



KINNATE

B I O P H A R M A

A Clinical-Stage Precision Oncology Company

Corporate Presentation
May 2023

Forward-Looking Statements

This presentation (including the accompanying oral presentation) contains forward-looking statements that involve substantial risks and uncertainties. All statements other than statements of historical facts contained in this presentation, including statements that state or imply that the results of our preclinical studies or clinical trials to date are predictive of future clinical trial results, that certain of our approaches to drug development will be successful, faster than other approaches, or have the highest probability of success for us, that our estimates of the timing of future IND filings, data releases, and similar events will be achieved, that our pipeline programs will achieve best-in-class status or provide predicted benefits, that our cash resources will be sufficient to achieve certain objectives and that the markets for certain drugs will remain large and that we will be able to successfully address these markets, our expectations regarding our preliminary and unaudited financial results, statements regarding our future financial condition, results of operations, business strategy and plans, and objectives of management for future operations, as well as statements regarding industry trends, are forward-looking statements. In some cases, you can identify forward-looking statements by terminology such as “anticipate,” “believe,” “continue,” “could,” “estimate,” “expect,” “intend,” “may,” “plan,” “potentially” “predict,” “should,” “will” or the negative of these terms or other similar expressions. We have based these forward-looking statements largely on our current expectations and projections about future events and trends that we believe may affect our financial condition, results of operations, business strategy and financial needs.

These forward-looking statements are subject to a number of risks, uncertainties, assumptions and other factors, including, among other things: operating as a clinical-stage biopharmaceutical company with a limited operating history; the timing, progress and results of ongoing and planned preclinical studies and clinical trials for our current product candidates; that continued dose escalation in our clinical trials could increase the risk of the occurrence of adverse events; the potential for future clinical trial results to differ from initial results or from our preclinical studies; our ability to timely enroll a sufficient number of patients in our clinical trials; our ability to raise additional capital to finance our operations; our ability to discover, advance through the preclinical and clinical development of, obtain regulatory approval for and commercialize our product candidates; the novel approach we are taking to discover and develop drugs; our ability to timely file and obtain approval of investigational new drug applications for our planned clinical trials; negative impacts of the COVID-19 pandemic on our business, including ongoing and planned clinical trials and preclinical studies; competition in our industry; regulatory developments in the United States and other countries; our ability to attract, hire and retain highly skilled executive officers and employees; difficulties in managing our growth; our ability to protect our intellectual property; reliance on third parties to conduct our ongoing and planned preclinical studies and clinical trials, and to manufacture our product candidates; general economic and market conditions; and other risks.

These and other risks, uncertainties, assumptions and other factors are further described under the heading “Risk Factors” in our Quarterly Report on Form 10-Q for the quarter ended March 31, 2023, as well as in our subsequent filings we make with the Securities and Exchange Commission (SEC). You may view our filings with the SEC at their website (www.sec.gov). New risk factors emerge from time to time and it is not possible for our management to predict all risk factors, nor can we assess the impact of all factors on our business or the extent to which any factor, or combination of factors, may cause actual results to differ materially from those contained in, or implied by, any forward-looking statements. Investors should not rely upon forward-looking statements as predictions of future events. Although we believe that the expectations reflected in the forward-looking statements are reasonable, we cannot guarantee future results, levels of activity, performance or achievements. Our forward-looking statements speak only as of the date of this presentation, and except as required by law, we undertake no obligation to update publicly any forward-looking statements for any reason after the date of this presentation. In addition, statements that “we believe” and similar statements reflect our beliefs and opinions on the relevant subject. These statements are based upon information available to us as of the date of this presentation, and while we believe such information forms a reasonable basis for such statements, such information may be limited or incomplete, and our statements should not be read to indicate that we have conducted an exhaustive inquiry into, or review of, all potentially available relevant information.

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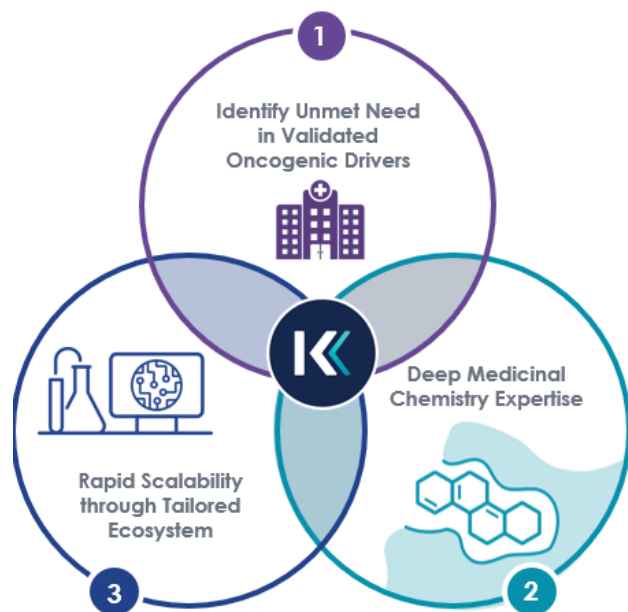
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Certain data in this presentation are based on cross-study comparisons and are not based on any head-to-head clinical trials. Cross-study comparisons are inherently limited and may suggest misleading similarities or differences.



Highly Productive Discovery Engine Optimized for Speed, Probability of Success

Platform Focused on Design and Development of Wholly-Owned and Potential Best-in-Class Molecules



In Five Years Since Founding...

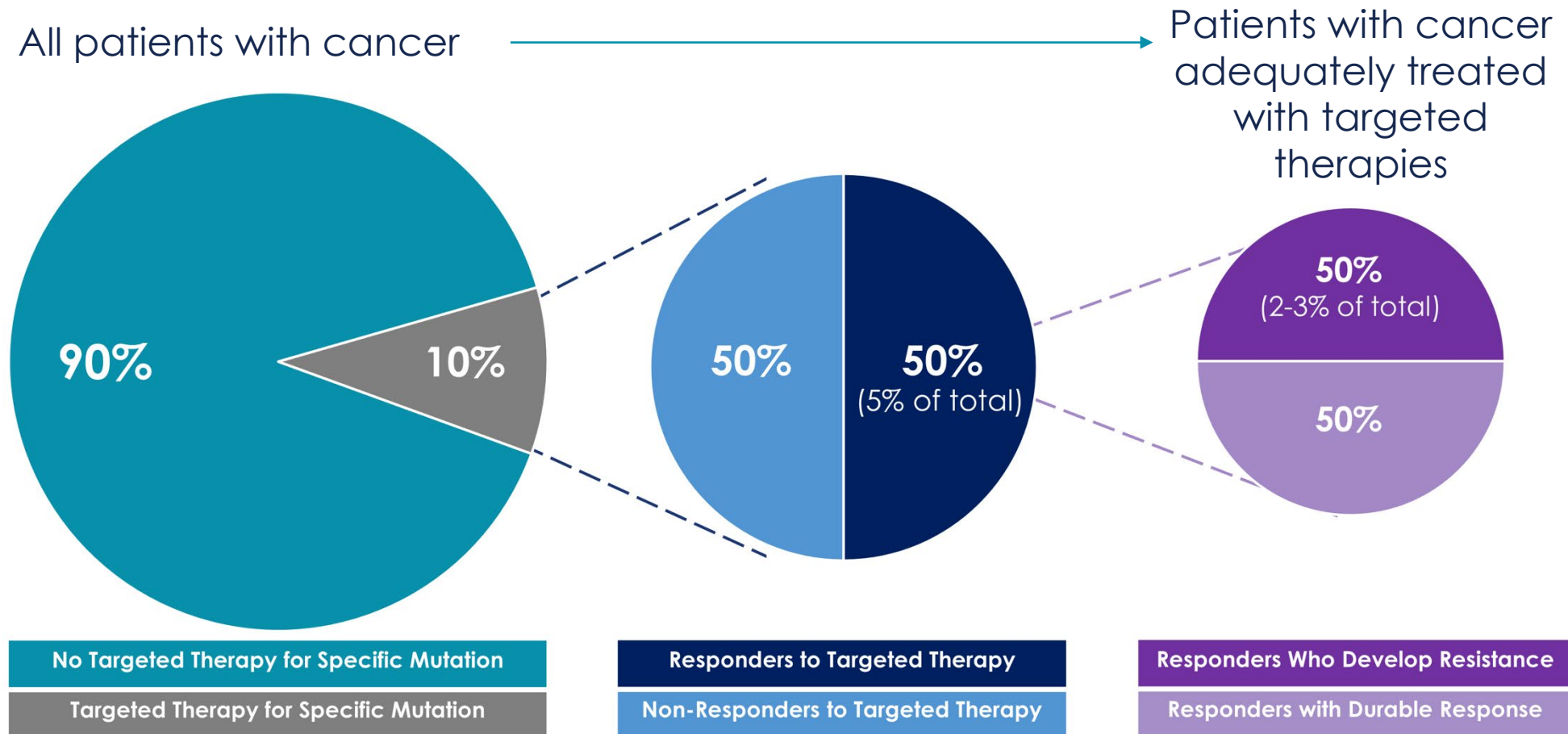
- Exarafenib – conceived, designed, DC/IND, delivered on FIH trial
- KIN-3248 – conceived, designed, DC/IND, now in clinic
- Third and fourth DCs generated from this engine
- Goal of one IND per year

**Well-capitalized to invest in innovation:
\$231.2 million cash on hand***



DC=drug candidate nomination; IND=investigational new IND; FIH=first-in-human
*Cash, cash equivalents and investments as of March 31, 2023

Expanding on the Promise of Targeted Therapies in Oncology



Multiple Ongoing Clinical, IND-Enabling and Discovery Programs

Target, Program	Study Name	Indications	Discovery	IND-Enabling	Phase 1a	Phase 1b	Phase 2/3	Anticipated Catalysts
Exarafenib RAF-Driven & Dependent	KN-8701	BRAF-Driven Advanced Adult Solid Tumors	Monotherapy					Dose Expansion Data in H1 2024
		Advanced NRAS Mutant Melanoma	Combination with Binimetinib					Expansion Dose Selection in H2 2023
KIN-3248 FGFR2/3-Driven	KN-4802	Naïve + Pre-treated FGFR2/3 Driven Advanced Adult Solid Tumors						Initial Clinical Data in H2 2023
KIN-7136 Brain Penetrant MEK		MAPK-Driven Advanced Adult Solid Tumors	Monotherapy & Combination with Exarafenib					Expect to Enter Clinic in H2 2023
KIN-8741 c-MET, Covers Acquired Resistance		c-Met-Driven Advanced Adult Solid Tumors						Expect to Enter Clinic in H1 2024
KIN-004 CDK12		Adult Solid Tumors						Exploring Strategic Alternatives
Multiple Undisclosed Leads in Research Stage, Goal of 1 IND a Year								

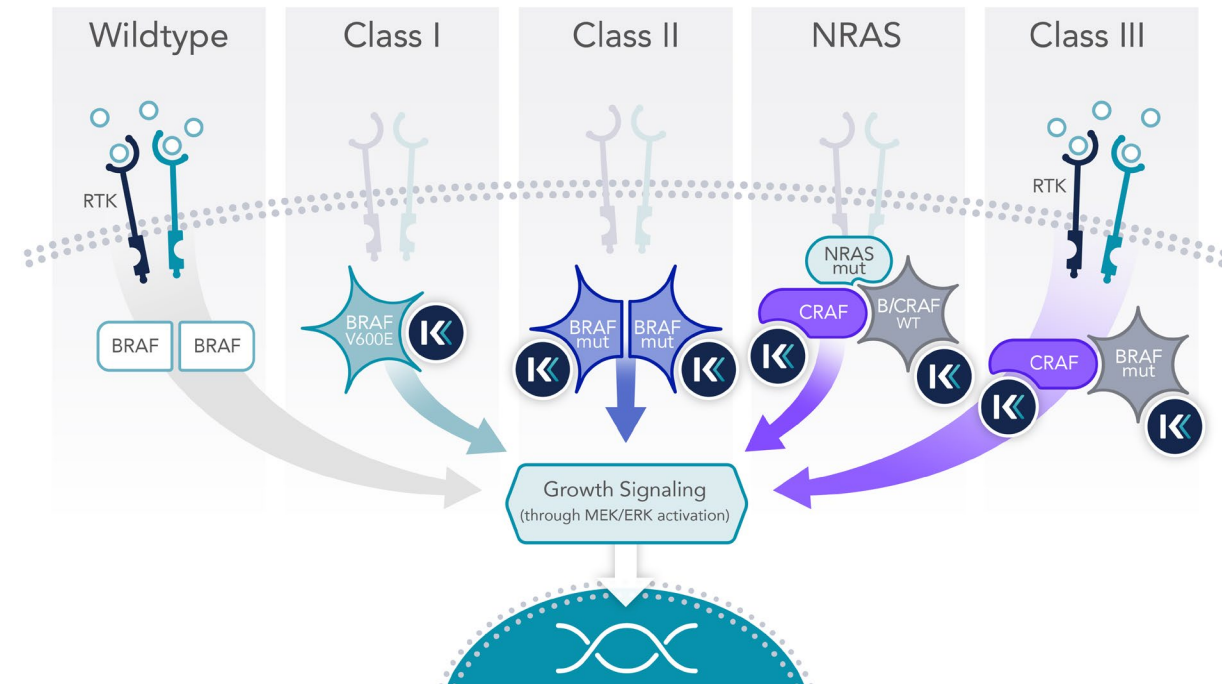
RAF Program

Exarafenib (KIN-2787)



Patients With Tumors Harboring BRAF or NRAS Represent a Broad Population With Significant Unmet Need^{1,2}

- BRAF Class II/III alterations comprise more than half of oncogenic BRAF alterations^{1,a}
 - Estimated to occur in 2.1% of solid tumors²
 - Most common in NSCLC, CRC, melanoma, and prostate cancer²
- BRAF Class II/III alterations are associated with poorer clinical outcomes than Class I²
 - Median OS was shorter for patients with NSCLC or melanoma with Class II/III vs Class I alterations¹
- NRAS mutant melanoma is a RAF dependent cancer, representing ~20-25% of melanoma³
 - These patients also have poor clinical outcomes⁴
- No approved targeted therapies for tumors with BRAF Class II/III alterations and NRAS mutant melanoma^{1,2}



	Class I	Class II	Class III
% of BRAF-pos ^a	45%	26%	28%

^a Based on a real-world analysis of 5896 pts with metastatic/advanced cancers harboring BRAF alterations from a clinical database of 160,000+ pts profiled by the Guardant360[®] assay. Multiple BRAF alterations were identified in 1.8% of pts (107/5896). ^b Median OS from metastatic diagnosis of NSCLC (n=938) or melanoma (n=333). 1. Severson P, et al. Poster presented at: 2022 AACR Annual Meeting; April 8–13; New Orleans, LA. Abstract 4122. 2. Severson P, et al. Poster presented at: ESMO Targeted Anticancer Therapies Congress 2022. March 7–8 [Virtual]. Abstract 40P. 3. Genomic data generated from AACR GENIE Project Data: Version 10.0-public Powering Precision Medicine Through An International Consortium. Cancer Discov 7(8): 818-831, 2017 (<https://genie.cbioportal.org/>); 4. Dummer et al., The Lancet, 2017.



Exarafenib Achieved Monotherapy MTD With Best-in-Class Profile¹

Substantial exposures achieved with monotherapy

- MTD at 300 mg bid
- ~19x free AUC vs. belvarafenib
- At least 5-fold coverage of the IC50 in Class II cell lines

Generally well-tolerated with only 3% (n=2) drug-related discontinuations

- 95% avg dose intensity at 300 mg bid
- Limited GI AEs, ~3% Grade 2+
- ~18% Grade 3+ drug-related AEs
- No evidence of paradoxical activation at therapeutically relevant exposures

Promising early efficacy, especially in priority BRAF Class II and NRAS subtypes

Overall

- 6 total PRs, including 5 RECIST confirmed
- 30% ORR in Class II & NRAS* (3 of 10) at 300 mg bid
- Deep response: avg 61% tumor reduction and 7 months DoT in responders

Class II

- 33% (1 of 3) ORR at 300 mg bid
- 71% (5 of 7) tumor reduction across doses
- 86% (6 of 7) DCR across doses

NRAS

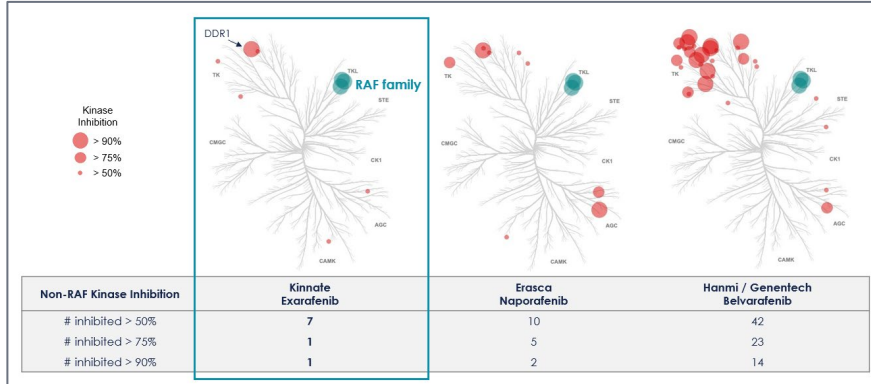
- 29% (2 of 7) ORR at 300 mg bid*



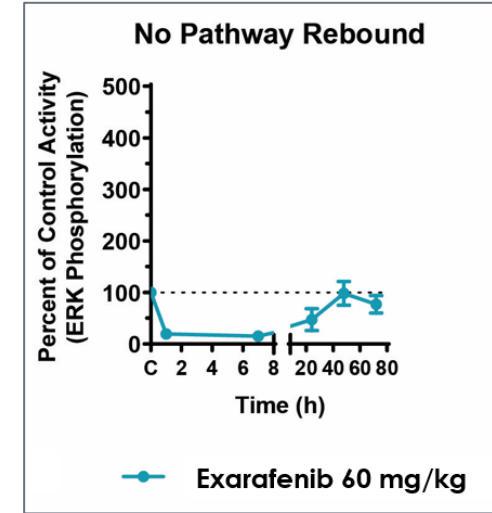
¹Data cut as of Feb 28, 2023. *Includes NRAS patient with co-occurring BRAF alteration
bid=two times daily; AUC=area under the curve; AE=adverse events; GI=gastrointestinal; PR=partial response; ORR=overall response rate; DCR=disease control rate; DoT=duration of therapy

Unique Structural Attributes and Substantial Preclinical Evidence Support the Case for Exarafenib's Best-in-Class Profile

Selective drug



Equipotent inhibition



Broad alteration coverage

BRAF Status	Tumor Cell Line	Lineage	MAPK Pathway Alteration(s)	pERK Inhibition EC50 (nM)			
				Pfizer Binimetinib	Erasca Naporafenib	Hanmi / Genentech Belvarafenib	Kinnacle Exarafenib
Class I	A-375	Melanoma	BRAF ^{V600E}	7	171	67	67
	Colo800	Melanoma	BRAF ^{V600E}	6	242	108	112
Class II	BxPC-3	Pancreatic	BRAF ^{G469V} /KMT5P	3	32	42	51
	OV-90	Ovarian	BRAF ^{G469V} /KMT5P	4	24	22	26
Class III	NCHH2405	NSCLC	BRAF ^{G469V} /KMT5P	6	5	8	10
	WM3629	Melanoma	BRAF ^{D594G} , NRAS ^{G12D}	5	6	4	9
	CAL-12T	NSCLC	BRAF ^{G469V}	3	19	41	18
	NCHH358	NSCLC	BRAF ^{WT} , KRAS ^{G12C}	1	153	303	351
Wild Type (WT)	CHL-1	Melanoma	BRAF ^{WT} , NRAS ^{WT}	5	291	443	580
	BJ	Normal fibroblast	Wild type	31	4686	2923	7963

Kinase	Exarafenib IC50 (nM)
CRAF	0.573
BRAF ^{V600E}	1.53
ARAF	2.41
BRAF	3.46

Superior drug properties

	Erasca Naporafenib	Hanmi / Genentech Belvarafenib	Kinnacle Exarafenib
Human Plasma Free Fraction (%)	<1	<1	7
Aqueous Solubility (uM):			
pH = 2	50	266	312
pH = 4.5	7	0.4	196
pH = 7.4	6	0.1	29

