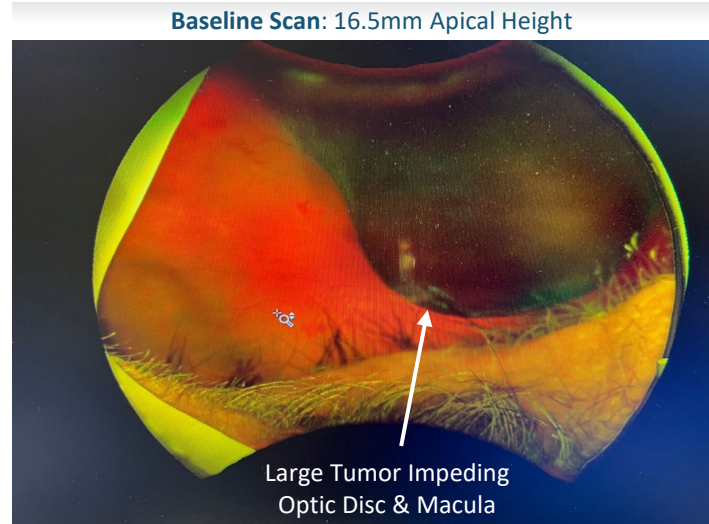
Tumor Shrinkage observed at each month of treatment with Darovasertib + Crizotinib (~30% at 1 mo and ~80% at 4 mo)

Avoided Enucleation and prevented complete blindness

Restored > Normal Vision with neoadjuvant treatment and intraocular lens replacement for treatment of cataracts

Residual Tumor treated with Plaque Brachytherapy

Patient remains on Daro + Crizo Combination Therapy



Case 2: Eye Saved by Neoadjuvant Treatment ⁺ *

UM patient with large tumor enrolled in NADOM IST study

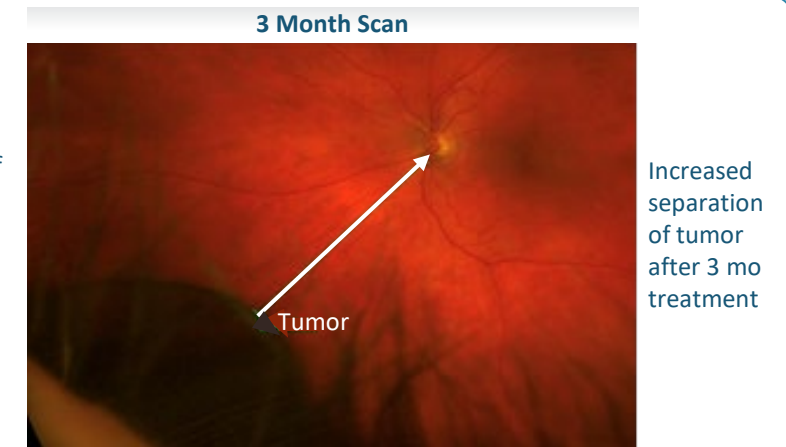
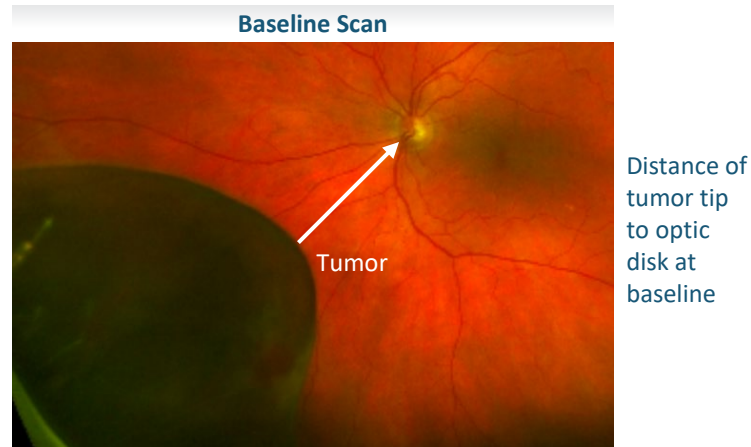
Reduction in Tumor Size of ~24% observed following 4 mo neoadjuvant treatment with darovasertib

Tumor Proximity to Optic Disc and Macula – observed increased separation from tumor following treatment for 3 mo

Avoided Enucleation and Preserved Vision

Residual Tumor treated with Plaque Brachytherapy

Patient remains on Darovasertib as Adjuvant Therapy



⁺ Ocular tumor shrinkage based on % reduction in tumor apical height; LBD = Largest Basal Diameter

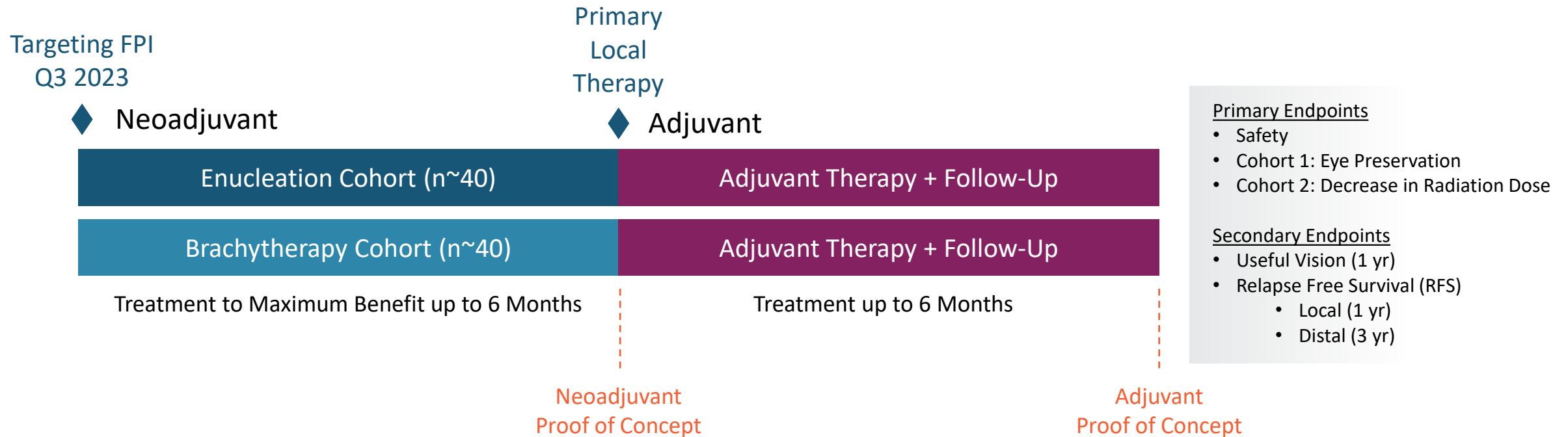
[^] Data and images courtesy of Dr Rod O'Day, LLB (Hons), BSc, MBBS (Hons), FRANZCO, Ocular Oncology Unit Royal Victoria Eye and Ear Hospital, Melbourne Australia. Additional patient care provided by Dr Daniel McKay, MBBS(Hons) FRANZCO FRCPA and Dr John McKenzie, MBBS, FRACS, FRCOphth, FRANZCO

^{*} Data and images courtesy of Professor Anthony Joshua, MBBS, PhD, FRACP, Head Department of Medical Oncology, Kinghorn Cancer Centre, St. Vincent's Hospital in Sydney, a principal investigator in the NADOM IST

(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 Eye


Brachytherapy Cohort → Protect Vision

Adjuvant Therapy → Save Lives

Darovasertib Clinical & Commercial Strategy in Uveal Melanoma Indication

High Unmet Need and Multiple First-Line Opportunities across the Patient Journey

Indication is the Diagnostic: +95% of UM patients harbor GNAQ/GNA11 or upstream activating mutation of PKC-signaling, enabling Broad Applicability of Darovasertib in this Indication

Uveal Melanoma Patient Journey									
	Neoadjuvant UM			Adjuvant UM		First-Line MUM		Pretreated MUM	
HLA-A2-Negative (~60-65% of UM / MUM)**	No FDA Approved Therapies*	Daro Phase 2 Enucleation Define Accelerated Approval Path	Daro Phase 2 Radiation Define Accelerated Approval Path	No FDA Approved Therapies*	Daro Phase 2 Define Accelerated Approval Path	No FDA Approved Therapies*	Daro + Crizo Registrational Trial Accelerated Approval		
HLA-A2-Positive (~35-40% of UM / MUM)**									
Target Treatment Duration	≥6 months			≥6 months		mPFS + ~3 months		mPFS + ~3 months	
Target Clinical Endpoints	Eye & Vision Preservation			Relapse Free Survival		ORR, mPFS, mOS		ORR, mPFS, mOS	
Annual Incidence US/EU**	~8-10k			~8-10k		~4-5k			
Total Prevalence US/EU**	~100k			~100k		~14k			

FDA Orphan Drug Designation in Uveal Melanoma⁺

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

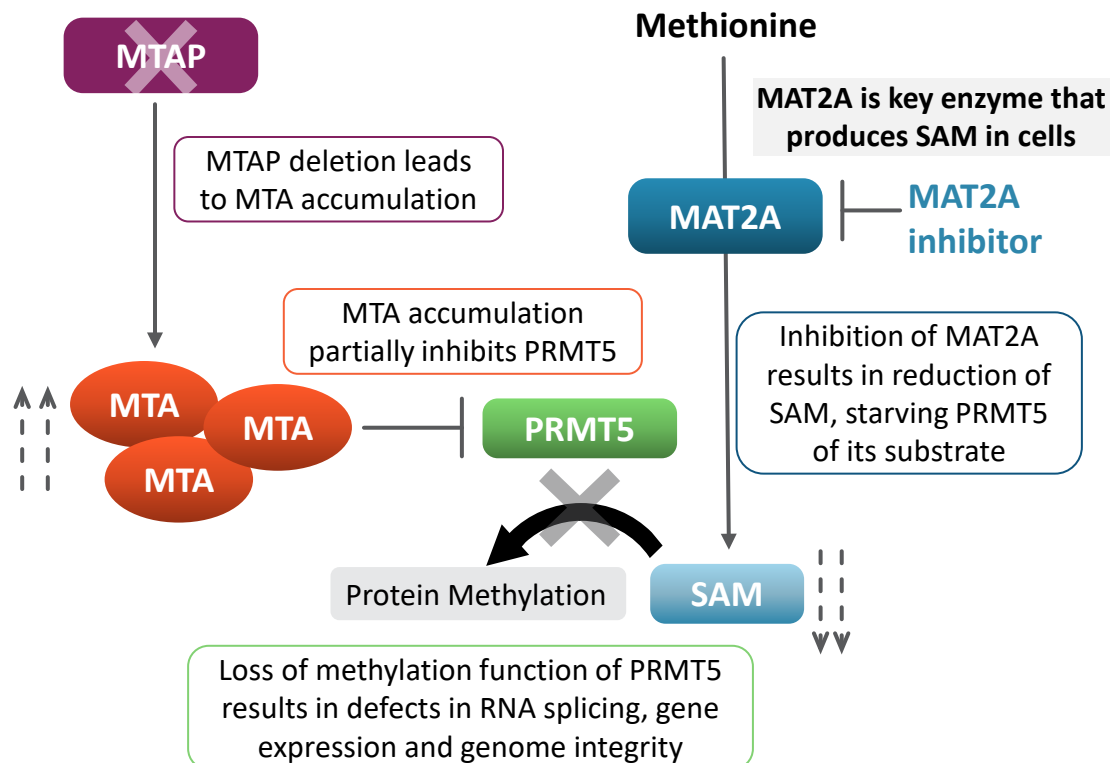
**IDEAYA data: HLA-A2-positive and HLA-A2-negative prevalence in MUM based on IDEAYA clinical trial data; US/EU MUM annual incidence and total prevalence based on market research analysis

