



KINNATE

B I O P H A R M A

Investor Presentation

February, 2020

Disclaimer

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 regarding the future financial condition, results of operations, business strategy and plans, and objectives of management for future operations of Kinnate Biopharma Inc. ("we," "us" or "our"), 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 and assumptions, including, among other things: the timing of the initiation, progress and potential results of our preclinical studies, clinical trials and our research programs; our ability to advance product candidates into, and successfully complete, preclinical studies and clinical trials; the timing or likelihood of regulatory filings and approvals; the negative impacts of the COVID-19 pandemic; our estimates of the number of patients who suffer from the diseases we are targeting and the number of patients that may enroll in our clinical trials; the commercializing of our product candidates, if approved; our ability and the potential to successfully manufacture and supply our product candidates for clinical trials and for commercial use, if approved; future strategic arrangements and/or collaborations and the potential benefits of such arrangements; our estimates regarding expenses, future revenue, capital requirements and needs for financing and our ability to obtain capital; the sufficiency of our existing cash and cash equivalents to fund our future operating expenses and capital expenditure requirements; our ability to retain the continued service of our key personnel and to identify, hire and retain additional qualified professionals; the implementation of our business model, strategic plans for our business and product candidates; the scope of protection we are able to establish and maintain for intellectual property rights, product candidates and our pipeline; our ability to contract with third-party suppliers and manufacturers and their ability to perform adequately; the pricing, coverage and reimbursement of our product candidates, if approved; and developments relating to our competitors and our industry, including competing product candidates and therapies.

These and other risks, uncertainties, assumptions and other factors are described in greater detail under the heading "Risk Factors" in the registration statement (including a preliminary prospectus) that we have filed with the SEC. 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. You 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. 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.

Certain information contained in this presentation relates to or is based upon our internal estimates and research and from academic and industry research, publications, surveys and studies conducted by third parties, including governmental agencies. Information that is based on estimates, forecasts, projections, market research or similar methodologies is inherently subject to uncertainties and actual events or circumstances may differ materially from events and circumstances that are assumed in this information. While we believe that the data we use from third parties are reliable, we have not separately verified this data. Further, while we believe our internal research is reliable, such research has not been verified by any third party. Investors are cautioned not to give undue weight to any such information, projections and estimates.

We have filed a registration statement (including a preliminary prospectus) on Form S-1 (File No. 333-250086) with the SEC for the offering to which this presentation relates. Before you invest, you should read the preliminary prospectus in that registration statement and other documents we have filed with the SEC for more complete information about us and this offering. You may get these documents for free by visiting the SEC website at <http://www.sec.gov>. Alternatively, copies of the prospectus may be obtained from Goldman Sachs & Co. LLC, Attention: Prospectus Department, 200 West Street, New York, NY 10282, by telephone at (866) 471-2526, or by email at prospectus-ny@ny.email.gs.com; SVB Leerink LLC, Attention: Syndicate Department, One Federal Street, 37th Floor, Boston, MA 02110, by telephone at (800) 808-7525, ext. 6132, or by email at syndicate@svbleerink.com; or Piper Sandler & Co., 800 Nicollet Mall, J12S03, Minneapolis, MN 55402, Attn: Prospectus Department, by telephone at (800) 747-3924, or by email at prospectus@psc.com.



This presentation shall not constitute an offer to sell or the solicitation of an offer to buy these securities, nor shall there be any sale of these securities in any state or jurisdiction in which such offer, solicitation or sale would be unlawful prior to registration or qualification under the securities laws of any such state or jurisdiction.

Kinnate: Kinase Inhibitors for Genomically Defined Cancers

Striving to Expand the Promise of Precision Medicine in Oncology

Programs

Multiple compounds advancing to the clinic in next 12-18 months

- All developed in house with IP & commercial rights fully retained

Lead RAF program targets large population not served by current approved RAF inhibitors

- IND filing expected in H1 2021

FGFR program targets significant unmet need of resistance to current FGFR inhibitors

- IND filing expected in H1 2022

R&D pipeline of additional compounds, including CDK12 inhibitor with synthetic lethality mechanism

Platform

Productive Kinnate Drug Discovery Engine powered by structure-based drug discovery, translational research and patient-driven precision medicine

People

Experienced management team responsible for multiple approved precision oncology drugs

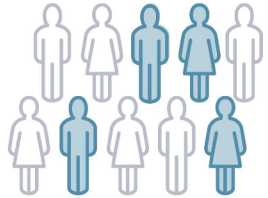
Strong scientific collaborations and KOL relationships with leading academic and medical centers

Funded by leading life science investors including Foresite, Orbimed and RA Capital



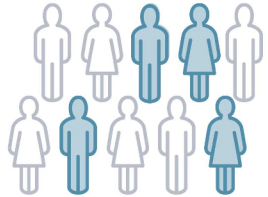
Limitations of Current Targeted Therapies Drive Clinical Need

Our Research and Development Programs Will Focus on Three Patient Populations



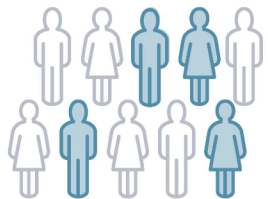
Target known oncogenic drivers in cancers that are not addressed by approved therapies.

