



Immuneering

Deep Cyclic Inhibition of MEK in RAS-mutant Tumors:

Constraining MAPK-Axis Escape and
Preserving Combination Optionality

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September 8, 2026



8th Annual
RAS-Targeted
Drug Development Summit



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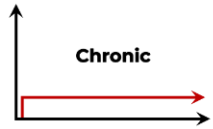
Unless otherwise specified, all clinical data in the following slides is based on an interim data collection from the intent-to-treat population of 55 patients dosed at the 320 mg once-daily dose level of atebimetinib in combination with modified gemcitabine/nab-paclitaxel ("mGnP" = 1,000 mg/m² (Gem) + 125 mg/m² (nab-Pac) days 1 & 15, every 4 weeks) in the Company's ongoing Phase 1/2a clinical trial, as of April 24, 2026. The median follow-up for overall survival (OS) was estimated by the reverse Kaplan-Meier method. All data remains subject to follow-up and database updates.

Disclosures

Praveen Nair, Ph.D.

- I have the following financial relationships to disclose:
 - Stockholder in Immuneering Corporation
 - Employee of Immuneering Corporation
- I will not discuss off label use and/or investigational use in my presentation.

Deep Cyclic Inhibition (DCI) of the MAPK pathway at MEK



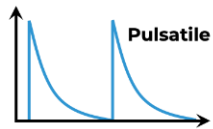
PREVAILING PARADIGM

Chronic target engagement → prioritizes fast, deep RECIST shrinkage beyond -30% (surrogate for OS?)



CHALLENGES

- High toxicity from continuous pathway suppression (esp. pan-RAS, pan-MAPK)
- Adaptive and acquired resistance; limited durability of response
- **Limited combination optionality → little room left for partner agents**



ALTERNATIVE APPROACH

- Pulsatile MEK inhibition (Deep Cyclic Inhibition, DCI)
- Break tumor addiction and constrain resistance while sparing healthy tissue
- **Designed to combine: synergy and durability over monotherapy RECIST ORR**



DCI VALIDATION: PROMISING PHASE 2 DATA & ENROLLING PHASE 3

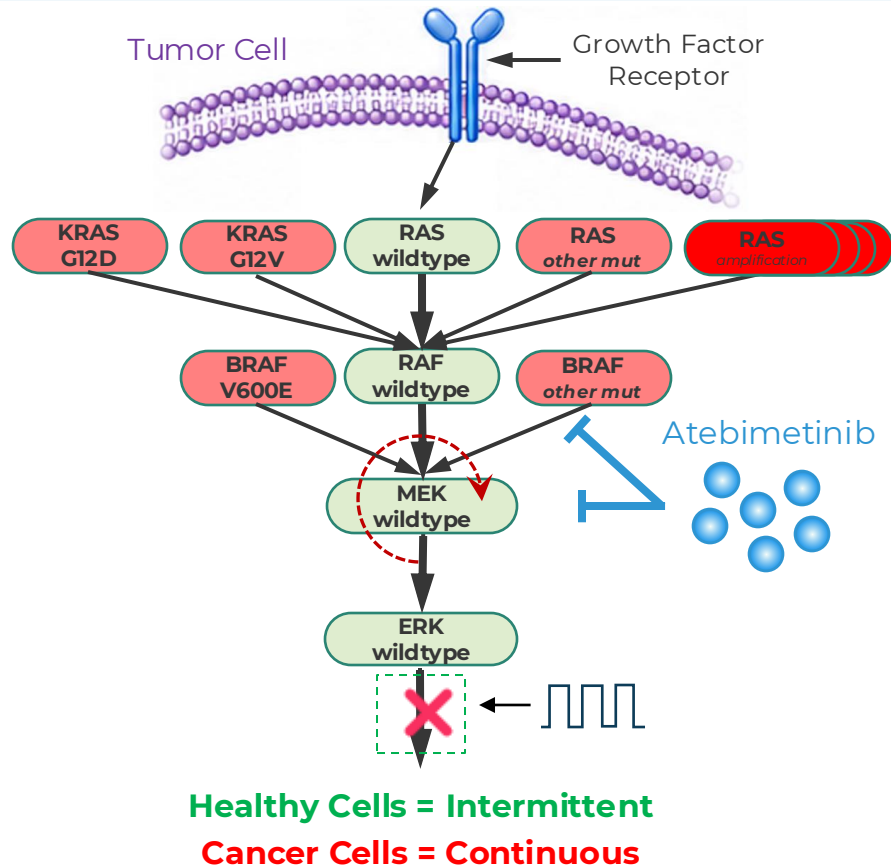
- Encouraging overall survival, safety, activity in 1L PDAC to date
- Definitive tests come with randomized phase 3 readouts

Atebimetinib Could Unlock the Full Potential of MEK Inhibition



Immuneering's First Target: MEK

Pulsatile $\geq IC_{90}$ Inhibition with Once-Daily Oral Dosing



Goal: Optimize Combination Durability & Tolerability

	Liabilities		Strengths	
1st Generation MEK Inhibitors	Ineffective in cancers driven by RAS 	Poorly tolerated	Effective in cancers driven by RAF 	Counters Cachexia to preserve body mass
	corrected	improved	retained	retained
Atebimetinib	Block RAF-mediated MEK phosphorylation Immuneering's Deep Cyclic Inhibitor (DCI) Technology			

Prevailing Paradigm:

Chronic Target Engagement

- **Rationale**: sustained inhibition required to break oncogenic addiction
 - **Challenges**: toxicity, resistance, narrow window, limited combinability
 - **Scope**: chronic MEK, mutant-selective- and pan-RAS inhibitors
-

Widening RAS Blockade Does Not Close the Escape Route

Adaptive and acquired escape converges on RAS/MAPK reactivation - whatever the scope of blockade

MUTANT-SELECTIVE RAS INHIBITORS

(e.g., KRAS G12C(OFF): sotorasib, adagrasib)

SCOPE

Narrow/focused, allele-defined patient subsets

RESISTANCE

Allele-specific and mutational: secondary KRAS mutations, plus NRAS, BRAF, MAP2K1, NF1 loss, RTK amplification (MET, EGFR, ERBB2, FGFR2); often multiple per patient

TOXICITY

Normal tissue largely spared; mutant protein is dispensable in healthy cells

COMBINATION LOGIC

Vertical pairing makes sense: atebimetinib (DCI MEKi) covers the MAPK node that escape runs through, without stacking chronic toxicity

PAN- / MULTI-RAS INHIBITORS

(e.g., RAS(ON) multi-selective: daraxonrasib)

SCOPE

Broad coverage across multiple RAS alleles

RESISTANCE

Amplification-driven: emergent RAS-pathway alterations in 59% at end of treatment; mutant-KRAS amplification 36%, MAPK 25%, RTK 9%, PI3K 9%; no secondary KRAS mutations

TOXICITY

Wild-type RAS engagement: rash 86%, diarrhea 58%, stomatitis 53%; 36% dose reduced

COMBINATION LOGIC

Vertical pairings are constrained: wild-type RAS toxicity and broad pathway inhibition already restricts combination opportunities

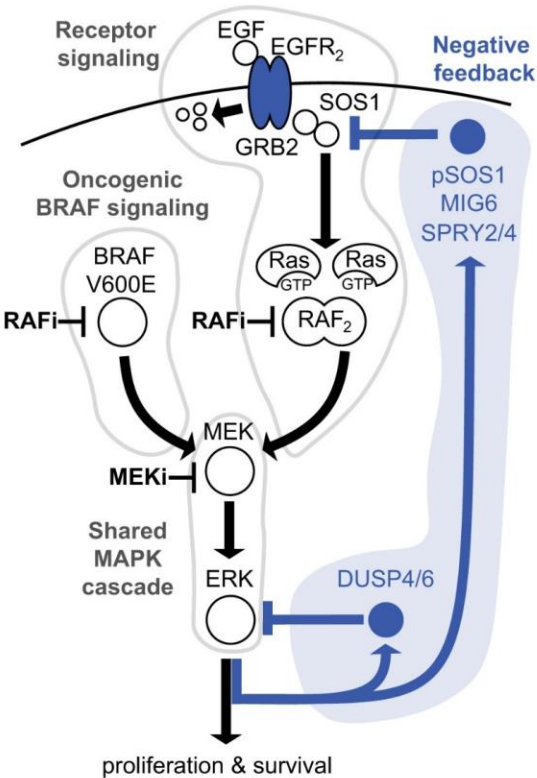
Kim et al., AACR 2026 #1873; Aronchik et al., Nat Med 2026; O'Reilly et al., NEJM 2026 (RASolute 302); Ebright et al. 2025; Tanaka et al. 2021

Chronic MEK Inhibition: Feedback Loss, Resistance, Toxicity

The same MAPK-reactivation exit plus a toxicity ceiling that has restricted wider combinations

Loss of Negative Regulators

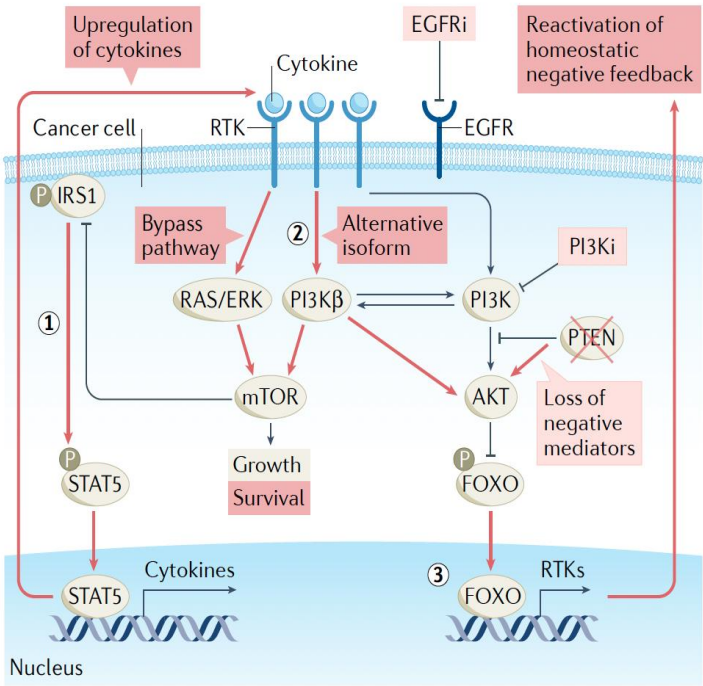
- RAF bypass: pMEK accumulates, pERK rebounds -



Gerosa et al, Cell Systems, 2020

Increased Adaptive Resistance

- Adaptive escape precedes acquired resistance -



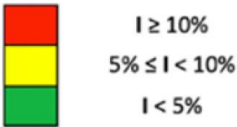
2022 Nat Rev Can p.323

Increased Risk of MEK Toxicities

- Narrow window limits dose and combinations -

Clinical Scenario		V+C	D+T	E+B
Gastrointestinal disease	Diarrhea			
	Vomit			
	Anorexia	-	-	-
Liver disease	↑ AST			
	↑ ALT			
Cardiovascular disease	↓ Ejection fraction			
	Hypertension			
Rheumatological disease	Arthralgia			
Dermatological disease	Skin rash			
Hematological disease	Anemia			