⁺ Orphan Drugs benefit from certain tax credits and may be excluded from certain mandatory price negotiation provisions of the 2022 Inflation Reduction Act

MAT2A Inhibition is Synthetic Lethal with MTAP Deletion

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

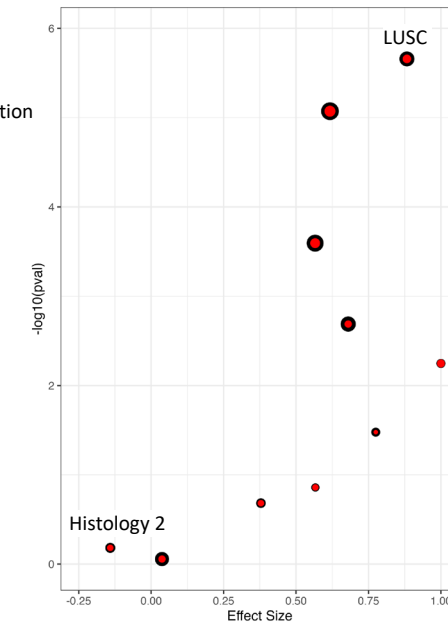
MTAP-MAT2A Synthetic Lethality Biology



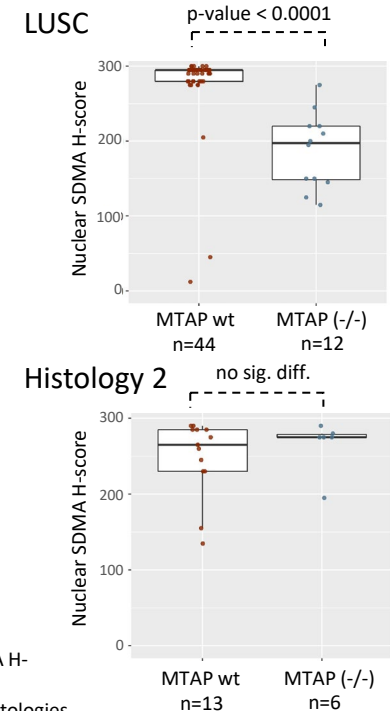
Endogenous Suppression in MTAP^{-/-} PDX Models

Methylation Pathway Suppression in MTAP^{-/-} Squamous Lung (LUSC)

SDMA Effect Size (PDX Tissue Microarray)



IDEAYA Data: AACR 2023 (M. Fischer et al.) – Volcano plot comparing nuclear SDMA H-Score by IHC in MTAP^{-/-} relative to MTAP wt across tissue microarray (TMA) of treatment-naïve PDX models; LUSC shows most significance effect across tumor histologies

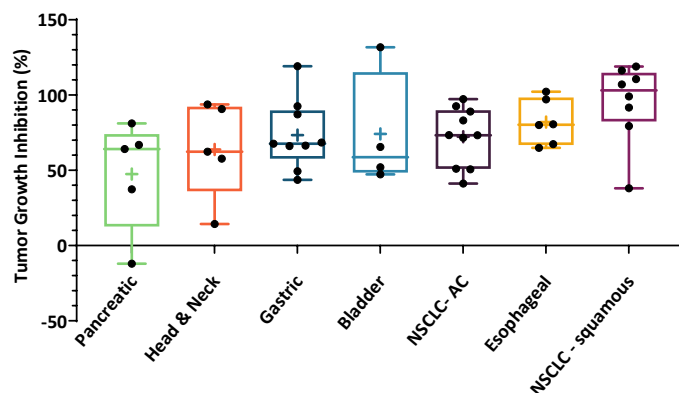


IDE397 Demonstrates Broad Efficacy across MTAP-deficient PDX Models

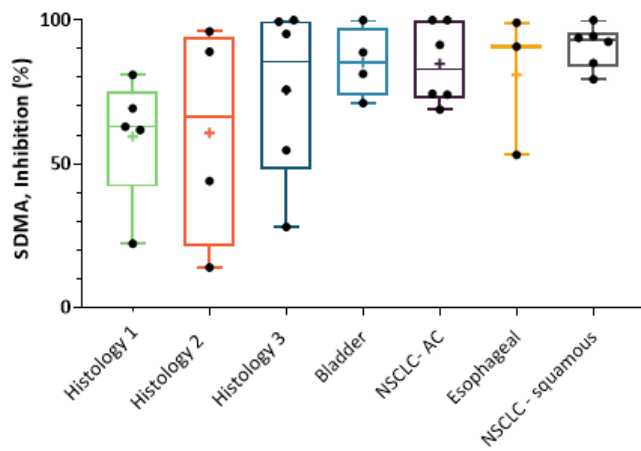
Deep Regressions observed in NSCLC-squamous (LUSC), Esophageal and Bladder Cancers

IDE397 Efficacy: 47 MTAP^{-/-} PDX Models

TGI with IDE397 (30mpk) in MTAP^{-/-} PDX Panel



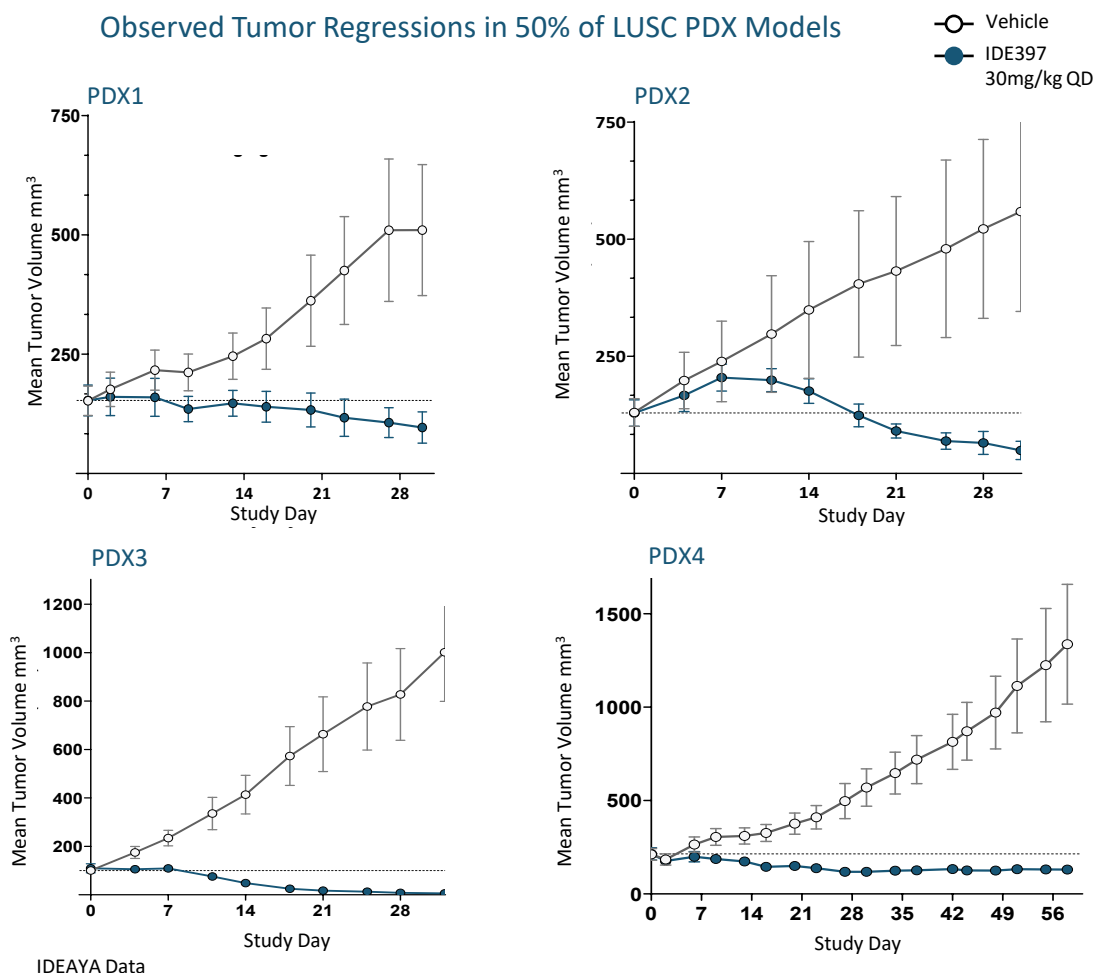
SDMA Suppression in Residual Tumors* at End of Study



IDEAYA Data; *2 of 8 LUSC unevaluable due to insufficient residual tumor burden

IDE397 In Vivo Efficacy in LUSC PDX Models

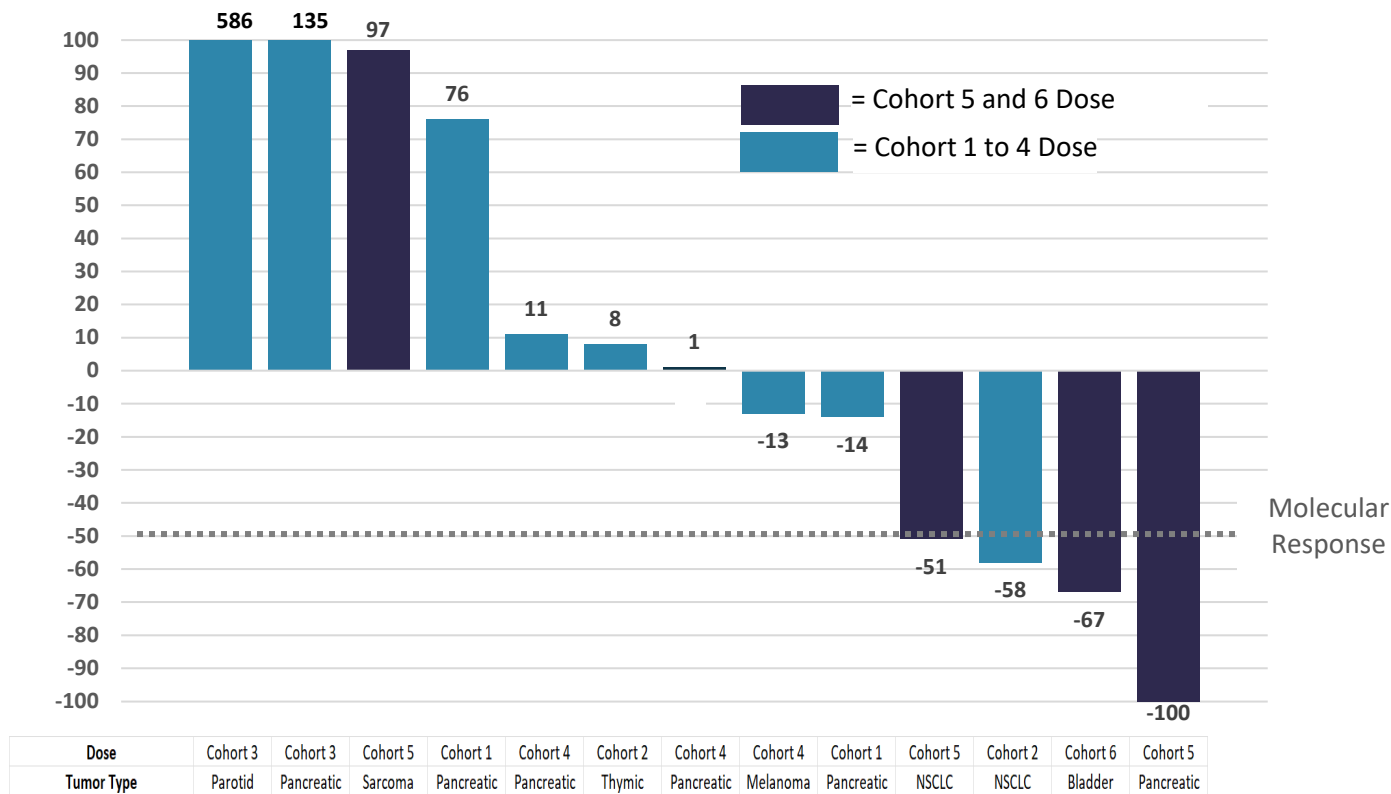
Observed Tumor Regressions in 50% of LUSC PDX Models



