

J.P. Morgan 40th Annual Healthcare Conference January 2022 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 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. These and other important factors may cause actual results, performance or achievements to differ materially from those expressed or implied by these forwardlooking 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 Quarterly Report on Form 10Q for the guarter ended September 30, 2021, 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 Synthetic Lethality (SL) focused biotechnology company advancing transformative precision medicine therapies for cancer patients

- Broad Pipeline for Key Emerging Targets
 including clinical stage IDE397 (MAT2A) and
 darovasertib (PKC), and development
 candidate selection for PARG and Pol Theta
- Pharma Collaborations with GSK (over ~\$3 billion in potential milestones) and Pfizer
- Strong Balance Sheet with ~\$386 M in cash anticipated to fund operations into 2025 1, 2
- NASDAQ: IDYA

- Target Catalysts
 - IDE397 Phase 1 (H1 2022)
 - Cohort Expansions
 - GSK Option Package & Clinical Data Update
 - PARG IND-Filing (Q4 2022)
 - Pol Theta Initiate IND-enabling Studies (H1 2022)
 - Darovasertib (IDE196) Phase 1/2 (H1 2022)
 - Clinical Update on mPFS for Daro + Crizotinib
 - Regulatory Guidance for Daro + Crizotinib



⁽¹⁾ IDEAYA Form 10Q and Q3 2021 Financials filed with the U.S. Securities and Exchange Commission on November 15, 2021

⁽²⁾ Includes cash, cash equivalents and marketable securities as of September 30, 2021

Synthetic Lethality

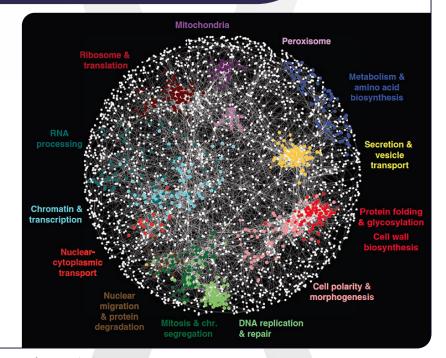
The Next Frontier in Precision Medicine Oncology

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



- Synthetic lethality occurs when the simultaneous perturbation of two genes results in cell death
- Synthetic lethality provides a novel approach to target several historically undruggable loss of function mutations
- Large-scale screening for 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



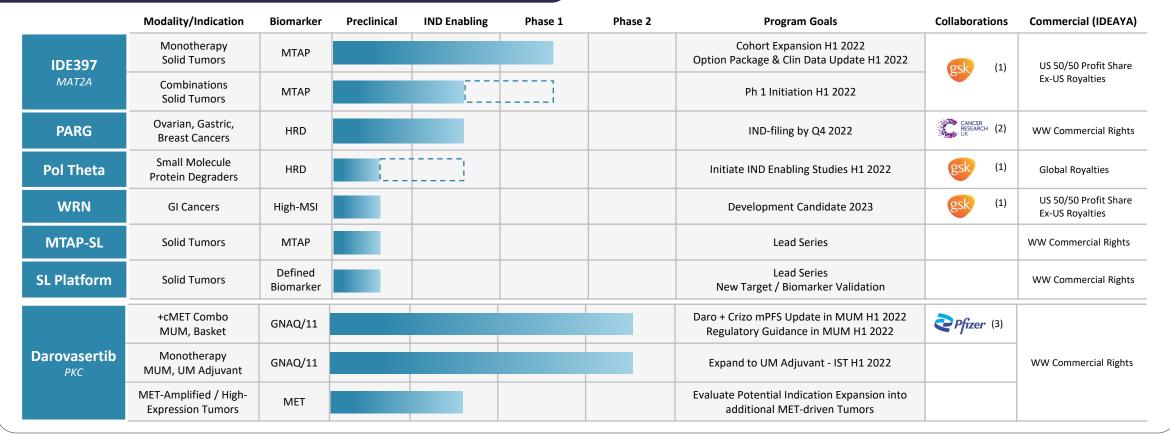
Reference: Charles Boone



IDEAYA's Precision Medicine Oncology Pipeline

Building the Industry Leading Synthetic Lethality Focused Biotechnology Company

Precision Medicine Pipeline



⁽¹⁾ Pursuant to GSK Collaboration, Option and License Agreement: MAT2A and WRN: 50/50 US Profits + ex-US Royalties; Polθ: Global Royalties

^{= 2022} Target Program Milestone



²⁾ Pursuant to CRUK Evaluation, Option and License Agreement, with ongoing Collaborative Research; IDEAYA controls all Commercial Rights

³⁾ Pursuant to Pfizer Clinical Trial Collaboration and Supply Agreement for cMET Combinations: IDEAYA retains all IDE196 Commercial Rights

IDEAYA Leadership Team and Scientific Advisory Board

Experienced Team & Scientific Thought Leaders in Precision Medicine Oncology

IDEAYA Executives & R&D Leadership



President, Chief Executive Officer, Director











Michael White, Ph.D. SVP, Chief Scientific Officer, Head of Research



Pfizer UTSouthwestern
Medical Centers



Paul Stone, J.D. SVP, Chief Financial Officer



54M FILYPSA AMGEN



Mark Lackner, Ph.D.

SVP, Head of Biology & Translational Sciences

Genentech EXELIXIS





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



Mick O'Quigley, M.B.A. VP, Development Operations

Genentech AMGEN



Paul Barsanti, Ph.D.

SVP, Head of Drug Discovery









Jason Throne, J.D.

SVP. General Counsel





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



William Sellers. M.D.

Broad Institute, Dana Farber, and Harvard, Professor Novartis, Former Head Oncology Research,



Trey Ideker, Ph.D.

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



Brian Daniels, M.D.

Bristol Myers Squibb, Former SVP Global Development



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



Jeffrey Hager, Ph.D.

Former Chief Technology Officer, IDEAYA



IDEAYA and **GSK** Strategic Partnership

Landmark Partnership in Synthetic Lethality



Transformative Strategic Partnership

- Validates IDEAYA Synthetic Lethality platform
- Creates strategic combination opportunities
- Advancing small molecules and protein degraders

Key Partnership Terms

- \$100M cash upfront
- \$20M equity investment as direct private placement
- \$50M option exercise fee for MAT2A
- Over \$3 billion in potential Milestone Payments, including approximately \$1 billion per program
- 50/50% US profit share for MAT2A and Werner Helicase
- 20/80% IDEAYA/GSK cost share for MAT2A and Werner
- Royalties tiered high single-digit to sub-teen double digit %

MAT2A (MTAP Deletion)

- \$50M Option Fee, 50/50% US Profit Share & ex-US Royalties
- Option Data Package based on Clinical Dose Escalation Data
- ~\$1B potential Milestone Payments
- Evaluating multiple clinical combination opportunities

Werner Helicase (MSI High)

- 50/50% US Profit Share and ex-US Royalties
- ~\$1B potential Milestones, incl \$20M Preclinical / Ph1 Clinical
- Potential Combination with GSK's Dostarlimab, a PD-1 IO Agent

Pol Theta (BRCA/HRD)