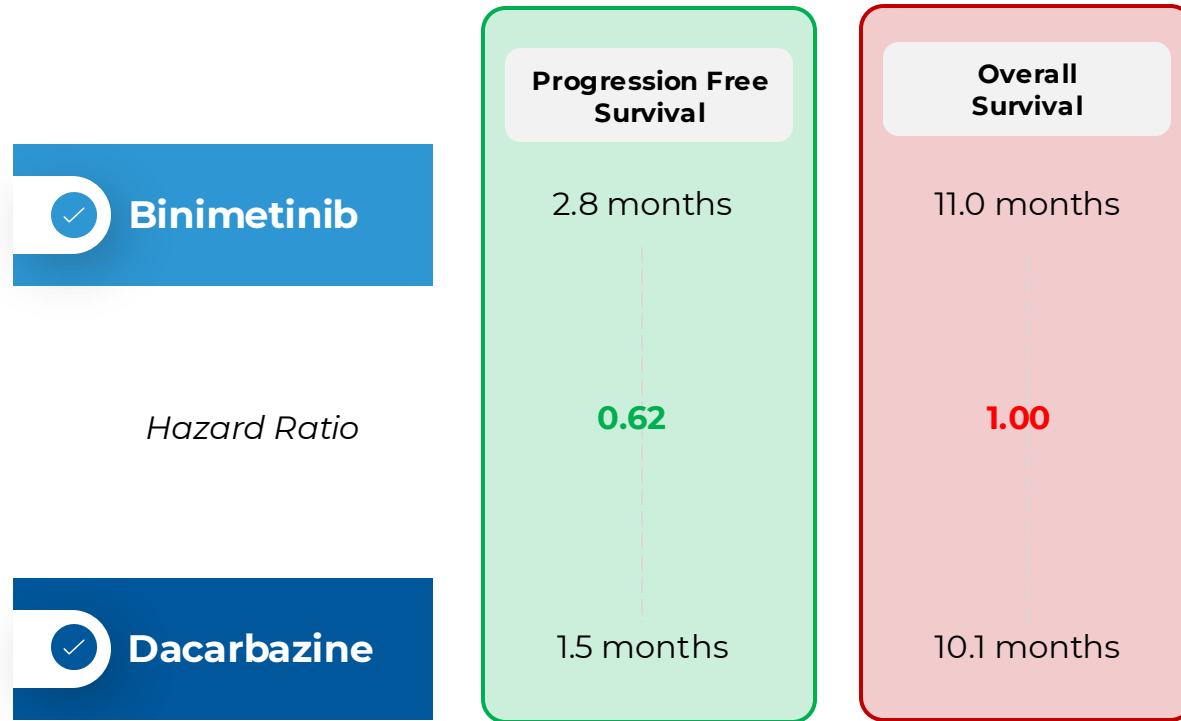
Grade 3, 4, 5 Events



2019 ESMO Open p.e000491
2023 Cancers 15:141

NEMO Phase 3: Binimetinib vs. Dacarbazine (NRAS^{mut} melanoma)

Better ORR and PFS, no OS benefit — dose reductions 61% vs 16%, discontinuations 20% vs 5%



>50% increased toxicity

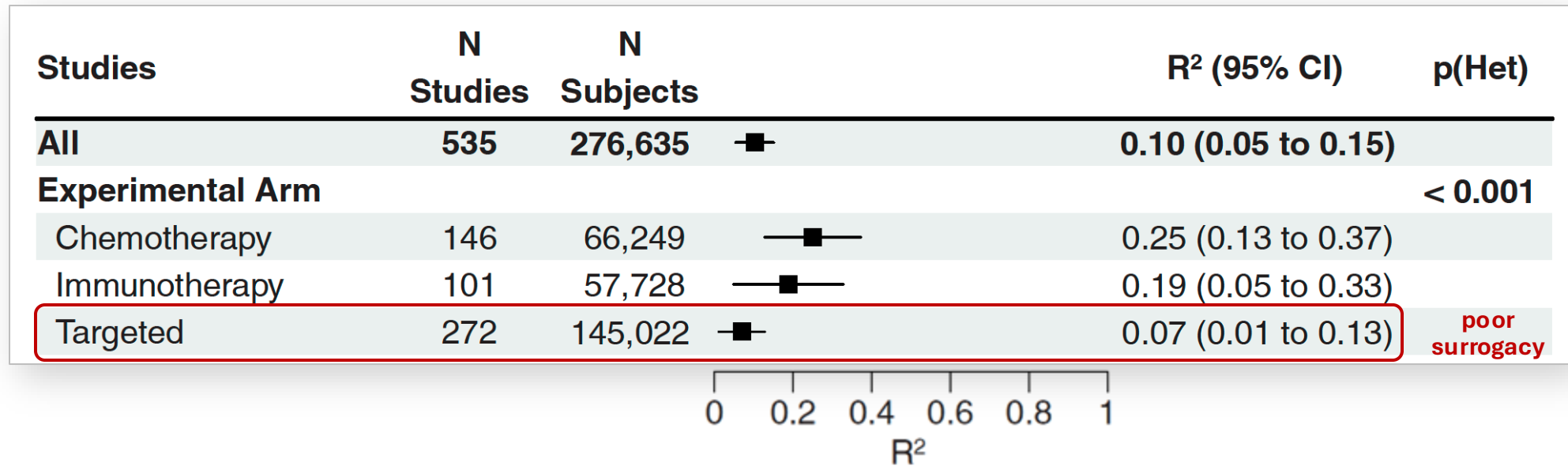
- > Serious Adverse Events (**34% binimetinib** vs. 22% dacarbazine)
- > Overall Response Rate (**ORR: 15% binimetinib** vs. 7% dacarbazine)

Over 2x improvement in ORR

NRAS Status	Binimetinib	Dacarbazine
	N = 269	N = 133
Q61K	100 (37%)	51 (38%)
Q61L	32 (12%)	17 (13%)
Q61R	137 (51%)	64 (48%)
Wildtype	0	1 (1%)

RECIST ORR: a Poor Surrogate for Overall Survival

Targeted therapy: ORR–OS correlation $R^2 = 0.07$ (95% CI 0.01–0.13)



“...growing evidence of the **lack of strong surrogacy for ORR and PFS for OS** across tumor groups and treatments. This has significant implications for regulatory agencies such as FDA and EMA...”

- Shahnam, et al 2024 Eur J Cancer 198:113503
- (PDAC) Makris, et al. 2017 Ann Surg Oncol 24:2371

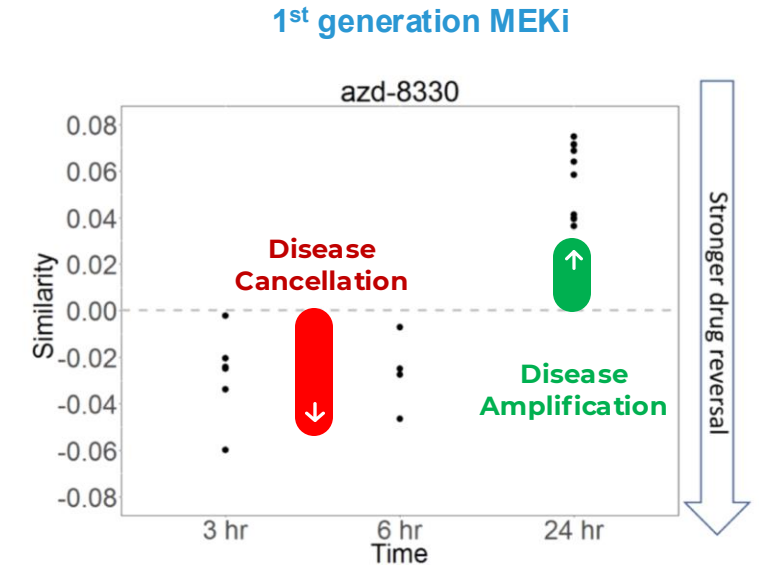
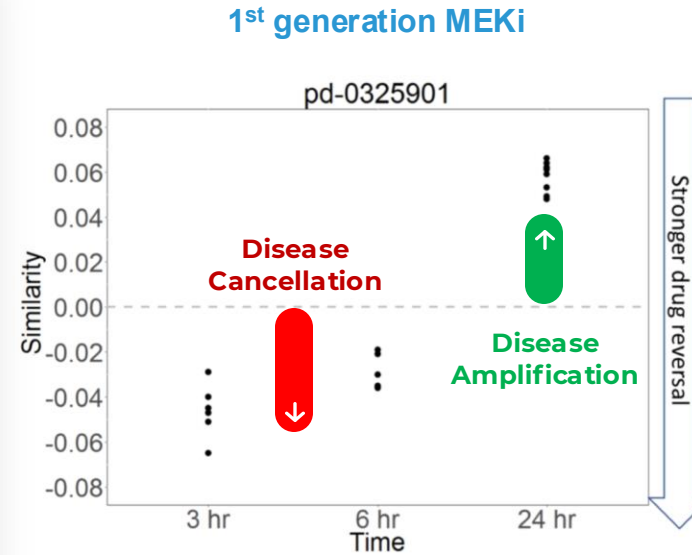
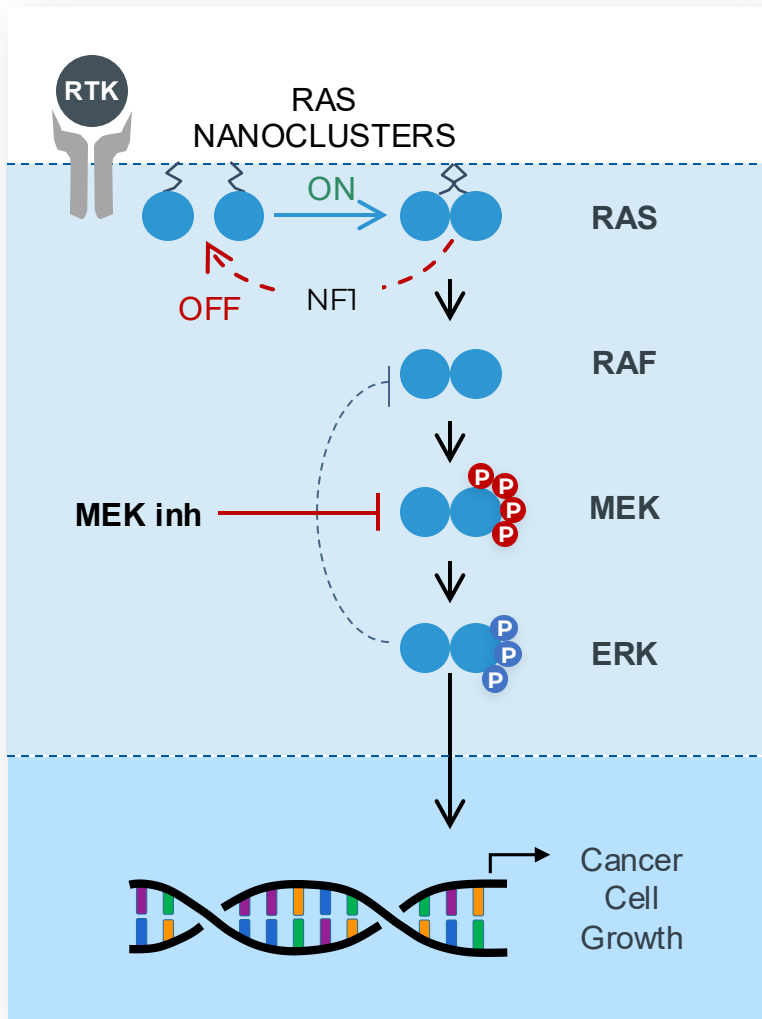
Alternative Approach:

Deep Cyclic Inhibition (DCI)

- **Rationale 1:** constrain MAPK-axis escape (deep pulse with daily reset)
 - **Rationale 2:** combination optionality → tolerability headroom to combine
 - **Challenges:** innovation resistance, legacy endpoints (surrogacy), historical limitations of chronic MEK inhibitors
-

Signaling Dynamics Pointed to the Pulse, Not the Plateau

Design goal: achieve **broader activity** and **better tolerability** in RAS/MAPK pathway activated disease



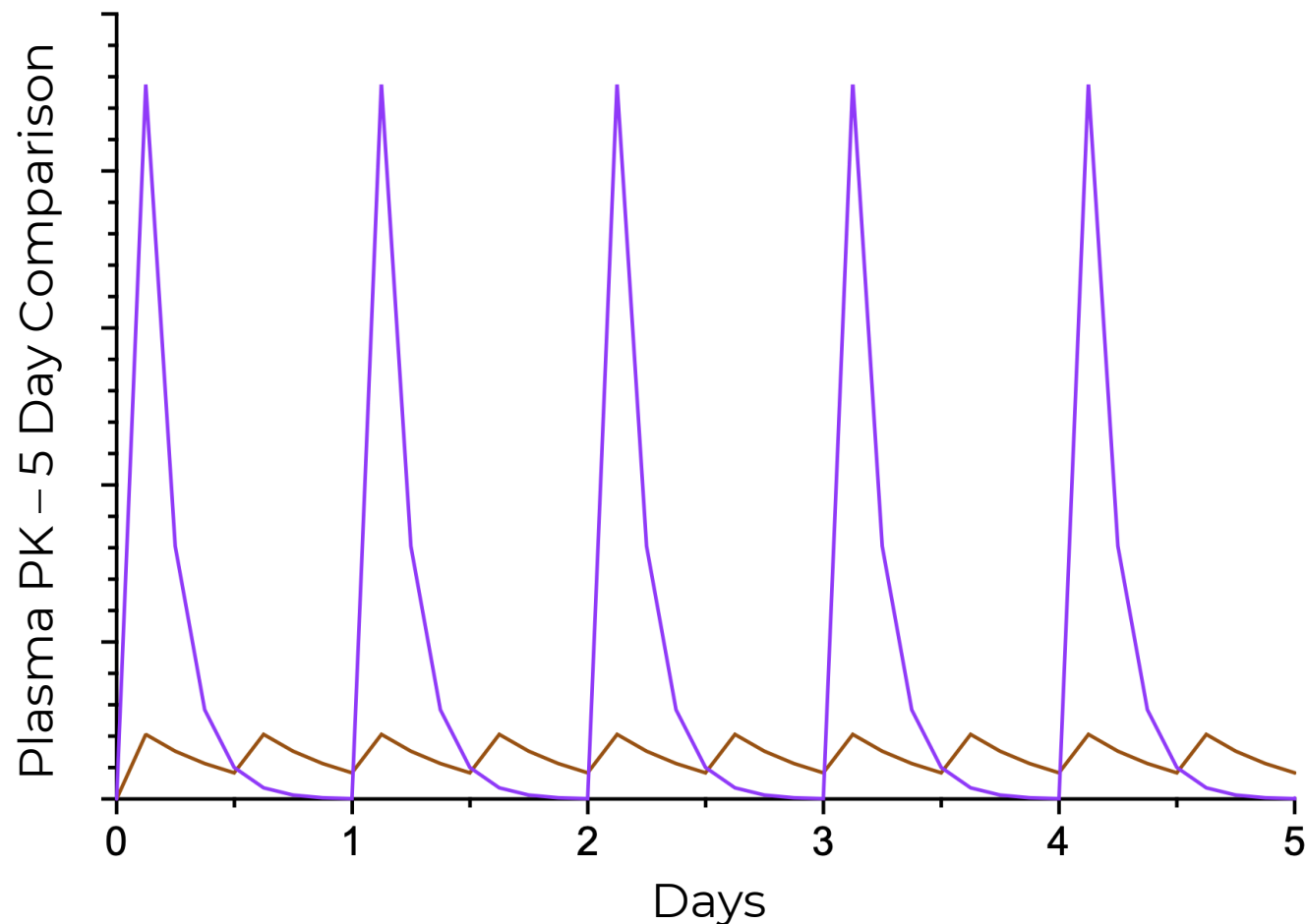
Note: dots are representative of various concentrations



Atebimetinib's dual-MEK binding resists CRAF bypass; its short half-life delivers the pulse first-generation MEKi cannot.

Data-driven Identification and Optimization of New Medicines to Cancel Cancer Cachexia
Presented by Ben Zeskind at the 12th International Conference of Cachexia, Sarcopenia & Muscle Wasting (SCWD) in Berlin, Dec. 6-8, 2019

Deep Cyclic Inhibition Requires: A Deep Pulse and a Daily Reset



Conceptual illustration of deep cyclic inhibition (purple) vs. chronic inhibition (brown) /
de Jong et al., ACoP 2024 (W-019)

Deep Pulse Above IC90

GOAL: many-fold higher Cmax free-fraction to break tumor addiction

Near-Zero Trough

GOAL: short 2-3 h half-life, so every day includes a drug holiday

Bypass-Resistant MoA

GOAL: prevent RAF-mediated MAPK bypass; broaden RAS-mutant activity

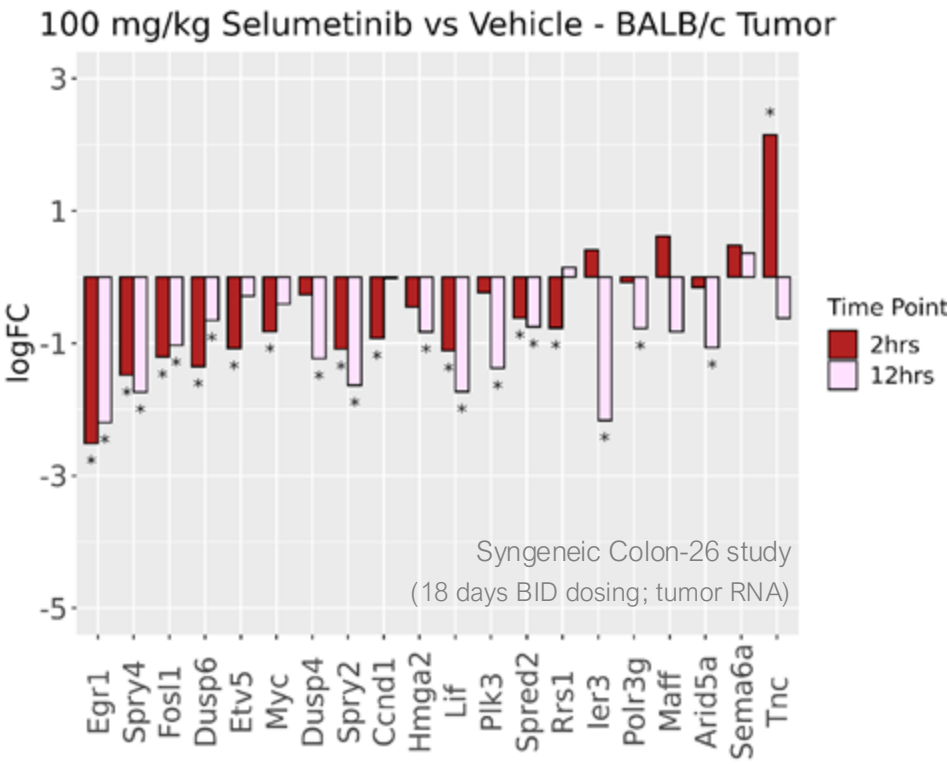
Combination Headroom

GOAL: improved tolerability to add vertical and orthogonal partners

Pathway Recovers Daily: Cyclic Disruption, Not Chronic Suppression



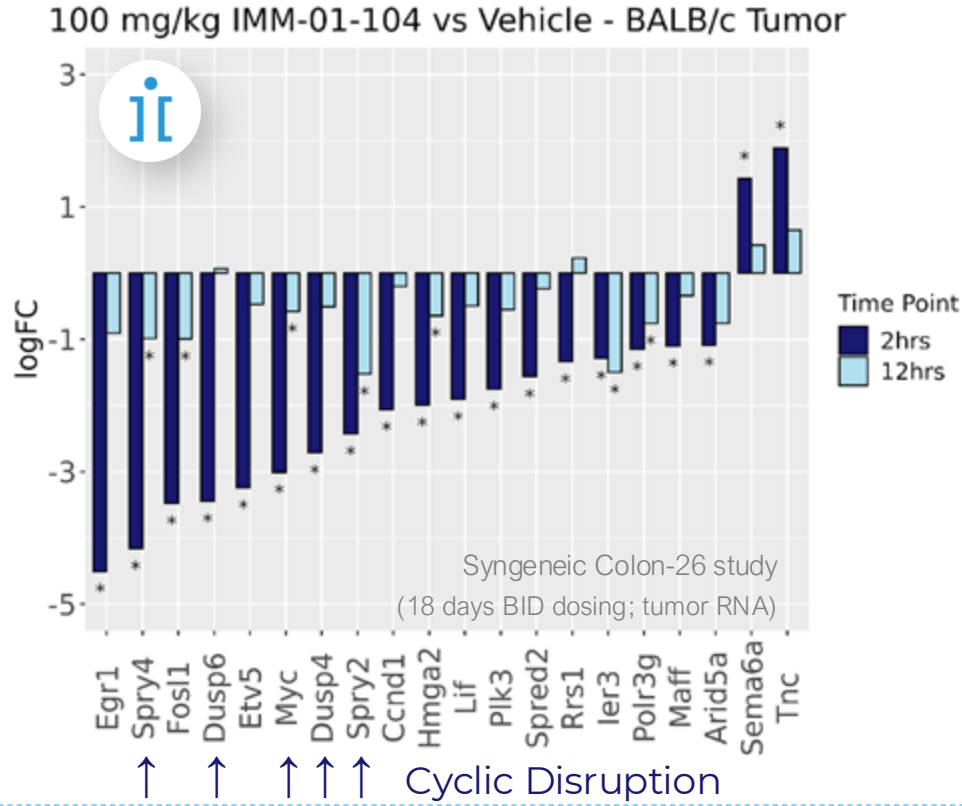
Chronic MEK Inhibition



Sustained suppression → unrelenting selective pressure + TOXICITY



Deep Cyclic Inhibition



Daily reset → pressure released + TOLERABILITY

Skolitz, et al. 2021 AACR-NCI-EORTC (virtual)