IDE397 Clinical Data Summary – Monotherapy Dose Escalation Cohorts

ctDNA Molecular Response demonstrates Tumor Pharmacodynamic Modulation

Molecular Response Waterfall (Baseline to C2D1)



ctDNA Molecular Response: IDE397 Dose-Dependent Tumor Pharmacodynamic Modulation

- 100% (2 of 2) Molecular Responders in NSCLC
- 75% (3 of 4) Molecular Responders in Cohort 5 and Cohort 6 Patients
- 31% (4 of 13) Molecular Responders across all dose-escalation Cohorts 1 to 6

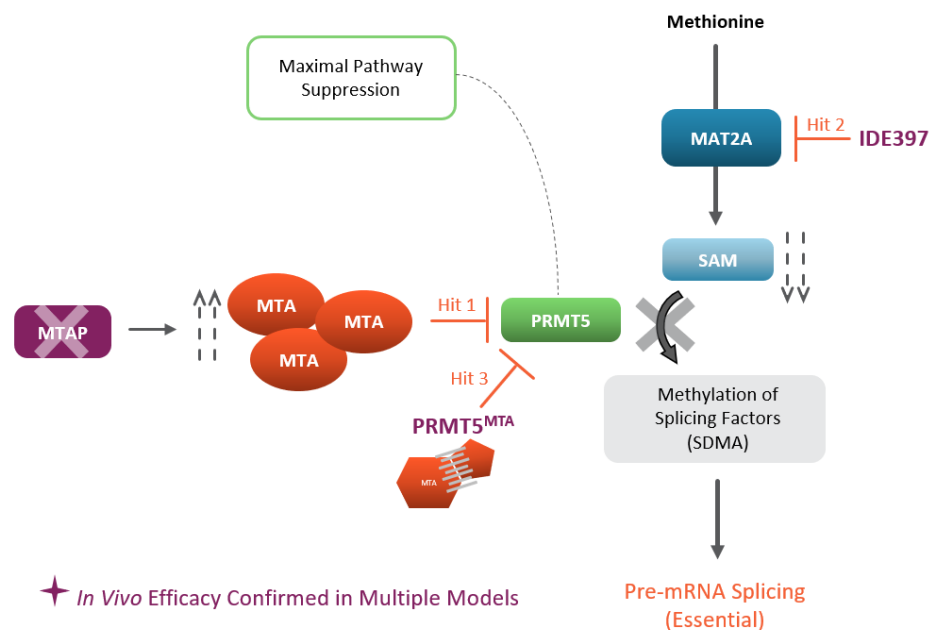
IDEAYA Data: Guardant OMNI™ ctDNA Molecular Response (n=13 evaluable IDE397 Phase 1 dose escalation samples)

MAT2Ai Combination Strategy

Clinical Combination focus on IDE397 + PRMT5^{MTA} based on Compelling Preclinical Efficacy



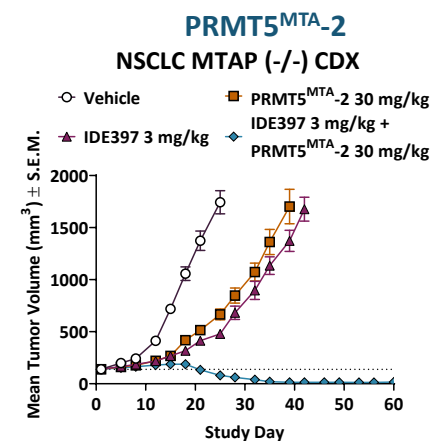
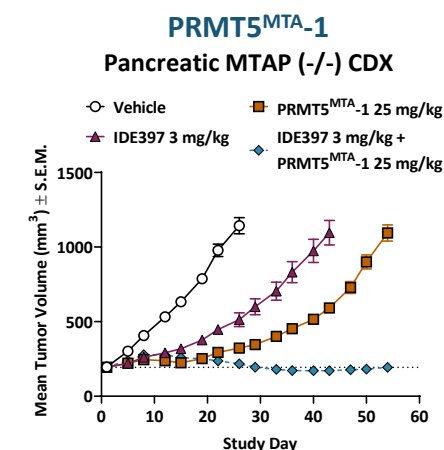
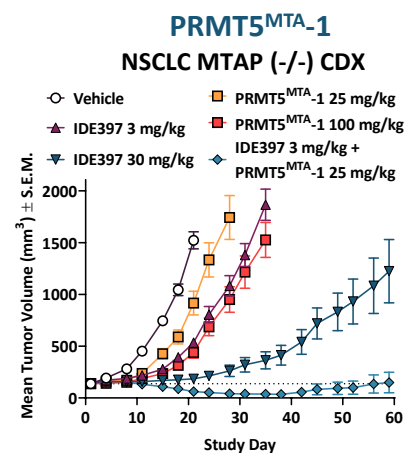
IDE397 + MTA-Cooperative PRMT5 Inhibitor
enables Maximal Pathway Suppression*



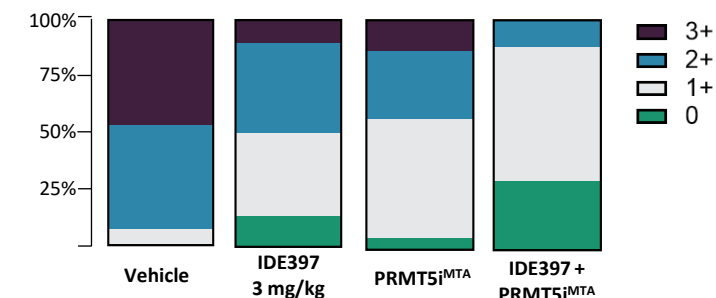
Enhanced Combination Efficacy Observed in multiple Tumor Indications and Across Representative PRMT5^{MTA} Inhibitors +

* Clinical evaluation pursuant to Amgen Clinical Trial Collaboration and Supply Agreement for clinical evaluation of IDE397 and AMG 193, an Amgen investigational MTA-cooperative PRMT5 inhibitor; Amgen will sponsor the study; IDEAYA and Amgen will jointly share external costs of the study

Deep and Durable Anti-Tumor and PD Response with Combination⁺



MTAP-deleted Tumor SDMA IHC Scores



SDMA IHC nuclear staining intensity distribution, pathologist scored, as percent of total tumor cells evaluated per sample; tumor samples from HCT116 MTAP (-/-) CDX models collected 2 hrs post-dose on Treatment Day 2

⁺ IDEAYA Data: AACR 2023, M. Fischer et al. based on evaluation of multiple representative MTA-cooperative PRMT5 inhibitors, designated as PRMT5^{MTA-1}, PRMT5^{MTA-2}

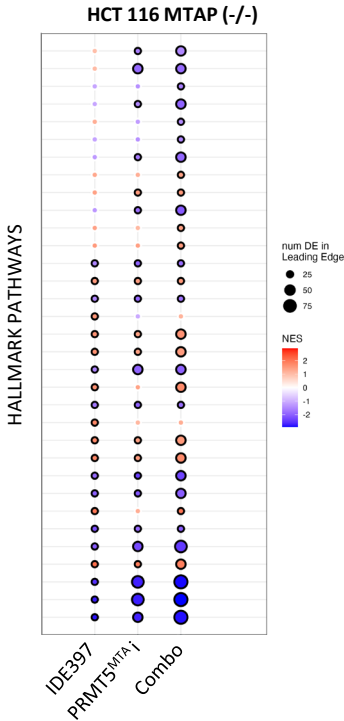


Combination Effect of MAT2A Inhibitor and PRMT5^{MTA} Inhibitor

Combined Inhibition Deepens Biological Response through Maximal Pathway Suppression

Gene Expression Analysis

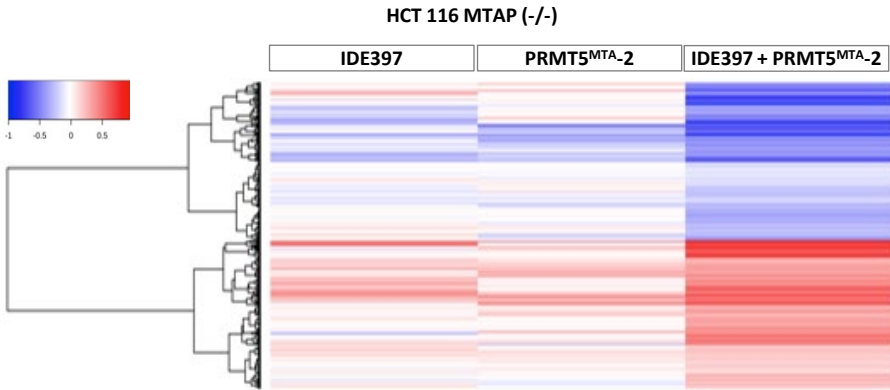
Combination Deepens Observed Monotherapy Activity



Analysis by RNAseq; Color = Normalized Enrichment Score (NES);
Shape = Number of Differentially Expressed (DE) Genes in Leading Edge;
Black Circular Border = Statistically Significant (P.adj < 0.05)

Alternative Splicing Analysis

Combination Increases Alternative Splicing Events



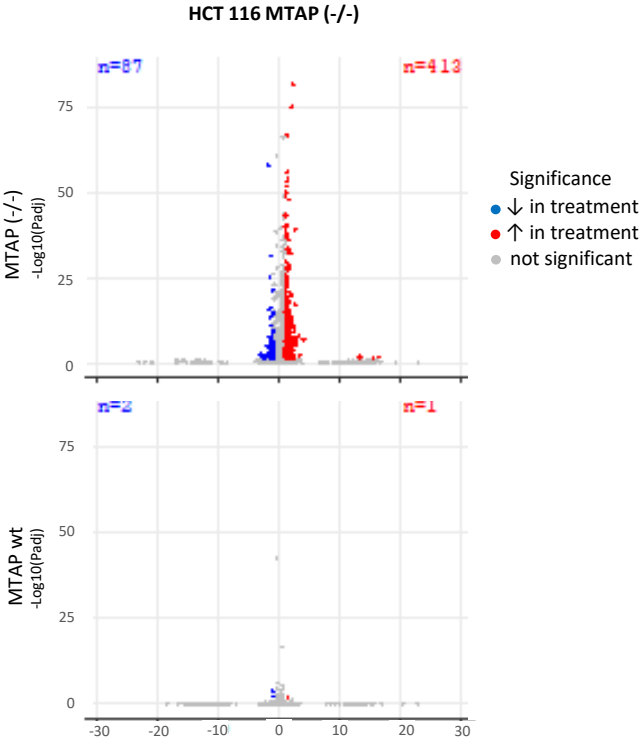
Quantitative Assessment of IDE397 / PMRT5i
Effect on pre-mRNA Splicing

↓
>2800 significant Splicing Events only in the
Combination Treatment Arm+

+ Identified as novel splice junctions or as not meeting significance criteria in monotherapy arms
Color = heatmap of Z-scored TMM-normalized counts per million

Retained Intron Analysis

Combination shows Selective Response
by Retained Introns Analysis[^]