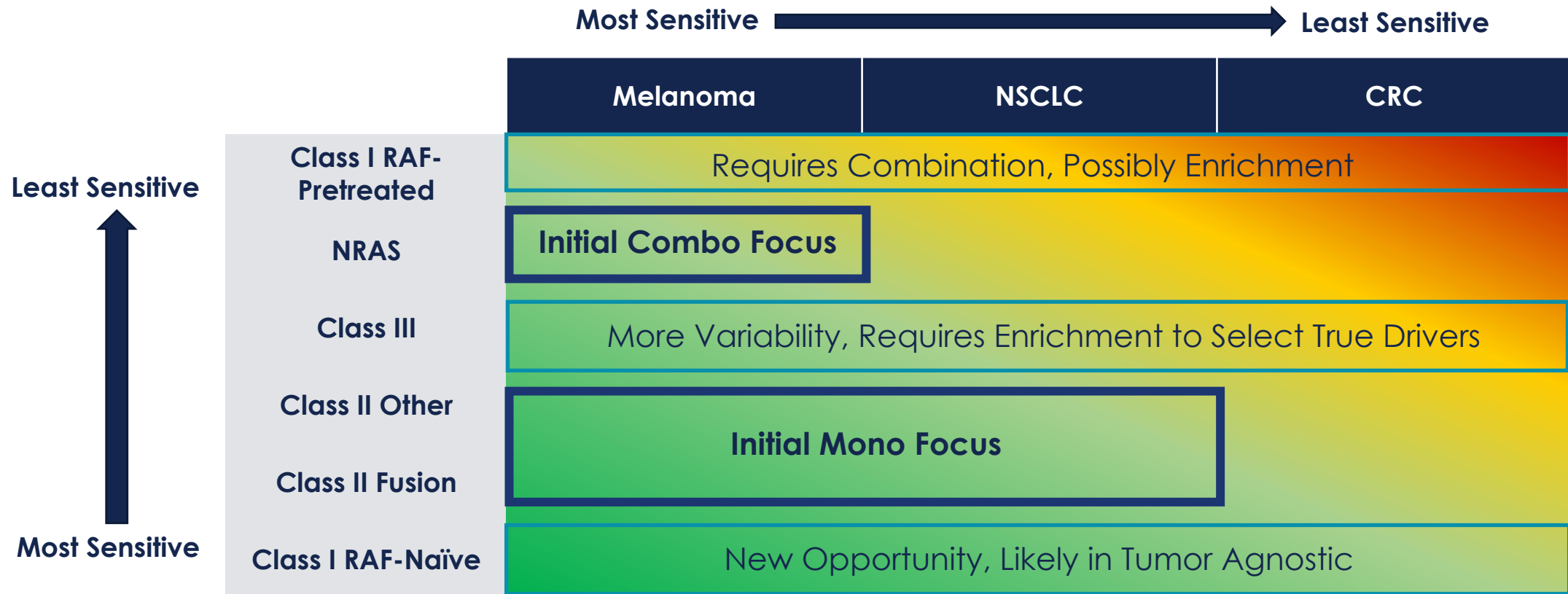
Exarafenib is designed to achieve the optimal product profile needed for BRAF-driven cancers



Based on Kinnacle generated data. Certain data on this slide are based on cross-study comparisons and are not based on any head-to-head clinical trials. Cross-study comparisons are inherently limited and may suggest misleading similarities or differences.

Exarafenib Clinical Data Provides Initial Validation of Predicted Sensitivity to BRAF Inhibition

Alteration and Tumor Types Continue to Inform How Sensitive Patient Will Be to Pan-RAF Therapy

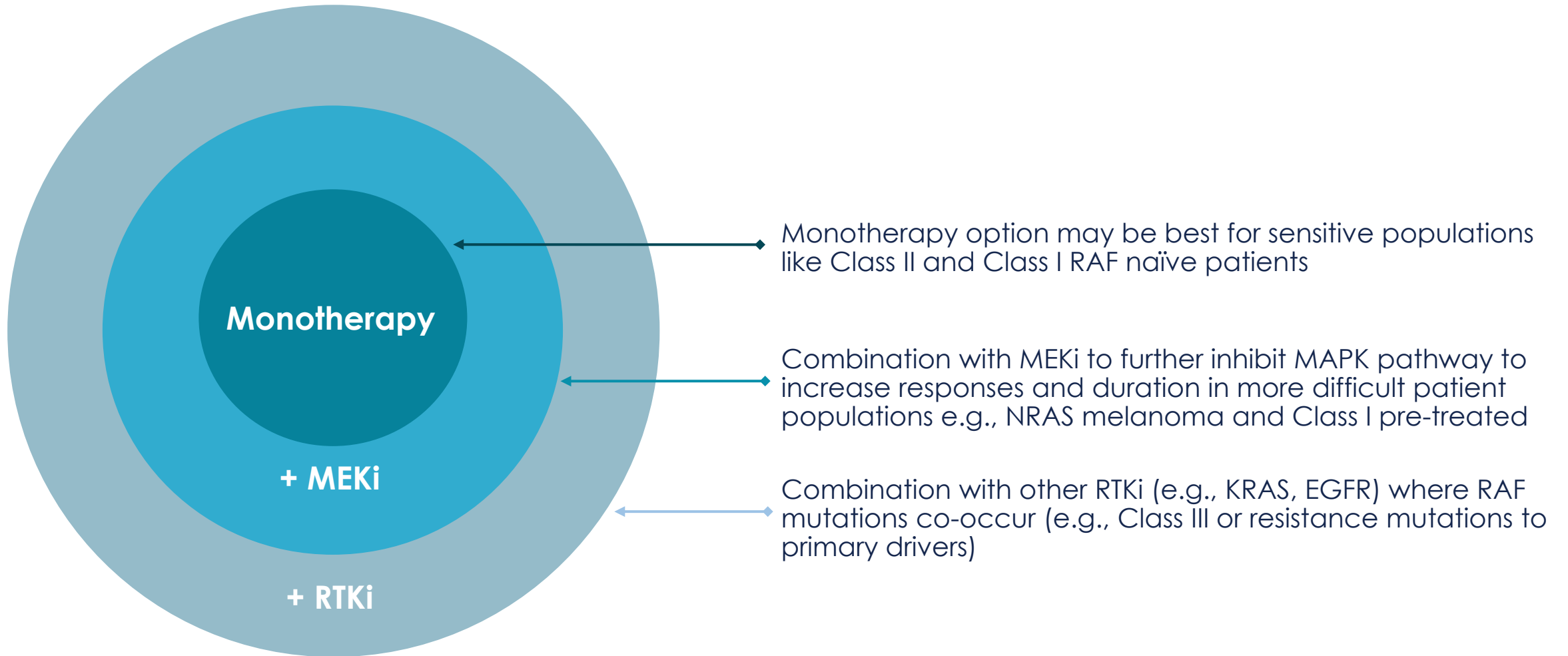


Areas of initial focus allow for capital efficient development



Illustration based on Kinnate preclinical data, prior clinical data from other pan-RAF inhibitors and publications. Note: other solid tumors beyond those in the illustration have potential opportunity with a pan-RAF but are not as well-characterized.

Well-tolerated Monotherapy Makes Promising Combination Partner



With compelling PK/PD, responses and especially a favorable safety/tolerability profile, exarafenib can serve as backbone for other combinations

Exarafenib Demonstrated a Favorable Safety and Tolerability Profile Across Dose Levels & 300 mg bid

- At therapeutically relevant exposures, no cutaneous (skin) evidence of paradoxical activation
- Only 2 DLTs observed, both at highest dose level (400 mg bid), Gr. 3 acneiform rash and Gr. 3 macular rash
- TRAEs at any Grade occurred in 73.3% (n=44) of patients, with 18.3% (n=11) of TRAEs reported as Gr. 3+
- Most common TRAEs of any Grade were skin related (21.7%; n=13), with 5% (n=3) of patients having skin events that were Gr. 3+
- Gr. 2 GI TRAEs occurred in 3.3% (n=2) of patients with no Gr. 3 GI TRAEs observed
- Reversible, asymptomatic increased ALT/AST TRAEs were reported at Gr. 3 (n=4; 6.7%) and Gr. 4 (n=1; 1.7%)
- At 300 mg bid (n=29), Gr. 1 (n=7) and Gr. 2 (n=8) TRAEs occurred in 48.3% of patients, with 28% (n=8) of TRAEs reported as Gr. 3+
- Overall relative mean dose intensity was 97% and was 95% in patients treated at 300 mg bid

Tolerability profile led to only 3% (n=2/60) of patients to discontinue therapy due to TRAEs



Safety Analysis population: n = 60 participants across all Dose Levels and n = 29 participants at 300 mg bid (DL5). TRAE=Treatment Related Adverse Events.. AEs are reported by maximum toxicity grade, observed at a 5% or greater frequency across all 60 patients treated in 6 dose levels. Relative dose intensity refers to the total actual dose received divided by total planned dose for the period patient received the assigned dose. Data cut off: Feb. 28, 2023.

Exarafenib Safety Profile Across Dose Levels and 300 mg bid

SOC, Preferred Term	All Dose Levels (n=60)					Dose Level 5 (300 mg bid) (n=29)				
	Gr. 1	Gr. 2	Gr. 3	Gr. 4	Any Grade	Gr. 1	Gr. 2	Gr. 3	Gr. 4	Any Grade
Any Exarafenib-related AE (TRAEs)	15 (25.0%)	18 (30.0%)	9 (15.0%)	2 (3.3%)	44 (73.3%)	7 (24.1%)	8 (27.6%)	6 (20.7%)	2 (6.9%)	23 (79.3%)
Gastrointestinal disorders										
Nausea	9 (15.0%)	1 (1.7%)			10 (16.7%)	3 (10.3%)	1 (3.4%)			4 (13.8%)
Oral pain	3 (5.0%)				3 (5.0%)	1 (3.4%)				1 (3.4%)
Vomiting	4 (6.7%)	1 (1.7%)			5 (8.3%)	2 (6.9%)	1 (3.4%)			3 (10.3%)
General disorders & admin. site conditions										
Asthenia	4 (6.7%)	1 (1.7%)			5 (8.3%)	3 (10.3%)	1 (3.4%)			4 (13.8%)
Fatigue	5 (8.3%)	3 (5.0%)			8 (13.3%)	4 (13.8%)	1 (3.4%)			5 (17.2%)
Investigations										
Alanine aminotransferase (ALT) increased	2 (3.3%)	3 (5.0%)	4 (6.7%)	1 (1.7%)	10 (16.7%)	1 (3.4%)	3 (10.3%)	3 (10.3%)	1 (3.4%)	8 (27.6%)
Aspartate aminotransferase (AST) increased	4 (6.7%)	3 (5.0%)	4 (6.7%)		11 (18.3%)	2 (6.9%)	3 (10.3%)	3 (10.3%)		8 (27.6%)
Blood alkaline phosphatase increased	3 (5.0%)				3 (5.0%)	1 (3.4%)				1 (3.4%)
Blood bilirubin increased	2 (3.3%)	1 (1.7%)			3 (5.0%)	1 (3.4%)	1 (3.4%)			2 (6.9%)
Blood creatine phosphokinase increased	4 (6.7%)				4 (6.7%)	2 (6.9%)				2 (6.9%)
Metabolism and nutrition disorders										
Decreased appetite	5 (8.3%)	1 (1.7%)			6 (10.0%)	2 (6.9%)	1 (3.4%)			3 (10.3%)
Musculoskeletal & connective tissue disorders										
Myalgia	3 (5.0%)	1 (1.7%)			4 (6.7%)	3 (10.3%)				3 (10.3%)
Nervous system disorders										
Dizziness	3 (5.0%)				3 (5.0%)	2 (6.9%)				2 (6.9%)
Skin & subcutaneous tissue disorders										
Dermatitis acneiform	8 (13.3%)	3 (5.0%)	1 (1.7%)	1 (1.7%)	13 (21.7%)	5 (17.2%)	2 (6.9%)		1 (3.4%)	8 (27.6%)
Pruritus	7 (11.7%)	2 (3.3%)			9 (15.0%)	4 (13.8%)	2 (6.9%)			6 (20.7%)
Rash (any) *	12 (20.0%)	5 (8.3%)	1 (1.7%)		18 (30.0%)	6 (20.7%)	3 (10.3%)			9 (31.0%)

Safety Analysis population, n = 60 participants across all Dose Levels. Relatedness to exarafenib reported per Investigator assessment. Exarafenib-related or Treatment Related AEs (TRAEs) occurring in ≥ 5% (≥ 3 pts) in Safety Analysis population are annotated by SOC, Preferred Term, Maximum toxicity grade. * Rash (any) includes any of the following Preferred Terms: 'rash'; 'rash macular'; 'rash popular'; 'rash maculopapular'; 'rash morbilliform'

Data cut off: Feb. 28, 2023

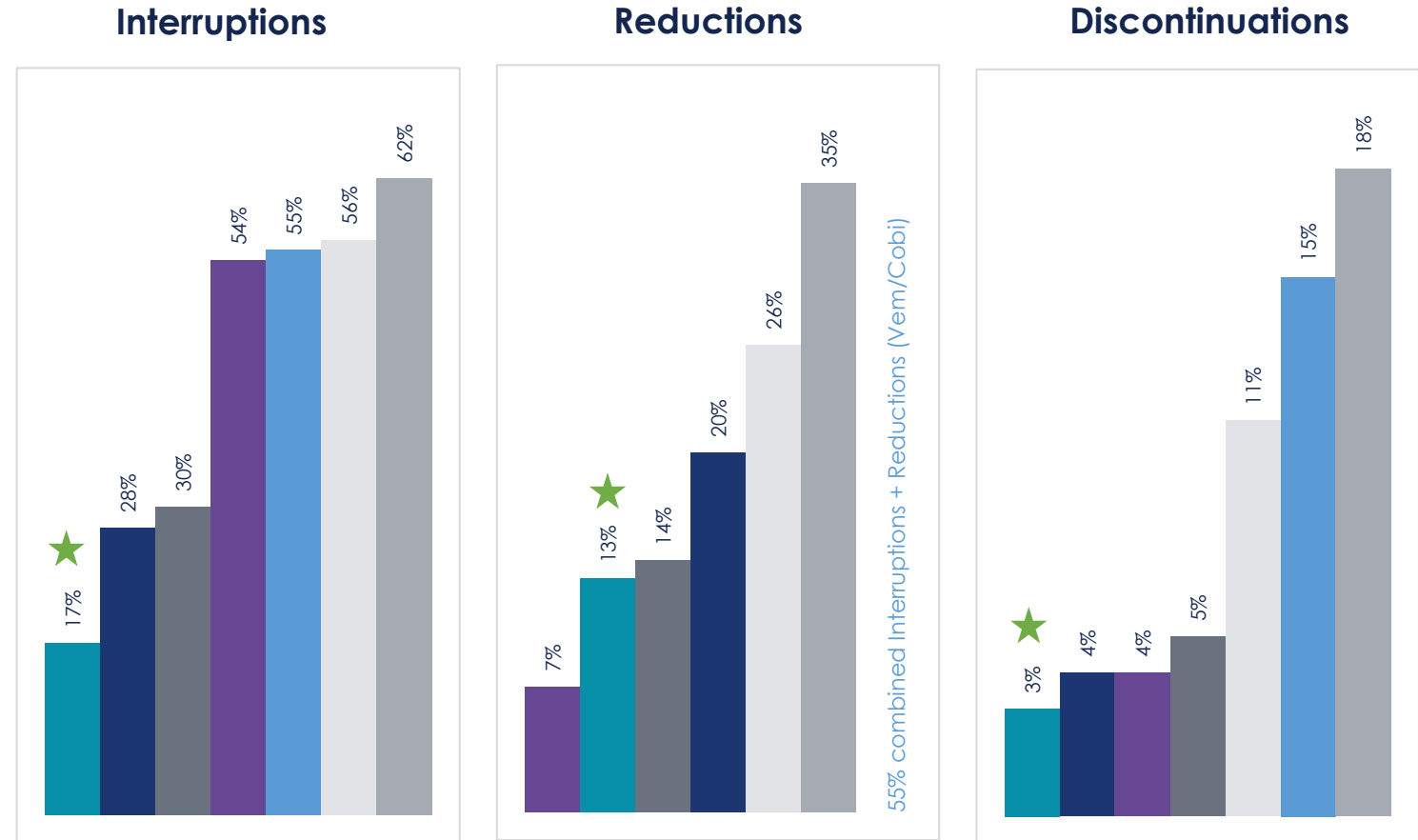


Exarafenib Achieved Substantial and Differentiated Dose Intensity

Tolerability Profile Led to Only 2 Patients Discontinuing Treatment Due To Drug-Related Toxicity

In all exarafenib treated patients (n=60), the relative mean dose intensity* was **97%** and in patients treated at 300 mg bid (n=29), it was **95%**. The median for both patient sets was 100%.

RAF Drug-Related Tolerability Landscape Assessment



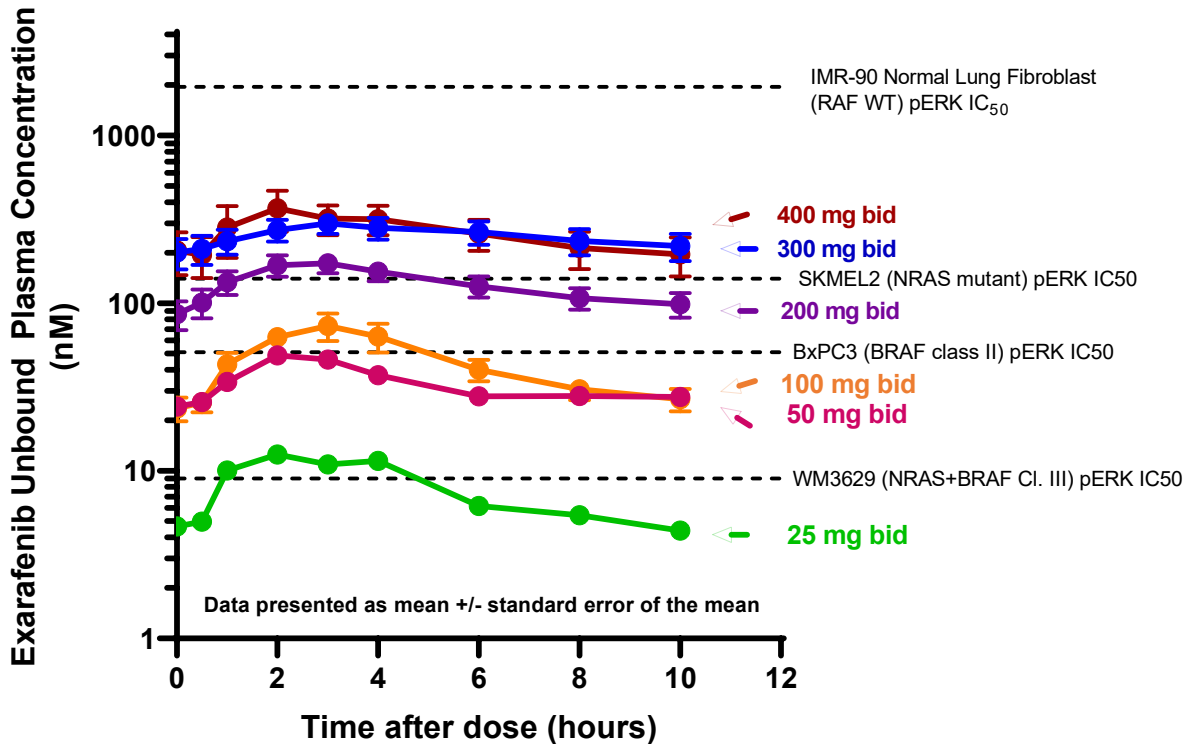
*Relative dose intensity refers to the total actual dose received divided by total planned dose for the period patient received the assigned dose. Exarafenib data cut as of Feb 28, 2023.

USPI used as source for Dabrafenib, Encorafenib, Vemurafenib – Accessed 27 March 2023. Cobimetinib USPI for vemurafenib + cobimetinib data. Belvarafenib data from Yen et al, Nature 2021; FORE-8394 data from Sherman, ESMO 2022 Poster. Note: Belvarafenib/FORE-8394 data represent Treatment Emergent Adverse Events leading to Interruptions, Reductions, Discontinuations; relationship to study drug not specified.