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



IDEAYA Synthetic Lethality Platform

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

Drug Discovery and Pharmacological Validation

Structure Based Drug Design
Small Molecule Chemistry

Protein Degrader Capabilities

- Crystal structures for five SL programs obtained to enable structure-based design
- INQUIRE™ Chemical Library proprietary, expert-curated small-molecule library of over 200,000 compounds
- Differentiated candidate compounds discovered, including IDE397
- Protein degraders advancing for selected targets, including Pol Theta

Translational Research and Opportunity Expansion



SL Target & Biomarker Discovery and Validation



Bioinformatics, including AI Algorithms

Dual CRISPR, CRISPR, siRNA

Genetically Engineered Models

- Key emerging SL targets identified, such as Werner Helicase, Pol Theta and PARG
- DECIPHER™ Dual CRISPR SL Library in DDR in collaboration with UCSD
- PAGEO™ Paralogous Gene Evaluation in Ovarian in collaboration with Broad Institute

Genomics – DNA and RNA Analysis

Proteomics – Protein Expression Profiling

Tissue (IHC, IF) and Liquid Biopsies Analysis

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



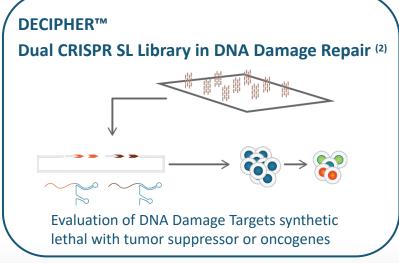
IDEAYA Synthetic Lethality Platform

Synthetic Lethality Target and Biomarker Discovery and Validation

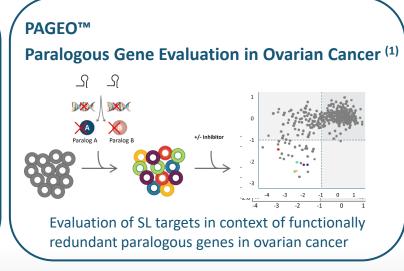


Synthetic Lethality Target Discovery & Validation Platform

IDEAYA SL Platform integrates extensive 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, & in vivo







Partnership Datasets

Cancer Dependency Map – Broad Institute Foundation Insights[™] – Foundation Medicine



depmap portal FOUNDATIONINSIGHTS

Public Databases

IDEAYA data mining and analysis across data sets















IDEAYA Synthetic Lethality Bioinformatics Platform

Vast Data Sets Being Analyzed to Prioritize Novel Synthetic Lethality Targets





Synthetic Lethality Target Identification

- Computational effort to mine data sets for SL pairs
- IDEAYA algorithms developed for SL target and biomarker discovery and patient stratification





IDEAYA Integrates Proprietary, Partner and Public Synthetic Lethality Data Sets



Data sets are growing rapidly with SL data points anticipated to



Machine Learning / Al

Data integration and unsupervised machine learning

Iterative process with SL Biologists to develop most powerful algorithms for SL target & biomarker discovery

Determine SL pairs with the strongest signal to noise ratio

Enables SL Target and Biomarker Discovery and Prioritization

DepMap Consortium

DepMap consortium membership deepens access to genomewide CRISPR SL screen data to inform IDEAYA programs





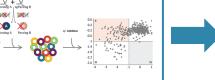
PAGEO™ Paralog Screens

- Ovarian Dual gRNA CRISPR paralog screens with functional redundancy that are hidden in single gRNA CRISPR screens
- Comprehensive set of paralog gene pairs involved in DDR

Results demonstrate encouraging pairwise interaction

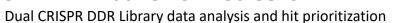
DECIPHER™ Dual CRISPR Screens

effects and target validation ongoing



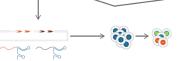






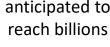


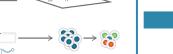














IDEAYA Synthetic Lethality Drug Discovery Platform

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 6 Synthetic Lethality Programs

- MAT2A
- PARG
- Pol Theta (polymerase & helicase)
- Werner Helicase
- 2 undisclosed targets

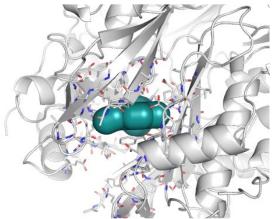
Multiple potential "first-in-world" co-crystal structures resolved, including for PARG, Pol Theta Helicase and Werner Helicase

INQUIRE™ Proprietary Chemical Library

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

Over 200,000 compounds in IDEAYA proprietary library

Enhances IDEAYA's SL Drug Discovery Platform and competitive differentiation







IDEAYA Synthetic Lethality Pipeline Strategy

Building the Industry Leading Synthetic Lethality Focused Biotechnology Company

Focus on Potential First-in-Class Synthetic Lethality Programs to Deliver Patient Breakthroughs

Patient Impact: Potential First-in-Class / Best-in-Class

Significant Opportunities: Large Target Patient Populations

Precision Medicine: Compelling Patient Selection and Pharmacodynamic Biomarkers

Synthetic Lethality Platform: Deep and rich Target Pipeline with ongoing Target Identification and Validation

MTAP Deletion

IDE397 (Ph1) MTAP-SL (PC) HRD / BRCA

PARG (DC)
Pol Theta (Late PC)
Pol Theta Degrader (PC)

MSI-High

Werner (PC)

GNAQ/11
MET Driven Tumors

Daro + cMET (Ph2) (SL Combination)

SL Platform

First-in-Class-SL (Hit ID)

DDR (PC)