[^] Retained Introns by DEXseq for Combination Treatment Arm

MAT2Ai Combination Strategy

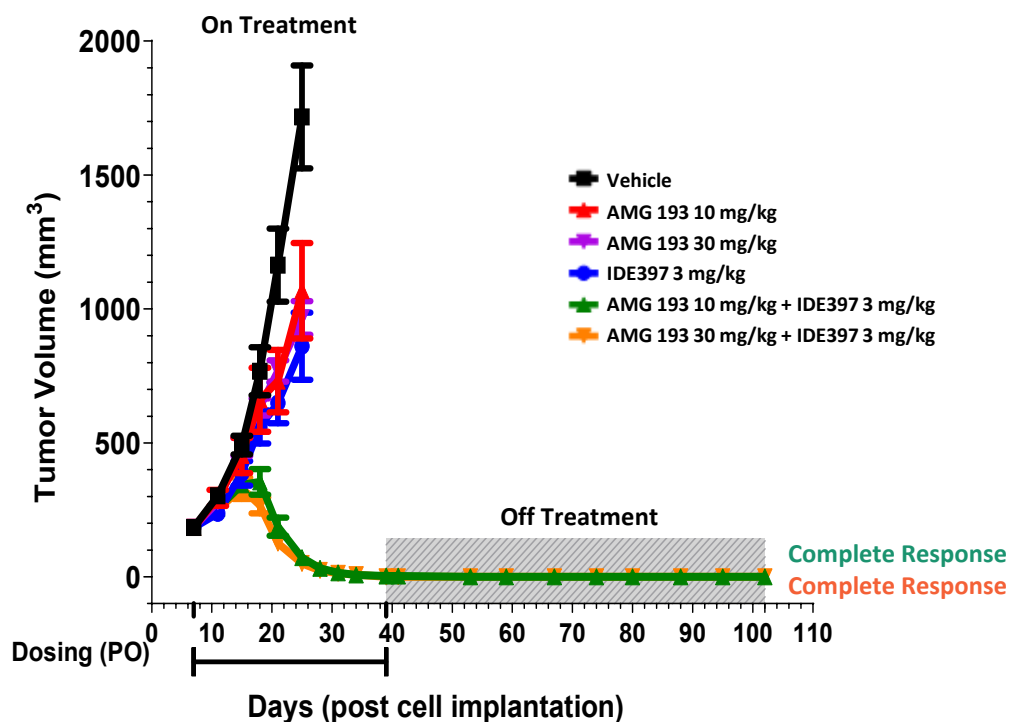
IDE397 (MAT2A) + AMG 193 (PRMT5^{MTA}) Preclinical Efficacy

IDE397 (MAT2Ai) + AMG 193 (PRMT5^{MTA}i)



Observed Durable Complete Responses

NSCLC MTAP^{-/-} CDX Model



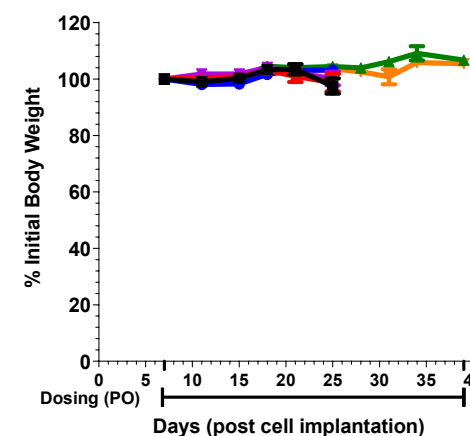
Observed Complete Responses (CR) @ Study Day ~40+ durable through Study Day ~100

Doses were below maximally efficacious preclinical dose for each of IDE397 and AMG 193, with IDE397 dosed at 3 mg/kg QD (1/10th of typical preclinical dose) → Therapeutic Window

Well tolerated *in vivo* with No Observed Body Weight Loss

Observed selective sensitivity in MTAP-null tumors (no observed TGI in MTAP-wt tumors)

No Body Weight Loss



IDEAYA / Amgen Data: AACR 2023, M. Fischer et al.

* Pursuant to Amgen Clinical Trial Collaboration and Supply Agreement for clinical evaluation of IDE397 and AMG 193, an Amgen investigational MTA-cooperative PRMT5 inhibitor; Amgen will sponsor the study; IDEAYA and Amgen will jointly share external costs of the study

IDE397 Phase 1/2 Clinical Development Plan

Clinical Strategy Focus on Select Monotherapy and High Conviction Combination

IDE397 Development Candidate – Clinical Profile

- Exposure-Dependent Pharmacokinetic (PK) Profile with low $C_{max}:C_{min}$
- Robust, Exposure-Dependent Pharmacodynamic (PD) Response
- Monotherapy Expansion showing Clinical Efficacy - with Responses in Multiple High-Priority Tumor Types early in Dose Expansion, including a confirmed PR

IDE397 is uniquely positioned to evaluate efficacy in MTAP pathway, with a favorable PK/PD profile and observed therapeutic window

◆ Mono Expansion in Select MTAP-null Tumor Histologies

IDE397 RDE Mono Expansion Basket: NSCLC, Esophageal, Gastric, Bladder

Focus or Additional Indication Expansion

◆ Combination Cohorts – Clinical Proof of Concept in MTAP-null Tumors

AMGEN IDE397 + AMG 193 MTA-Cooperative PRMT5i^{#^}: Solid Tumors

Other Potential Indications or Combinations

Addressable Patient Population of ~50,000 estimated in US, EU5 and JP across priority tumors – NSCLC, bladder, gastric, and esophageal cancers

AMG193 = Amgen's investigational MTA-cooperative PRMT5 inhibitor

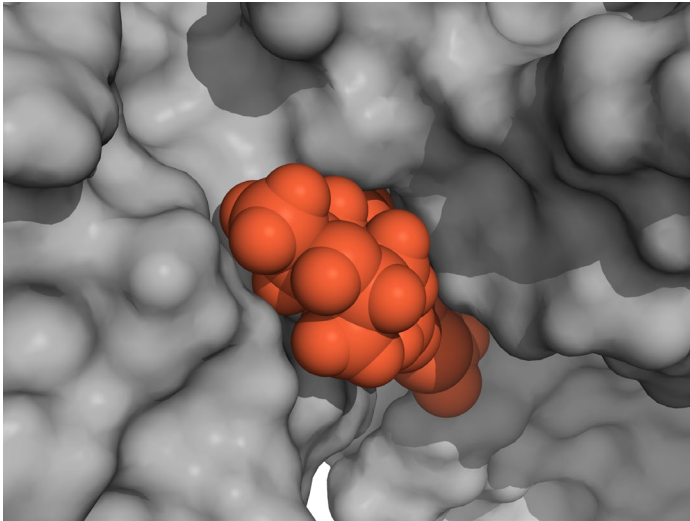
^ Amgen reported that initial data for AMG 193 monotherapy expansion demonstrated responses in multiple tumor types (See Amgen earnings release and corporate presentation dated August 3, 2023)

IDEAYA's Potential First-in-Class Synthetic Lethality DDR Pipeline

Synthetic Lethality with Tumor-Promoting defects in DNA Repair Mechanisms

IDE161

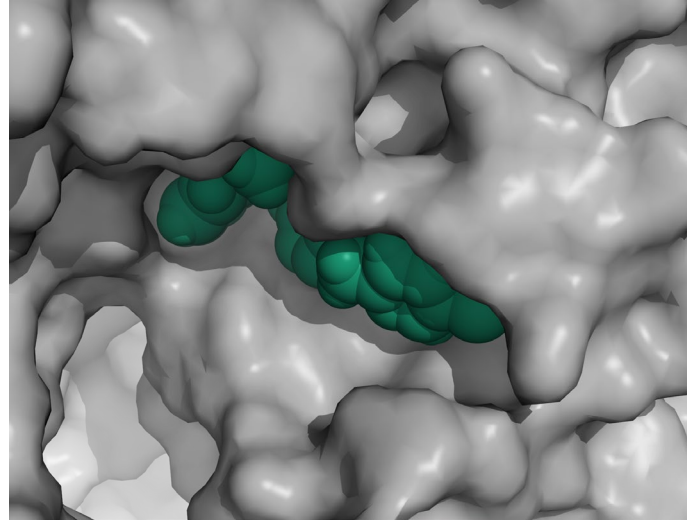
PARG Inhibitor
Clinical Candidate



Phase 1 First-in-Human
Monotherapy in HRD Breast, Ovarian
Potential to develop beyond HRD

GSK101 ϕ

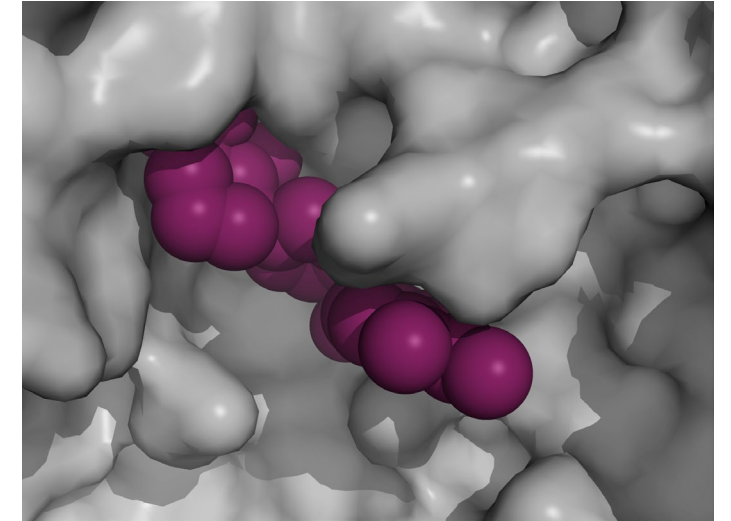
Pol Theta Helicase Inhibitor
Development Candidate



Phase 1 First-in-Human Q4 2023
Niraparib Combination in Tumors
with HR Mutations and HRD

Werner ϕ

Helicase Inhibitor
Preclinical Lead-Optimization



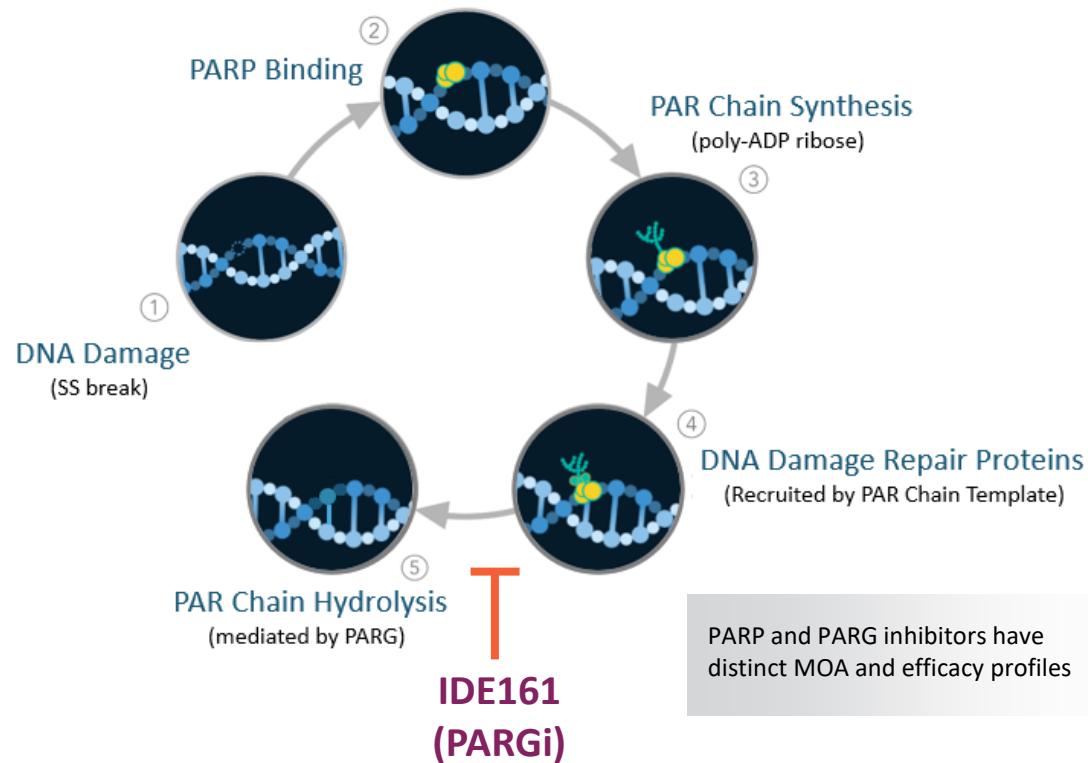
Targeting DC H2 2023
MSI-High Tumor Agnostic