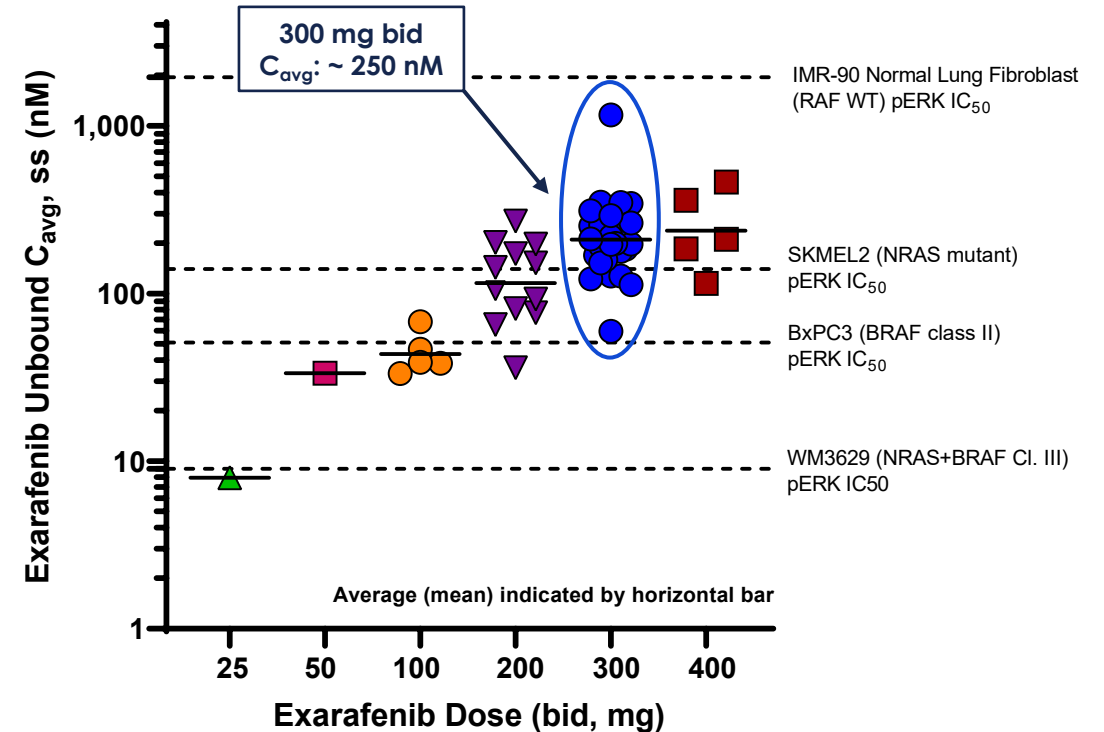


Favorable Pharmacokinetics: Exarafenib Delivered Dose-Dependent & Steady State Exposures

Unbound Exarafenib Exposures at Steady State (nM; all Dose Levels)



Unbound Average Exarafenib Exposures At Steady State (nM; all Dose Levels)







- 8-hour half life
- Unbound exarafenib exposures and C_{avg} concentrations increase dose proportionately
- Steady state exarafenib exposures are achieved at Cycle 1 Day 15
- At 300 mg bid, unbound C_{avg} concentrations exceed in vitro pERK IC₅₀ values across all BRAF/NRAS mutant cell lines - including 5-fold higher relative to a representative BRAF Class II cell line



Pan-RAF Inhibitor Clinical PK Comparison

Exarafenib is Achieving Monotherapy Exposures Not Seen with Other Agents

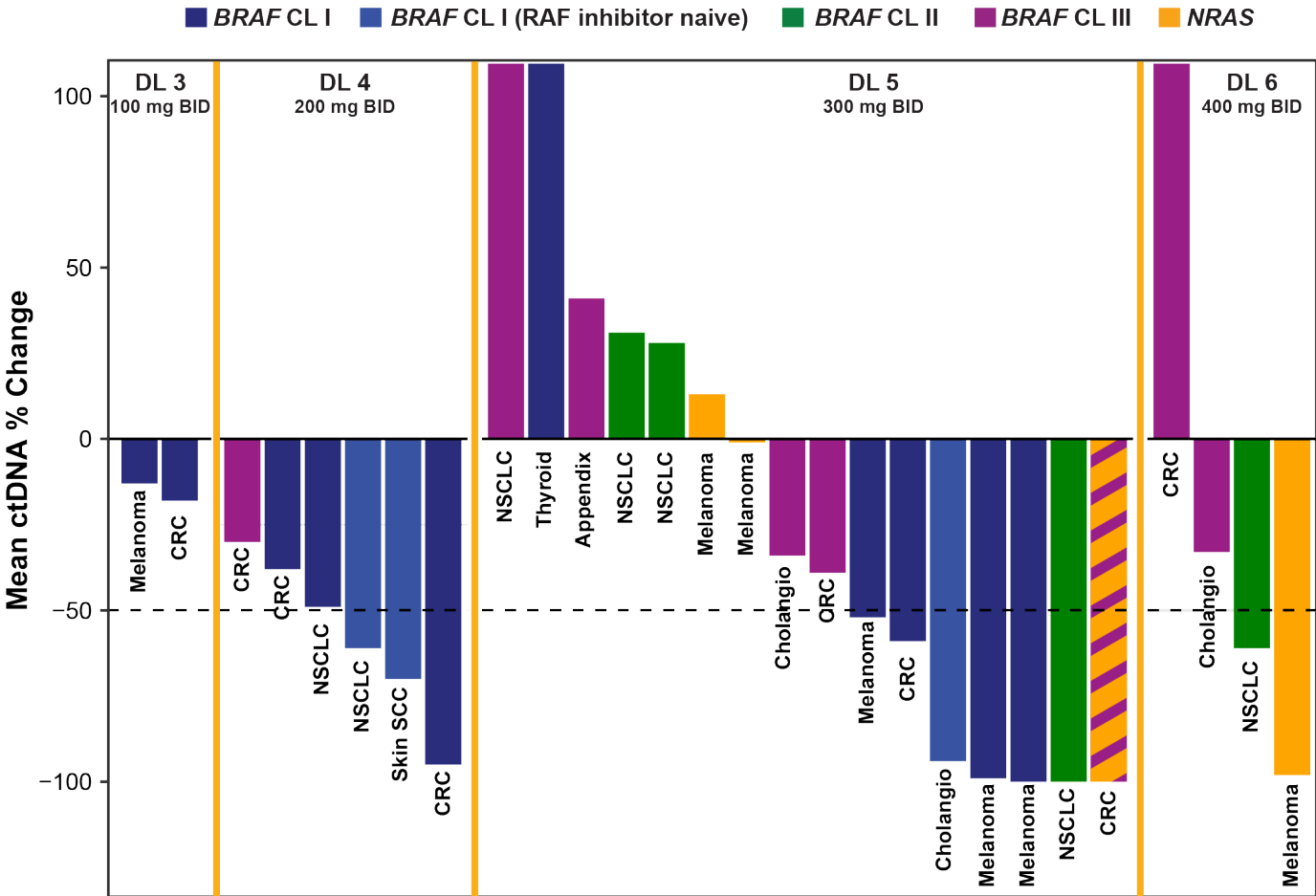
RAF Inhibitor	Naporafenib	Belvarafenib	Exarafenib
Company		 	
Dose	600 mg bid	450 mg bid	300 mg bid (DL5)
Human Fraction Unbound (%)	<1	0.11	6.8
Clinical Total AUC _{0-24,ss} (ng*h/mL)	79,000 ¹	127,000 ²	38,000 ³
Clinical Free AUC _{0-24,ss} (ng*h/mL)	< 790	140	2,600

Based on Kinnate generated data for Human Fraction Unbound and approximate published clinical PK data for Total AUCs for Naporafenib & Belvarafenib; Exarafenib Clinical Total AUC from KN-8701 trial. Certain data on this slide are based on cross-study comparisons and are not based on any head-to-head clinical trials. Cross-study comparisons are inherently limited and may suggest misleading similarities or differences. (1) Janku et al., Phase 1 Study of LXH254 in Patients With Advanced Solid Tumors Harboring MAPK Pathway Alterations. Poster 2586. ASCO Annual Meeting (2018), (2) Yen et al, Nature 2021, (3) 2x 0–10-hour AUC.



Significant Decrease in Mean ctDNA Levels Spanned Multiple Cancer Types and BRAF/NRAS Alterations

71% (20/28) of MR Evaluable Patients Show Decreases in Mean ctDNA Levels at C2D1 or C3D1*









*Analysis: March 17, 2023; 28 patients evaluable for molecular response (MR)
 MR is defined as a ≥ 50% average reduction in a pre-specified panel of tumor associated mutations at C2D1 or C3D1 compared to baseline (C1D1 or screening) samples.

Breadth of Responses Across Alteration and Tumor Types¹

33% ORR in Class II & 29% ORR in NRAS at 300 mg bid; 33% ORR (2 of 6) in Class I Naïve at 200 mg bid+

Responses Across All Enrolled Alteration Types...

Class II	NRAS	NRAS + Class III*	Class I RAF Pretreated	Class I RAF Naïve	Class I RAF Naïve
 1 cPR	 1 cPR	 1 cPR	 1 uPR	 1 cPR	 1 cPR

...And, Across Broad Range of Tumor Types

NSCLC

Melanoma x2

CRC

PTC

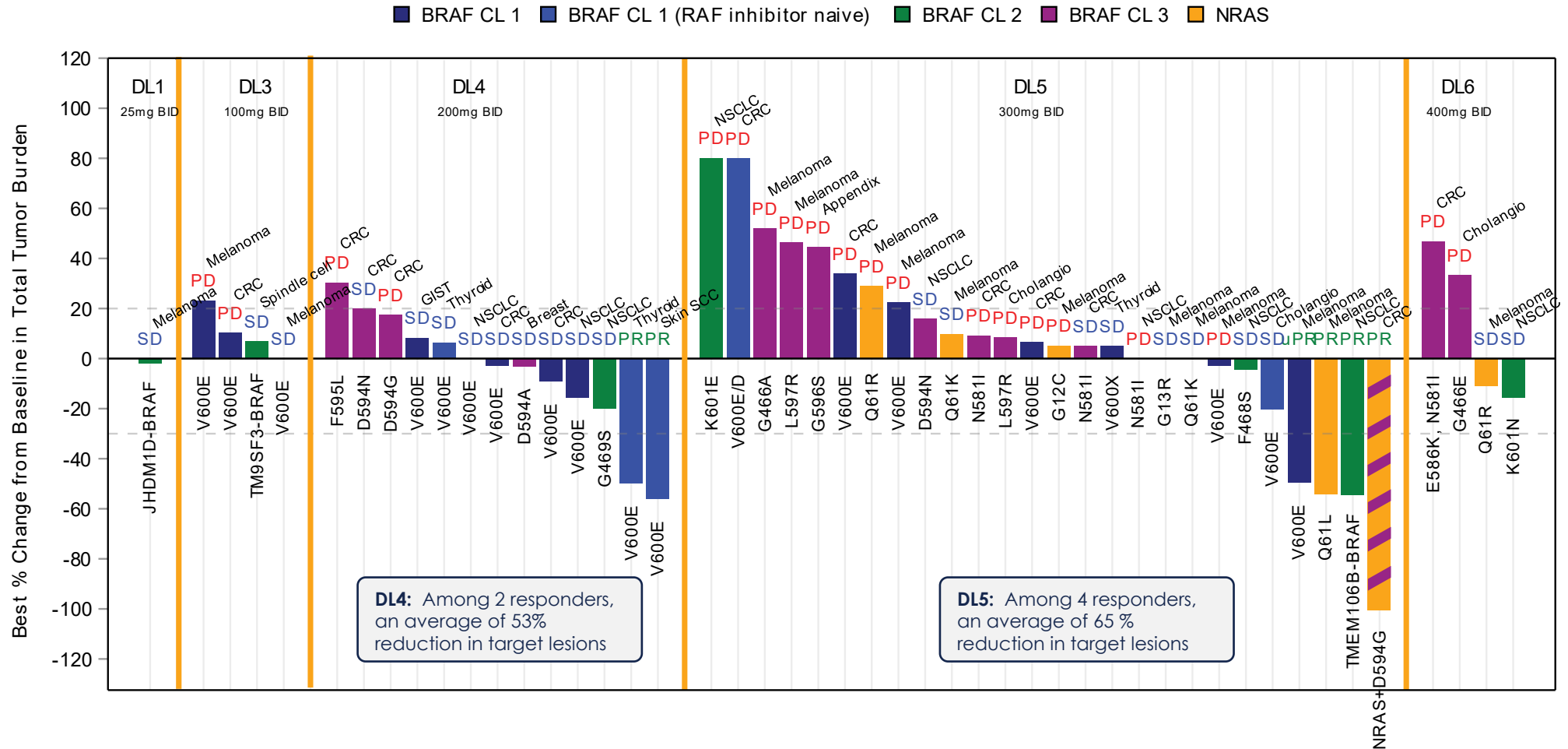
SCC

¹Data cut as of Feb 28, 2023 * Includes patient with NRAS co-occurring with a BRAF Class III alteration

ORR = overall response rate; uPR = unconfirmed partial response; cPR = confirmed partial response; NSCLC = non-small cell lung cancer; PTC = papillary thyroid cancer, CRC = colorectal cancer; SCC = squamous cell carcinoma

Tumor Regressions Observed Across Dose Levels

Average of 65% Reduction in Target Lesions Among 4 Responders at 300 mg bid



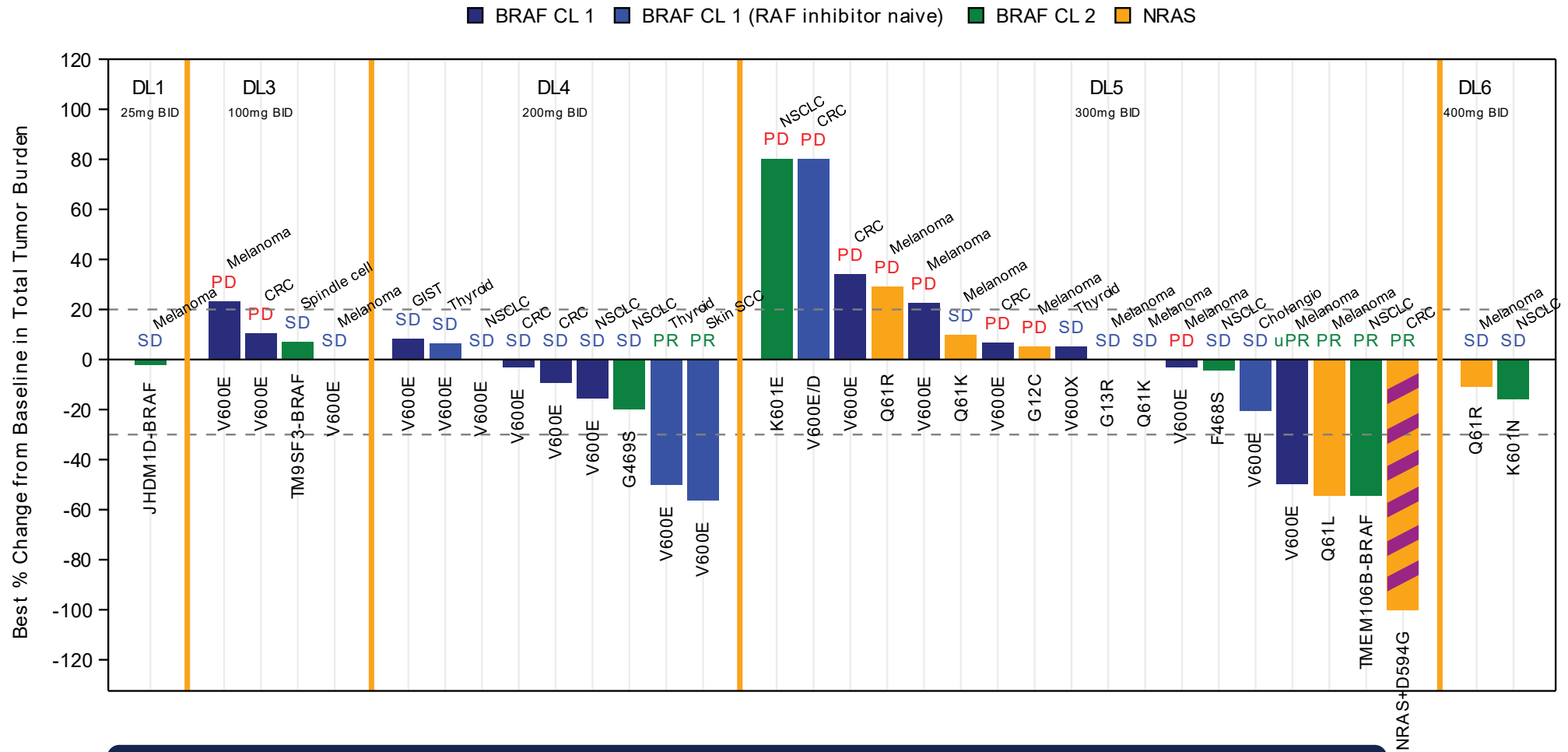
33% ORR in Class II & 29% ORR in NRAS at 300 mg bid



Efficacy Evaluable Population: 1 Pt (DL1, 25 mg bid) is not included as pt. had baseline measurable lesion, but had PD based upon appearance of a new lesion prior to post-baseline assessment – hence no percentage change could be calculated. Pts are analyzed by Dose Level at which they achieved or confirmed their best response. Data cut as of Feb 28, 2023.

Tumor Regressions in Patients with BRAF Class II, NRAS Alterations

Meaningful Activity in Class II and NRAS Supports Initial Focus in These Priority Segments



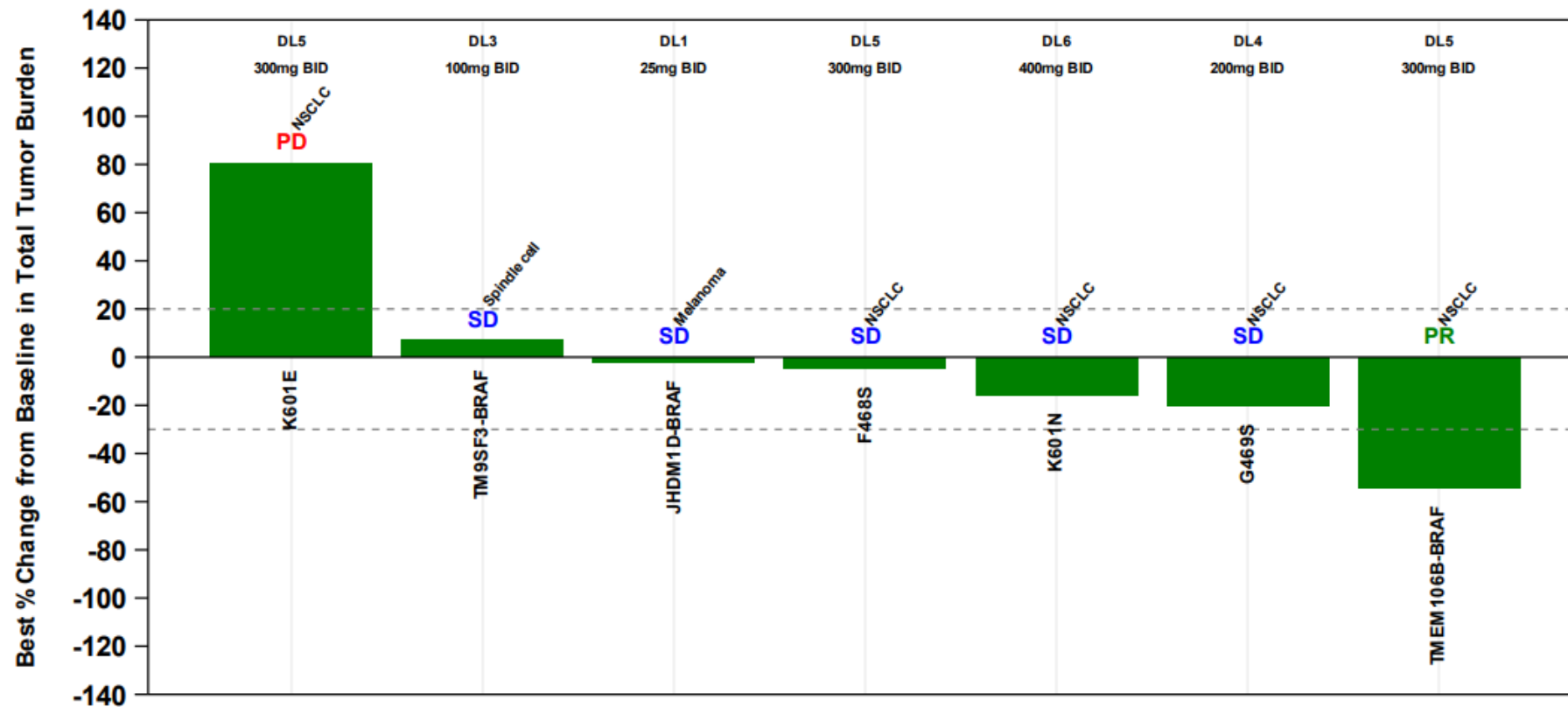
33% ORR in Class II & 29% ORR in NRAS at 300 mg bid



Efficacy Evaluable Population: 1 Pt (DL1, 25 mg bid) is not included as pt. had baseline measurable lesion, but had PD based upon appearance of a new lesion prior to post-baseline assessment – hence no percentage change could be calculated. Pts are analyzed by Dose Level at which they achieved or confirmed their best response. Data cut as of Feb 28, 2023.