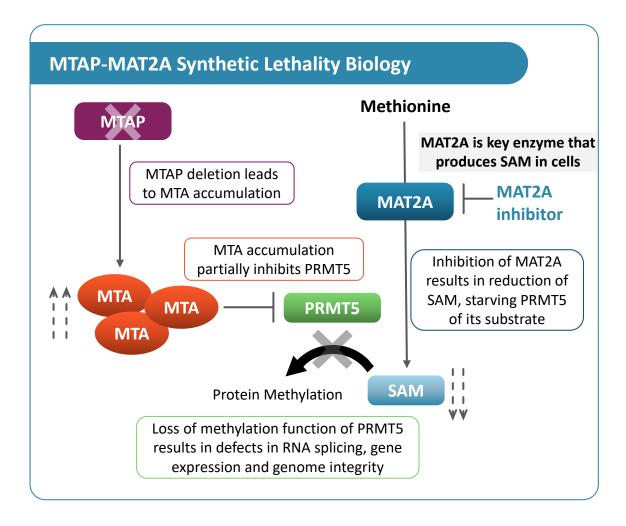
Novel Targets



MAT2A Inhibition is Synthetic Lethal with MTAP Deletion

MTAP Deletion Prevalence ~15% of all Solid Tumors



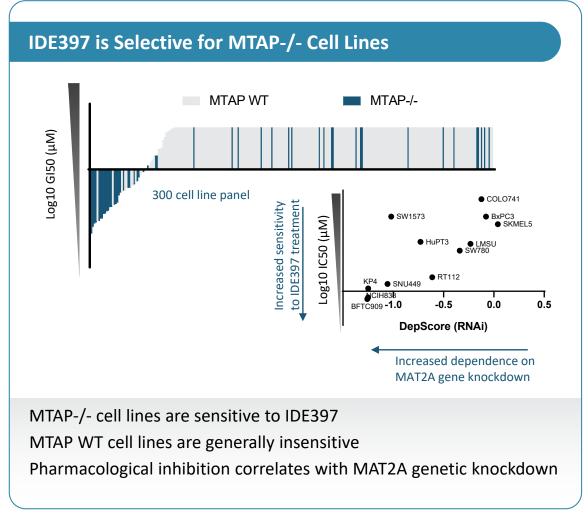


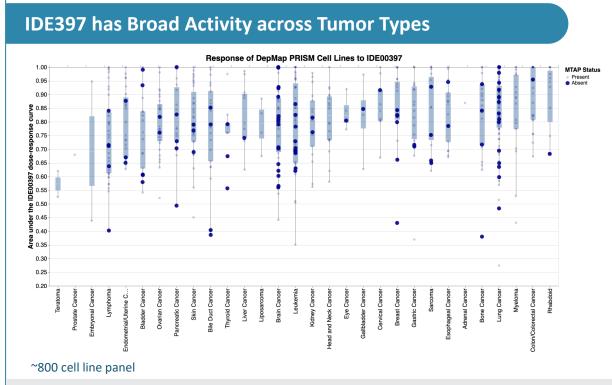
Cancer Type	N	MTAP Deletions (%)
Glioblastoma	592	41
Mesothelioma	87	32
Esophageal	95	28
Bladder	411	26
Pancreatic	184	22
Melanoma	448	16
Lung Cancer (NSCLC)	1053	15
Head and Neck	523	14
Sarcoma	255	10
Esophagogastric	514	10
Diffuse Glioma	513	9
Breast	1084	3
Ovarian	585	3
Adrenocortical	92	3
Гһутіс	123	3
Hepatocellular	369	3
Renal non-clear cell	348	2



IDE397: MAT2A Development Candidate in vitro Profile

IDE397 is selective for MTAP-/- Cell Lines





Differential sensitivity across tumor types; potential for discovery of additional predictive biomarkers

MTAP gene expression and copy number loss emerge as top predictors of sensitivity across cell lines



IDE397: MAT2A Inhibitor

Preclinical Evaluation of IDE397 – Differentiated Profile and Selective for MTAP-/- Cell Lines

IDE397 Target Product Profile

IDE397 demonstrates superior cellular potency and selectivity compared to AG-270

IDE397 has not caused preclinical liver injury or increased bilirubin

- Not an inhibitor of UGT1A1 (AG-270 noted to inhibit UGT1A1)¹ or BSEP transporters at relevant concentrations
- Liver injury not observed in preclinical tox studies

IDE397 has favorable physical properties, including solubility

AG-270 observed non-linear exposure >200mg QD (GI absorption)

IDE397 demonstrates *in vivo* efficacy and PD modulation at 5 to 30mg/kg

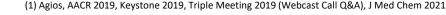
AG-270 published preclinical dose typically 200mg/kg QD¹

Biochemical and in vitro Potency and Selectivity			
	IDE397	AG-270	
MAT2A biochemical IC ₅₀ (nM)	7	12	
KP4 EC ₅₀ cellular (nM) MAT2A dependent	15	731	
BXPC3 cellular EC ₅₀ (nM) MAT2A independent	13200	1630	
HuCCT1 cellular EC ₅₀ (nM) MAT2A independent	>20000	1400	

Differentiating ADME/Physicochemical Properties				
	IDE397	AG-270		
BSEP inhibition @10μM (%)	1	25.2		
UGT1A1 inhibition (%)	34	83		
PXR Emax @30 μM (%)	9	35		
Solubility @pH 7.4 (μM)	>100µM	BLOQ*		

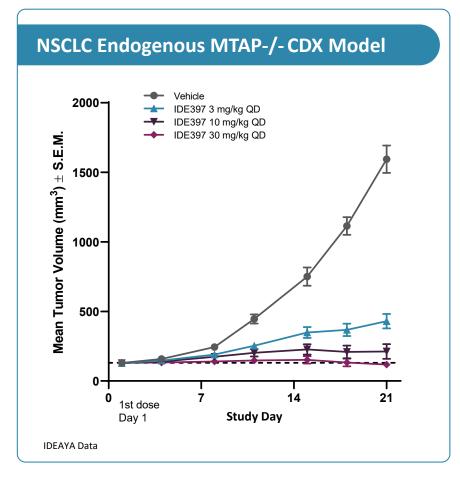
IDEAYA Data

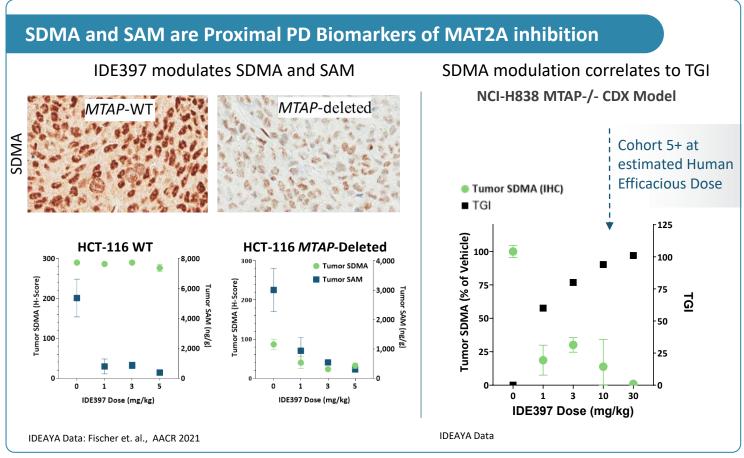
*BLOQ = below limit of quantitation





IDE397 Monotherapy Demonstrates Tumor Regressions and Robust SAM and SDMA Tumor PD Modulation in CDX Xenograft models



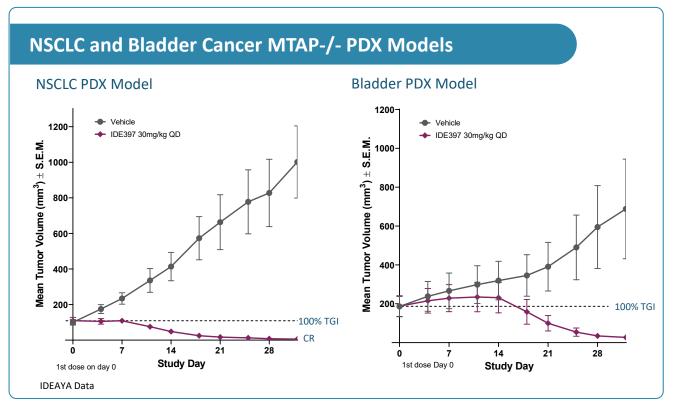


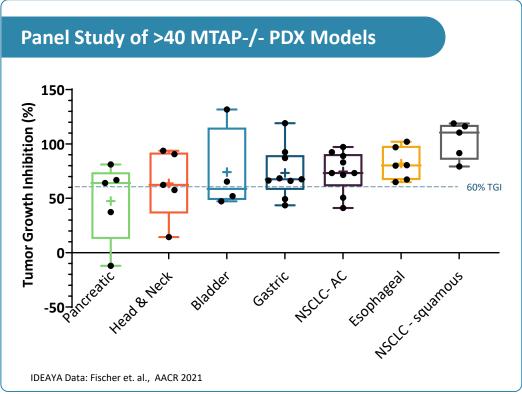
Robust dose-dependent efficacy and PD modulation observed in NSCLC CDX Model



IDE397: PDX Study of >40 MTAP-/- Models in Multiple Indications

Monotherapy Tumor Regressions & Significant TGI Across Multiple Solid Tumor Types