ϕ Pursuant to GSK Collaboration, Option and License Agreement

PARG Inhibition is Synthetic Lethal with HRD

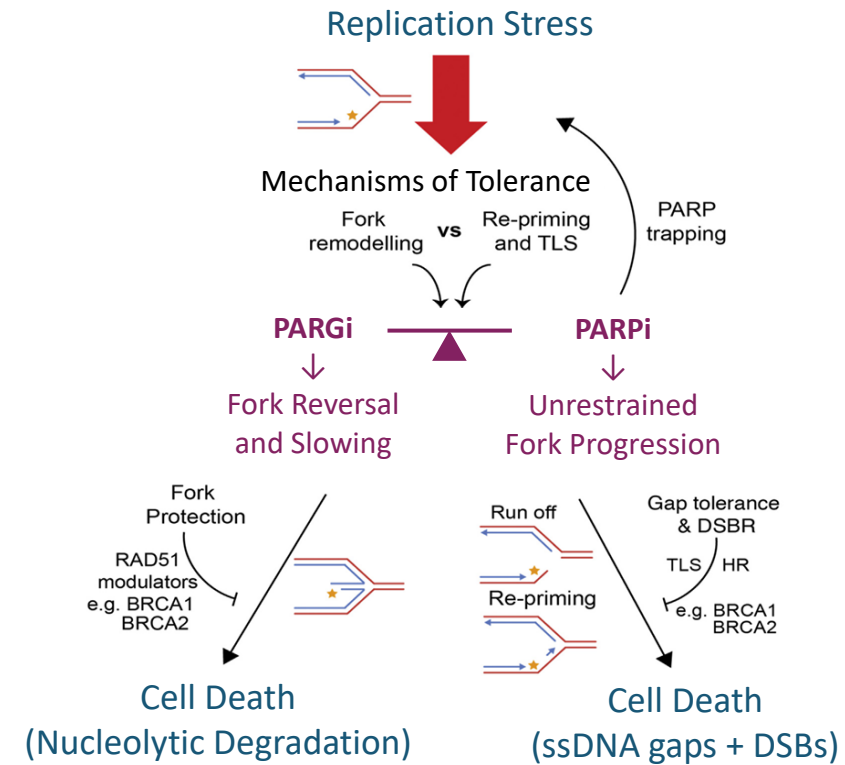
Novel, Mechanistically-Differentiated Target in a Clinically Validated Pathway

PARG Activity is required to resolve DNA Repair



Cancer Research (Aug 2019), Cancer Research (Jul 2019), Cancer Cell (Mar 2019)

PARG Inhibition is Mechanistically Distinct from PARPi

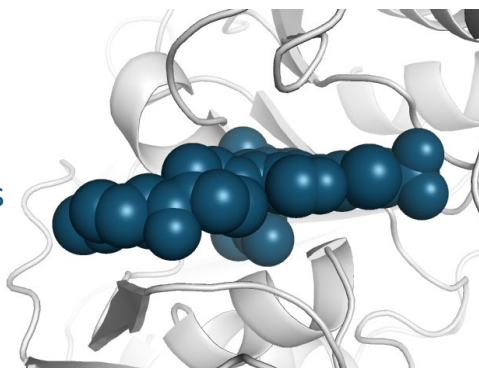


Pillay et al., Progress in Biophysics and Molecular Biology 2021; McDermott et al., Cancer Cell 2019; Zeman and Cimprich, Nature Cell Biology 2014

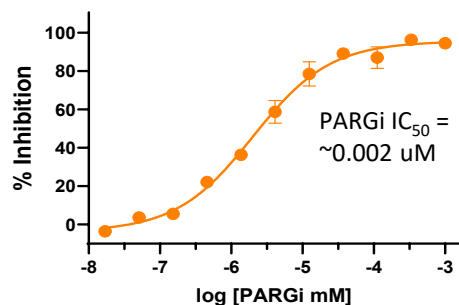
IDE161: Potential First-in-Class Phase 1 PARG Inhibitor

IDE161 Profile: Potent, Selective with Favorable Properties

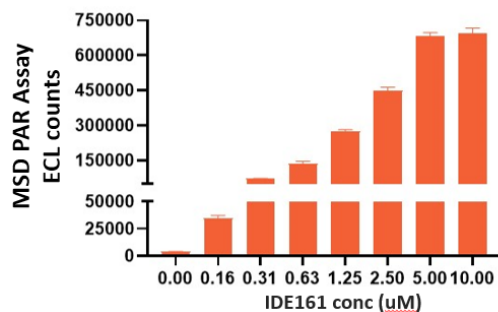
- IDE161 is a potent, selective small molecule PARGi for tumors with HRD
- Demonstrated cellular activity and efficacy in biomarker defined settings
- Positive physical property profile
- Favorable preclinical tolerability



Biochemical IC₅₀

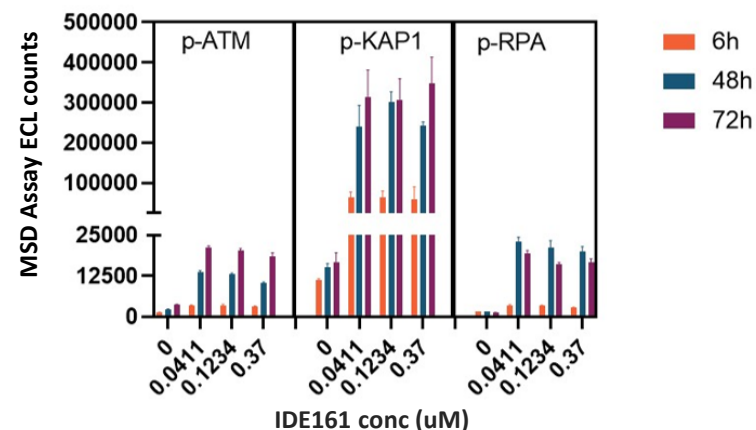


IDE161-induced Cellular PAR Accumulation

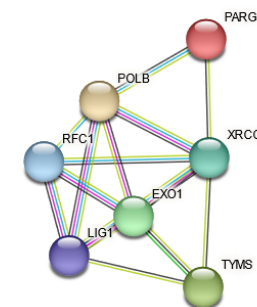
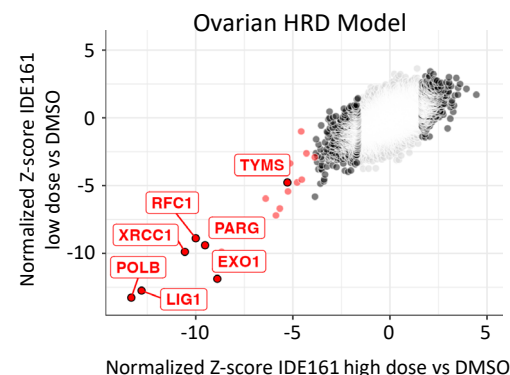


IDE161 induces Selective DDR → Synthetic Lethal in HRD

IDE161-induced DNA Damage Response



IDE161 is Synthetic Lethal with BER Gene Disruption

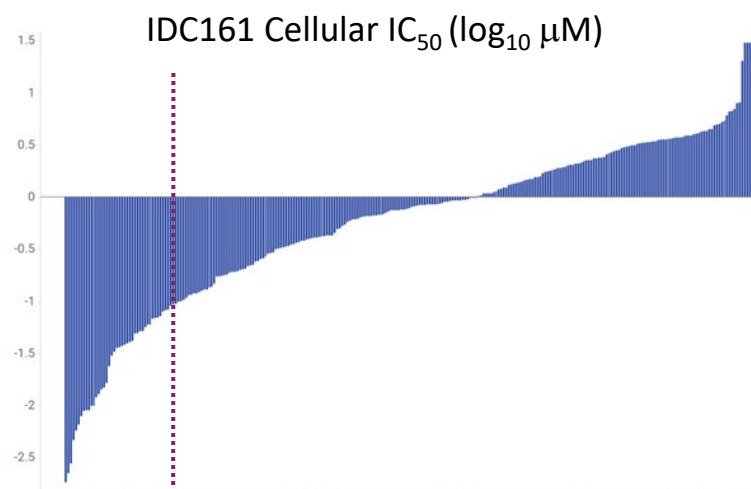


Gene Network generated from whole genome CRISPR screens anchored with IDE161 using significant synthetic lethality hits across 4 models

IDE161 shows Selective Sensitivity in HRD and Differentiation from PARPi

IDE161 Sensitivity Profile in Cell Panel

Cellular response profiles reveal mechanistic associations with PARGi sensitivity

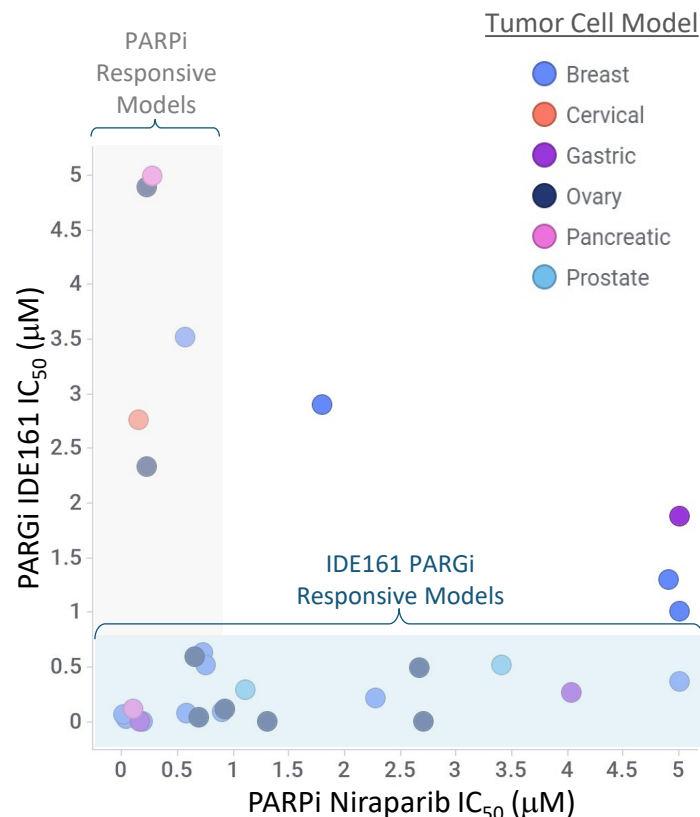


Top predictive response biomarkers* include HRD, replication stress, nucleotide excision repair and parylation cycle

* Based on univariate and multivariate pan-cancer and lineage-specific molecular feature analysis