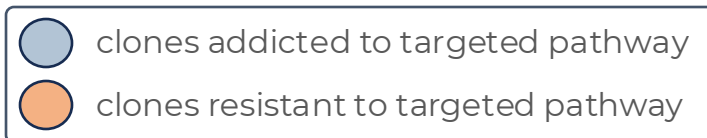
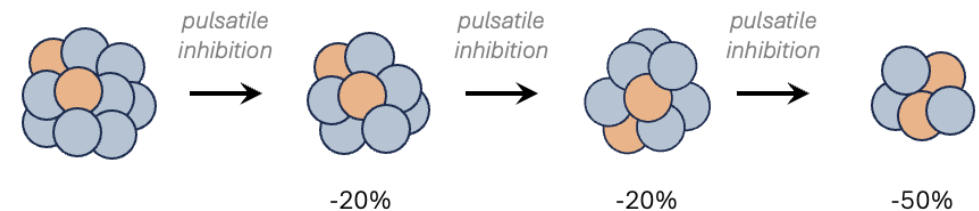
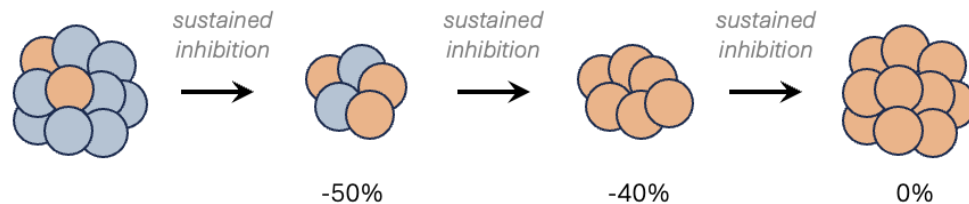
Atebimetinib (IMM-1-104)

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Outpacing Adaptation: Slower Shrinkage, Longer Control

Most therapies are designed for **sustained inhibition**, driving cancer to adapt and develop resistance; tumors shrink **quickly but temporarily**

Our therapies are designed for **deep cyclic inhibition**, pulsing faster than cancer can adapt; tumors shrink **slowly but durably**



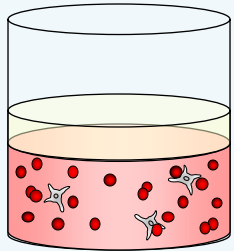
1. Gatenby, et al. 2009 *Can Res – Adaptive Therapy* – 1;69(11):4894
2. Seyed*i* (Maley), et al. 2024 *Can Res – Resistance Management* – 84(22):3715

Breadth at the MEK Node: 157 of 211 Models Responsive

211 Tumor Models

124 = RAS Mutant

32 = RAF Mutant



Humanized
3D-TGA

Nair, et al. 2023
AACR EORTC
Boston, MA

Tissue	Response #	Non-Response #
Pancreatic †	18	3
Melanoma †	24	0
Lung †	28	13
CRC	25	10
Thyroid	9	2
Cholangiocarcinoma	7	0
AML	10	0
Uveal Melanoma	4	1
Multiple Myeloma	4	4
Soft Tissue	3	2
Breast	3	6
Gastric	4	2
Ovary	4	3
Prostate	1	2
Fibrosarcoma	1	0
Liver	4	2
Neuroblastoma	1	1
Other (BLA, UTE, ESO, HNSQ)	7	3
Total	157 (74.4%)	54 (25.6%)

RAS, RAF mutation	Response #	Non-Response #
NRAS G12	4	0
NRAS G13	1	0
NRAS Q61	23	4
KRAS A146	2	1
KRAS G12	54	12
KRAS G13 ^	4	3
KRAS Q61	5	2
HRAS G12	2	1
HRAS G13 *	1	0
HRAS Q61	5	0
BRAF (Class I or II)	26	5
Total	127 (81.9%)	28 (18.1%)

RAS, RAF mutation	Response #	Non-Response #
Not Present	34	25
Total	34 (57.6%)	25 (42.4%)

^ 1 model also bearing KRAS Q61 /// * 1 model also bearing NRAS Q61

Response to atebimetinib based on 3D-TGA and other preclinical modeling. Parallel translational efforts are focused on projecting patient-aligned molecular profiles or 'Targetability'.

Models tested in 3D-TGA were assigned responsive if dose response IC50 < 1uM (sensitive) or IC50 ≥ 1 with >25% reduction at 10uM (intermediate), and non-responsive otherwise (resistant)

† Select 3D-TGA models: (1.) Pancreatic MIA PaCa-2 (sensitive/responsive), (2.) Pancreatic Capan-2 (intermediate/responsive), (3.) Melanoma SK-MEL-2 (sensitive/responsive), (4.) Lung A549 (intermediate/responsive)

Nair, et al. 2023, AACR EORTC, Boston, MA (Updated: July 2026)

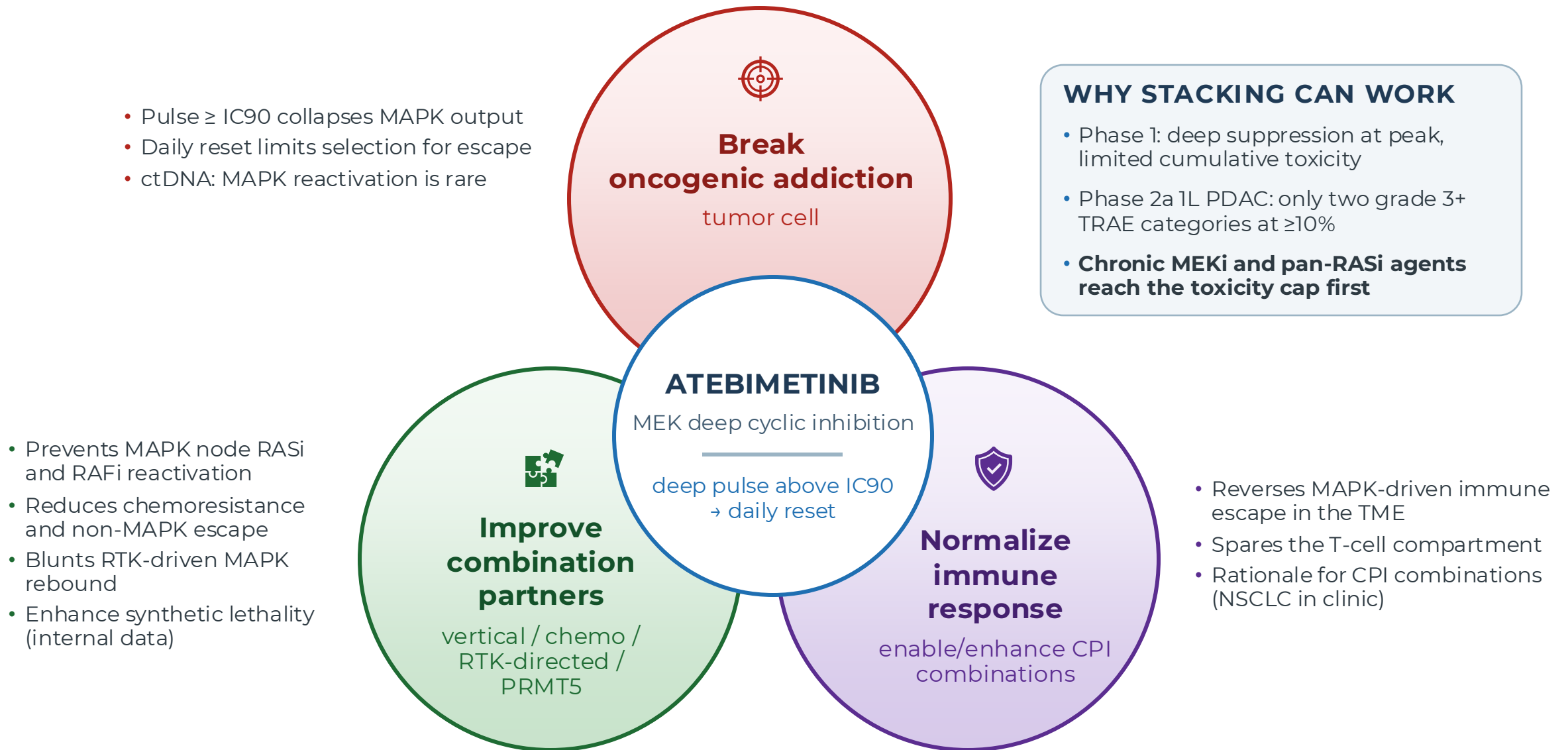
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Bedside-to-Bench for DCI-MEKi

Rational Combination Design

- **Rationale:** ctDNA points escape away from MAPK; so, combine orthogonally
 - **Design:** chemotherapy combination first, then immunotherapy and vertical partners
-

Atebimetinib Combination Potential: Stacking MoA's



Combination Optionality: Vertical, Immune, Orthogonal

Monotherapy

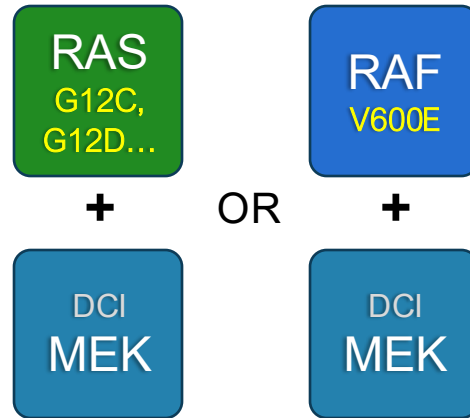
Pulsatile
MAPK Pathway
Inhibition



Ideal: In patients with broad MAPK pathway addiction

Vertical Combinations

Selective
Vertical Drug
Combinations



Goal: Greater Depth & Durability of Response

Immune Modifying Combinations

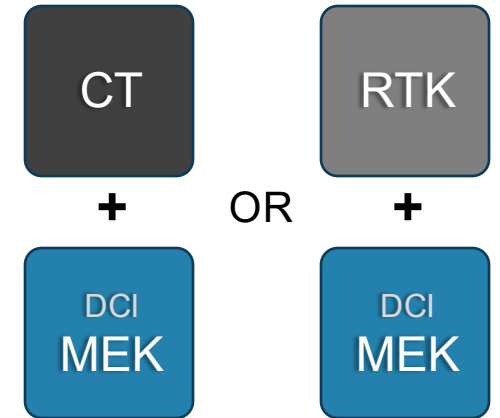
Dual-targeting of
Tumor & Immune
System



Goal: Break MAPK Addiction; Enhance Antitumor Immunity

Orthogonal MoA Combinations

Non-overlapping
Mechanism of Action
Combinations



Goal: Expand & Improve Overall Antitumor Response

Tolerability headroom is what makes these pairings feasible

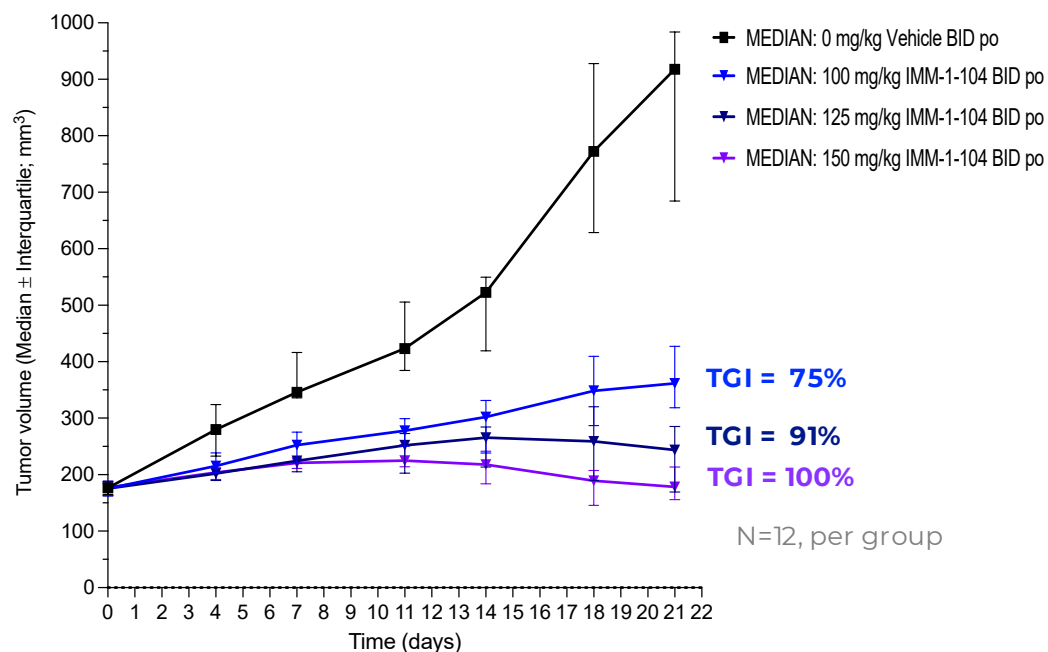
The DCI Pulse Is Not a Compromise: Atebimetinib vs. binimetinib in NRAS-Q61R SK-MEL-2 melanoma