Tumor Regressions in Patients with BRAF Class II

Meaningful Activity in Class II Supports Initial Focus in Priority Segment



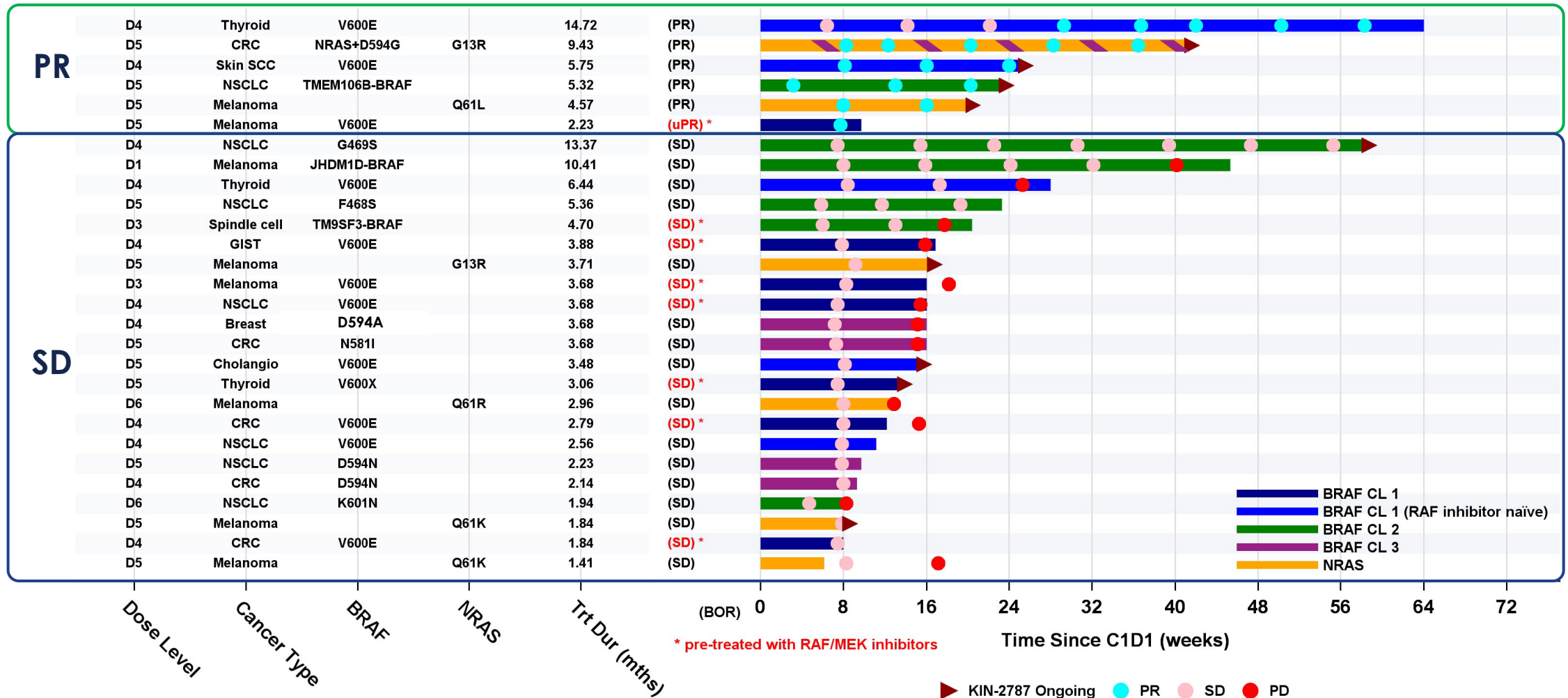
33% (1 of 3) ORR at 300 mg bid with 86% (6 of 7) DCR across doses



Efficacy Evaluable Population: 1 Pt (DL1, 25 mg bid) is not included as pt. had baseline measurable lesion, but had PD based upon appearance of a new lesion prior to post-baseline assessment – hence no percentage change could be calculated. Pts are analyzed by Dose Level at which they achieved or confirmed their best response. Data cut as of Feb 28, 2023.

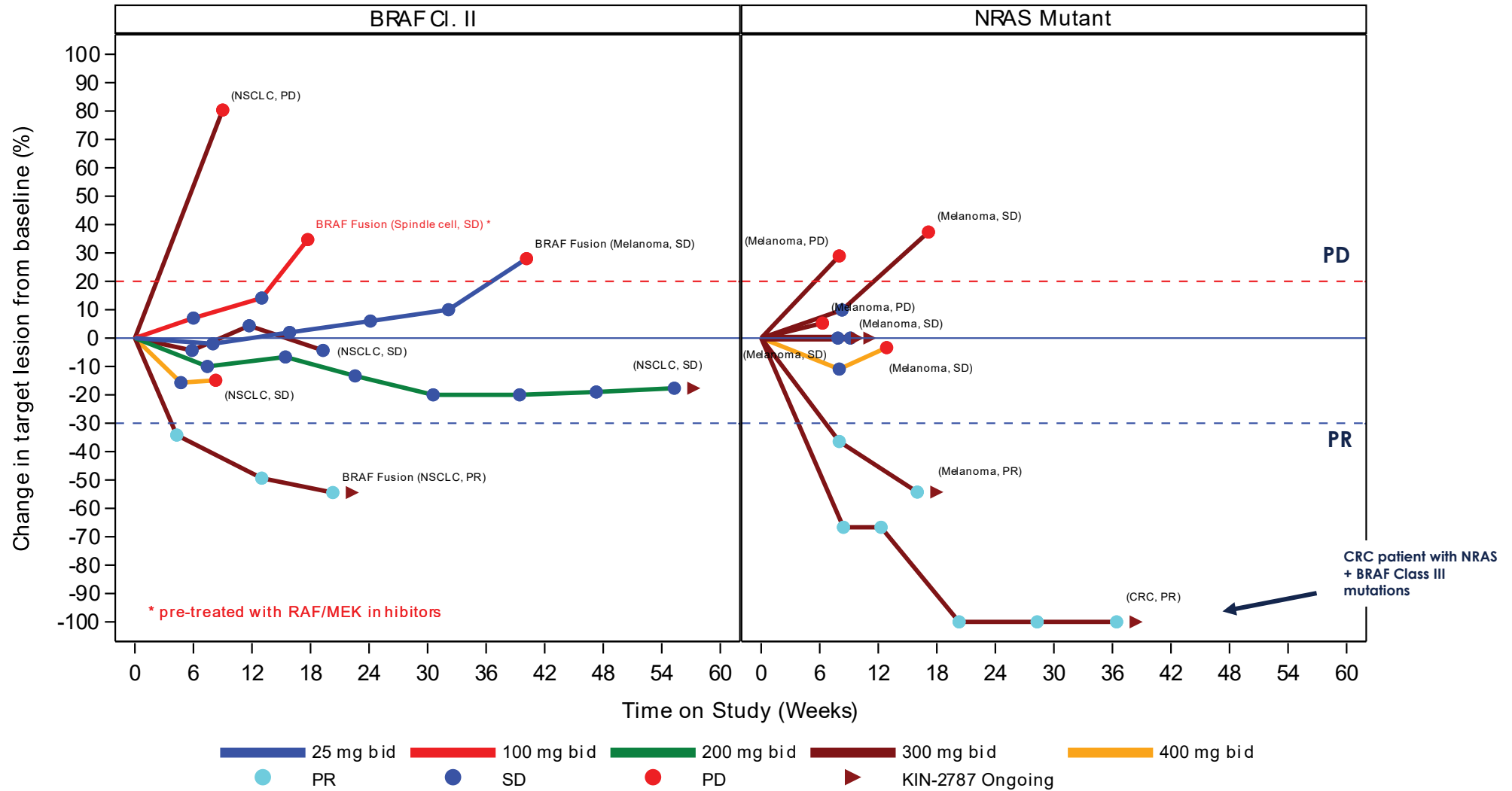
Sustained Duration with Follow Up Ongoing

Responders Stayed on Treatment for an Average of 7 Months; mDOR Not Reached

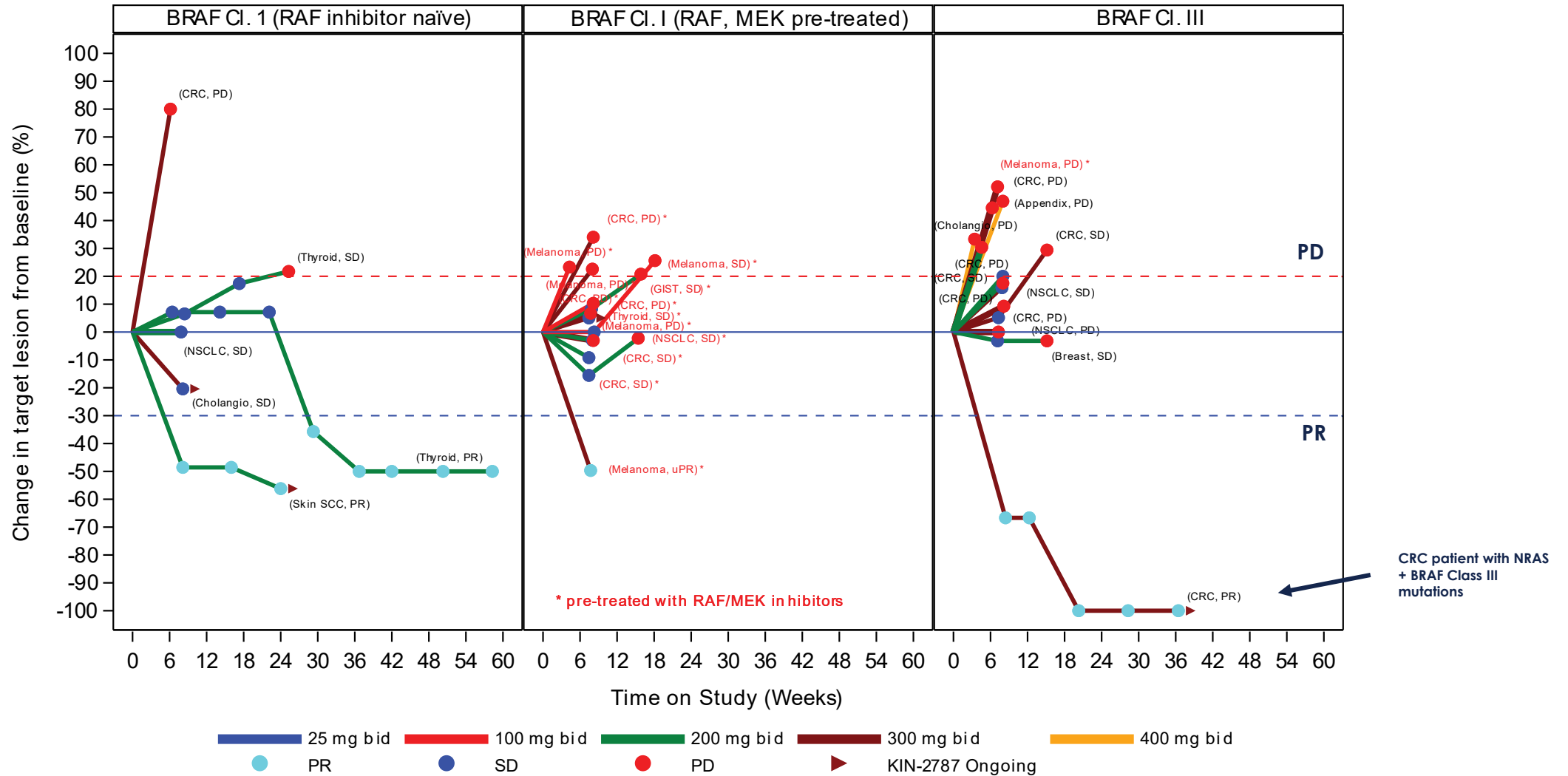


Compelling Data Supports Priority Focus in Class II and NRAS

Exarafenib Monotherapy Induced Rapid Response in These Patient Subtypes



Potential New Opportunity in BRAF Class 1 Naïve, Enrichment Needed in BRAF Class III and Class 1 Pretreated Patient Subtypes



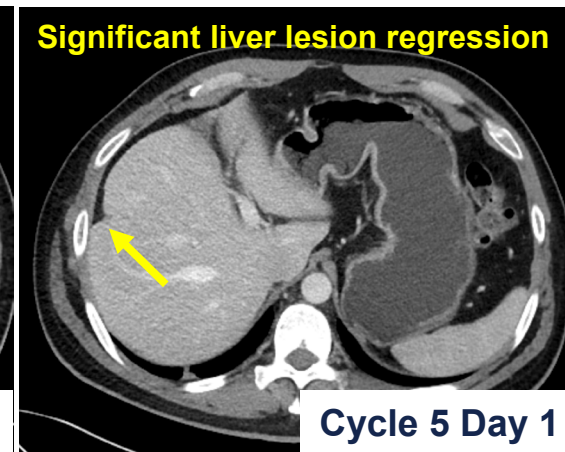
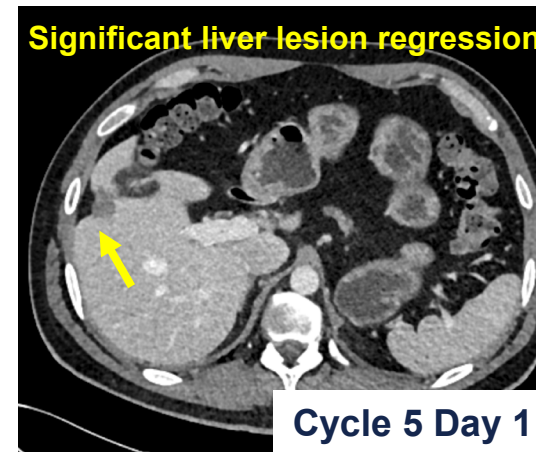
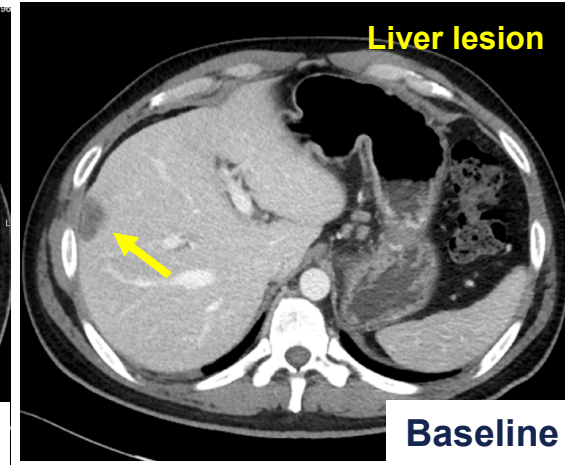
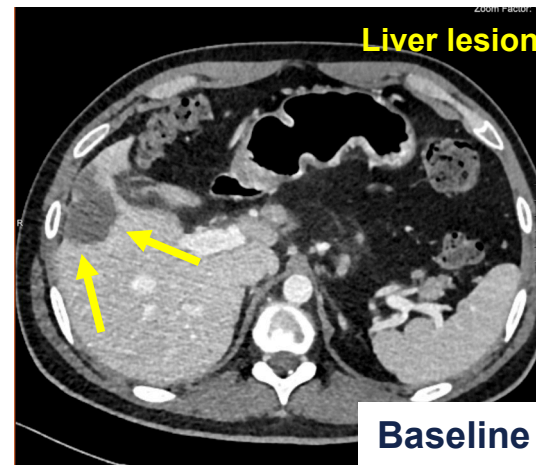
Confirmed Partial Response in Patient with BRAF Class II Lung Cancer Highlights Impressive Activity in Our Core Population

Lung Cancer
BRAF Class II Fusion
DL6 (400 mg bid) → DL5 (300 mg bid)
Patient received Pembrolizumab,
Pemetrexed, Cisplatin, Cabozantinib

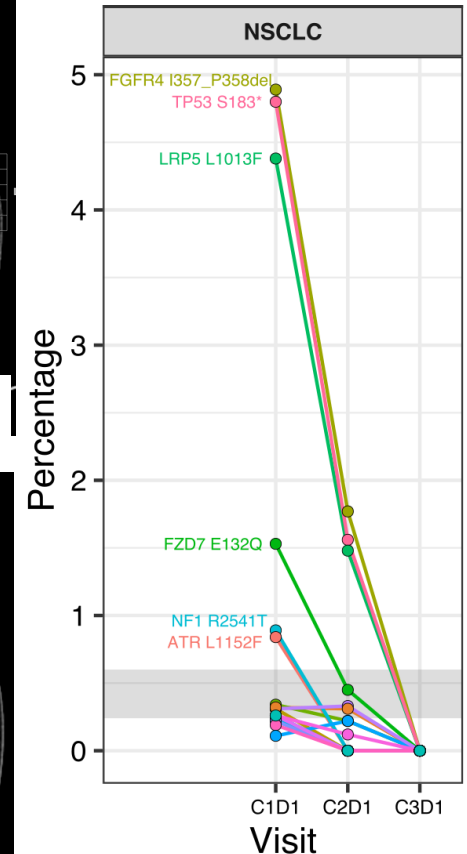
- PR on 1st scan with rapid response (-34% on 2 target lesions)
- Drug interruption (rash) & pt resumed exarafenib at DL5 (300 mg bid)
- Confirmed PR on 2nd & 3rd scans (-54% reduction of target lesions), significant reductions in non-target lesions
- Complete molecular response by C3D1
- Pt remains on exarafenib for ~ 5 months

Exarafenib had monotherapy activity in a key cancer and molecular subtype (Lung, Class II)

Liver Lesions



ctDNA Analysis



BRAF Fusion not detected at baseline on ctDNA assay

Substantial Clinical Benefit in Patient with BRAF Class II Lung Cancer; Patient Remains on Therapy for 13+ Months

Lung Cancer

BRAF G469S SNV (Class II)