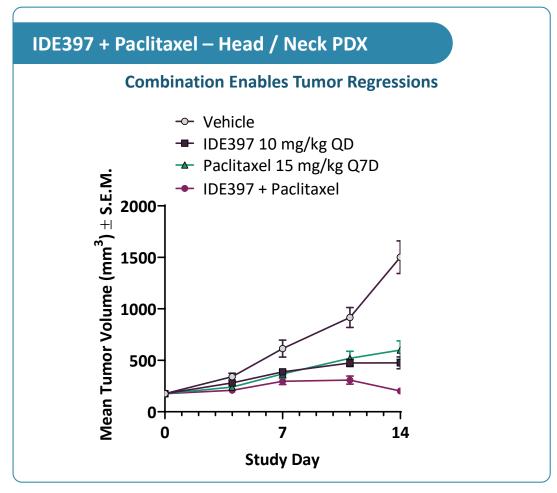
IDE397 evaluation in Patient Derived Xenograft (PDX) models with homozygous MTAP deletions in Solid Tumors

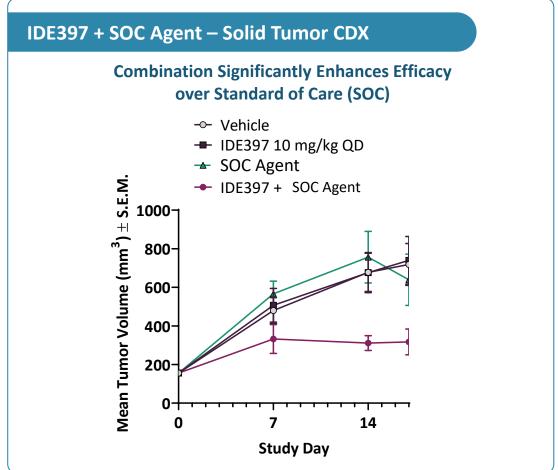
- Tumor Regressions (≥ 100% TGI) observed in multiple PDX models / indications, including in 3 of 5 NSCLC squamous models, with 1 CR
- Observed > 60% TGI in 12 of 14 NSCLC PDX models, including in 7 of 9 adenocarcinoma and in 5 of 5 squamous carcinoma PDX models



IDE397 Combination Partners Enhance Anti-Tumor Response

Evaluating Standard of Care (SOC) Combinations and Novel Combination Partners

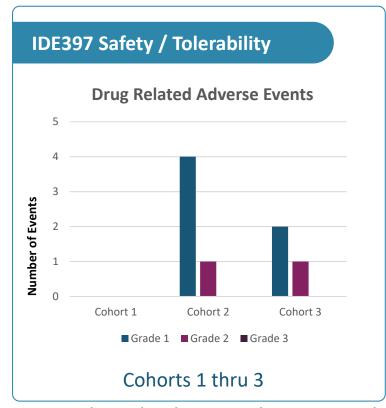


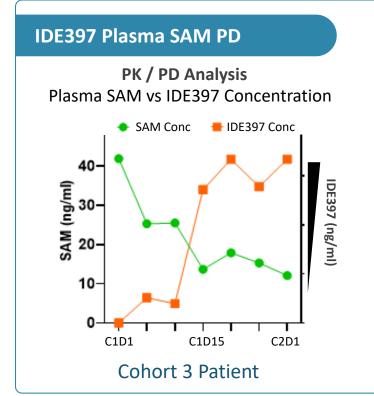


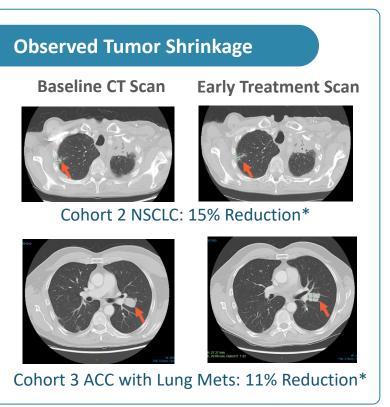


Observed Preliminary IDE397 Clinical Activity and Tolerability

Plasma PD Reduction and Tumor Shrinkage in MTAP Deletion Patients





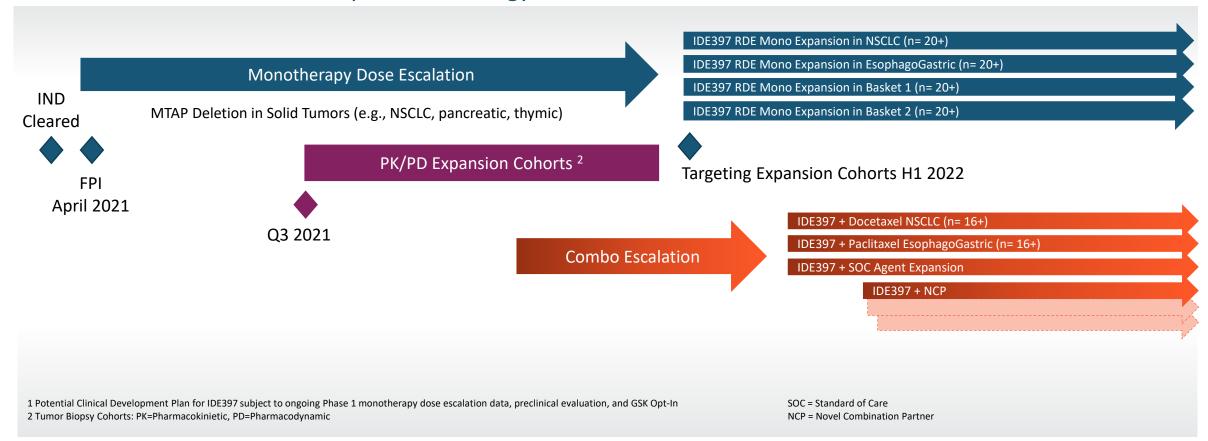


- No drug-related Serious Adverse Events: drug-related adverse events have been Grade 1/2, with no reported myelosuppression or liver toxicity
- Observed plasma SAM PD reduction in early dose escalation Cohorts 1 thru 3, achieving predefined target $\geq 60\%$ plasma SAM suppression
- Observed tumor shrinkage in MTAP-deletion patients in early dose escalation Cohorts 2 and 3
- 80+ year-old Cohort 2 patient with large thymic carcinoma mediastinal remains on treatment after almost 6 months
- Completed Enrollment into Cohort 5; Maximum Tolerated Dose (MTD) has not yet been established

IDE397 Phase 1 Clinical Trial

Comprehensive Approach for Concurrent Evaluation of Monotherapy and Combinations

Phase 1 Dose Escalation and Expansion Strategy ¹





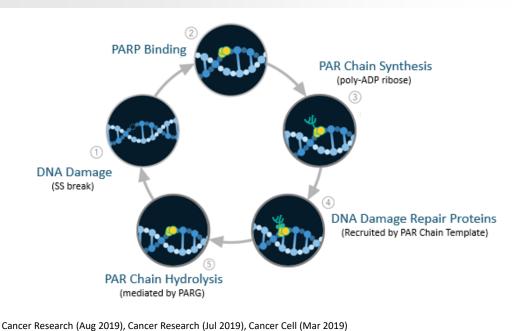
PARG Synthetic Lethality Program

Development Candidate Lead Selected

PARG Biology

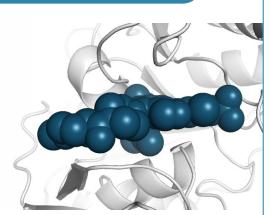
Novel target in Clinically Validated Pathway