Deep cyclic MEK inhibition reached TGI of 100% vs. 35% for chronic binimetinib

DCI
MEK

Atebimetinib (IMM-1-104)

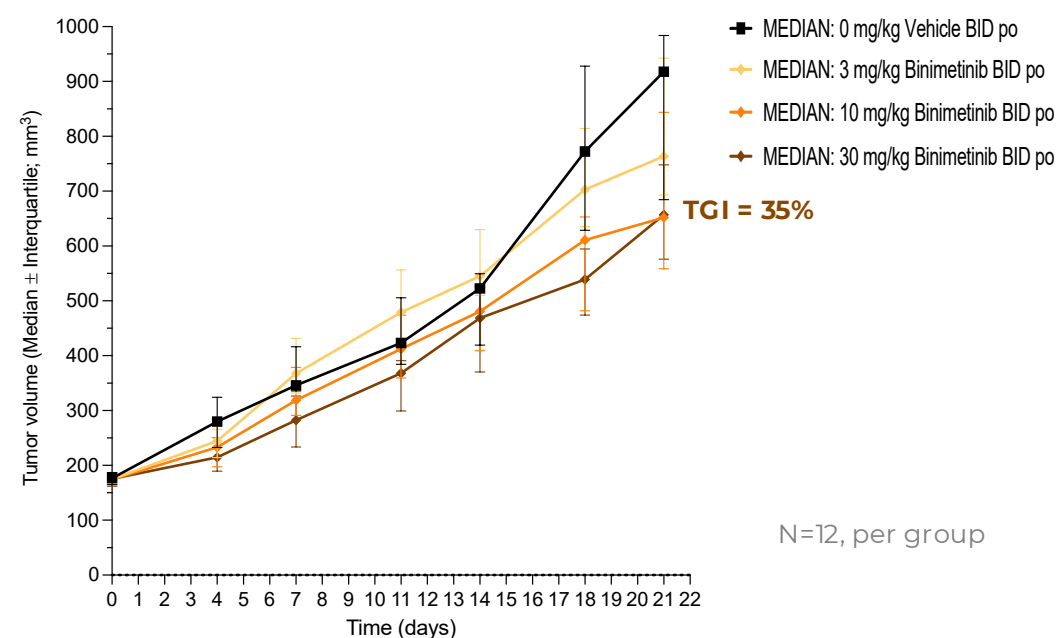
(100-125-150 mg/kg BID p.o.)



Chronic
MEK

Binimetinib

(3-10-30 mg/kg BID p.o.)



SK-MEL-2 (NRAS-Q61R) Melanoma Xenograft Tumor Model in Athymic Nude Mice

King, et al. 2022 AACR Special Conference: Targeting RAS (Lake Buena, FL)

Binimetinib was commercially purchased

Vertical Combination, Proven: Atebimetinib + Sotorasib

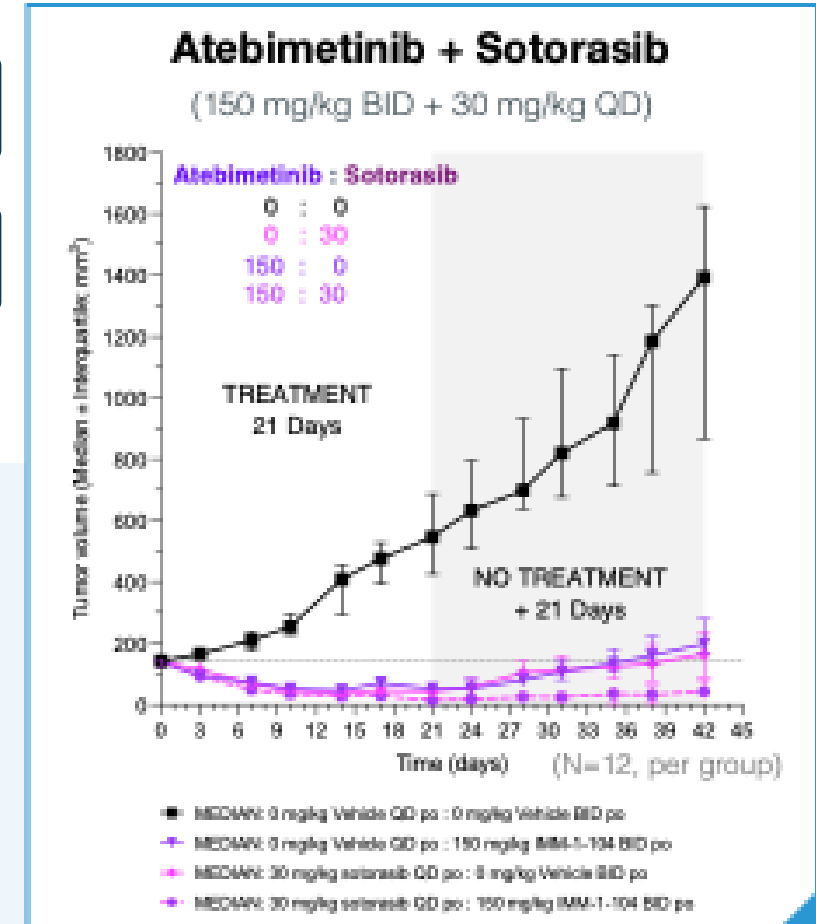
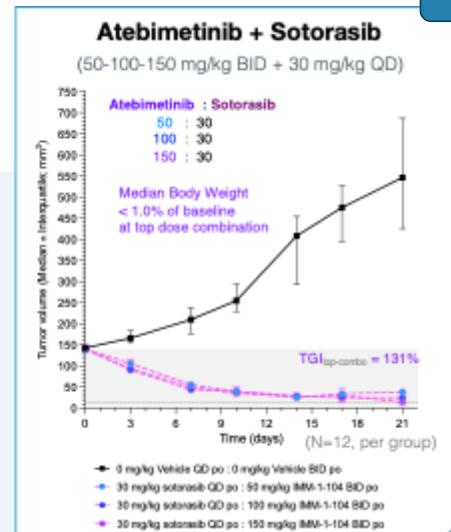
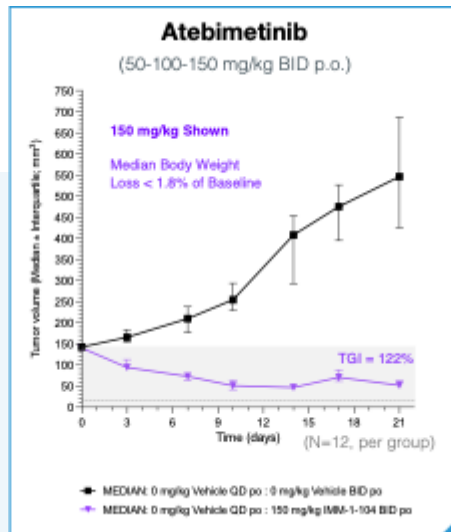
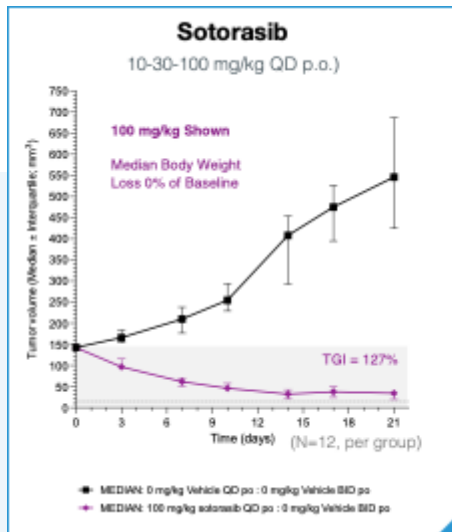
Deeper, more durable regressions than either agent alone, with minimal body-weight loss