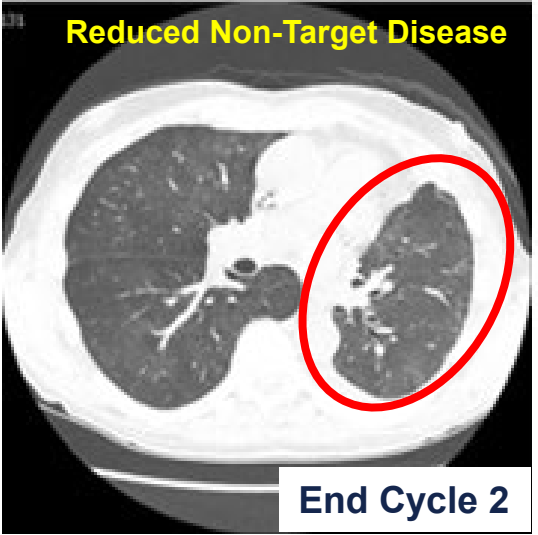
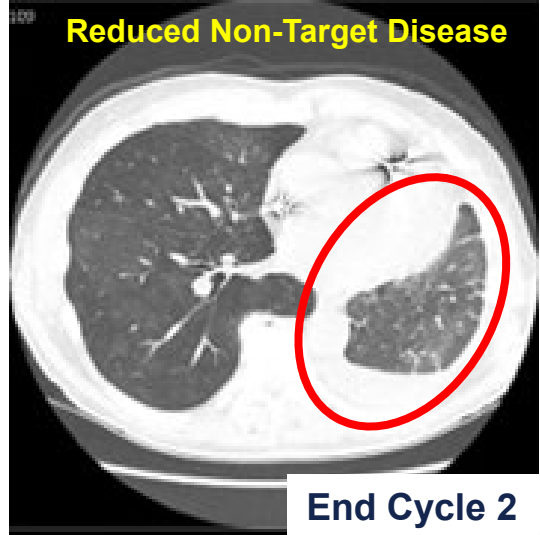
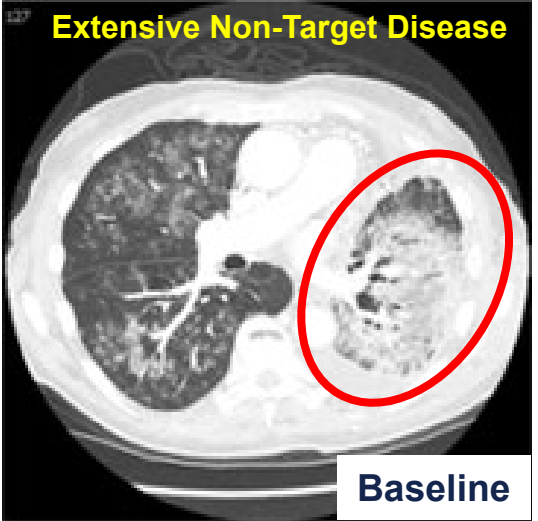
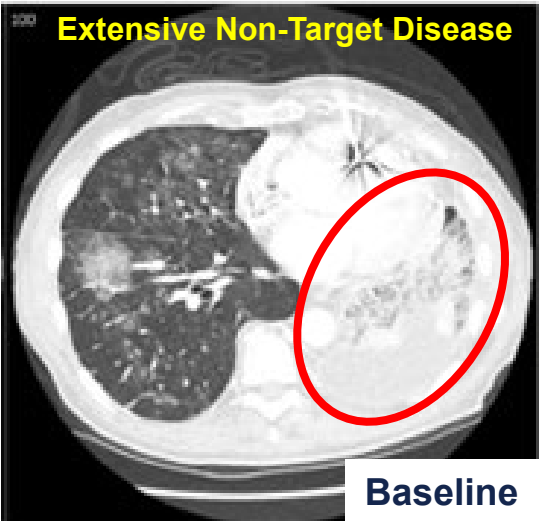
DL4 (200 mg bid)

Patient received Pembrolizumab, Pemetrexed, Carboplatin

- Pt weaned off supp. oxygen in 2 weeks
- Significant reductions of non-target disease
- Prolonged Stable Disease (-20% on Target lesions) on 7 successive scans

Exarafenib had substantial & prolonged tumor control in a key cancer and molecular subtype (Lung, Class II)

Pulmonary Disease



Confirmed Partial Response in Patient with NRAS Co-Occurring with BRAF Class III Colorectal Cancer; Deep Molecular Response

**NRAS (G13R) with BRAF Class III SNV (D594G)
Colorectal Cancer**

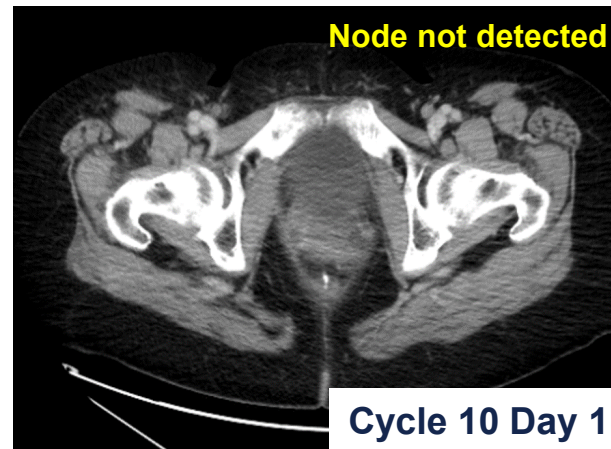
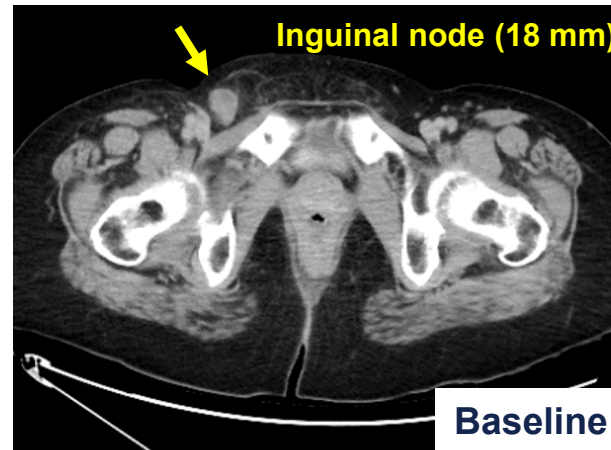
DL5 (300 mg bid)

**Refractory to multiple prior lines of Oxaliplatin,
Capecitabine, Irinotecan**

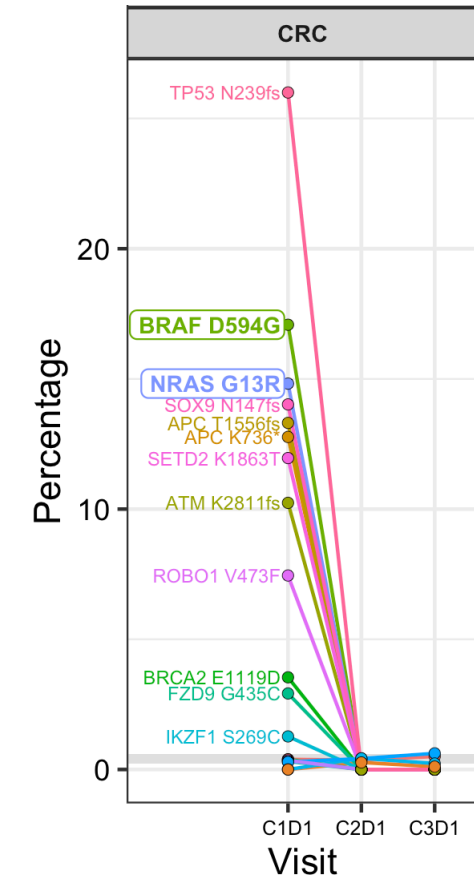
- Rectal bleeding resolved after 2 weeks
- PR on first scan with deep response (-67%)
- PR confirmed on 4 more assessments
- CR on target lesion (-100%)
- Significant reduction in non-target pulmonary disease
- Complete molecular response by 4 weeks
- Pt remains on exarafenib for 10+ months

**Exarafenib had monotherapy activity even in the
most challenging patient subtype, CRC**

Pelvic Lesion



ctDNA Analysis



Deep, Confirmed Partial Response in Patient with NRAS Mutant Melanoma

Melanoma

NRAS (Q61L)

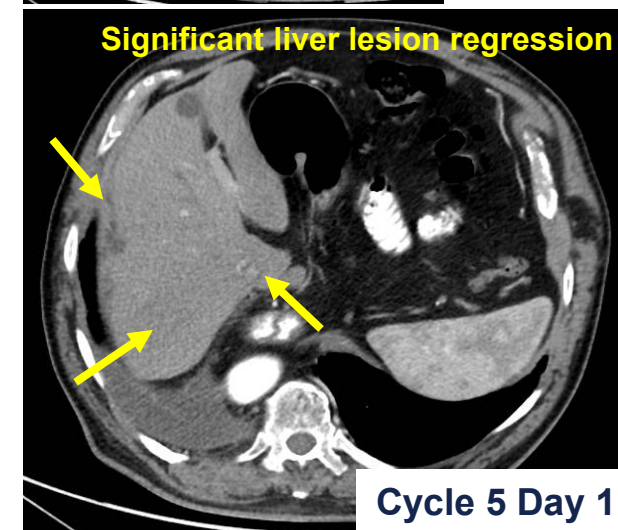
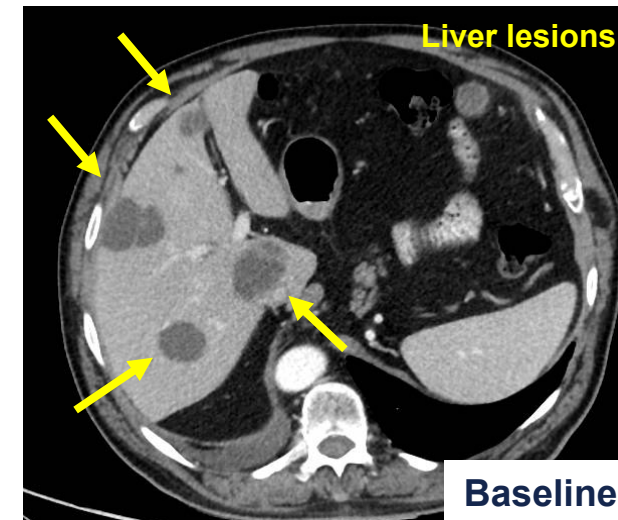
DL5 (300 mg bid)

Refractory to Nivolumab, Cisplatin, Doxorubicin

- Extensive abdominal & thoracic disease
- PR on first scan with deep response (**-36%**) and confirmed on 2nd scan (**-54%**)
- Target pulmonary lesion now undetectable
- Pt remains on exarafenib for ~ 5 months

Exarafenib demonstrated monotherapy activity even in a challenging cancer and molecular subtype, NRAS mutant melanoma

Liver Lesions



Exarafenib + Binimetinib Phase 1 Dosing Schema & Study Design

Enrollment Continues at Exarafenib 200 mg bid + Binimetinib 15 mg bid

Enrolled Cohorts & Schema

Participants receive combination dose twice daily (bid) with continuous dosing on 28-day cycles

Cohort 1

100 mg bid exarafenib
+ 45 mg bid binimetinib

Cohort 2

100 mg bid exarafenib
+ 15 mg bid binimetinib

Cohort 3

200 mg bid exarafenib +
15 mg bid binimetinib

- Objectives: Evaluate safety, PK & PD; establish MTD/RP2D; assess preliminary anti-tumor activity
- Population: Adults with advanced, unresectable or metastatic solid tumors with BRAF alterations, including NRAS mutant melanoma

3+3 Study Design

- DLT assessment period is 28 days (thru end of Cycle 1)
- Tumor assessments (per RECIST v1.1) occur every 2 cycles (8 weeks)
- Protocol permits (1) 'Backfill' enrollment of additional participants at the highest previously cleared dose level and (2) Intra-patient dose escalation up to previously cleared dose levels

Early, Compelling Findings with Combination Supports Strategy

2 of 7 Efficacy Evaluable Patients Achieved RECIST PRs

- 12 treated patients, primarily with NRAS mutant melanoma
- 7 patients remain on combination therapy, including all responders
- Safety evaluation ongoing

NRAS Mutant Melanoma

1 uPR in;
41% Reduction

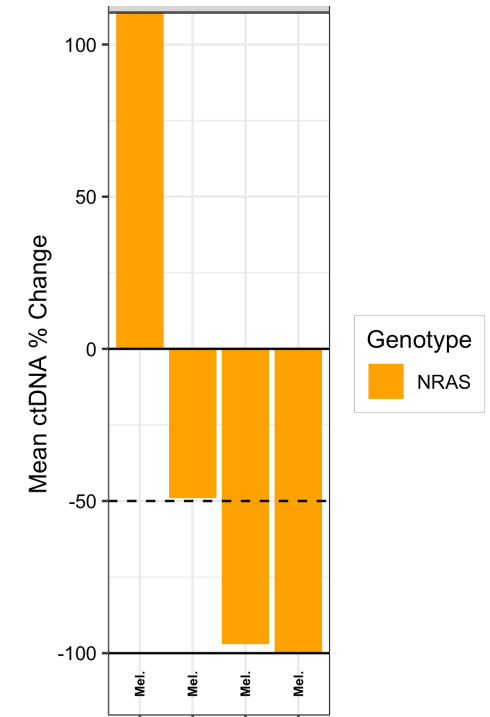
NRAS Mutant Melanoma

25% reduction in
target lesions

BRAF Class II Fusion

1 cPR
41% Reduction
CA 19.9 dropped from 540
to <20 (normal) in 8 weeks

ctDNA: Positive Molecular Responses



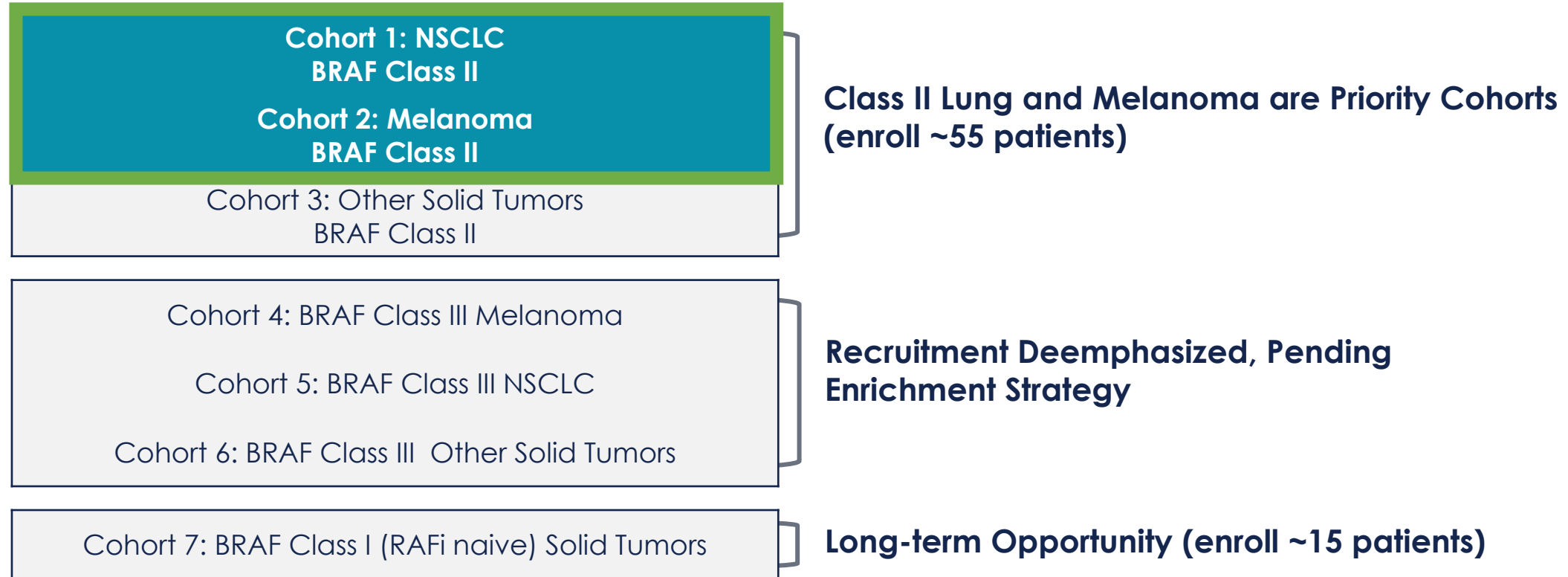
- Priority development of combination in patients with NRAS mutant melanoma
- RAFi pre-treated patients with BRAF Class I-driven cancers also expected to be enrolled

Expansion Dose Selection Expected in H2 2023



Data-Informed Strategy Optimized for Probability of Success

Monotherapy Dose Expansion Ongoing

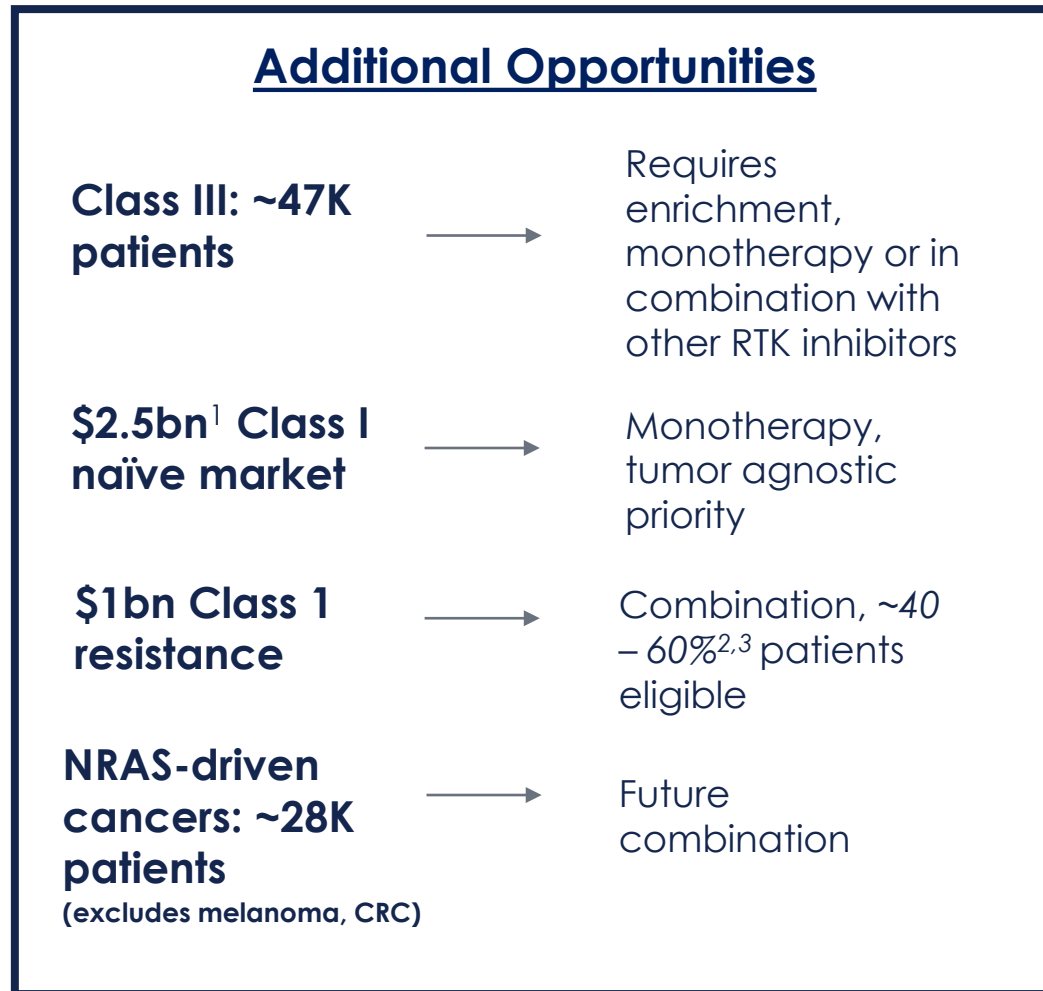
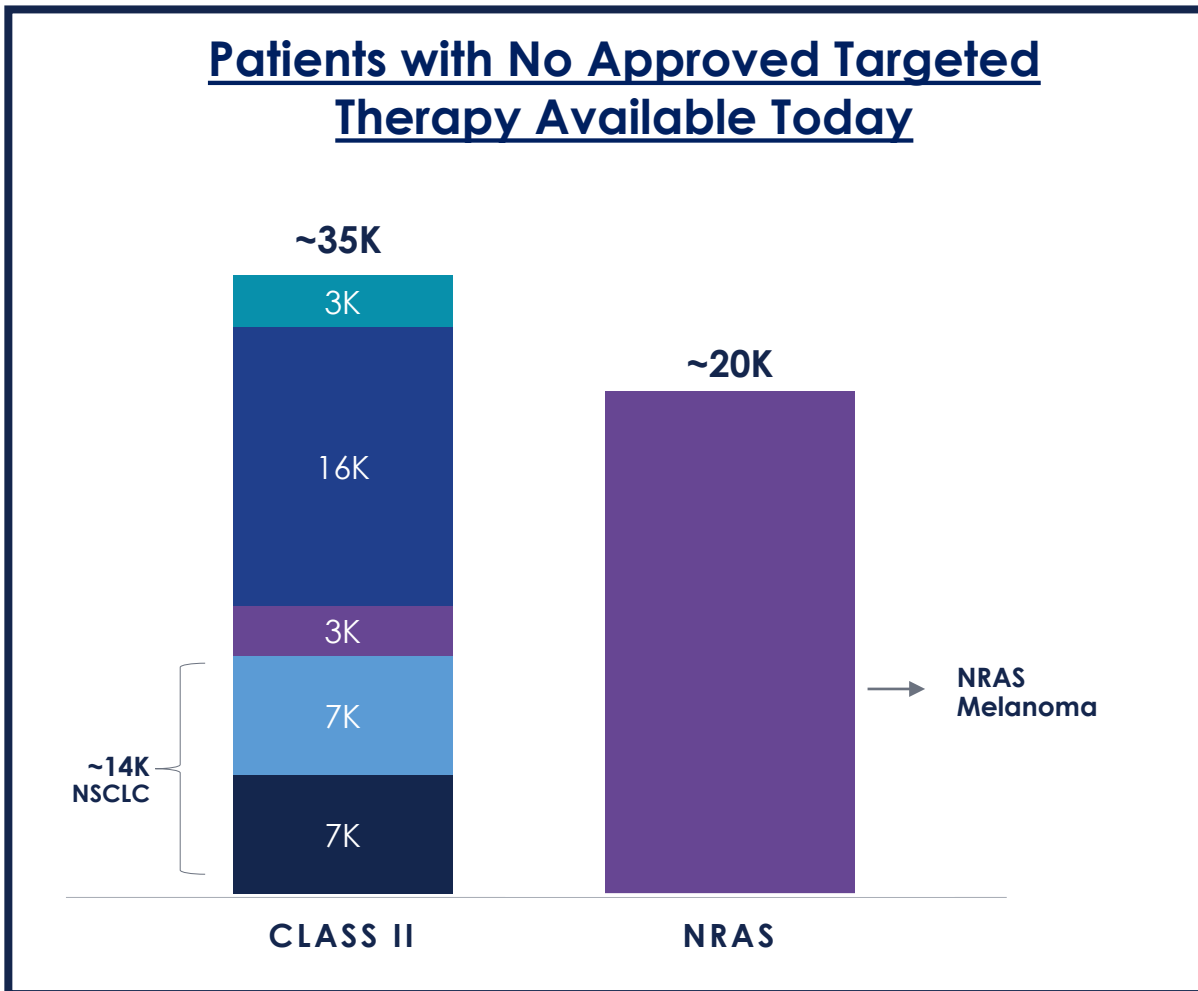