- Example: KIN002787, our Class II and Class III BRAF-targeting small molecule kinase inhibitor



Overcome acquired resistance mutations to existing targeted therapies, potentially improving the durability of response.

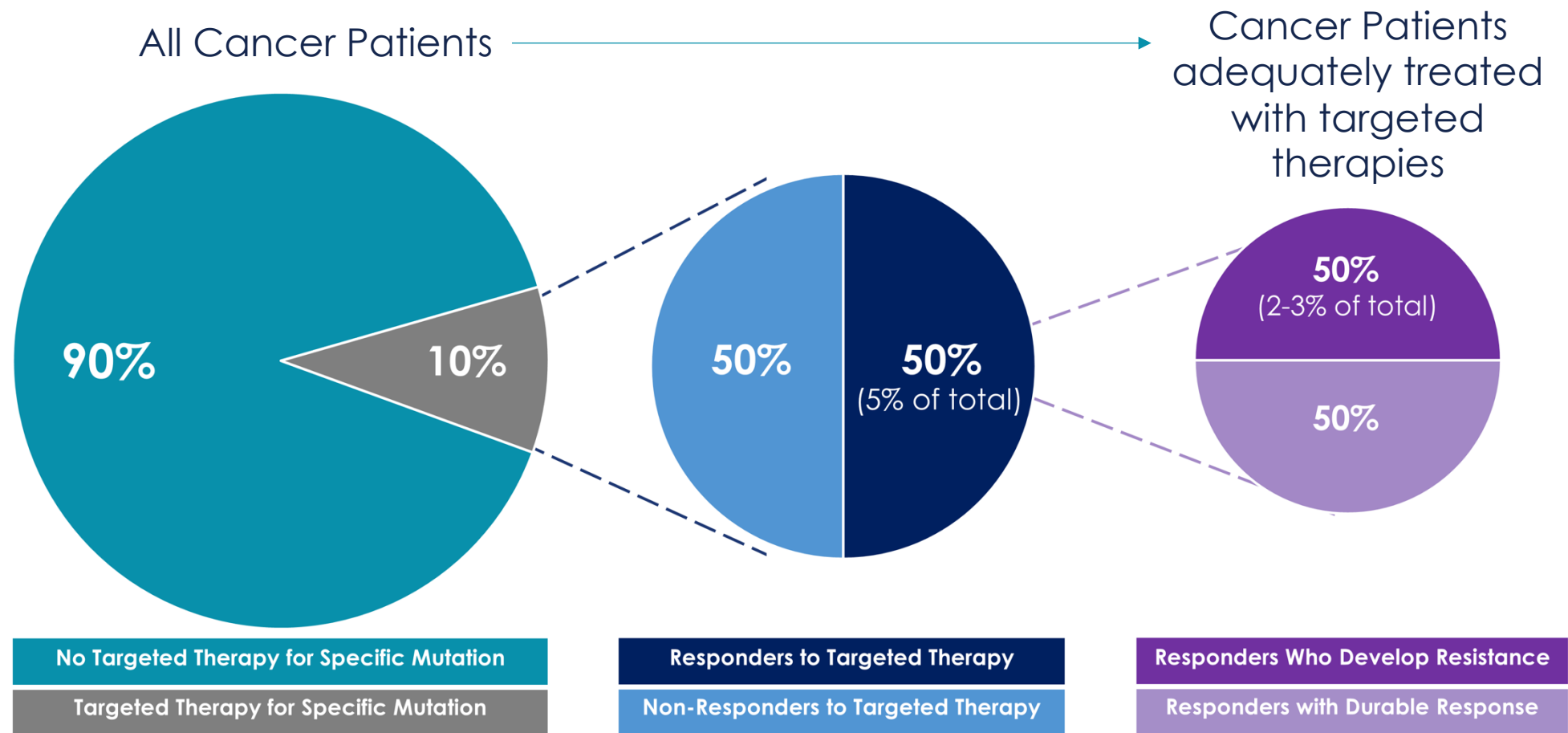
- Example: KIN003, our FGFR2/3-targeting small molecule kinase inhibitor



Treat non-responders to approved therapies by identifying genomic drivers of intrinsic resistance through advanced technologies.