KRAS^{G12C} PANC

**RAS
G12C**

+

**DCI
MEK**

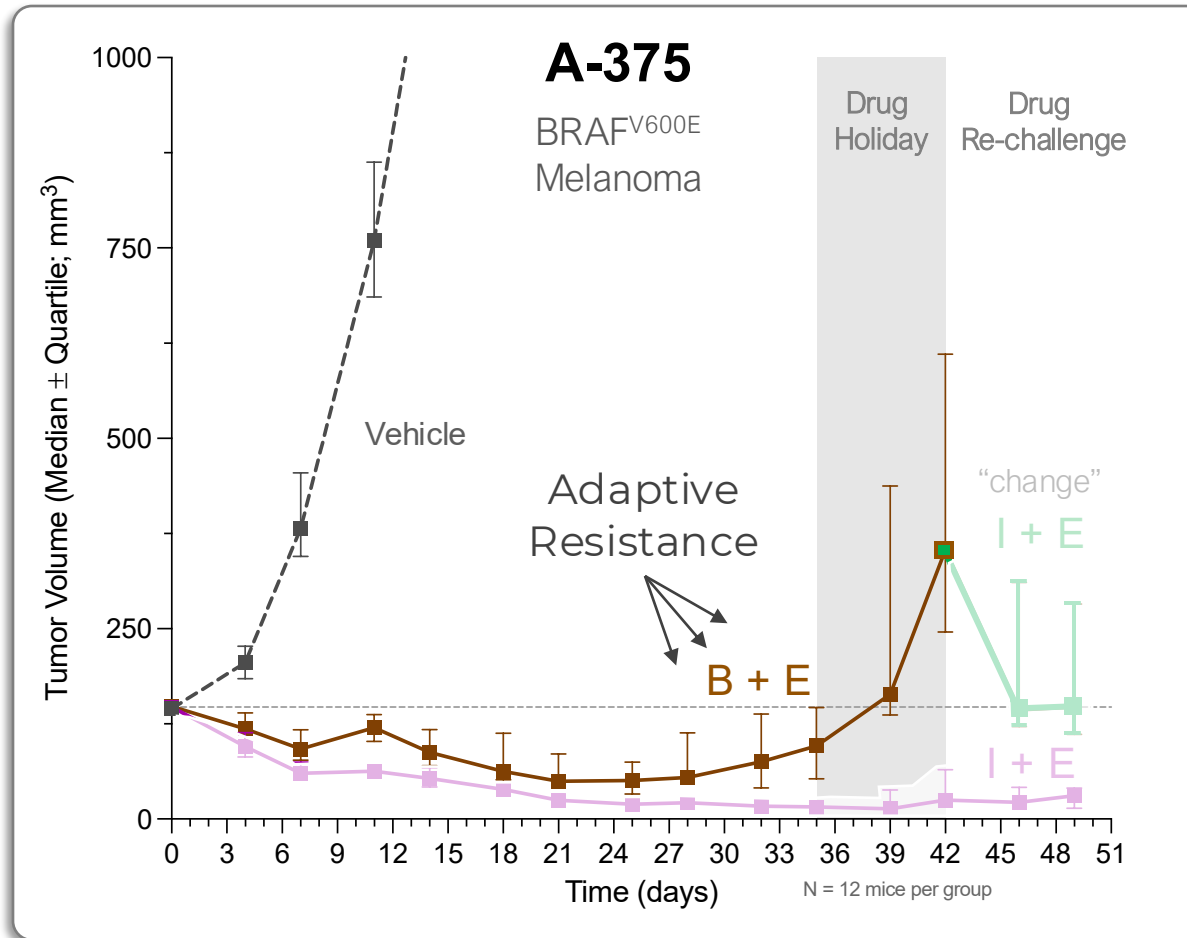


➤ MIA PaCa-2 (KRAS^{G12C}) Pancreatic Xenograft Tumor Model in Athymic Nude Mice

➤ Sotorasib was commercially purchased

Tumor Growth Inhibition (TGI) % = $[1 - (T_i - T_0)/(C_i - C_0)] \times 100\%$
Expanded TGI formula vs. previous $1 - [T/C] \times 100\%$ method

Vertical Combination, Proven: DCI MEKi + BRAFi Outperforms Chronic MEKi + BRAFi in BRAF-Mutant Melanoma



BRAF^{V600E} MEL

RAF
V600E

+

DCI
MEK

VS.

RAF
V600E

+

Chronic
MEK

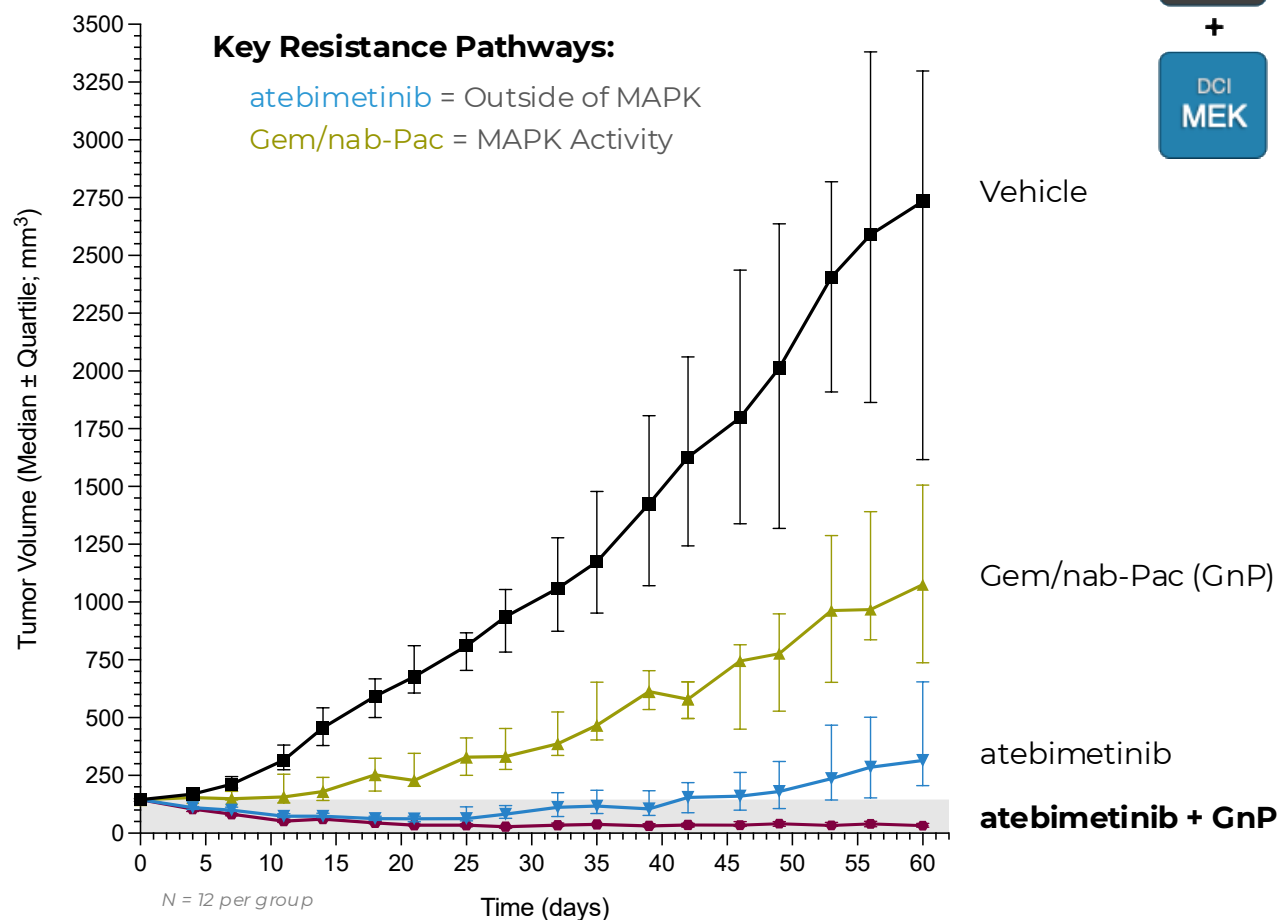
- Vehicle
- ◆ (B) 3.5 mg/kg BID PO + (E) 60 mg/kg QD PO
- (I) 180 mg/kg BID PO + (E) 60 mg/kg QD PO
- Replace → I+E after holiday → (I) 180 mg/kg BID PO + (E) 60 mg/kg QD PO

A-375 Melanoma BRAF^{V600E} xenograft tumor models in athymic nude mice. Binimetinib (MEK inhibitor) and encorafenib (BRAF inhibitor) were commercially purchased. Tumor Growth Inhibition (TGI) % = $[1 - (Ti - To) / (Ci - Co)] \times 100\%$. No median body weight loss was noted.

Deep, Durable Responses: Atebimetinib + Gem/nab-Pac

MIA PaCa-2: Human PDAC Xenograft

Atebimetinib + GnP: deepest, most durable control



King et al., AACR 2024 — near-complete responses in most animals

(104) atebimetinib = 125 mg/kg BID PO
(G) gemcitabine = 60 mg/kg IP Q4D
(P) nab-Paclitaxel = 10 mg/kg IV Q4D

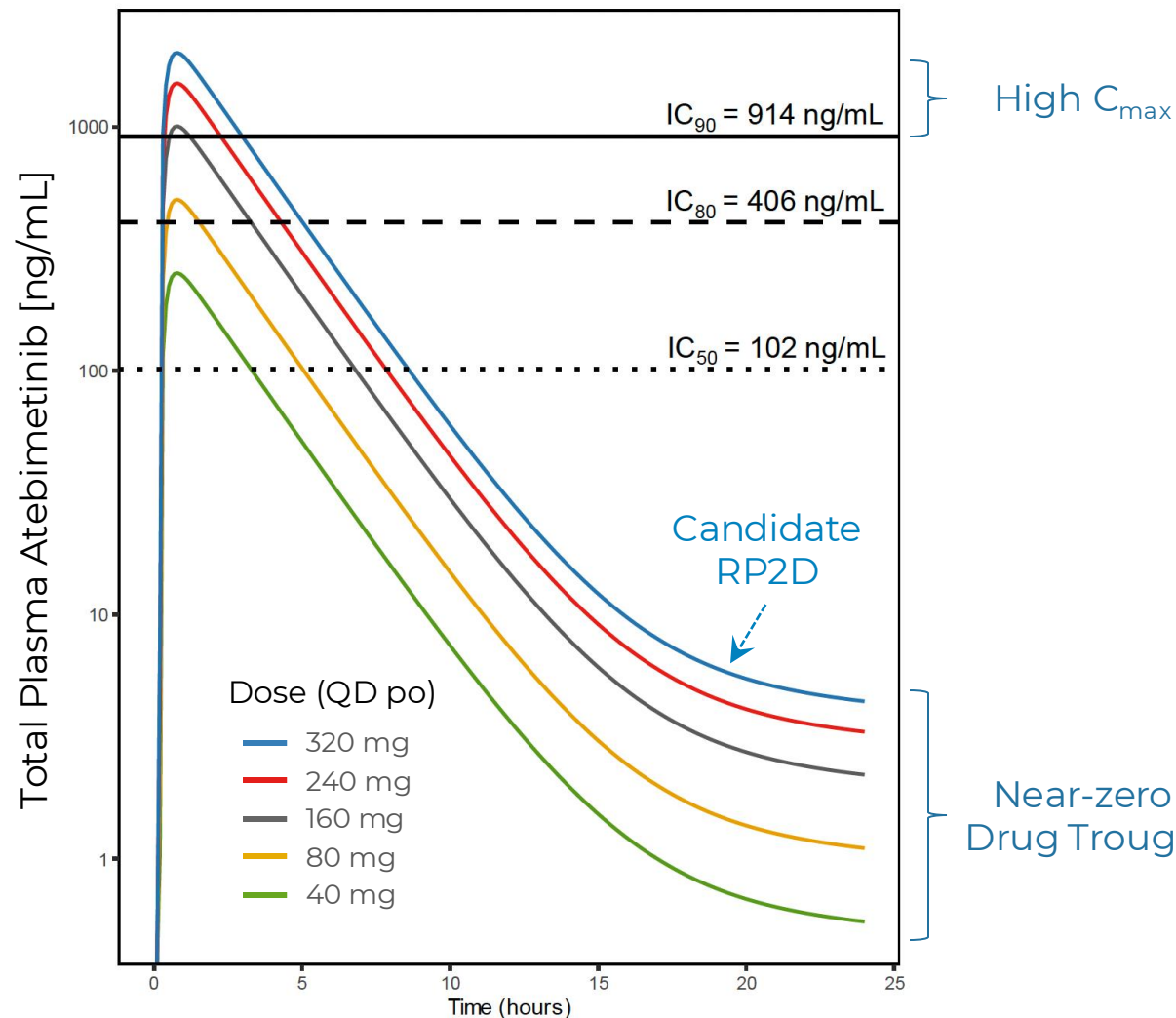
DCI-MEKi Clinical Translation

Atebimetinib PK/PD (Phase 1)

- **Question:** does the pulse reach $\geq$ IC90 and clear in patients?
 - **Readout:** time above pERK IC90, trough depth, tolerability
-