Exarafenib + Binimetinib Combination Dose Escalation Ongoing



~55K Patients Potentially Addressable with Class II & NRAS Melanoma

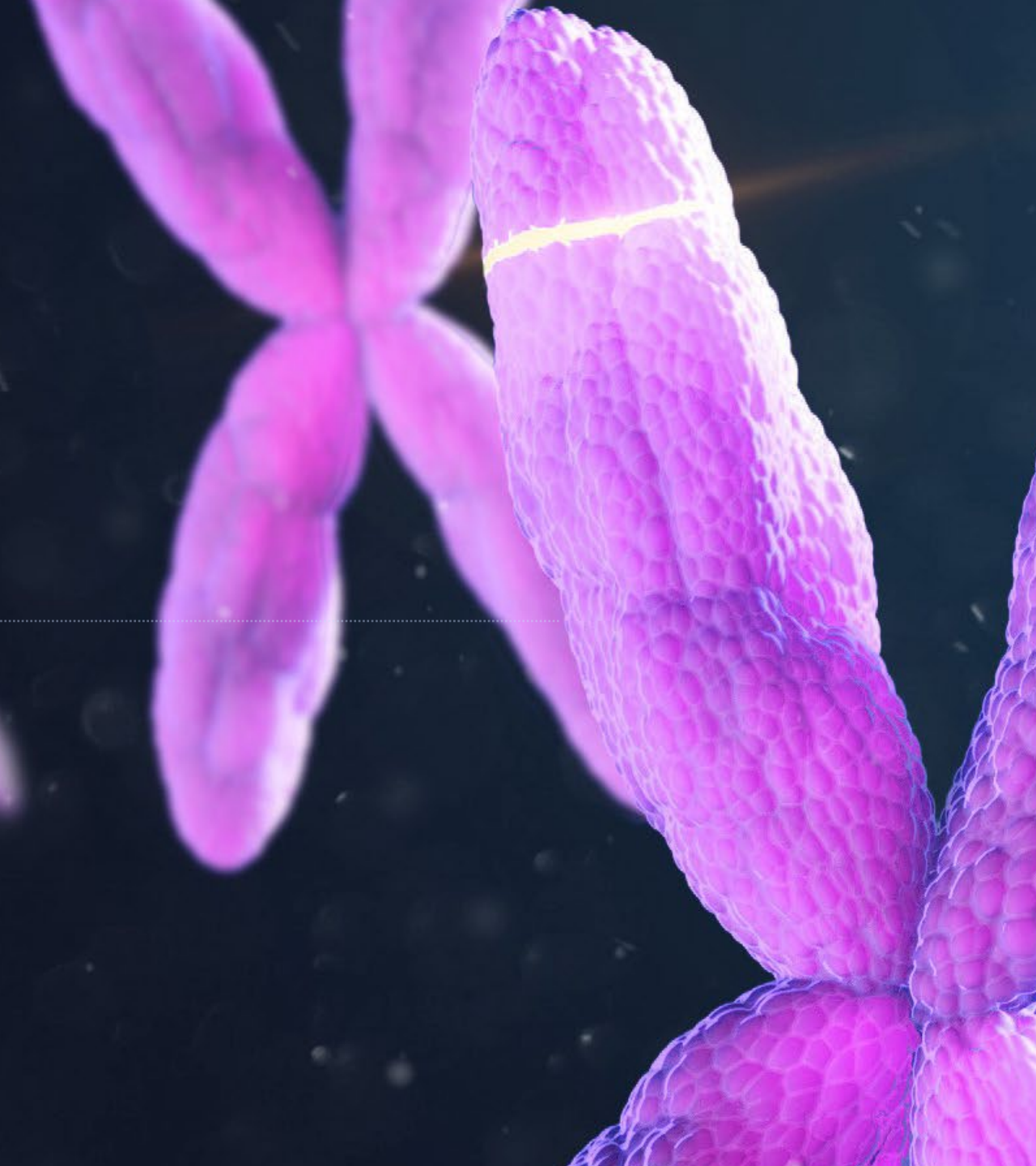
Potential for Additional Opportunities in Other Patient Subtypes



Notes: Kinnate calculations of prevalence; reflects approximate prevalence in U.S., EU4, UK, Japan (unless otherwise noted). Class I resistance includes BRAF KD Duplication and BRAF Splice Variants (dimer-based). Class III includes undefined oncogenes. NRAS mutations includes Q61, G12, G13. Assumes unresectable or advanced metastatic. "Other" tumor types with BRAF Class II alterations and "NRAS-driven cancers" include Anaplastic Thyroid, Bladder, Breast, Cholangiocarcinoma, Endometrial, Esophagogastric, Other Thyroid, Ovarian, Pancreatic, Prostate. (1) 2022 sales of approved MEK/RAF products (Dabrafenib, Vemurafenib, Encorafenib, Trametinib, Cobimetinib, Binimetinib) based on company financial reports except Vemurafenib based on Wall Street consensus estimates. (2) D.B. Johnson, et al., Acquired BRAF inhibitor resistance, Eur. J. Cancer 51 (18) (2015) 2792-2799. (3) K. Kemper, et al., Phenotype switching: tumor cell plasticity as a resistance mechanism and target for therapy, Cancer Res. 74 (21) (2014) 5937-5941.

FGFR2/3 Program

KIN-3248



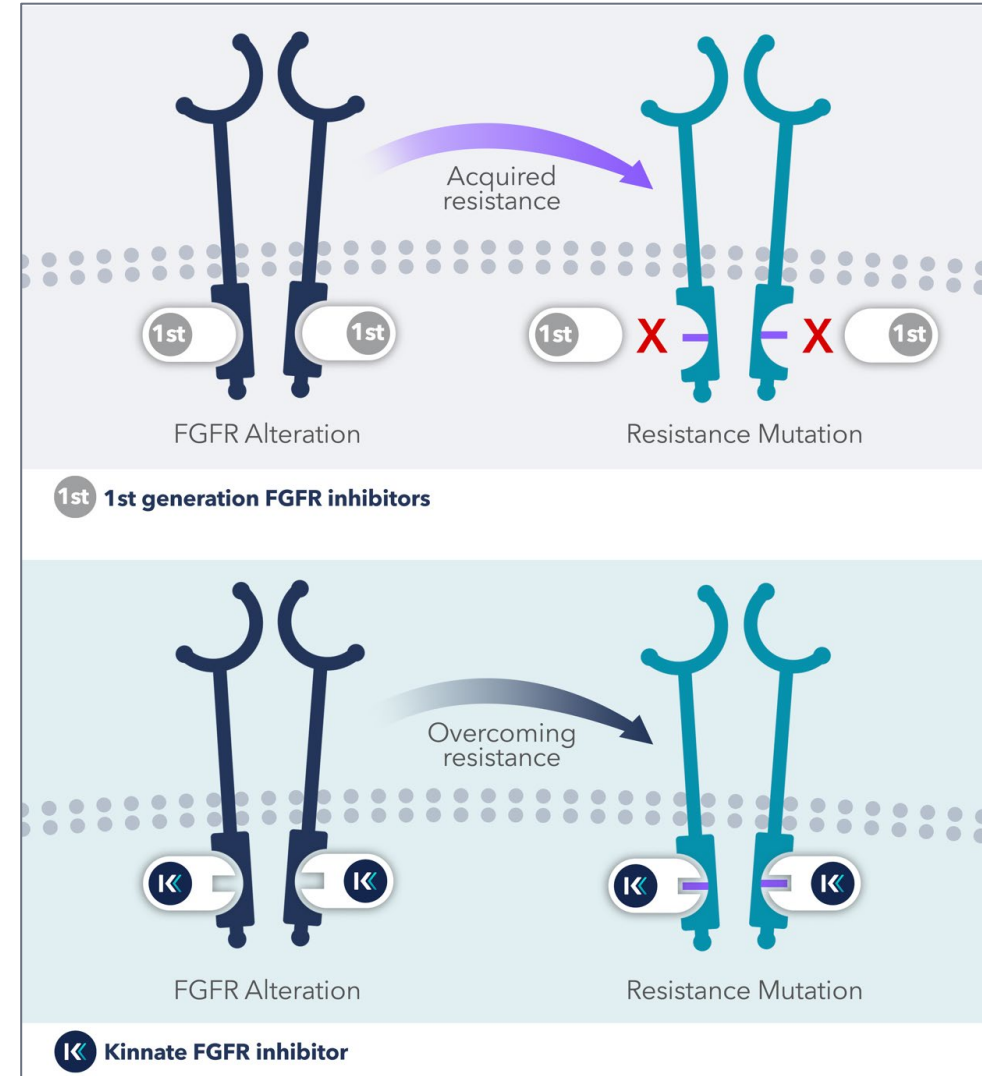
Kinnate FGFR 2/3 Inhibitor Program

KIN-3248 is a Potentially Potent, Highly Selective, Covalent FGFR Inhibitor

Acquired resistance limits clinical benefit of approved and in-development FGFR inhibitors

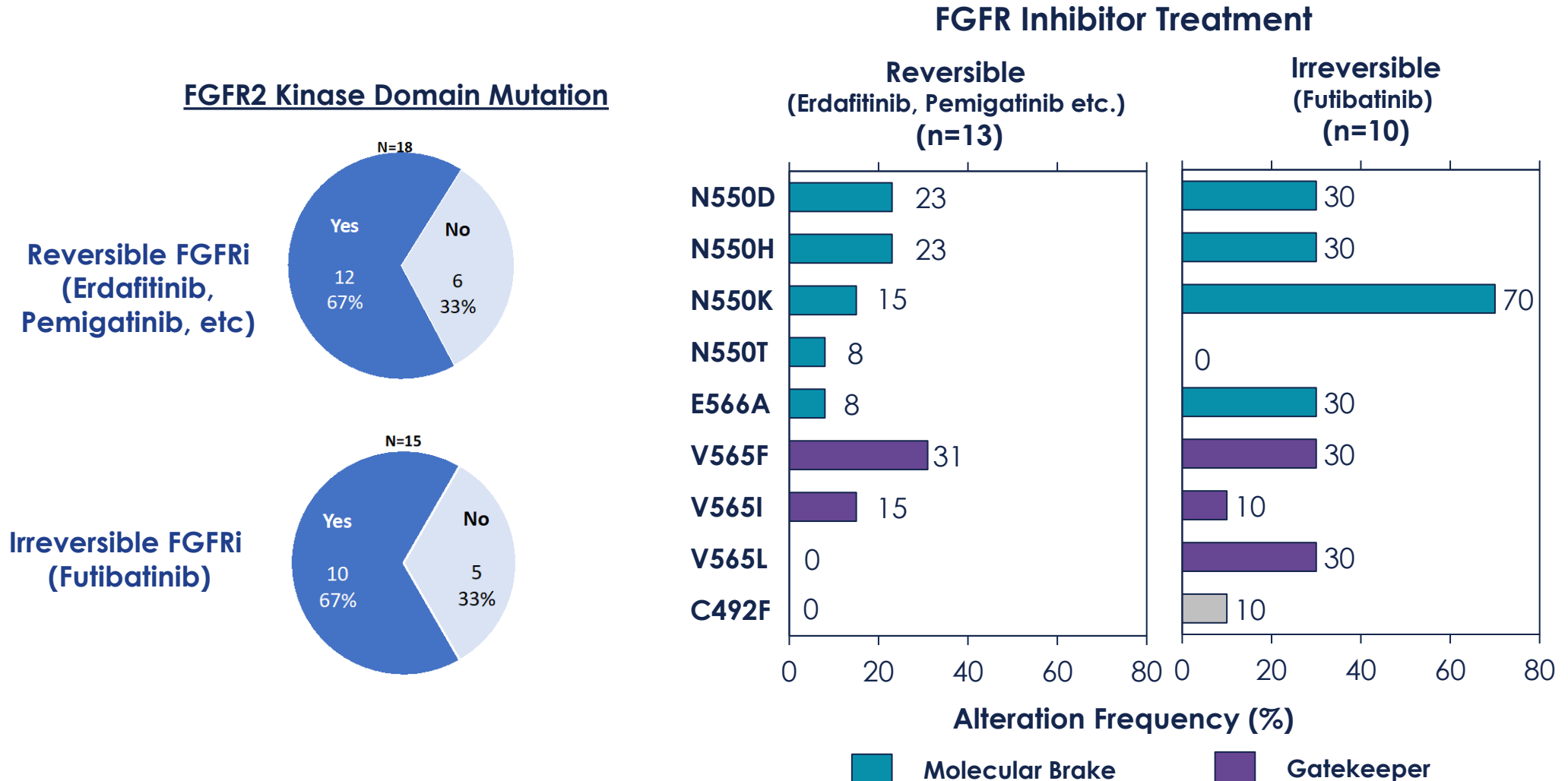
KIN-3248 Designed to Target

- FGFR2 & FGFR3 driver alterations in ICC & UC, and other tumor types
- Known & predicted 'on-target' FGFR2 & FGFR3 kinase domain mutations that confer clinical resistance (e.g., gatekeeper & molecular brake)
- FGFR1, R2 & R3 isoforms, thereby reducing opportunities for bypass resistance



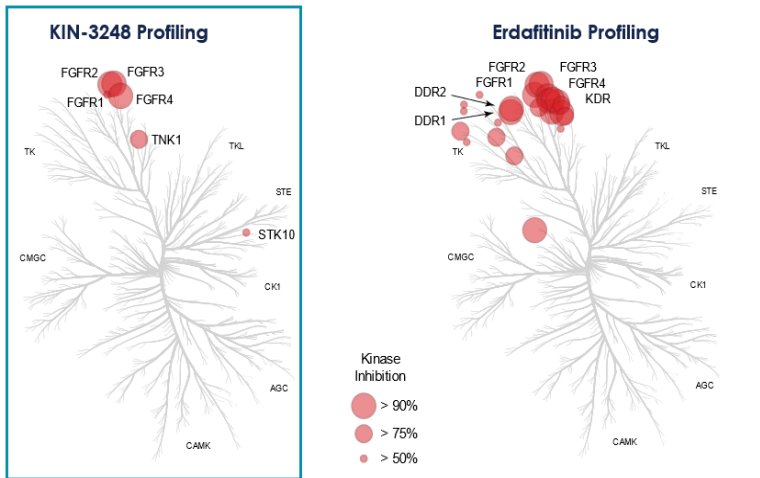
Meaningful On-Target Acquired Resistance to FGFR Inhibitors

67% of FGFRi-Treated ICC Patients Developed FGFR2 Kinase Domain Mutations at Progression

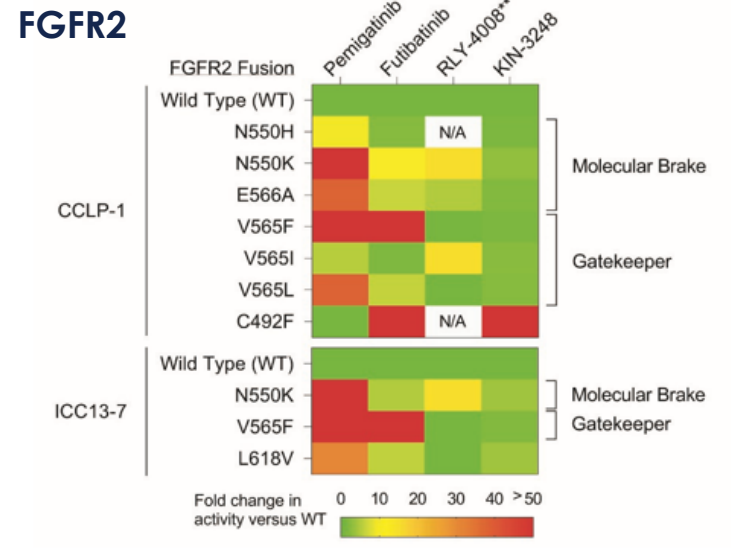


Preclinical Evidence Demonstrates KIN-3248 Directly Targets FGFR2/3 Driver Alterations and Acquired Resistance Mechanisms

KIN-3248 Displays A Selective & Differentiated Kinase Profile



KIN-3248 Inhibits Growth of FGFR2/3 Fusion+ Cells Harboring Secondary Resistance Mutations¹



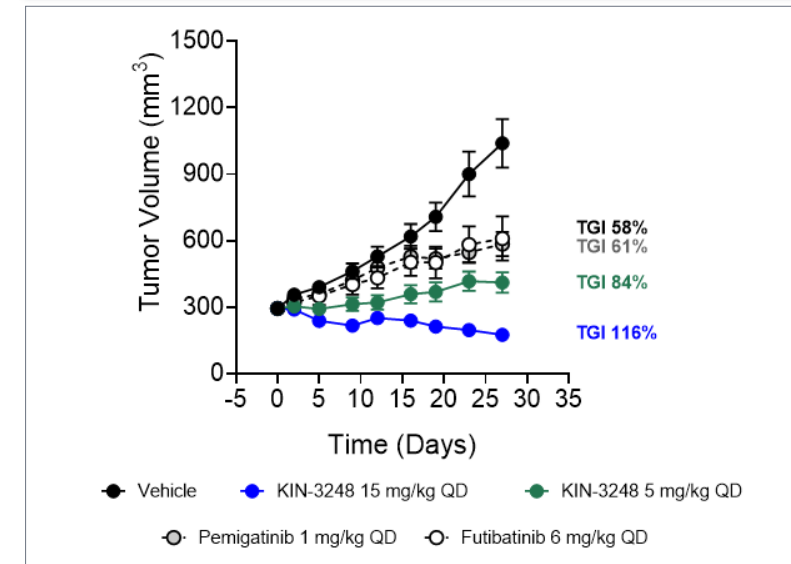
FGFR3

Fold change in activity versus WT

< 5X 5-10X 10-20X 20-50X > 50X

FGFR3 Fusion	Janssen Erdafitinib	Incyte Pemigatinib	BridgeBio / QED Infigratinib	Taiho Futibatinib	KIN-3248
N540K / R3 WT Molecular Brake	> 50X	> 50X	10-20X	5-10X	< 5X
V555M / R3 WT Gatekeeper	> 50X	> 50X	10-20X	5-10X	< 5X
K650M / R3 WT Activation Loop	5-10X	5-10X	10-20X	5-10X	< 5X