Poly(ADP-ribose) glycohydrolase (PARG) regulates DNA repair by hydrolyzing PAR chains in final step of DDR cycle



PARG Drug Discovery Program

Key Emerging Target with lead optimization program guided by structure-based drug design to identify potent, selective candidates



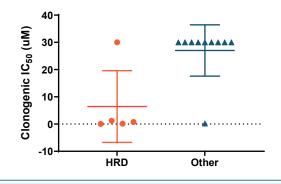
- Multiple potent cellularly active compounds demonstrate in vitro and in vivo PAR accumulation (PD) and in vivo efficacy in defined biomarker setting
- Collaboration with Bill Sellers lab (Broad) established to identify additional genetic sensitizers to PARGi

IDEAYA Data

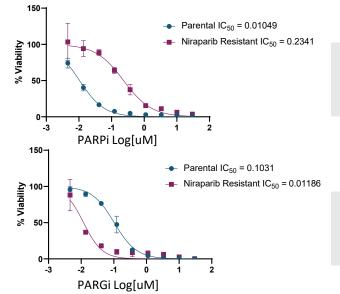


PARG Inhibitors are Synthetic Lethal to HRD and Differentiate from PARPi

Cellular PARGi Sensitivity enriched in HRD Models



Acquired PARPi Resistance Can Sensitize Cells to PARGi



- 22-fold *right* shift in IC₅₀

 → Niraparib-resistant cell li
- → Niraparib-resistant cell lines are less sensitive to PARPi

11-fold *left* shift in IC₅₀

→ Niraparib-resistant cell lines are more sensitive to PARGi

Multiple Endogenous HRD Cell Lines are Selectively Sensitive to PARGi (vs PARPi)

Ovarian HRD

Cell Line	PARG2 IC ₅₀ (μM)	Niraparib IC ₅₀ (μΜ)
Line A	0.009	1.3
Line B	0.008	2.7
Line C	0.05	0.68
Line E	4.9	0.22
Line F	2.34	0.22
Line G	0.6	0.65

sensitive insensitive

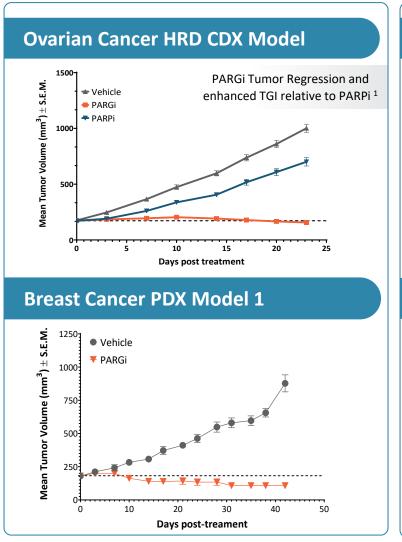
Breast HRD

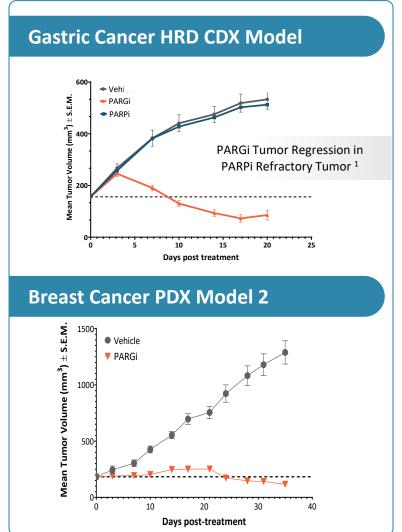
Cell Line	PARG2 IC ₅₀ (μM)	Niraparib IC ₅₀ (μM)
Line A	0.01	0.18
Line B	0.03	0.03
Line C	0.07	0.007
Line D	0.08	0.57
Line E	0.37	17.6
Line F	0.1	0.89
Line G	0.22	2.27
Line H	3.5	0.56
Line I	1.02	5
Line J	1.31	4.9
Line H	0.64	0.72

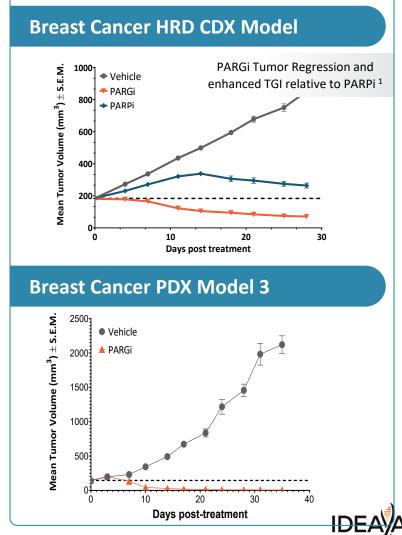


Biomarker Selected CDX and PDX Models are Sensitive to PARGi

Differentiated Activity to PARP inhibition in Ovarian, Gastric and Breast Cancer Models







Pol Theta Synthetic Lethality Program Initiate IND-Enabling Studies in H1 2022



Pol Theta Synthetic Lethality with BRCA/HRD

DNA polymerase theta (Pol Theta) promotes DNA repair by Microhomology-Mediated End-Joining (MMEJ) an error-prone mutagenic DNA repair pathway

MMEJ is active, and Pol Theta is overexpressed, in HRD cancer cells (e.g. BRCA1/2) making Pol Theta a SL target in HRD cancers

PARP1 & Pol Theta are both involved in MMEJ mediated DNA repair supporting a synergistic effect

IDEAYA Pol Theta inhibitors show selective cell viability effects in DLD1 BRCA2-/- vs. wildtype cell lines

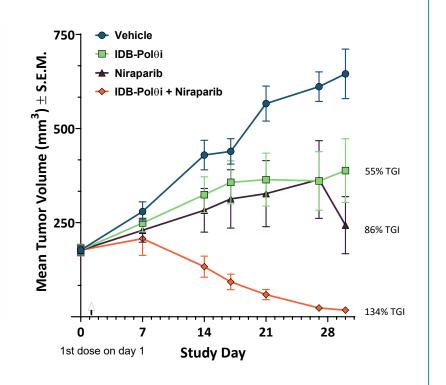
Advancing both small molecule inhibitors and protein degraders

IDEAYA Data

Pol Theta ATPase inhibitor In Vivo Activity

Pol Theta inhibitor in combination with niraparib demonstrates significant tumor regression in DLD1 BRCA2-/- xenograft model