The DCI Pulse: >90% Inhibition, Near-Zero Trough

Topline PK/PD Data for atebimetinib



Deep Cyclic Inhibition (DCI) Profile
Maximized at Candidate RP2D of 320 mg

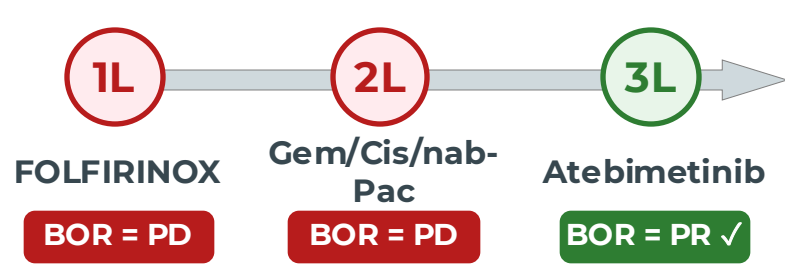
- Longer time above pERK IC_{90} at 320 mg (2.7 hr) vs. 240 mg (1.9 hr)
- Lower variance in PD (p-ERK) profiles at 320 mg vs. 240 mg

Both DCI requirements met in patients: a deep pulse above IC_{90} , then daily clearance

Modeled typical profiles based on 19 patients of atebimetinib plasma concentrations (ng/mL) versus time (h) on a semilogarithmic scale for the different dose groups. Direct measure of time above PD IC_{level} does not consider k_{off} PD shadow. Approximately dose linear from 40 to 320 mg PO QD; no drug accumulation. Tight relationship observed between plasma concentrations and phosphorylated ERK (p-ERK) to total ERK (t-ERK) ratios; Longer time above pMEK IC_{90} at 320 mg (4.0 hr) vs. 240 mg (3.3 hr)

27+ Months PFS on Atebimetinib Monotherapy (3L PDAC)

Durability without a single grade 3+ event; the DCI thesis in one patient



Baseline
SLD =
18.6 cm

KEY CLINICAL OUTCOMES

27 months

on treatment
at data cutoff

-85%

Ongoing tumor
burden reduction

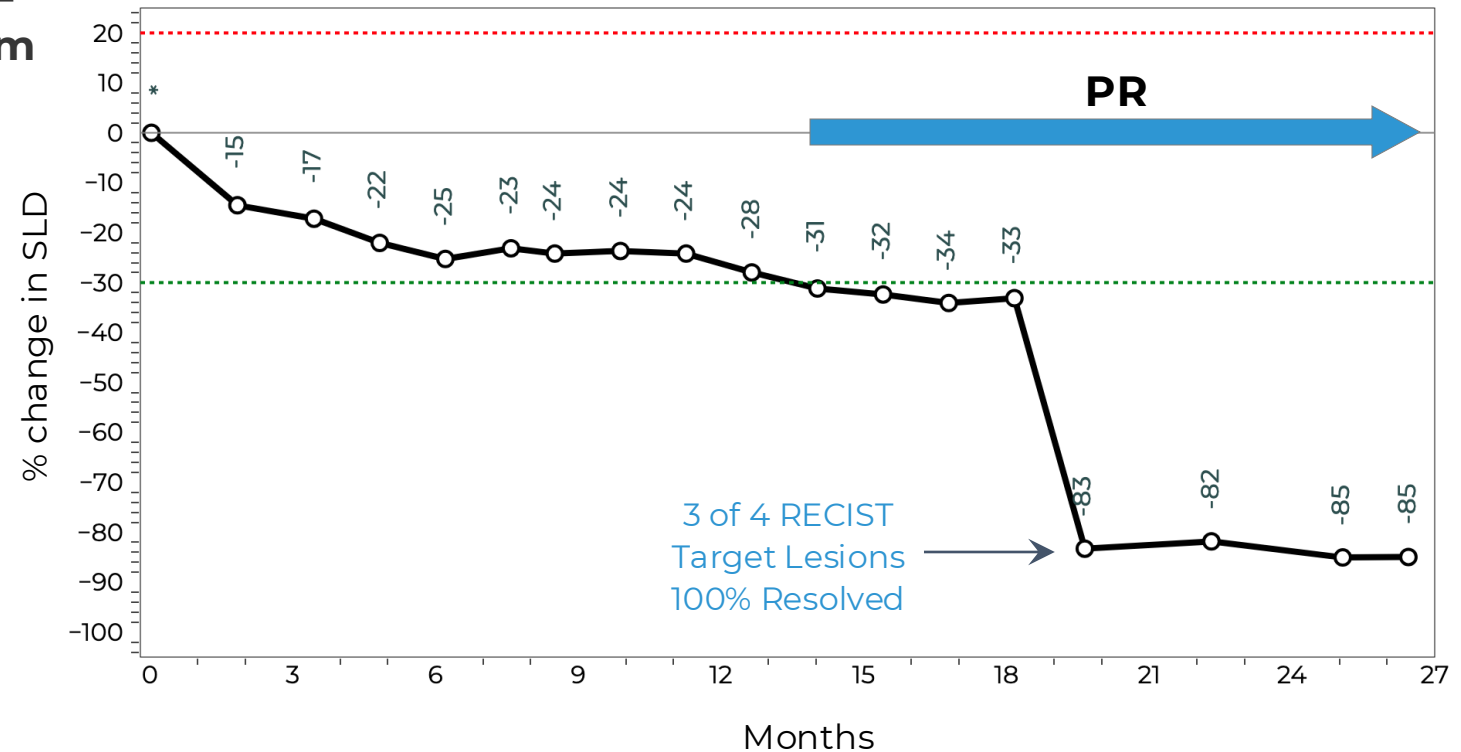
3

of 4 target lesions fully
resolved (1 bone + 2 liver)

+14% Weight

+ 23 lb / QoL Improved on
PRO instrument

No Grade 3+ Adverse Events



70 year old male patient with KRAS G12D mutant tumor treated at 240 mg QD p.o. Based on interim data collection from Phase 1 dose expansion as of May 5, 2026 from an ongoing Phase 1/2a trial of atebimetinib. In addition to the 3 target lesions, one non-target lesion in the pancreas has fully resolved. Data subject to follow-up and database updates.

Clinical ctDNA: Under DCI, MAPK Reactivation Is Uncommon

Serial ctDNA in 86 patients on atebimetinib monotherapy and 37 on first-line PDAC combination therapy

ATEBIMETINIB (DCI MEKi)

pulsatile MEK inhibition with daily reset

RTK

RAS

RAF

MEK

ERK

Pathway output **CONSTRAINED** at MEK

- On-treatment variants infrequent, with little early enrichment for canonical RAS/MAPK resistance
- No dominant MAPK-reactivation signature: no enriched RAS pathways in PDAC monotherapy or combination
- Acquired events heterogeneous, skewing to cell-cycle/DDR, MYC and TERT/PLK3 biology

CHRONIC RAS-DIRECTED THERAPY

pan-, multi- and mutant-selective agents

RTK

RAS

RAF

MEK

ERK

Pathway output **RESTORED** upstream of MEK

- Emergent alterations converge on RAS/MAPK restoration
- KRAS secondary mutations and amplification, NRAS, BRAF, MAP2K1, NF1 loss, RTK amplification
- Escape is recurrent and convergent across agent classes
- Daraxonrasib: RAS-pathway alterations in 59% of patients at end of treatment

IMPLICATION: with the MAPK exit constrained, combination optionality stays open; vertical (mutant-selective RAS or RAF) and orthogonal (chemotherapy, immunotherapy, RTK-directed)

Kim et al., AACR 2026 #1873 (Figures 1–4); Phase 1/2a NCT05585320; Aronchik et al., Nat Med 2026. Single-arm data for atebimetinib

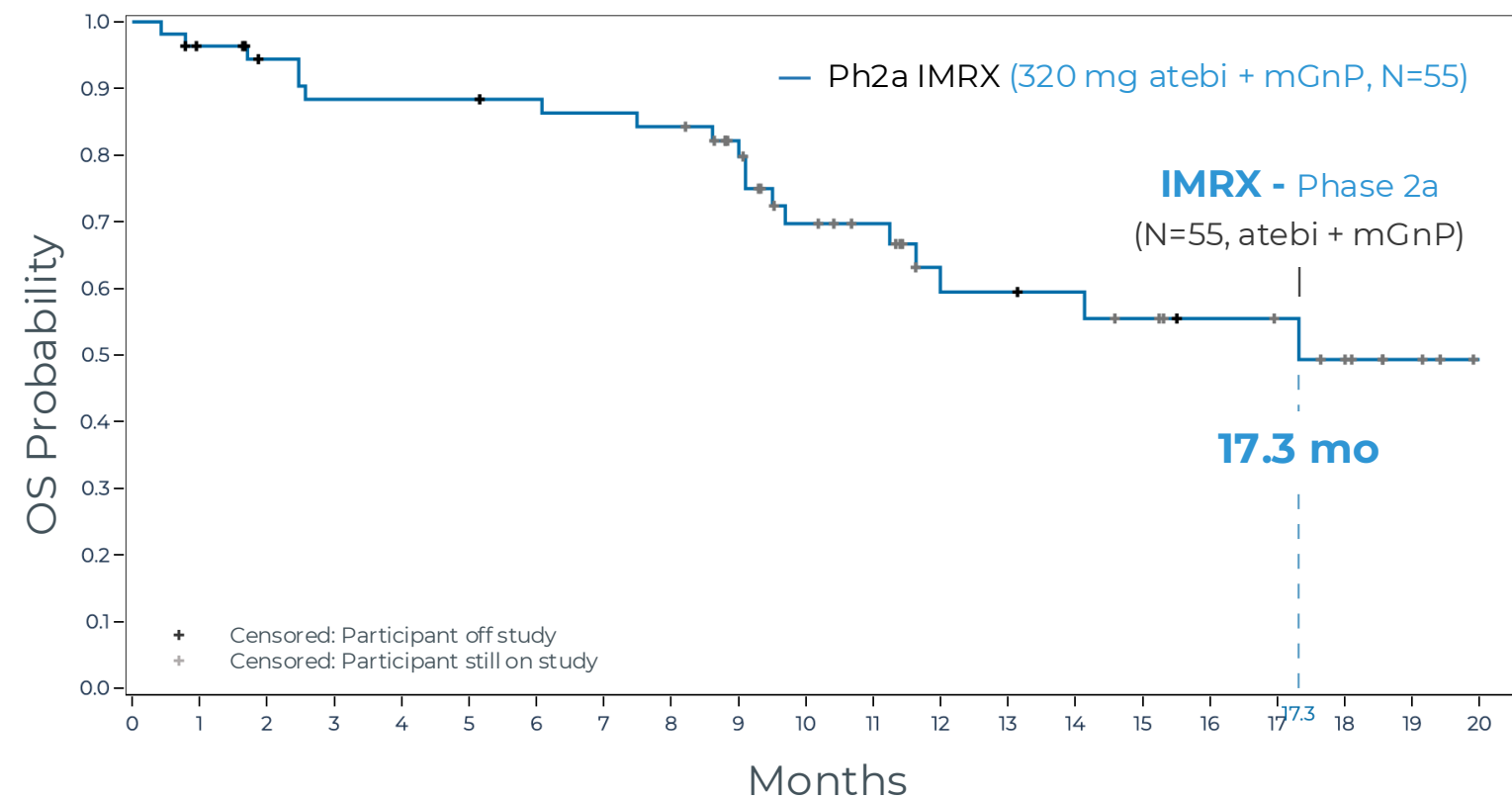
Clinical Impact of DCI MEKi

Atebimetinib + chemotherapy (1L PDAC)

- **Question:** does tolerability headroom convert into combination benefit?
 - **Readout:** OS, PFS, ORR/DCR against Gem/nab-Pac benchmarks
-

Compelling Survival and Tolerability in First Line Pancreatic Cancer

Phase 2a | Atebimetinib + mGnP: OS 17.3 vs 8.5 mo (GnP), N=55



	Atebi + mGnP																				
At risk	55	51	47	44	44	44	43	42	41	35	26	23	16	16	15	13	10	9	7	3	0
Events	0	2	3	6	6	6	6	7	8	9	14	14	17	17	17	18	18	18	19	19	19
Censored	0	2	5	5	5	5	6	6	6	11	15	18	22	22	23	24	27	28	29	33	36

Median OS (months)	
Atebimetinib + mGnP (N=55)	17.3

Only 2 categories of TRAE
grade ≥3 in ≥10% of
participants, both
chemotherapy related



Phase 3 Now Recruiting,
[NCT07562152](https://clinicaltrials.gov/ct2/show/study/NCT07562152)

As of the April 24, 2026 data cutoff, the median follow-up was 11.6 months (N=55) as estimated by the reverse Kaplan–Meier method.
ASCO 2026 Chung, Vu, et al.