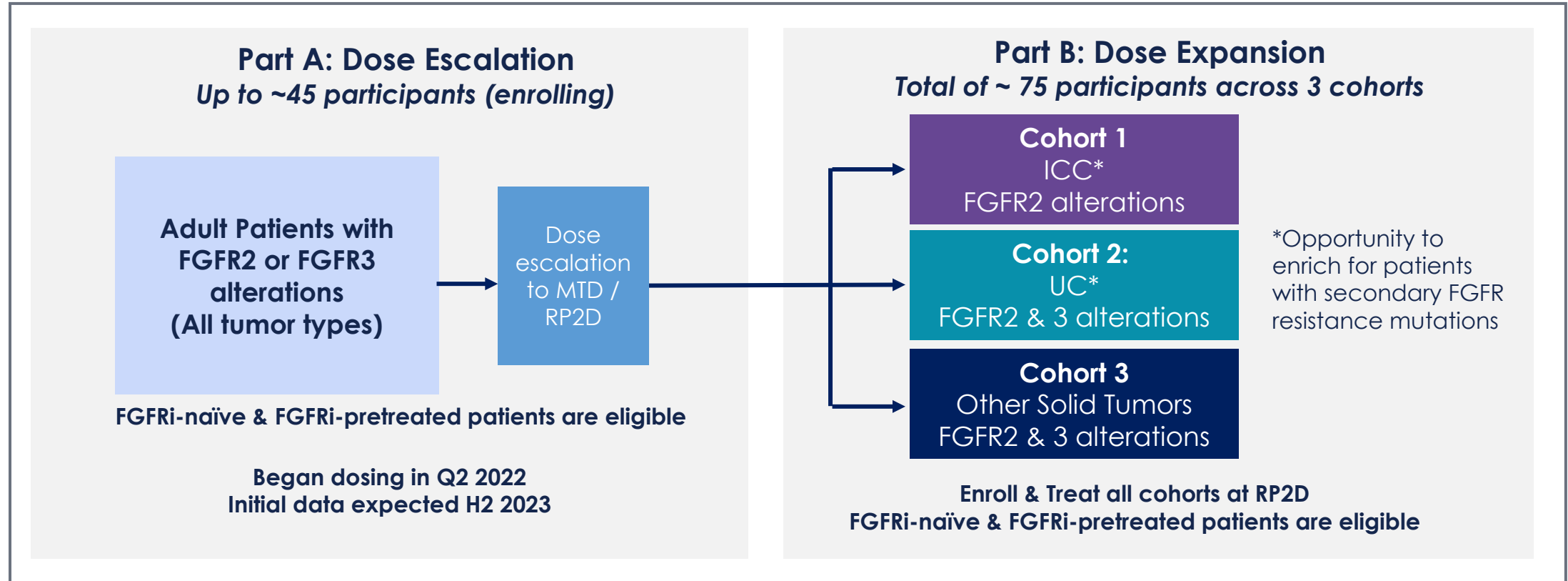
KIN-3248 Demonstrated Tumor Reductions Against Secondary, Acquired FGFR2 Gatekeeper Resistance Mutation *In Vivo*²



(1) Analysis includes Kinnate-generated data for clonal competition & cellular sensitivity experiments, apart from data for RLY-4008's profile that was abstracted from Relay's S1 public SEC filing (https://www.sec.gov/Archives/edgar/data/0001812364/000119312520192936/d904779ds1a.htm#rom904779_12). (2) Tumor growth inhibition (TGI) was calculated as follows: $TGI = (1 - (TV_f - TV_i)_{treated} / (TV_f - TV_i)_{control}) \times 100\%$, where TV_f is the final tumor volume and TV_i is the initial tumor volume.

KIN-3248 Development Plan: Ongoing Phase 1 Trial

Initial Dose Escalation Data Expected H2 2023



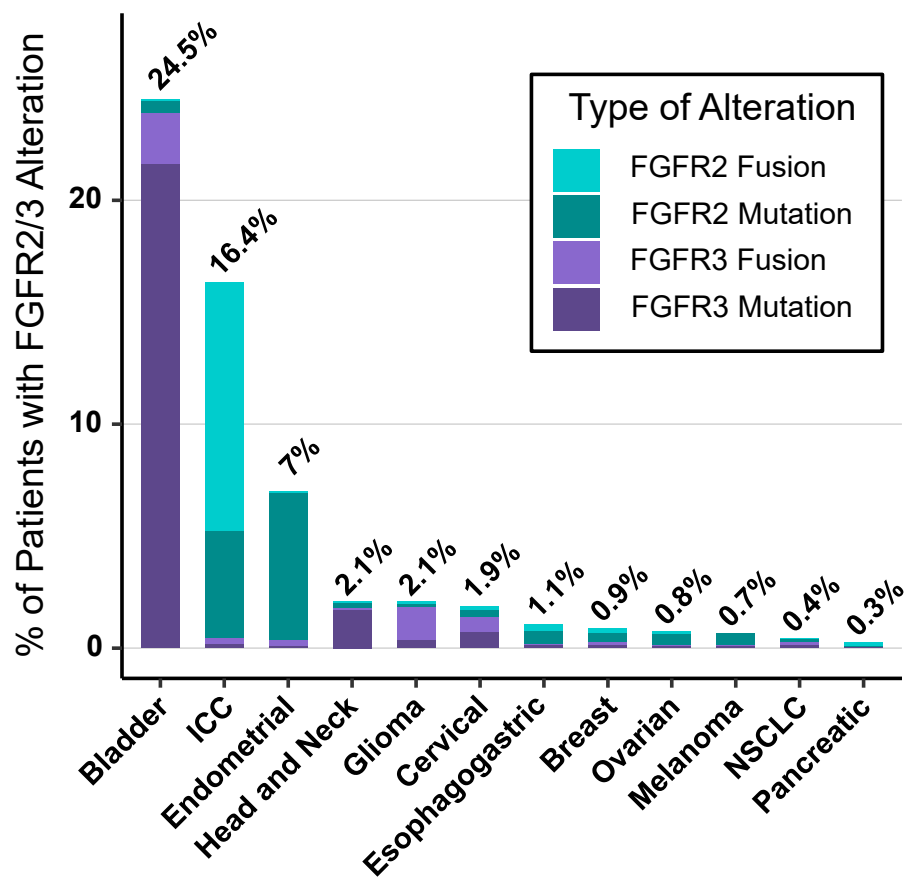
- Phase 1 trial objectives: Evaluate Safety, PK & PD; Establish MTD/RP2D; Assess preliminary anti-tumor activity ([NCT05242822](https://clinicaltrials.gov/ct2/show/study/NCT05242822))
- Population: Adults with advanced or metastatic solid tumors
- FGFR2 & FGFR3 gene alterations previously detected in tissue-based or blood-based genomic testing



FGFR Inhibitor Market Opportunity

Global Sales of FGFR Inhibitors are Expected to Reach >\$2B by 2028¹

Occurrence Rates of FGFR2 & FGFR3 Alterations by Tumor Type



KIN-3248 is designed to target FGFR2/3 alterations

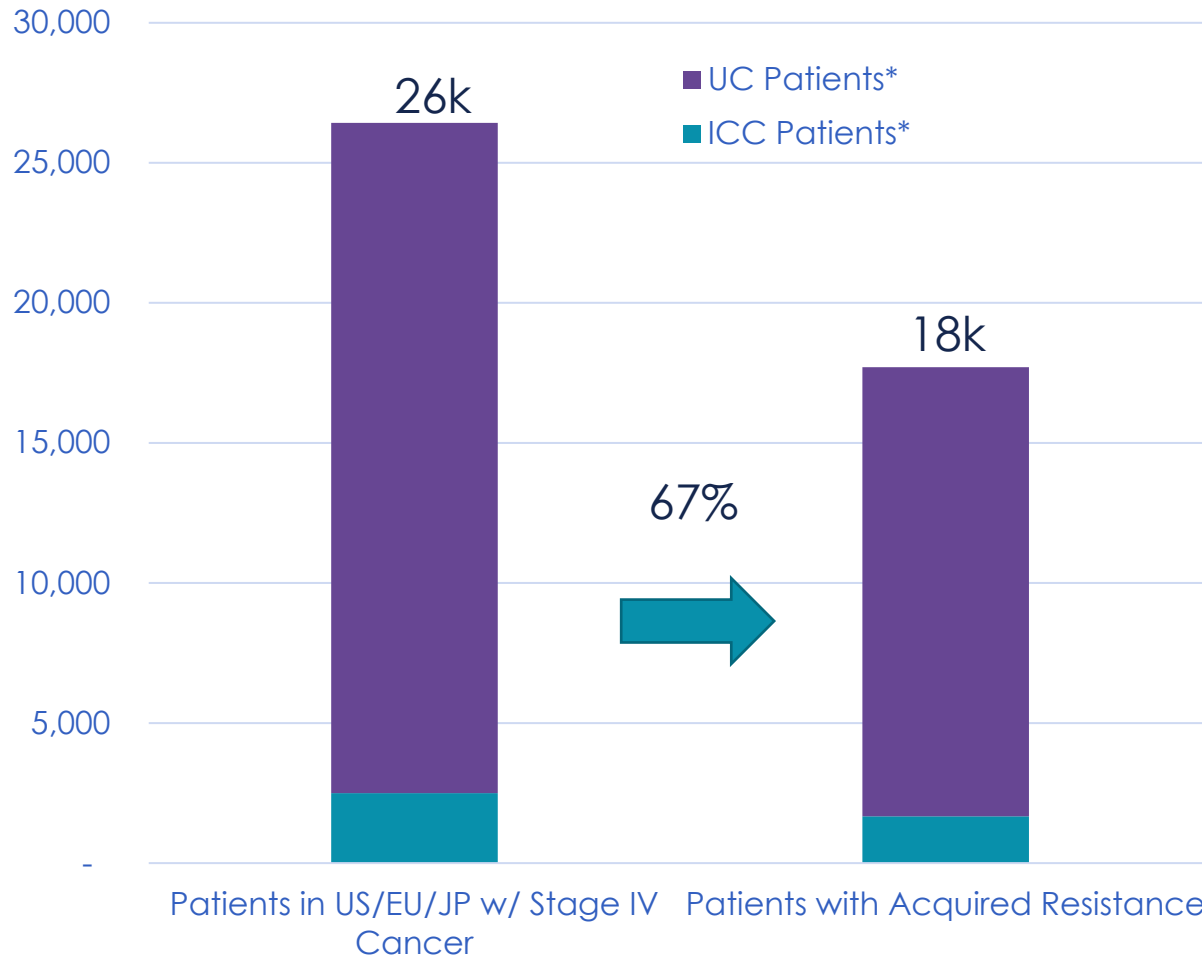
- FGFR2/3 alterations include fusions, mutations (indels and SNVs) and other rearrangements, which are likely oncogenic drivers of tumor
- FGFR2/3 amplifications are often not the primary drivers of solid tumors
- FGFR alterations are most common in UC and ICC, our primary focus
- FGFR alterations also found in other tumor types e.g., endometrial, breast, etc.

Data generated from AACR GENIE Project Data: Version 10.0-public Powering Precision Medicine Through An International Consortium. Cancer Discov 7(8): 818-831, 2017 (<https://genie.cbioportal.org/>). Analysis includes mutations that are annotated as at least *Likely Oncogenic* in oncoKB.org and rearrangements including fusions, intergenic and intragenic events. Unknown frame fusions were included, but out-of-frame fusions were not included. Source: Evaluate Pharma; includes analyst estimates of approved and development candidates, including erdafitinib, pemigatinib, futibatinib and RLY-4008. UC, urothelial carcinoma; ICC, intrahepatic cholangiocarcinoma



FGFR Inhibitor Market Opportunity – UC & ICC Patients

US, EU and Japan Patients with Active Disease



Growth Opportunities

- FGFR alterations have been found in other tumor types (e.g., breast)
- FGFR amplifications
- NGS technologies identify additional patients with FGFR alterations
- Geographic expansion (e.g., China)

*Reflects FGFR2 or FGFR3 Alterations

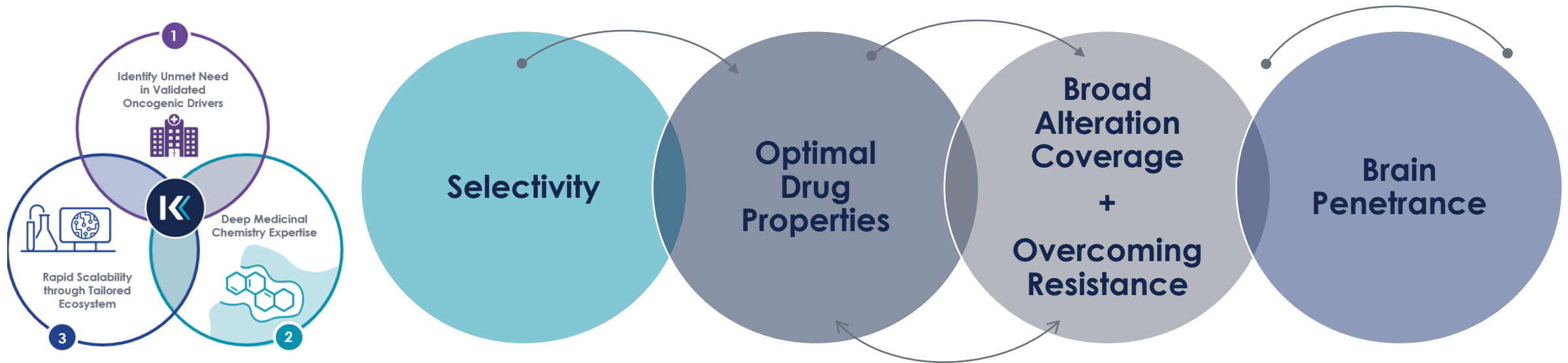
Kinnate calculations based on Kantar data (stage IV metastatic UC) and data generated from AACR GENIE Project Data: Version 10.0-public Powering Precision Medicine Through An International Consortium. Cancer Discov 7(8): 818-831, 2017 (<https://genie.cbioportal.org/>); Adapted from: Goyal et al., Landscape of Acquired Resistance to Selective FGFR Inhibitors in FGFR2 Fusion or Rearrangement+ Cholangiocarcinoma. EORTC-NCI-AACR Symposium (October 2020).





Kinnate Discovery Engine

Deep Expertise in Chemistry and Structure-based Drug Design Drives Pipeline of Highly Selective Compounds



MEK Inhibitor: KIN-7136



KIN-7136: Potential Best-in-Class Brain Penetrant MEK Inhibitor

Expected to Enter the Clinic in H2 2023



Target Product Profile & Differentiation

2022 sales of the 3 approved MEK products were ~\$1.1bn¹

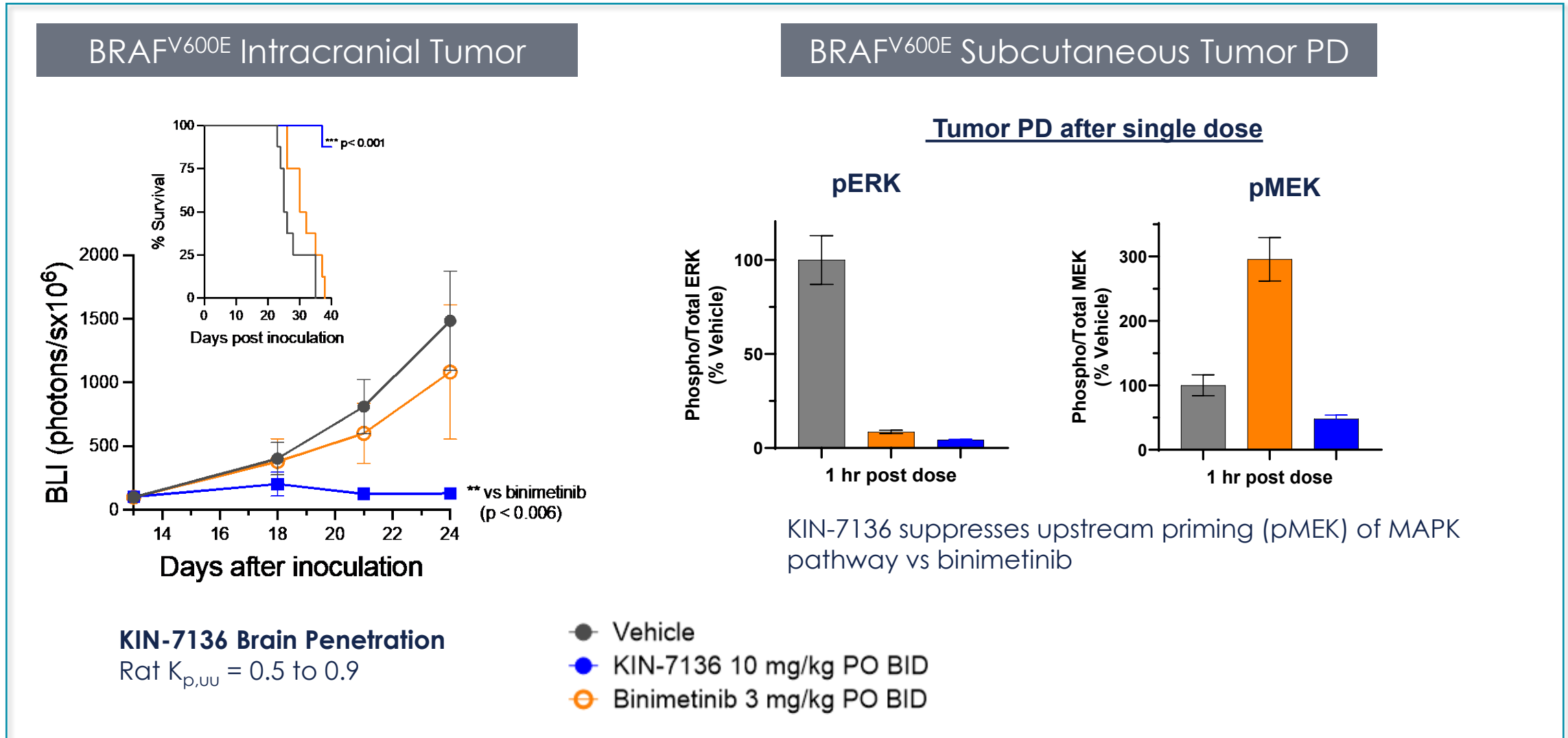
- ✓ Brain penetrant
- ✓ Highly selective, dual mechanism
- ✓ Quality drug-like properties
- ✓ Potentially paradigm-breaking simplicity of structure



(1) MEK inhibitors: Mekinist, Cotellic, Mektovi . Source: Company financial reports unless otherwise noted; Mekinist sales assumed to be 50% of Tafinlar + Mekinist sales (reported jointly). Mektovi sales only include U.S. and Japan.