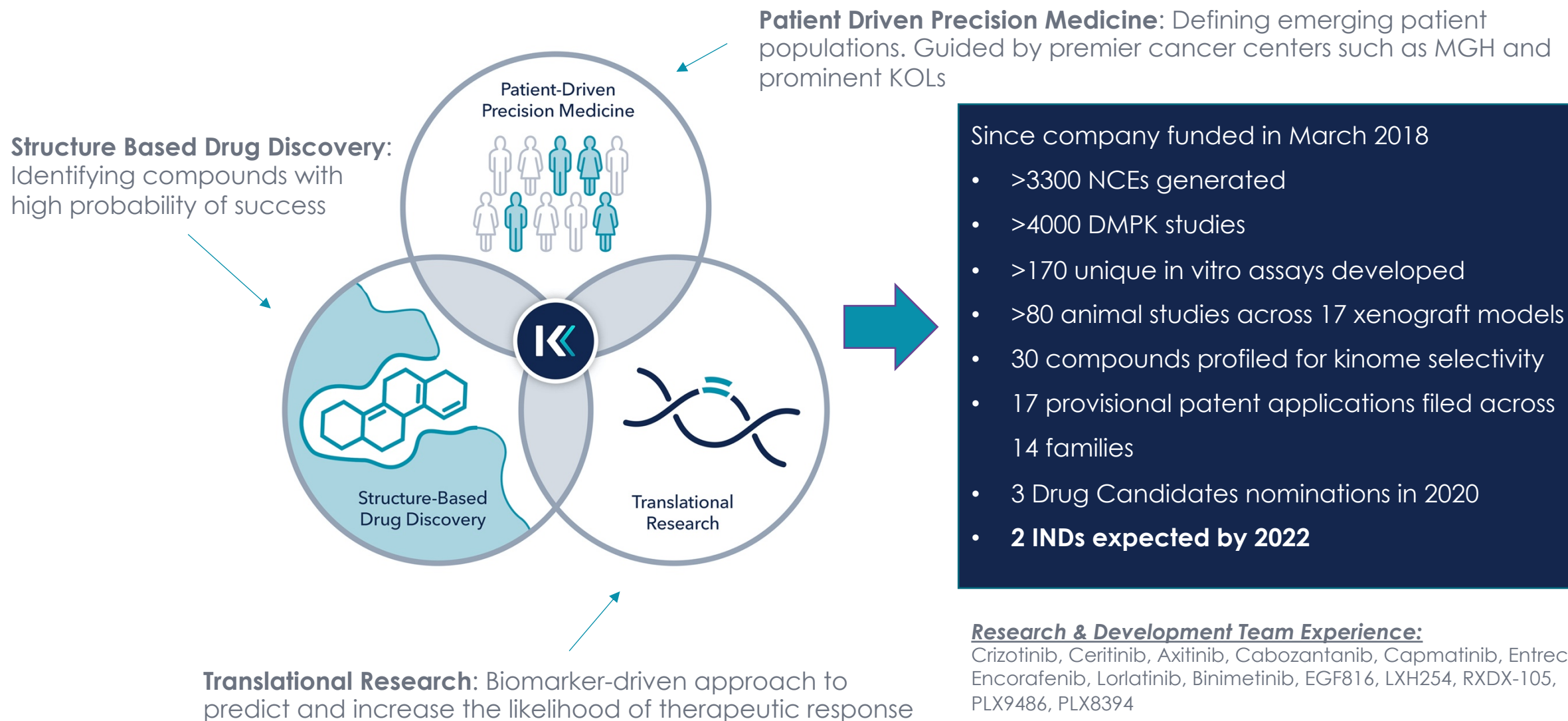
- Example: KIN004, our selective CDK12 kinase inhibitor

Substantial Opportunity in Targeted Therapies for Oncology






Source: Marquart JAMA ONOCLOGY 2018 <https://pubmed.ncbi.nlm.nih.gov/29710180/>; data available in USPIs for targeted cancer therapies approved in the US

Kinnate Drug Discovery Engine



Kinnate Pipeline

Target, Program	Discovery	Lead Optimization	IND- Enabling	Phase 1	Phase 2	Phase 3	Next Anticipated Milestones
RAF KIN002787							IND H1 2021 Initiate Phase 1 in 2021
FGFR2/3 KIN003							IND H1 2022 Initiate Phase 1 in H1 2022
CDK12 KIN004							