Regressions observed for all animals dosed within combination study



IDEAYA Data

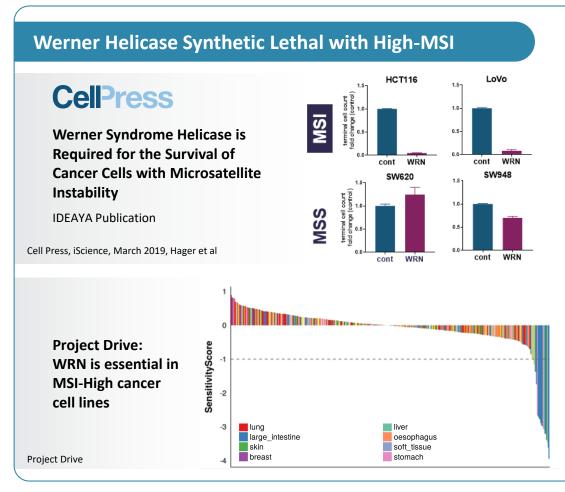


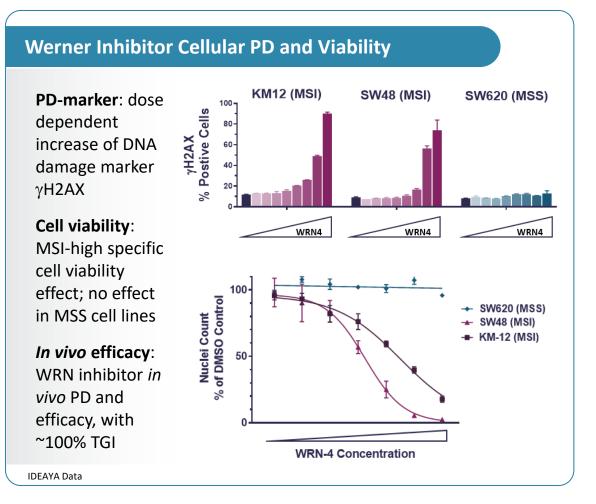


Werner Helicase Synthetic Lethality Program

Candidate Biomarker: High-MSI (15% GI Cancers and 16% CRC) ¹









¹ Cancer Res., November 1998

Darovasertib, a Phase 2 PKC Inhibitor

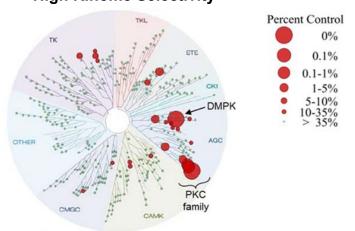
Potential First-in-Class and Best-in-Class Precision Medicine Oncology Program

Darovasertib Compound Profile

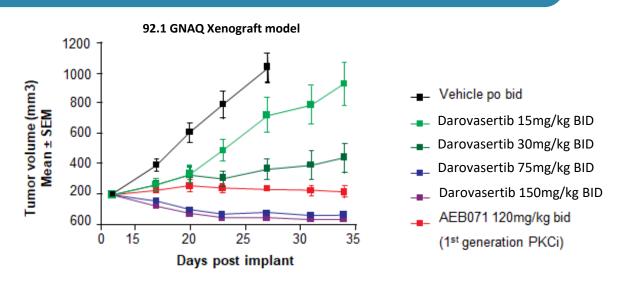
- Enhanced potency across novel PKC isoforms
- Single agent tumor regressions in GNAQ/GNA11 xenografts
- Long-term 13-week toxicology studies in two species completed to enable potential registration (oncology)

Darovasertib IC ₅₀ (nM) PKC Activity								
	Cla	ssical			Nove	el		Atyp.
alpha	beta 1	beta 2	gamma	delta	epsilon	eta	theta	zeta
25	66	58	11	4	3	1	3	>2000

High Kinome Selectivity



Single Agent Darovasertib Induces Tumor Regressions



- 1st Generation PKCi, AEB071, only demonstrated stasis *in vivo*
- Darovasertib led to tumor regressions in vivo, with enhanced cell potency vs. novel PKC isoforms (delta, epsilon, eta and theta)
- Enhanced selectivity vs. AEB071 to improve overall tolerability, including GI-related

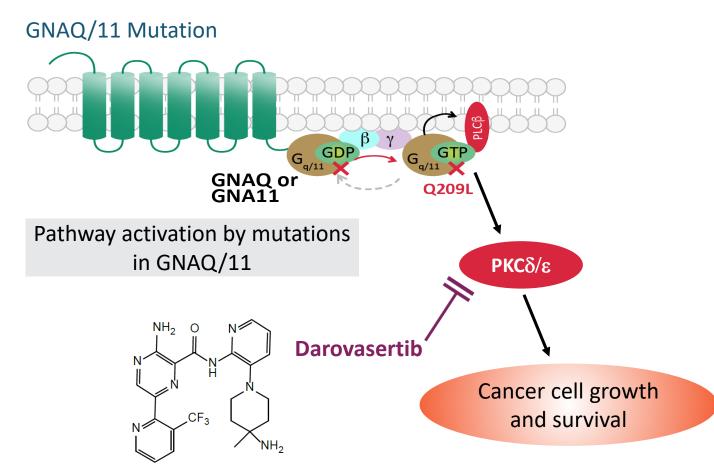
AEB071 = Novartis 1st generation PKC inhibitor Darovasertib (LXS196 / IDE196) = 2nd generation PKC inhibitor

Reference: ACS National Meeting, 2017, Visser, et. al



Darovasertib, a PKC δ/ϵ Inhibitor Targeting GNAQ/11 Mutation Tumors

GNAQ/11 mutations (>90% UM) highjack PKC signaling for tumorigenic transformation



Primary Uveal Melanoma is typically treated with radiation and/or enucleation

Metastatic Uveal Melanoma (MUM) occurs in approximately 50% of patients

MUM presents predominantly as liver metastasis in ~90% of patients

Historical treatment approaches have been ineffective with no approved therapies

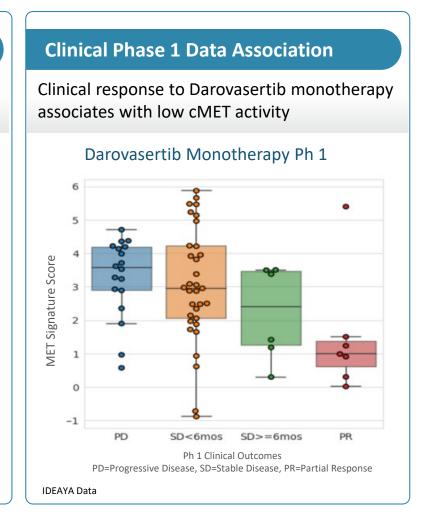


Synthetic Lethal Combination: Darovasertib (PKC) + Crizotinib (cMET)

cMET inhibitor reduces HGF activation of cMET signaling to Synergize with Darovasertib

PKC + cMET Synthetic Lethal Discovery High cMET expression is associated with metastatic progression Metastatic Uveal Melanoma Pathway activation by mutations Pathway activation in GNAQ/11 by liver HGF ΡΚCδ/ε **IDE196** Cancer cell growth and survival HGF promotes cancer cell growth and survival Translational Research hypothesis: HGF-induced cMET signaling in the liver microenvironment activates an alternative pathway for MUM tumor progression IDEAYA Darovasertib Investor Day, 2021