IDE161 Selective Sensitivity vs PARPi

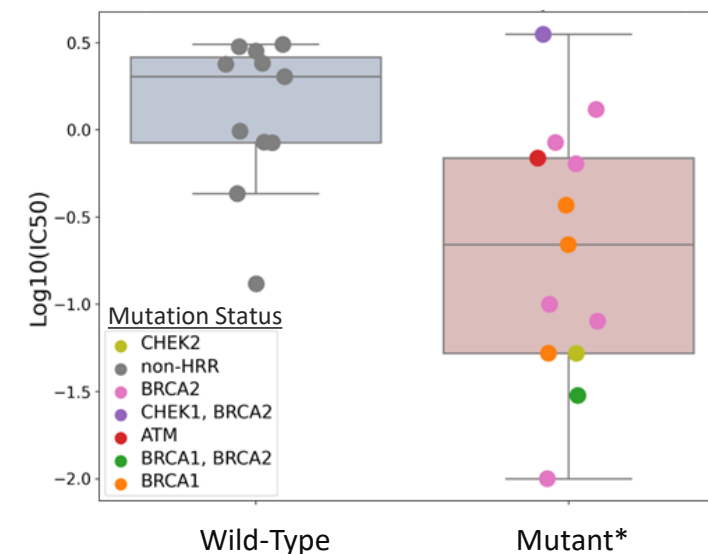
HRD cell lines are selectively sensitive to IDE161 versus PARPi



IDE161 Sensitivity in HRD Breast Cancer

Response to IDE161 is strongly associated with HRD status in Breast Cancer Cell Lines

Cellular antiproliferative response to IDE161 stratified by HRR status
(Breast Cancer: n=24, Wilcoxon pval=0.008)



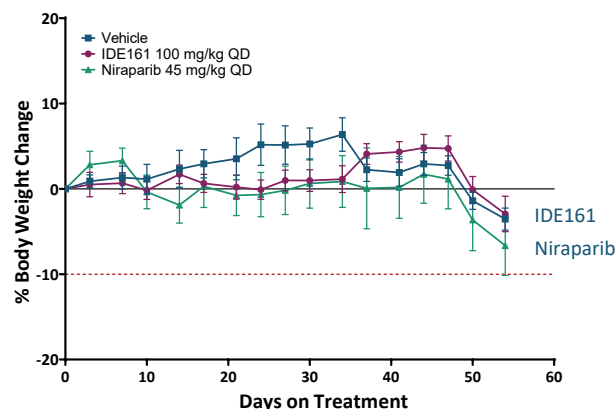
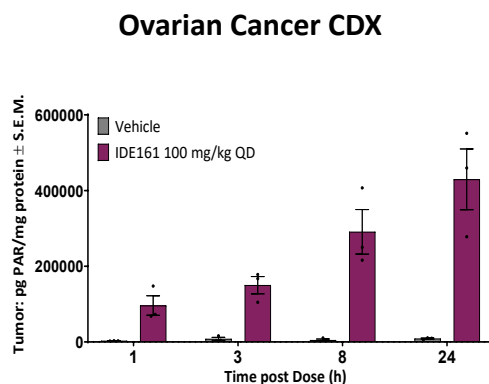
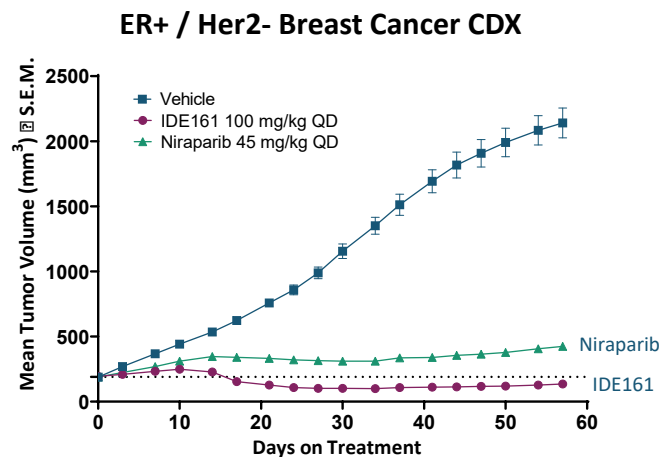
*HRR mutation status assigned according Foundation Medicine HRR gene panel: ATM, BRCA1, BRCA2, BARD1, BRIP1, CDK12, CHEK1, CHEK2, FANCL, PALB2, RAD51B, RAD51C, RAD51D, RAD54L

IDE161 is Active and Well-Tolerated in HRD ER+ Her2- Breast Cancer Models

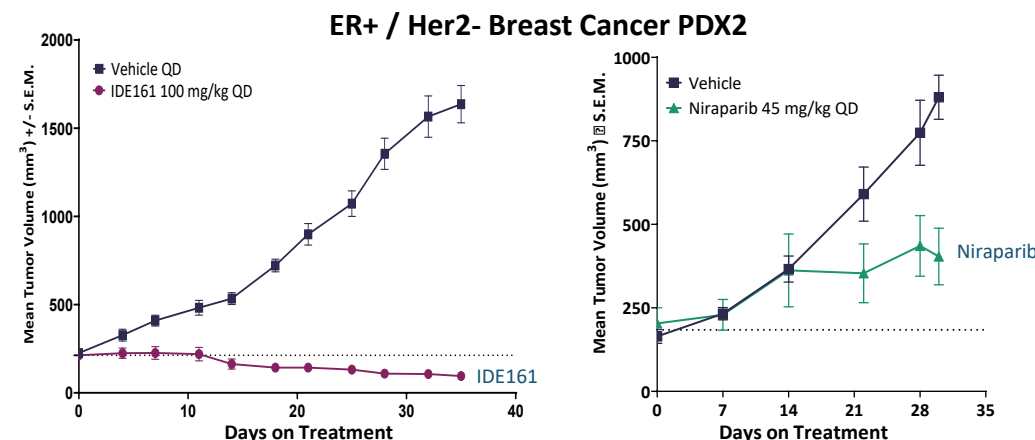
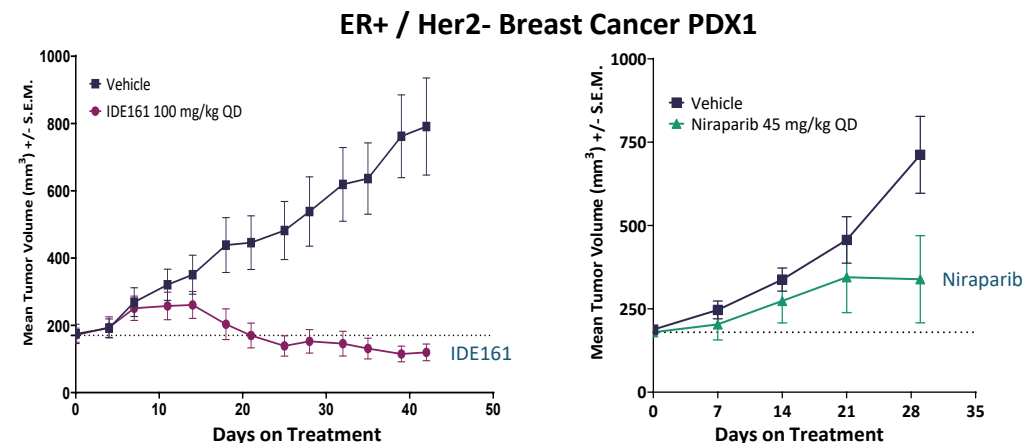
Observed PARG inhibitor Activity is Distinct from PARP Inhibition

Durable Disease Control in BRCA-altered Breast Cancer CDX

- Durable regressions (vs stasis with niraparib)
- Robust dose- and time-dependent PAR accumulation
- Well tolerated; no body weight loss >10%



Regression in BRCA-altered Breast Cancer PDX Models



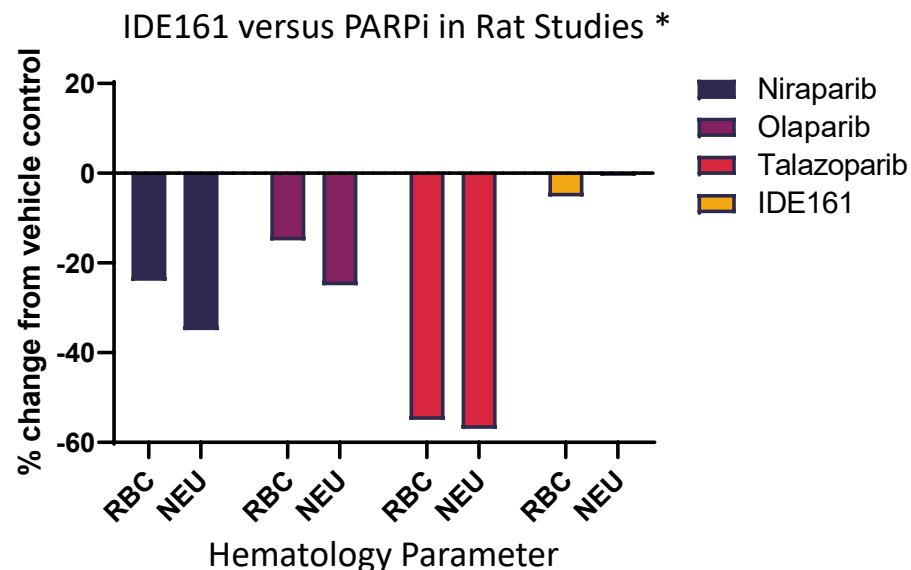
IDE161 Demonstrates Favorable Safety Profile in Preclinical Studies

Non-Clinical Pharmacology and Toxicology Studies Support Clinical Evaluation

IDE161 Differentiates versus PARPi in Nonclinical Safety Studies

PARP inhibition causes myelosuppression in rat and dog at clinically relevant systemic exposures

In contrast, IDE161 does not alter hematology parameters in rodents at relevant exposures associated with the estimated therapeutic dose



* PARPi data extracted from repeat dose toxicology data presented in NDA reviews ([Drugs@FDA.gov](https://www.accessdata.fda.gov/drugsatfda_druginfos/)) and prescribing labels. Species chosen for data illustration (rat) was based on availability of data at a dose level that most closely approximated systemic exposure (AUC) associated with the clinically recommended dose.

IDE161 Drug Product



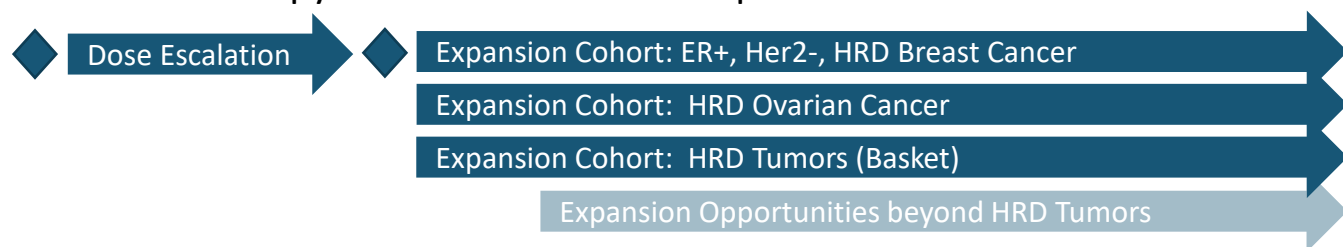
- IDE161 well tolerated preclinically with tumor regressions observed at doses below mouse MTD
- Human efficacious dose projection based on maximum efficacious dose in mouse (100 mg/kg/day) which covers cellular IC₉₀ for ≥ 22 hours
- Data from GLP toxicology studies support a proposed safe starting dose of 0.5X the estimated therapeutic dose
- IDE161 API synthetic process and drug product tablet formulation developed

IDE161 Clinical Development Strategy

First-in-Class Opportunity for Patients with Breast, Ovarian & Other Solid Tumors with HRD