KIN-7136 Inhibits Intracranial Tumor Growth

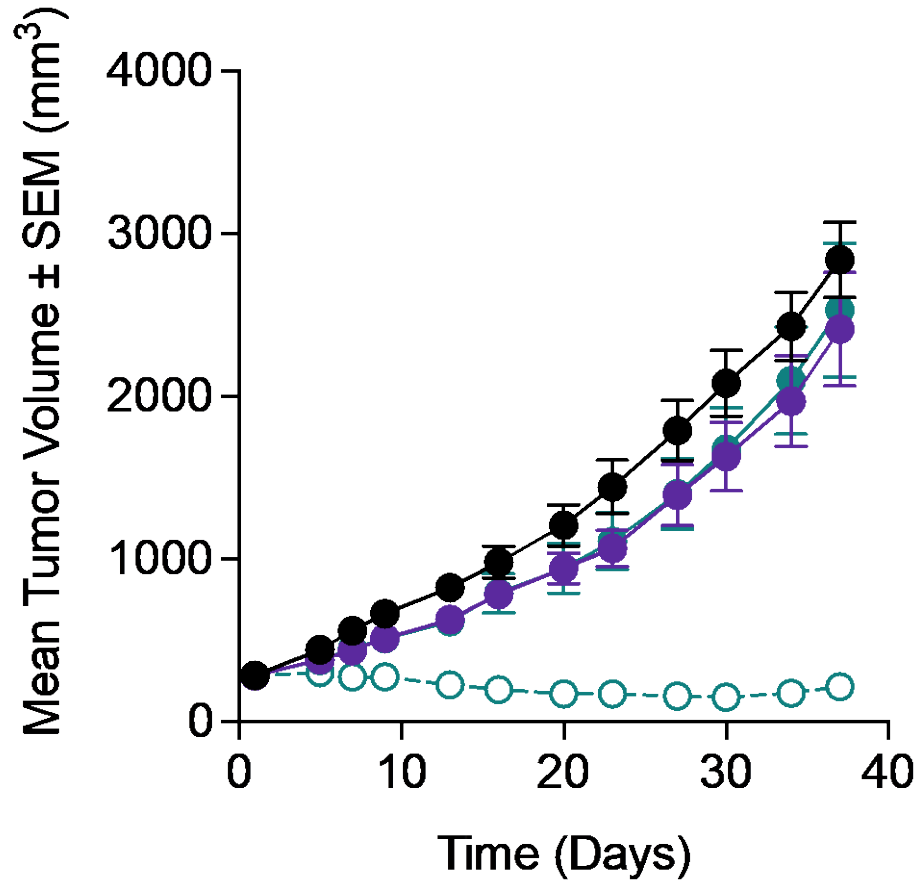
Dual Function Inhibits MEK Activity (pERK) and Suppresses Activation (pMEK) in BRAF Class I Melanoma



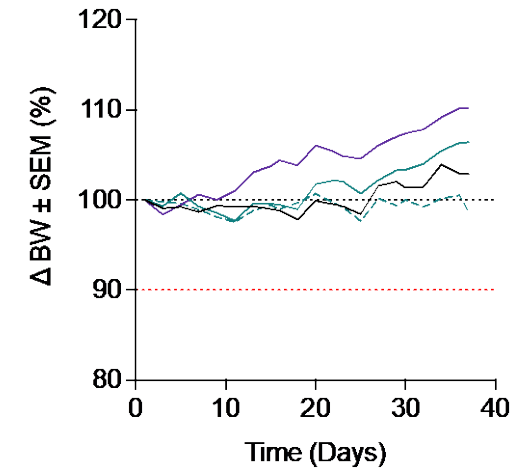
Study doses are exposure-matched to clinical exposure of binimetinib

KIN-7136 Provides Combination Benefit with Exarafenib Preclinically

Activity in NRAS^{Q61K} melanoma



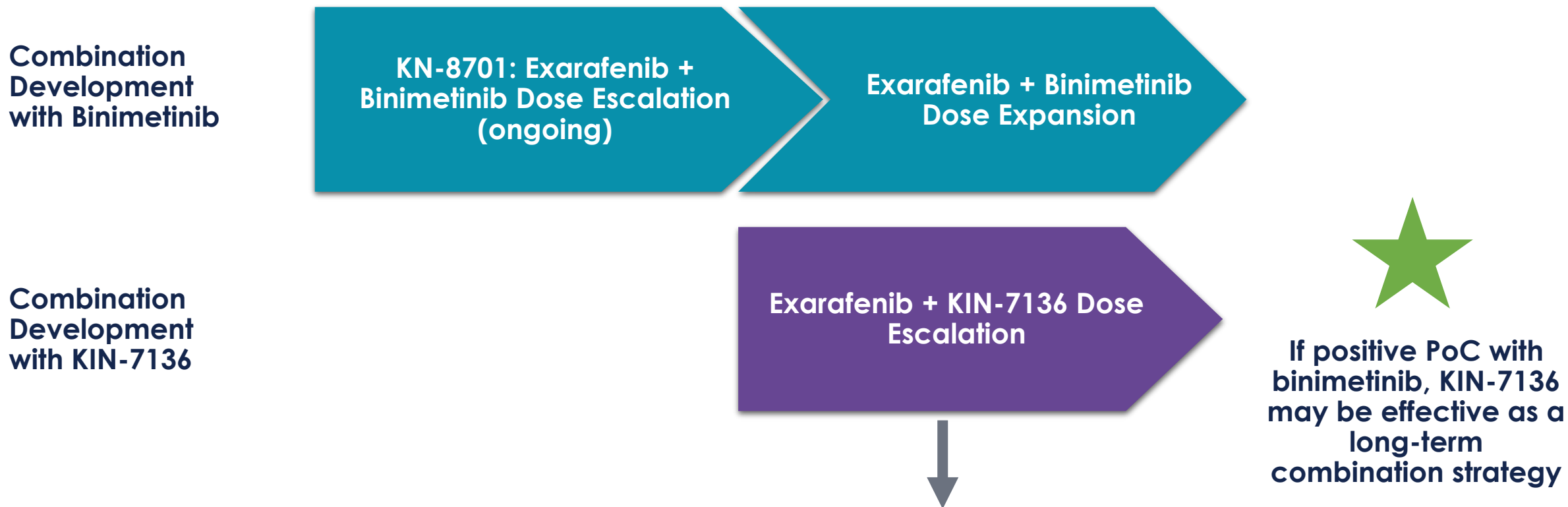
Change in Body Weight



Well-tolerated in all treatment groups

- Vehicle
- KIN-7136 (10 mg/kg BID)
- Exarafenib (10 mg/kg BID)
- KIN-7136 (10 mg/kg BID) + Exarafenib (10 mg/kg BID)

MEK Combination Development Strategy Built for the Long-Term



- 2 parallel cohorts – KIN-7136 monotherapy and combination with exarafenib
- Per FDA feedback, planned initiation of combination dose escalation after one cohort in monotherapy cleared
- Broad patient population to rapidly achieve MTD/RP2D – including BRAF, NRAS, KRAS and NF1 alterations

c-MET Inhibitor: KIN-8741



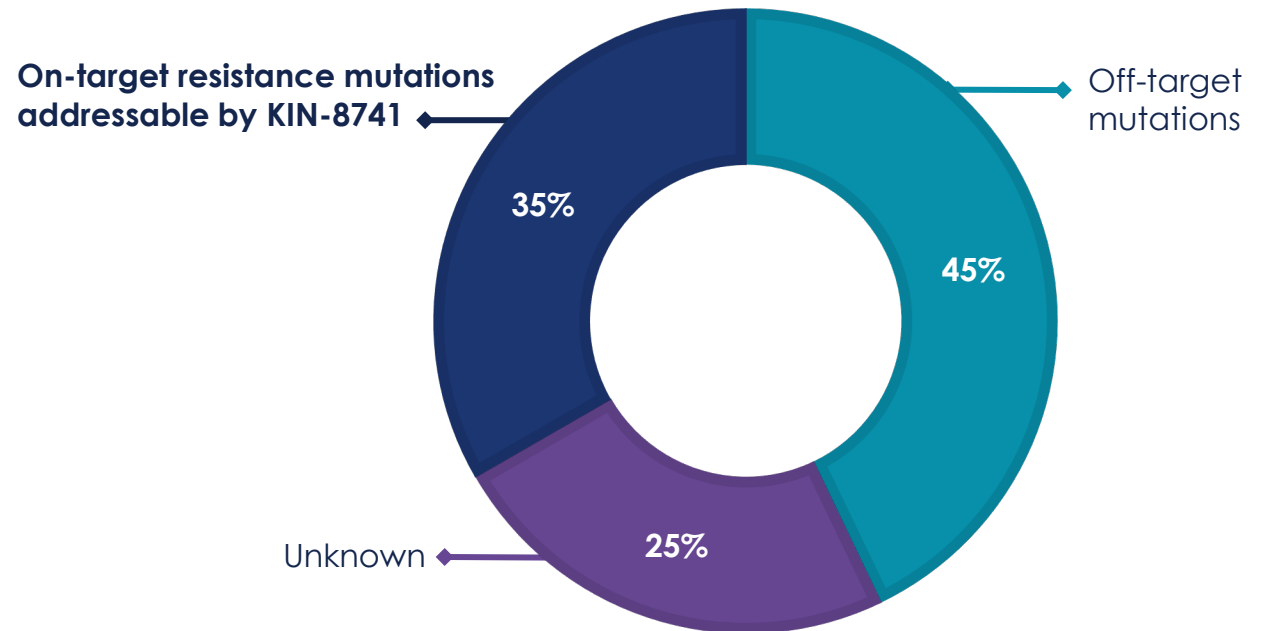
KIN-8741 Targets c-MET and Acquired Resistance Mechanisms

c-MET ~\$2B Potential Market¹ Represents Significant Commercial Opportunity for KIN-8741

KIN-8741 is designed to be a best-in-class c-METi for NSCLC with MET Δ exon 14 alterations and secondary resistance mutations

- 3-4% of NSCLC patients present with actionable MET Δ exon 14 alterations
- 35% develop on target resistance mutations with approved Type 1 MET inhibitors

Distribution of Mechanisms of Resistance to c-MET Inhibitors²



Acquired resistance limits clinical benefit of approved and in-development c-MET inhibitors



(1) Based on Global Data Wall Street consensus estimates for Tabrecta, Orpathys, Tepmetko, telisotuzumab vedotin, and elzovantinib for 2028E; (2) Recondo et al. Molecular Mechanisms of Acquired Resistance to MET Tyrosine Kinase Inhibitors in Patients with MET Exon 14-Mutant NSCLC. Clin Cancer Res 2020; 26:2615-25.

KIN-8741 Has Potential Best-in-Class Profile and Properties

Has Unique Binding Mode Unlike Prior Type I/II Inhibitors; Expected to Enter the Clinic in H1 2024

	KIN-8741	Type I approved inhibitors ¹	Type II inhibitors ²
Highly selective	✓	✓	X
Covers acquired resistance mutations	✓	X	✓
Quality drug-like properties	✓	✓	X

(1) Type I: Capmatinib, Savolitinib & Tepotinib

(2) Type II: Cabozantinib, Merestinib & Glesatinib

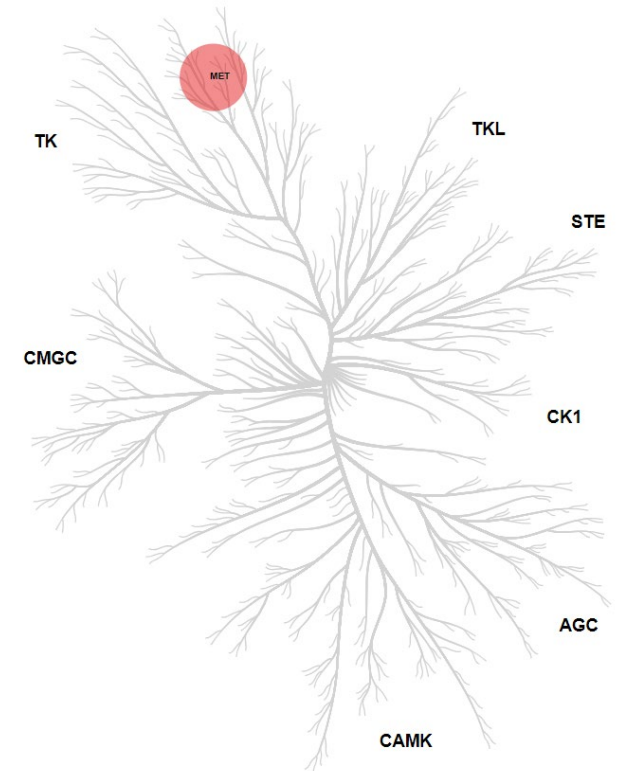
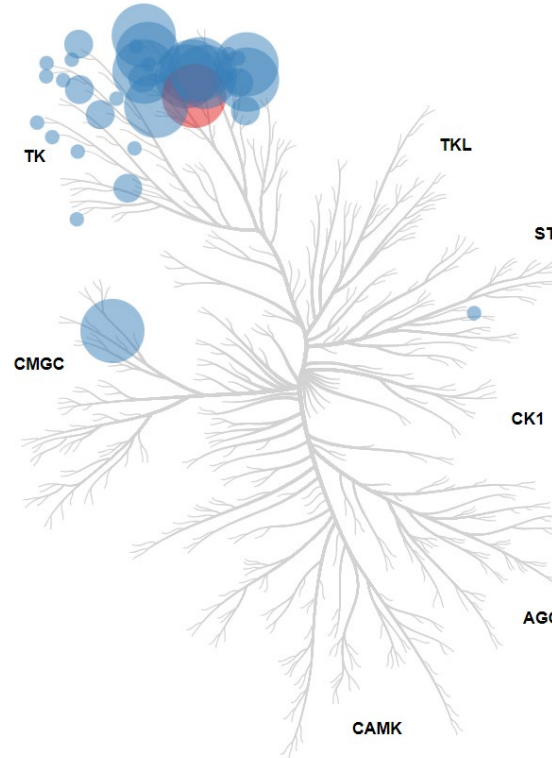
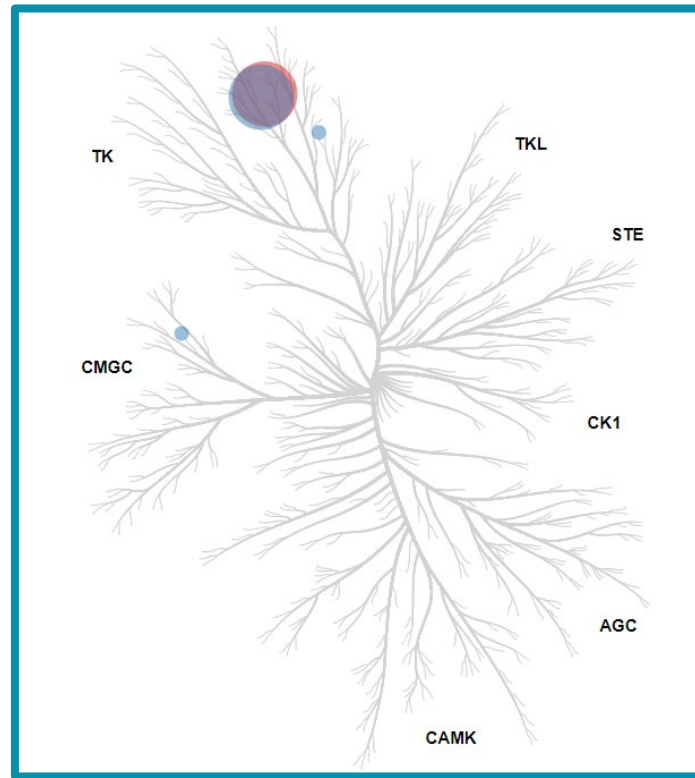
KIN-8741 Has Been Shown to be Highly Selective

Node Color

- Target
- Off-Target

Node Size

- 51-75
- 76-90
- 90-100



Kinase Inhibition	KIN-8741	Cabozantinib (Type II)	Capmatinib (Type I)
Non-MET # inhibited > 90%	1 (RON)	6	0
Non-MET # inhibited > 75%	1 (RON)	12	0

- Kinome wide enzyme inhibition profiling at 100 nM across > 695 kinases at Reaction Bio (including wild type, atypical, mutant)
- Only wild type kinases pictured in kinome trees

KIN-8741 Demonstrated Broad Mutation Coverage *In Vitro*

Inhibition of kinase activity (number of inhibited kinases at 100nM)

Biochemical Inhibition	KIN-8741	Cabozantinib (Type II)	Capmatinib (Type I)
#MET and MET mutants > 90%	26/28	4/28	2/28

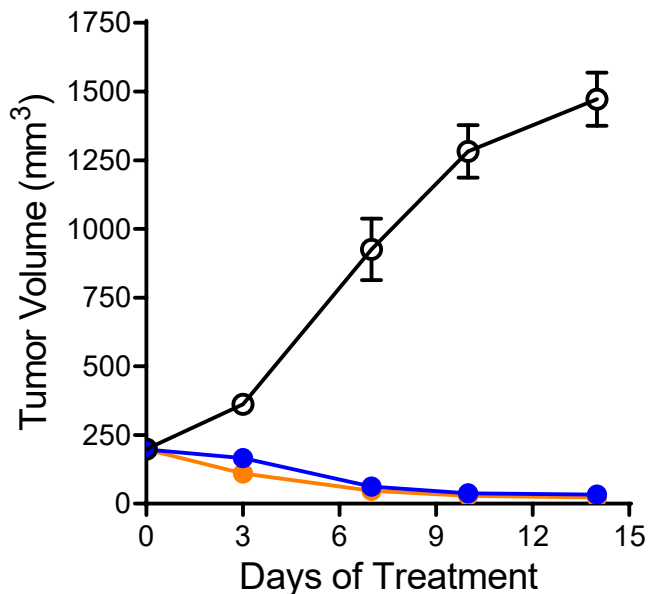
Cellular viability profiling in engineered TPR-MET Ba/F3 cells

Type	Compound	WT	D1228X/Y1230X					Other KD mutations		
			D1228N	D1228H	Y1230H	Y1230C	Y1230S	H1094Y	L1195V	F1200I
I	Capmatinib	2.9	10000	10000	10000	10000	10000	0.3	35	26.4
	Tepotinib	11.1	3290	3040	3410	2210	2810	0.6	123	122
II	Cabozantinib	53.3	190	368	44.9	39.4	35.6	53.2	1030	4480
	Merestinib	22.4	138	129	25.9	23.2	18	7.8	203	837
KIN-8741		14.8	5.1	3.3	9.5	12.7	9	7.3	52.6	20.1

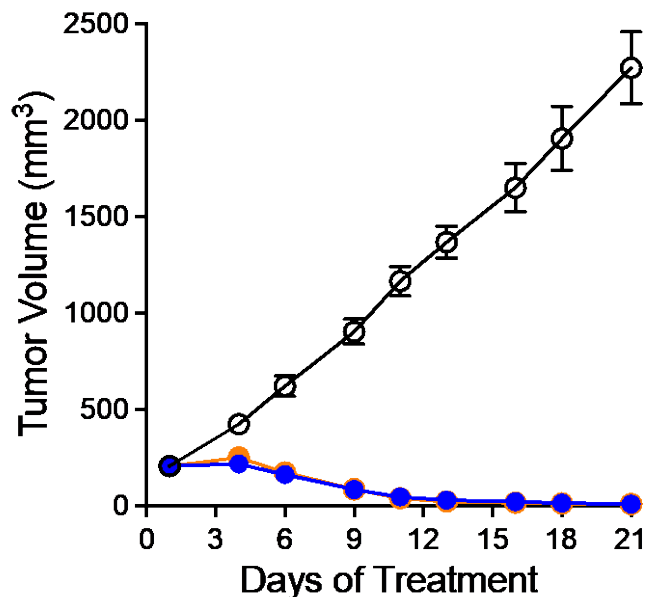
EC ₅₀ (nM)	<30	<100	<300	<1000	>1000

Antitumor Activity Achieved Across c-MET Mutation Models

Activating Alterations in NSCLC

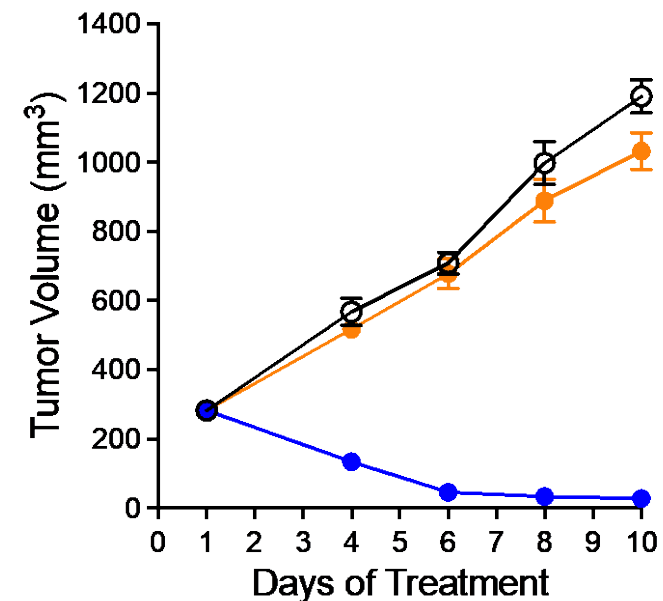


c-MET Δ ex14



c-MET Amp

Acquired Resistance to 1st Gen



c-MET-D1228N

Safety Profile

- No body weight changes in efficacy studies across doses or models
- Dose Range Finding Studies In-life Observations (2 weeks)
 - Rat: Tolerated up to 300 mg/kg (>30-fold the AUC that results in TGI₈₀)
 - Dog: Tolerated up to 75 mg/kg (>30-fold the AUC that results in TGI₈₀)

- Veh
- KIN-8741 60mg/kg BID
- Capmatinib 10mg/kg BID *

*Dose exposure matched to approved human dose

Key Company Facts

Offices: San Francisco and San Diego, California

Founded: 2018

NASDAQ listing: KNTE

Financials: \$231.2 million of cash*

Employees: 94

Pronunciation: KY-nate / kaɪ'neɪt /

*Our mission
is to inspire hope
for those battling cancer by
expanding on the promise
of targeted therapies.*

**Cash, cash equivalents and investments as of March 31, 2023

**Full-time employees as of March 31, 2023