Separation from Gem/nab-Pac Benchmarks Across Every Endpoint

	Atebimetinib + mGnP (N = 55)	GnP (MPACT)
Median OS (months)	17.3 [11.2, NR]	8.5
Median PFS (months)	8.3 [5.9, 9.6]	5.5
ORR*	36%	23%
DCR*	82%	48%
Participants weight stable or gained weight at 3 months**	84%	NR

Primary Endpoint for Phase 3 trial is Overall Survival (OS). Secondary endpoints include progression-free survival (PFS), disease control rate (DCR), overall response rate (ORR) and Quality of Life (QoL).

* N=50 of response evaluable patients. Atebimetinib dosed at 320 mg. Scans occur approx. every 6 weeks. Patients that progressed without complete radiographic scans are not presented in graph but are counted in ORR/DCR analyses. Patients with baseline and at least one on-treatment assessment were considered evaluable.

** Weight observations from participants with weight data at ~3 mo and C1D1; weight stable defined as within 5%.

No head-to-head clinical trial has been conducted evaluating atebimetinib and other candidates or products. Differences exist between trial designs, subject characteristics and other factors, and caution should be exercised when comparing data across studies. Pivotal Ph3 Study MPACT 2013 NEJM (PMID: 24131140)

MAPKeeper 301: Global Randomized Phase 3 Pivotal Trial Underway

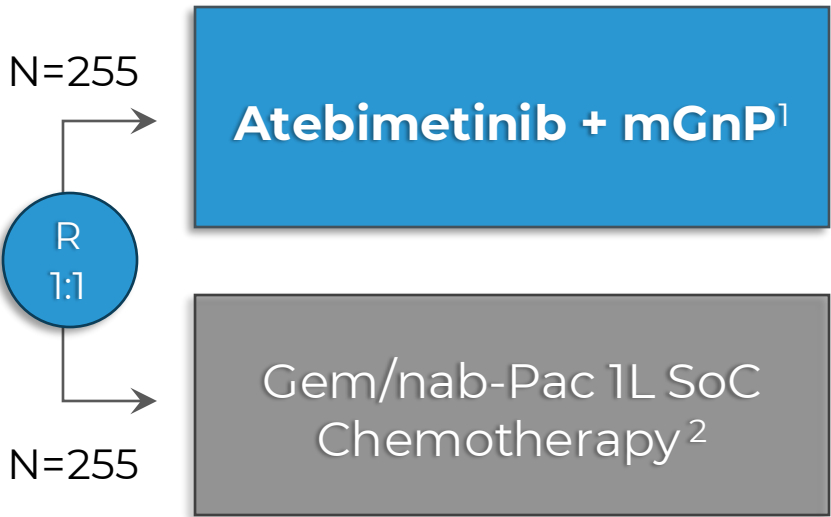
NCT07562152 | recruiting

A definitive randomized test of the DCI hypothesis in 1L metastatic PDAC

Participant Population: First-line (1L) metastatic Pancreatic Ductal Adenocarcinoma (PDAC)



- First line (1L) PDAC
- Metastatic setting
- ECOG PS 0-1



Primary Endpoints
OS
Secondary Endpoints
PFS
DCR
ORR
QoL

(R) = Randomization Stratification Factors: (1.) Geography (US vs. ROW), (2.) Liver Metastasis (present vs. absent), (3.) ECOG PS: 0 vs. 1, (4.) Denovo vs Recurrent Metastatic

SOC chemotherapy options: full schedule Gemcitabine + nab-Paclitaxel. SOC = standard of care; R = randomize; PFS = progression-free survival; OS = overall survival; ORR = overall response rate; DCR = disease control rate; QoL = Quality of Life

(1) mGnP = 1,000 mg/m2 (Gem) + 125 mg/m2 (nab-Pac) days 1 & 15, every 4 weeks
(2) SOC chemotherapy = full schedule Gemcitabine + nab-Paclitaxel (3 wk on/1 wk off)

DCI: Foundation for Durable, Safe and Combination-ready Oncology

Constraining MAPK Escape, Preserving Combinability

- **What the data support:**

- Any scope of chronic RAS blockade leads to escape by convergence on MAPK reactivation
- In contrast, DCI delivers pulsatile MAPK pathway inhibition at MEK and rare MAPK escape
- Tolerability headroom converted: 17.3 vs. 8.5 months median OS in 1L PDAC

- **What remains to be tested:**

- MAPKeeper 301 randomized readout (NCT07562152) vs. standard of care
- Pulsatile PK vs. dual-MEK binding as the causal drivers
- Non-MAPK escape routes: PI3K/AKT, YAP/TAZ, FGFR

- **Where DCI is heading next:**

- Vertical (RASi, RAFi) and orthogonal (chemo, IO, RTKi) combinations
- DCI at other pathway nodes, and tumor-specific sensitivity signatures

Thank you!



Special thanks to patients and caregivers who make this research possible;
To investigators and clinical teams for their dedication;
To my colleagues for their collaboration and insights;
To the event organizers for the invitation to speak today.

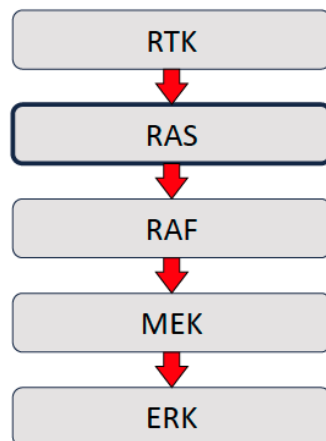
Appendix: Treatment-Acquired Mutation Patterns

Conventional: chronic RAS-targeted monotherapy

Common resistance under chronic RASi

- ↑ RTK (EGFR, HER2, FGFR)
- RAS^{amp/mut}
- NF1^{loss}
- BRAF^{mut}, MEK^{mut}
- PI3KCA^{mut}, PTEN^{loss}

RAS/MAPK axis



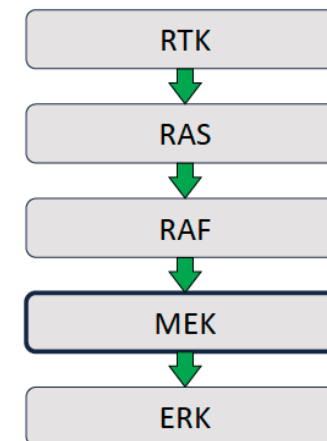
Pathway Output
Reactivated

Atebimetinib (MEK DCI): limited canonical escape

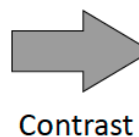
Clinical ctDNA profile (Figures 1-2)

- Sparse emergent canonical RAS/MAPK resistance
- Acquired events variable (not convergent on MAPK)

RAS/MAPK axis



Pathway Output
Constrained (DCI)



Pathway enrichment post-atebimetinib (Figure 3)

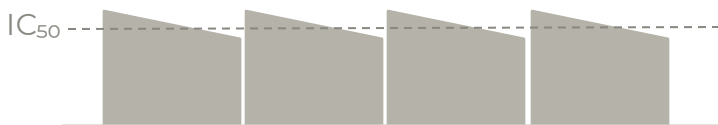
- Enriched: cell-cycle/DDR, stress pathways (heterogeneous)
- Resistance mechanism(s): diffuse, non-RAS/MAPK

Implication: Deep Cyclic Inhibition (DCI) of MEK preserves opportunity for optimized combinations



Immuneering's Deep Cyclic Inhibitor Technology: Engineering for Longer Survival with Fewer Tradeoffs

Conventional Wisdom: Chronic Inhibitors

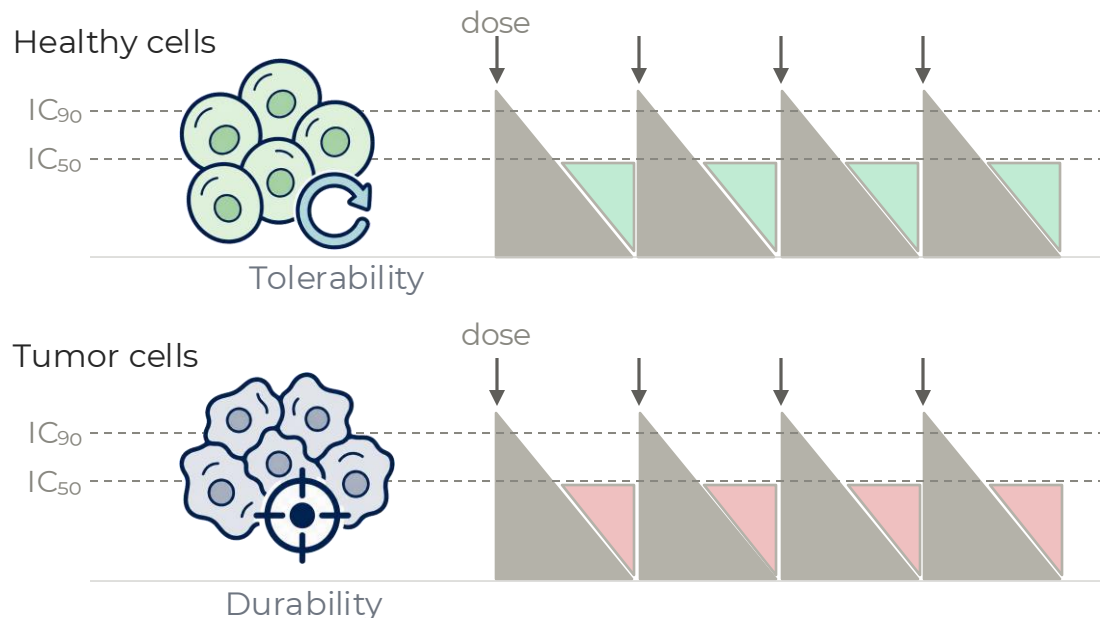


All cell signaling suppressed
= toxicity, resistance



Immuneering's Deep Cyclic Inhibitor Technology

Pulsatile $\geq IC_{90}$ Inhibition with Once-Daily Oral Dosing



1. Tolerability

 Provides Recovery Window for Healthy Cells

2. Durability

 Limits Adaptive and Acquired Resistance

High Free-Fraction C_{Max} , Fast Off Rate, Short Half Life (~2 hours)