IDE161 Phase 1/2 – Mono Clinical Development Plan and Combination Options

IDE161 Monotherapy Dose Escalation and Expansion in HRD Tumors



IDE161 Combinations – Preclinical Safety Profile Supports Multiple Opportunities



Activity in PARPi- and
Platinum-Resistant Settings

Differentiated Sensitivity
relative to PARPi's

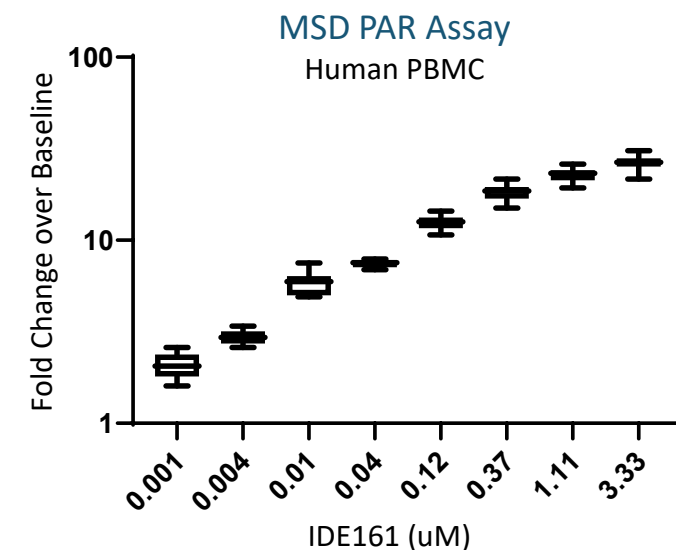
Improved Safety Profile
relative to PARPi's

Clinical Strategic Pillars

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

Ovarian Cancer Patients with HRD Tumors
→ ~50% of Ovarian Cancer

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



Polymerase Theta (Pol Theta) Synthetic Lethality Program

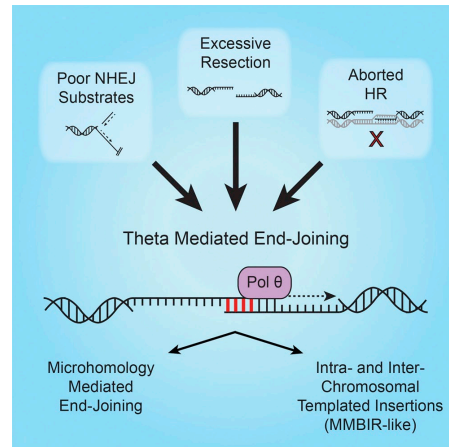
Potential First-in-Class Helicase Inhibitor is Synthetic Lethal to HR and NHEJ Perturbation

Role of Pol Theta in Tumor Biology

Pol Theta is an error-prone multi-domain protein with helicase / polymerase activities



Pol Theta DNA break end-joining is critical when canonical repair pathways fail

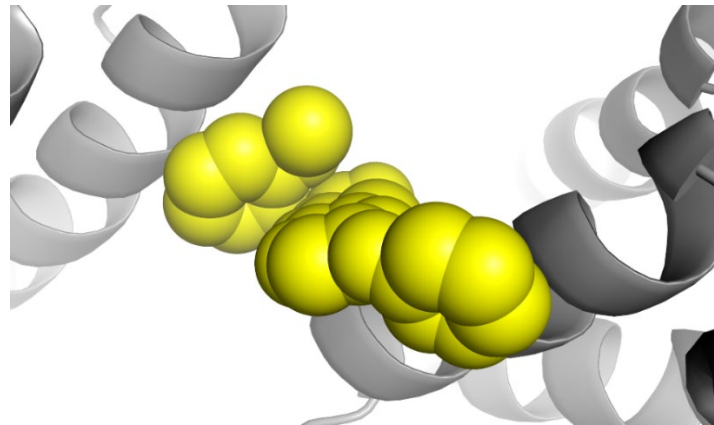


D. Wyatt et al. *Mol Cell* (2016)

Pol Theta Inhibitor Drug Discovery

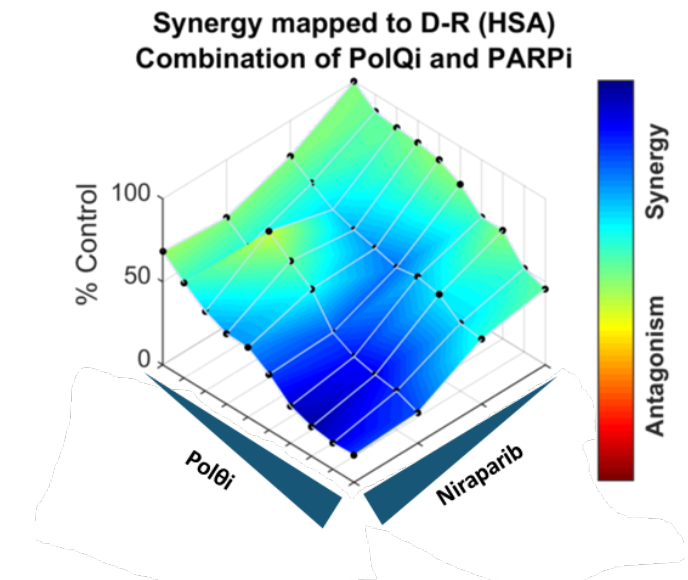
Discovered Pol Theta inhibitors with $IC_{50} < 10$ nM in biochemical assays against Pol θ

Drug-like properties of Pol θ inhibitors support oral dosing in humans



Pol Theta Inhibitor Synergy in HRD

Pol Theta inhibition is synthetic lethal with PARP inhibition in HR-deficient cancer cells



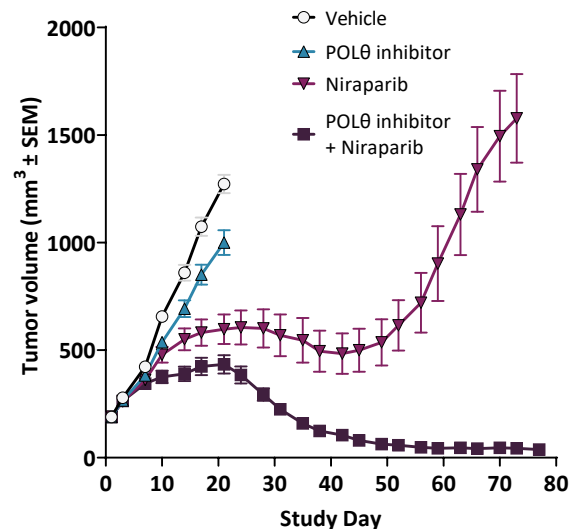
IDEAYA / GSK Data

GSK101 (IDE705): Potential First-in-Class Pol Theta Helicase Inhibitor

Phase 1: Targeting First-in-Human in Q4 2023 in Combination with Niraparib (PARPi)

Pol Theta Helicase *In Vivo* Activity

GSK101 + PARPi

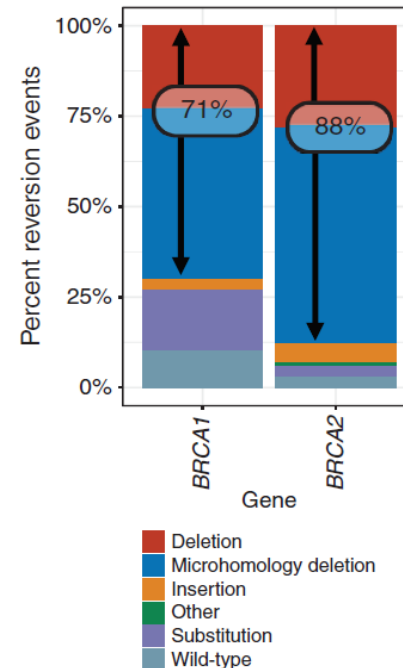


Observed Deep and Durable Responses in Multiple Xenograft Models

IDEAYA / GSK Data

BRCA 1/2 Clinical Reversions

BRCA Reversions Mediated by MMEJ



Cancer Res. 2020, DOI: 10.1158/2159-8290

Clinical Development Strategy

Pol Theta Helicase Inhibitor



PARP Inhibitor

Pol Theta Helicase Inhibitors Disrupt MMEJ Alternative DNA Damage Repair:

- Inhibit DSB Repair by MMEJ
- Dysregulate Replication Fork Stabilization

Potentiate PARPi Efficacy

Prevent PARPi Resistance

Overcome PARPi Resistance

Potential Clinical Opportunities

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

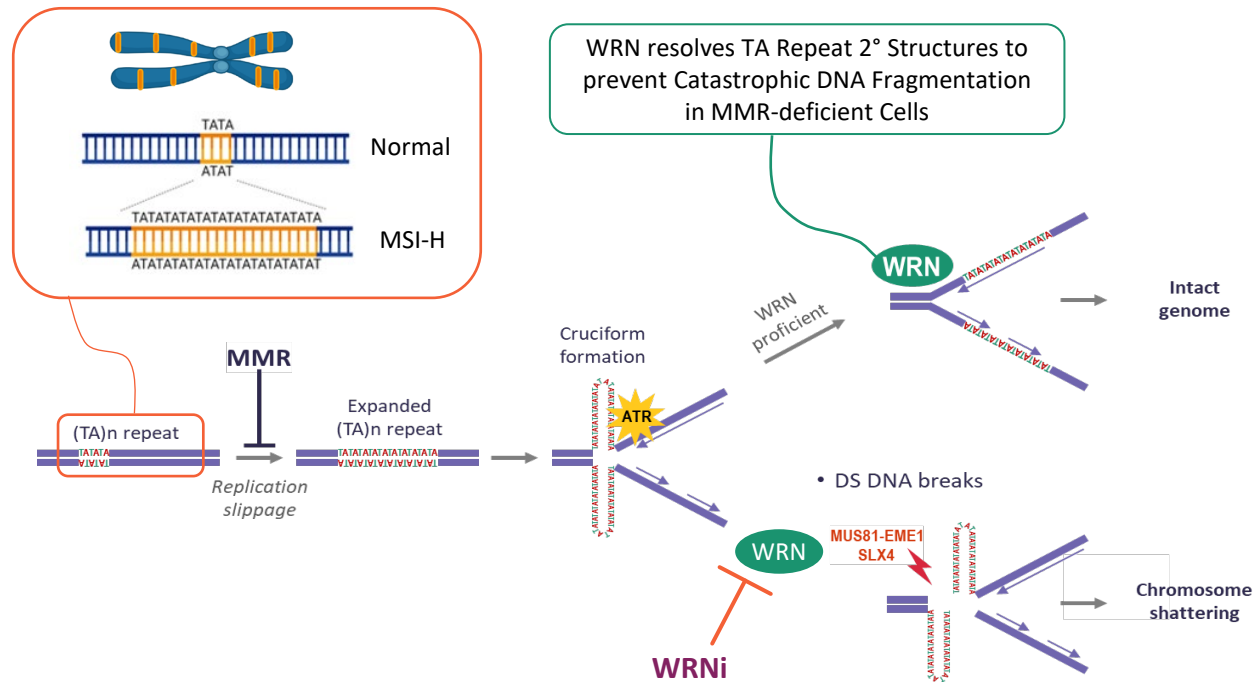
Werner Helicase is Synthetic Lethal with Microsatellite Instability

Targeting Development Candidate in H2 2023

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



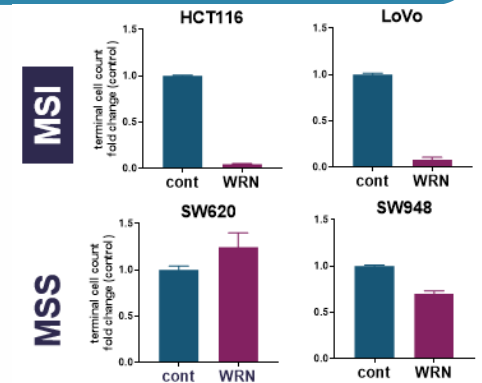
Werner Helicase Synthetic Lethal with High-MSI

CellPress

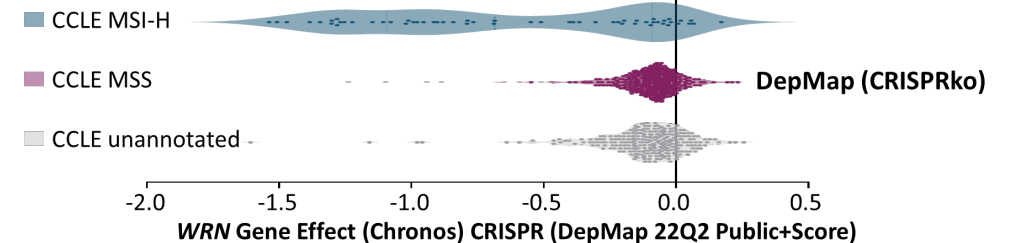
Werner Syndrome Helicase is Required for the Survival of Cancer Cells with Microsatellite Instability

IDEAYA Publication

Cell Press, iScience, March 2019, Hager et al



Analysis of pan-cancer screen datasets reveals WRN essentiality in MSI-H cancer cell lines



IDEAYA / GSK Data: AACR 2023, M. Fischer et. al.