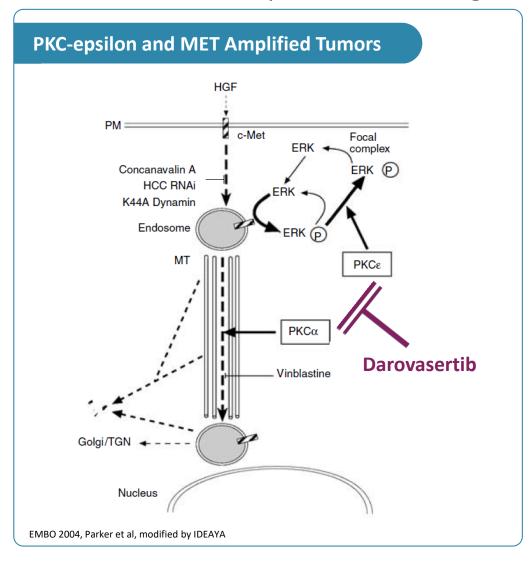
Preclinical Synergy Darovasertib + Crizotinib synergy exhibited in Mel202 (MUM) cell line IDE-196 [nM] 0.64 3.2 80 400 2000 10000 13.7174 41.1523 123.457 L 0 370.37 N 1111.11 3333.33 HSA Synergy (MEL202) IDEAYA Data AACR 2021





PKC-cMET SL: Evaluation of Potential Indication Expansion Ongoing

Additional MET-Amplified / MET High Expression Tumors



PKC-epsilon has been reported in literature to control HGF-dependent cMET traffic, signaling and cell migration

Evaluating potential opportunities to expand clinical PoC of Darovasertib (PKC) + cMET combo to additional MET-amplified / high expression tumors, such as Hepatocellular Carcinoma

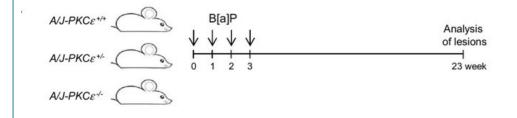
Darovasertib demonstrates activity vs PKC-epsilon isoform with strong cell potency (<100nM EC50)

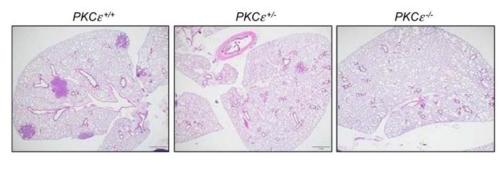


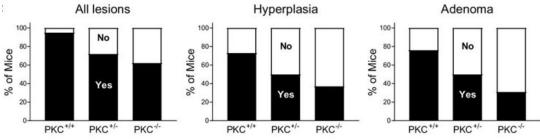
PKC δ/ϵ are Required for KRAS-Driven Lung Tumorigenesis

Evaluation of Potential Darovasetib plus KRAS Combinations

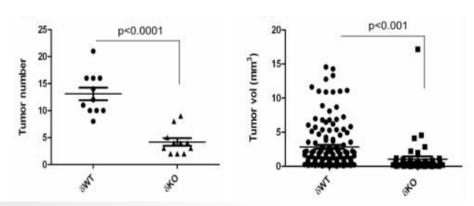
Germline knockout of PKCs reduced number and size of carcinogen-induced KRAS mutant lung tumors



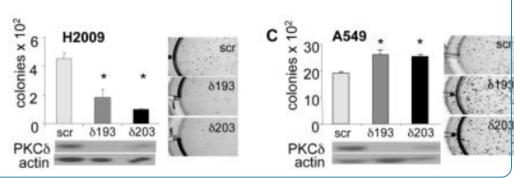




Germline knockout of PKC δ reduced number and size of carcinogen-induced KRAS mutant lung tumors



PKC δ is required for anchorage-independent growth of KRAS mutant/KRAS addicted lung cancer cells

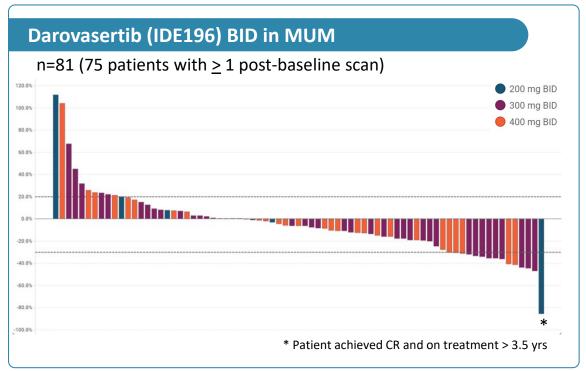


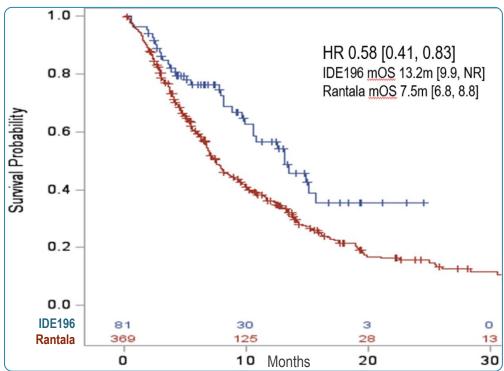
Reference: Reyland lab, U Col (Symonds et al., 2011, Cancer Research)



Darovasertib Monotherapy BID Experience in Heavily Pre-Treated MUM

Overall Survival favorable compared to Historical Pretreated Synthetic Control Arm ^{1,2}





Pooled Analysis IDEAYA + Novartis Clinical Data BID Monotherapy

n = 81 with 75 evaluable patients

46 patients (61%) with target lesion reduction

15 patients (20%) with ≥30% target lesion reduction

Observed monotherapy mOS 13.2

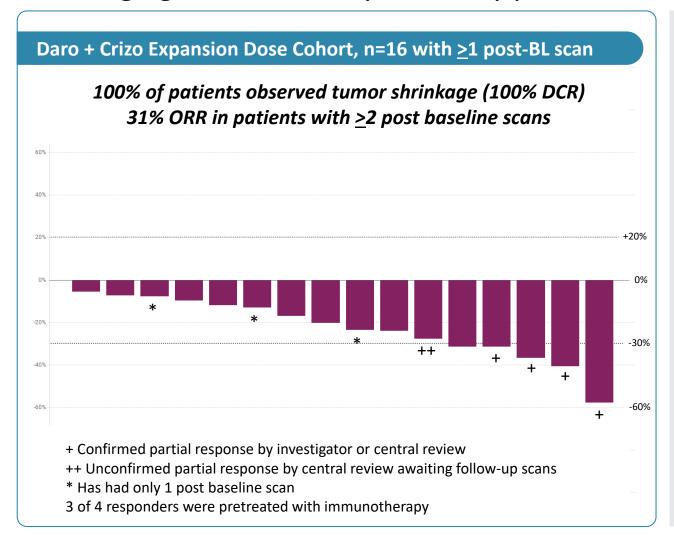


¹ IDEAYA Data (based on preliminary analysis of unlocked database, including: pooled IDEAYA and Novartis BID monotherapy clinical data as of Apr 13, 2021)

² Synthetic Control Arm based on Rantala 2019 (meta-analysis of overall survival of patients with metastatic uveal melanoma over 1980 to 2017 evaluated by treatment modality and lines of treatment)

Preliminary Darovasertib + Crizotinib Phase 2 Expansion Dose Efficacy

Encouraging Clinical Activity in heavily pretreated Metastatic Uveal Melanoma



Early Clinical PoC of PKC + cMET Synthetic Lethal

- 100% of patients show tumor reduction in target lesions (n=16 evaluable patients with > 1 scan)
 - 100% Disease Control Rate
- Encouraging ORR% in heavily pre-treated MUM patients with >2 post-baseline scans (n=13)*
 - 4 patients with confirmed PRs (31% ORR)
 - 6 patients (46%) demonstrate >30% tumor reduction, including 1 uPR awaiting follow-up scan(s)
 - IMC-GP100/IMCR: 4.7% ORR; Pembro: 5% ORR**
- Baseline Characteristics of n=22 total patients, including 6 patients awaiting 1st scan
 - LDH > ULN in 65% of patients
 - 91% with prior therapies
 - 59% with 2 or more prior therapies
- Program Goal: ORR >20%
 - * No patients off-treatment prior to 2nd scan