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

Werner Helicase is Synthetic Lethal with Microsatellite Instability

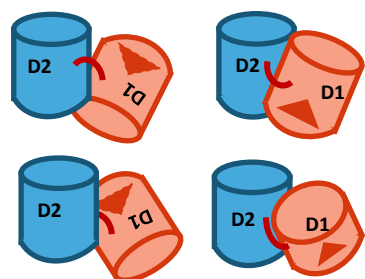
Targeting Development Candidate in H2 2023

Discovery of Potent and Selective WRN Inhibitors

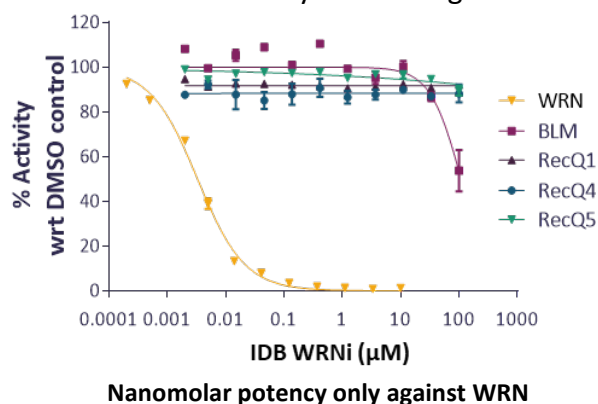
Werner Helicase Inhibitor Drug Discovery

Solved >85 X-ray Co-Crystal Structures

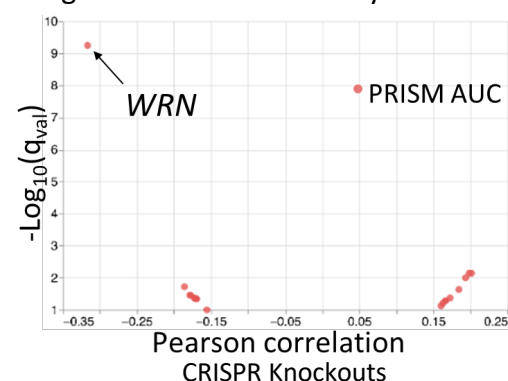
Achieved >10,000,000-fold Affinity Increase



Biochemical activity across Target Class*

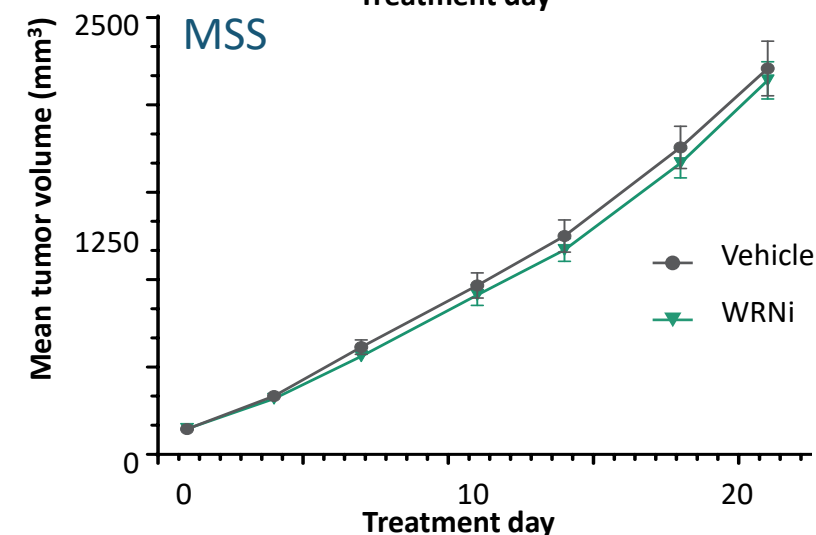
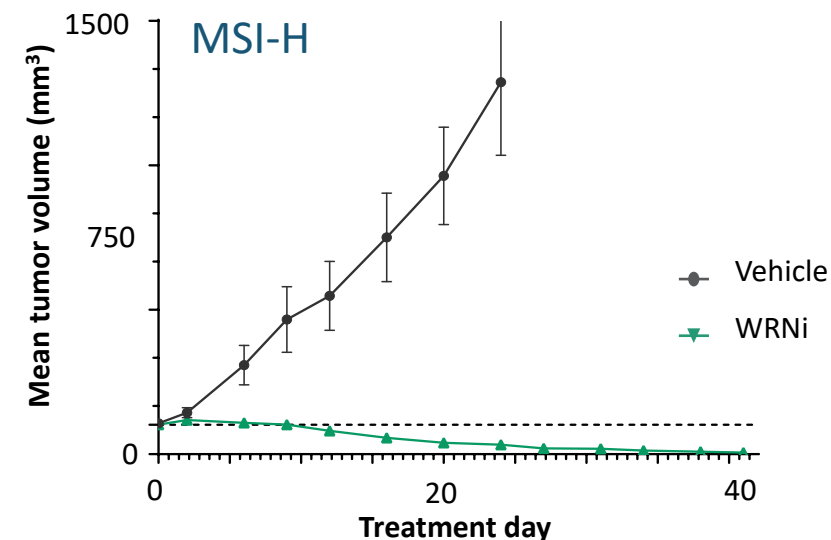


Pangenomic Cellular Activity Correlation^



Sensitivity to WRNi correlates most strongly with WRN gene dependency across the CCLE

In Vivo Efficacy and Selectivity*

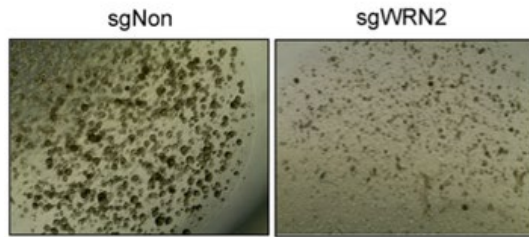


Werner Inhibitor *In-Vivo* Efficacy in MSI-High Models

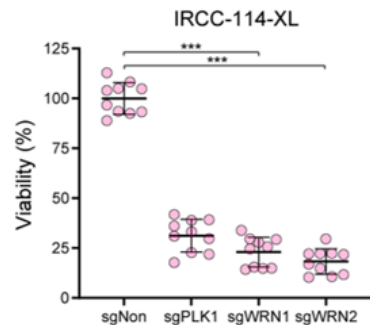
WRNi Shows Pharmacological Activity in Therapy-Refractory CRC MSI-High Models

Werner Helicase Activity in Therapy-Refractory CRC Organoid Models

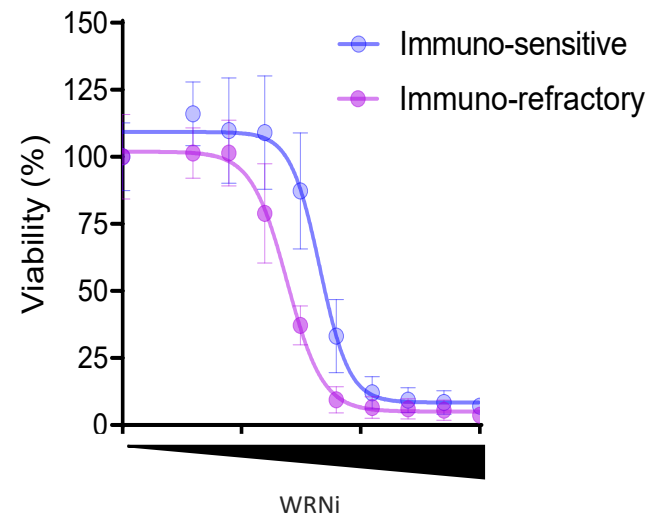
Immuno-Refractory
(Genetic Sensitivity)



Chemo-Refractory
(Genetic Sensitivity)



Immuno-Refractory
(Pharmacological Sensitivity)



Pharmacological activity in therapy-refractory models supports clinical thesis

Strategic Collaboration with GSK

US: 50%/50% Profit Share

Ex-US: Royalties tiered from high single-digit to sub-teen double digit percentages

Milestones: ~\$1B, incl up to \$20M for Preclinical through early Ph1 Clinical

Cost Share: 20% IDEAYA / 80% GSK

Strategic Rationale: Potential Combination with GSK's Dostarlimab, a PD-1 IO Agent

→ Targeting Werner Helicase
Development Candidate in H2 2023

Building a Fully-Integrated Biotech in Precision Medicine Oncology

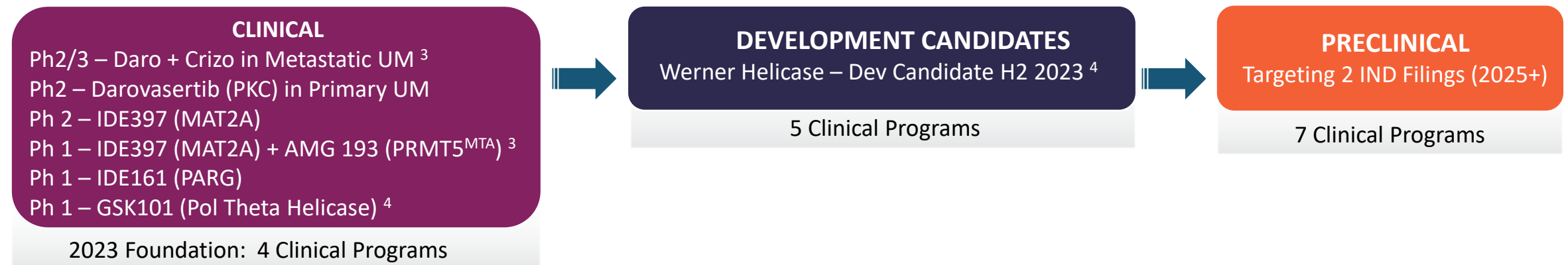
Foundational First-in-Class Pipeline Enables a Leading Precision Medicine Oncology Franchise

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

Emerging Pipeline of Potential First-in-Class Precision Medicine Oncology Programs with large addressable solid tumor patient populations, including Daro (Ph 2 Primary UM), IDE397 (Ph 2), IDE161 (Ph 1), GSK101 (Ph1) and Werner Helicase (Development Candidate H2 2023)

Strong Balance Sheet with ~\$510 M anticipated to fund operations into 2027^{1, 2} and opportunity for milestones

Validating Pharma Partnerships and Collaborations include clinical collaborations for combination therapies with Pfizer and Amgen and strategic collaboration with GSK with ~\$1 billion milestones / program



(1) Includes aggregate of \$510.1 M cash, cash equivalents and marketable securities as of June 30, 2023

(2) IDEAYA Form 10-Q dated August 10, 2023 as filed with the U.S. Securities and Exchange Commission

(3) Clinical Trial Collaboration and Supply Agreements, independently with Pfizer (Darovasertib + Crizotinib) and Amgen (IDE397 + AMG193); IDEAYA retains all commercial rights

(4) 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