^{*} CT scan read by investigator or central review

^{**} Immunocore Corporate Presentation, November 2021

Darovasertib + Crizotinib Combination Preliminary Efficacy

5 months

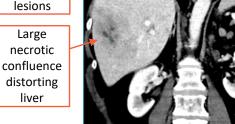
Examples of Responses with significant Anti-Tumor Activity

Patient Example 1

One of many

- 70+ year old patient with ongoing response at 6 months
- Priors: Ipi+Nivo, Chemoembolization, Radioembolization
- Diffuse disease in liver, lung, LN, subcut and elevated LDH

Baseline





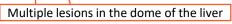
Patient Example 2

- 60+ year old patient with ongoing response at 4 months
- Priors: Ipi+Nivo
- Numerous liver lesions, normal LDH

Baseline

4 months







Markedly improved



Darovasertib + Crizotinib SL Combination Therapy

Differentiated Novel Treatment Mechanism in MUM

	Darovasertib + Crizotinib	Cabozantinib	Selumetinib + Dacarbazine	Tebentafusp
Target / Mechanism	PKC + cMET	сМЕТ	MEK + Chemotherapy	HLA-A2-0201 Bi-Specific Ab
Study Name	NCT03947385	Alliance A091201 [^]	SUMIT (NCT01974752)	IMCgp100-102
Population	2L/3L+ MUM (n=16 eval)	1L+ MUM (n=31 eval)	1L+ MUM (n=97)	2L+ MUM (n=127)
Patient Selection	N/A (100% of MUM)	N/A (100% of MUM)	N/A (100% of MUM)	HLA-A2-0201 (~40-50% of MUM)
Drug Form	Oral Tablets (BID)	Oral Capsules (QD)	Oral Capsules (BID) plus chemo	IV Infusion (Weekly)
Tolerability (Grade ≥3 Drug-Related AE)	27%	51.6%	63% ^^^ (All Cause)	46.5%
% of Pts with Tumor Shrinkage	100%*	23% ^^	35%^^	44%#
Overall Response Rate (ORR)	31%*	0%	3% ^^^	4.7%#
Progression Free Survival (PFS)	Targeting mPFS update in H1 2022	2 m	2.8 m ^^^	2.8 m#
Overall Survival (OS)	[TBD]	6.4 m	Not reported	16.8 m#

^{*} IDEAYA Ph 1/2 (ongoing): based on preliminary analysis of unlocked database as of 11/25/2021 by investigator or central review



[#] Based on Immunocore reported 2L+ study data (to reflect comparative patient population) and by independent review

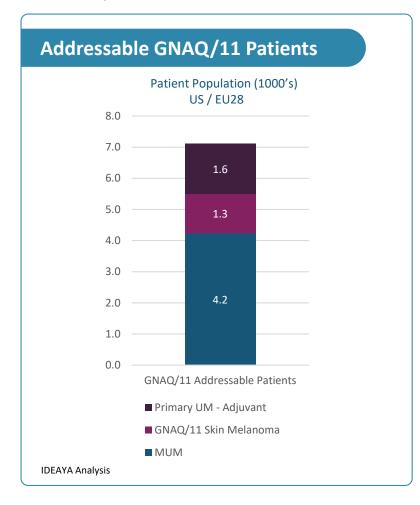
[^] Randomized Phase II Trial and Tumor Mutational Spectrum Analysis from Cabozantinib versus Chemotherapy in Metastatic Uveal Melanoma (Alliance A091201); Clin Cancer Res 2020;26:804–11

^{^^} Estimated from Waterfall plot

^{^^^} Journal of Clinical Oncology, Carjaval, et. al, 2018; 1232-1239

Darovasertib Patient Population Analysis

GNAQ/GNA11 Melanoma & Additional MET-Amplified / High Expression Tumors



MUM, Adjuvant UM and GNAQ/11 Skin Melanoma

- No FDA Approved Therapies for MUM or GNAQ/11-Tumors
- Clinical evaluation of opportunities in MUM (Ph2), Adjuvant Uveal Melanoma (Ph 1 IST) and GNAQ/11 Skin Melanoma (Ph1)
- Total Addressable Patient Population (US, EU28) ~7.1K pts/year

Evaluating Additional MET-Amplified / High Expression Tumors

- Patient selection based on CLIA-validated assays for MET-amplification (e.g., NGS, FISH) or high MET expression (e.g., IHC)
- HCC focus on refractory / resistant patients based on hypothesis of constitutively active cMET/HGF axis

Validating Additional Mechanistic Relationships

- nPKC (δ or ε) knockout mice protected from KRAS induced lung adenocarcinoma^{4,5}
- PKC epsilon supports aneuploid cancer cell mitosis⁶

	MET-amplification	High MET Expression
NSCLC	~1-5% ^{1,2}	~3-4% ²
CRC	*	~3-9% ²
Gastric Cancer	*	~9-20% ²
HCC	~9% ³	~27% ³

¹ Drilon et al., Journal of Thoracic Oncology, 2017, 12: 15-26 2 Sierra et al., Therapeutic Advancers in Medical Oncology, 2011, 3: S21-S35 3 Lee et al., Anticancer Research, 2013, 33: 5179-5186



⁴ Symonds et al., Cancer Research, 2011, 71: 2087-2097 5 Garg et al., Cancer Research, 2020, 80: 5166-5173 6 Parker et al., Advances in Biolgical Regulation, 2020, 78: 100759

^{*} not reported δ = delta ϵ = epsilon

Building a Premier Synthetic Lethality Precision Medicine Oncology Biotech

Focus on Potential First-in-Class Synthetic Lethality Programs to Deliver Patient Breakthroughs

Patient Impact: Large addressable patient populations in major solid tumor types

Potential First-in-Class / Best-in-Class: Optimized small molecule and protein degrader development candidates

Precision Medicine: Compelling patient selection and pharmacodynamic biomarkers

Synthetic Lethality Platform: Deep and rich target pipeline with ongoing target identification and validation

SL Degraders: Pol Theta Protein Degraders demonstrate degradation in cell models; additional SL degrader opportunities

MTAP-Deletion

IDE397 (MAT2A)

Cohort Expansions - H1'22 GSK Option Package - H1'22 Clinical Data Update - H1'22

MTAP-SL

Lead Series ID

HRD/BRCA

PARG

IND Filing - Q4 2022

Pol Theta

Initiate IND Enabling – H1 2022 Advance Protein Degraders

MSI-High

Werner Helicase

Lead Optimization Dev Candidate 2023

GNAQ/11

MET-Driven Tumors

SL Combo: PKC + cMET

mPFS Update – H1'22 FDA Guidance on

Registration Trial - H1'22 **Evaluate Expansion**

Opportunities in MET

SL Platform

First-in-Class – Lead Series ID

DDR – Lead Optimization

Novel SL Targets

Target Milestones to Advance Industry Leading Synthetic Lethality Pipeline