Kinnate also working on other undisclosed targets in Research stage

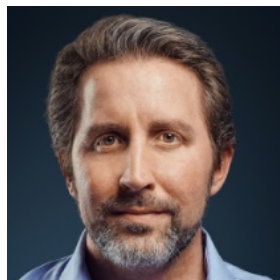
Kinnate Team

Creators of Multiple Marketed Drugs and High Value Exits



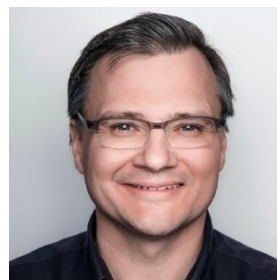
Nima Farzan
CEO

- CEO PaxVax (BLA approval, M&A exit)
- Novartis – global & US commercial and development roles



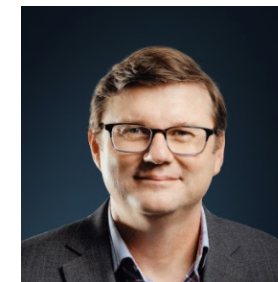
Eric Murphy, PhD
CSO, Co-Founder

- Novartis, CrownBio, Samumed, Moores UCSD Cancer Center
- Contributions: **Braftovi**, **Mektovi**, **LXH254**, Zykadia, Tarectiva, EGF816



Steve Kaldor, PhD
BOD, Co-Founder

- >\$2B M & A Value as CEO/Founder
- Inventor of Viracept, Nesina, Zafatek



Richard Williams, MD
CMO

- Wuxi NextCode, GRAIL, Puma & Amgen
- Led Amgen's early oncology program



Eric Martin, PhD
SVP, Translational Medicine

- Pfizer, Ignyta, Plexxikon
- Contributions: Palbociclib, Entrectinib, PLX9486, **PLX8394**



Sanjeev Thohan, PhD
VP, Non-Clinical Development

- AZ, Exelixis, Novartis
- Over 35 INDs (20+ in Oncology)
- Contributions: Cabozantinib, Tafenoquine, Glucagon approvals



Mark Meltz
COO & GC

- Led \$3.5B Corporate Development Transactions
- Public company GC (Audentes)
- Novartis, Biogen, PaxVax, Audentes



Rob Kania, PhD
SVP Drug Discovery

- Led Pfizer Cancer Chemistry group
- Co-inventor of 13 DCs
- Co- Inventor of Inlyta (axitinib), Xalkori (crizotinib), Lorbrena (lorlatinib)



Kinnate Board of Directors

Kinnate Well-Funded \$157M* on Hand +\$276M Gross Proceeds from IPO

Series A: March 2018-April 2019

- **Foresite Capital**
- Eshelman Ventures
- \$19m raised



Jim Tananbaum
*Board Member
Foresite*



Michael Rome
*Board Member
Foresite*



Carl Gordon
*Board Member
Orbimed*

Series B: December 2019

- **OrbiMed**
- Foresite Capital, Nextech Invest, Vida Ventures, Eshelman Ventures
- \$74.5m raised



Keith Flaherty
*Board Member
Independent - MGH*



Dean Mitchell
*Board Chairman
Independent*



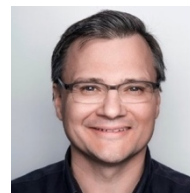
Laurie Smaldone
*Board Member
Independent*

Series C: July-August 2020

- **RA Capital**
- Existing investors plus
- Viking, Fidelity, Venrock, Surveyor/Citadel, Boxer, Janus, Logos
- \$98m raised



Melissa Epperly
*Board Member
Independent*



Steve Kaldor
*Board Member
Kinnate Co-founder*



Nima Farzan
*Board Member
Kinnate CEO*



*Cash and cash equivalents as of Sept 30th 2020

Kinnate Scientific Collaborators

Leaders in the Field of Precision Oncology

Scientific Advisory Board



Keith Flaherty

- Professor, Harvard Medical School
- Director of Clinical Research, MGH Cancer Center
- Director, MGH Termeer Center for Targeted Therapy
- Loxo co-founder; RAF expert



Andy Lowy

- Chief, Surgical Oncology
- PDAC expert



Luis Diaz

- Head of the Division of Solid Tumor Oncology, Memorial Sloan Kettering Cancer Center



Memorial Sloan Kettering Cancer Center



Ryan Corcoran

- Associate Professor, Harvard Medical School
- Scientific Director, MGH Termeer Center for Targeted Therapy
- RAF & FGFR expert



Ezra Cohen

- Co-Director San Diego Center for Precision Immunotherapy
- Assoc. Dir, Translational Science



John Iafrate

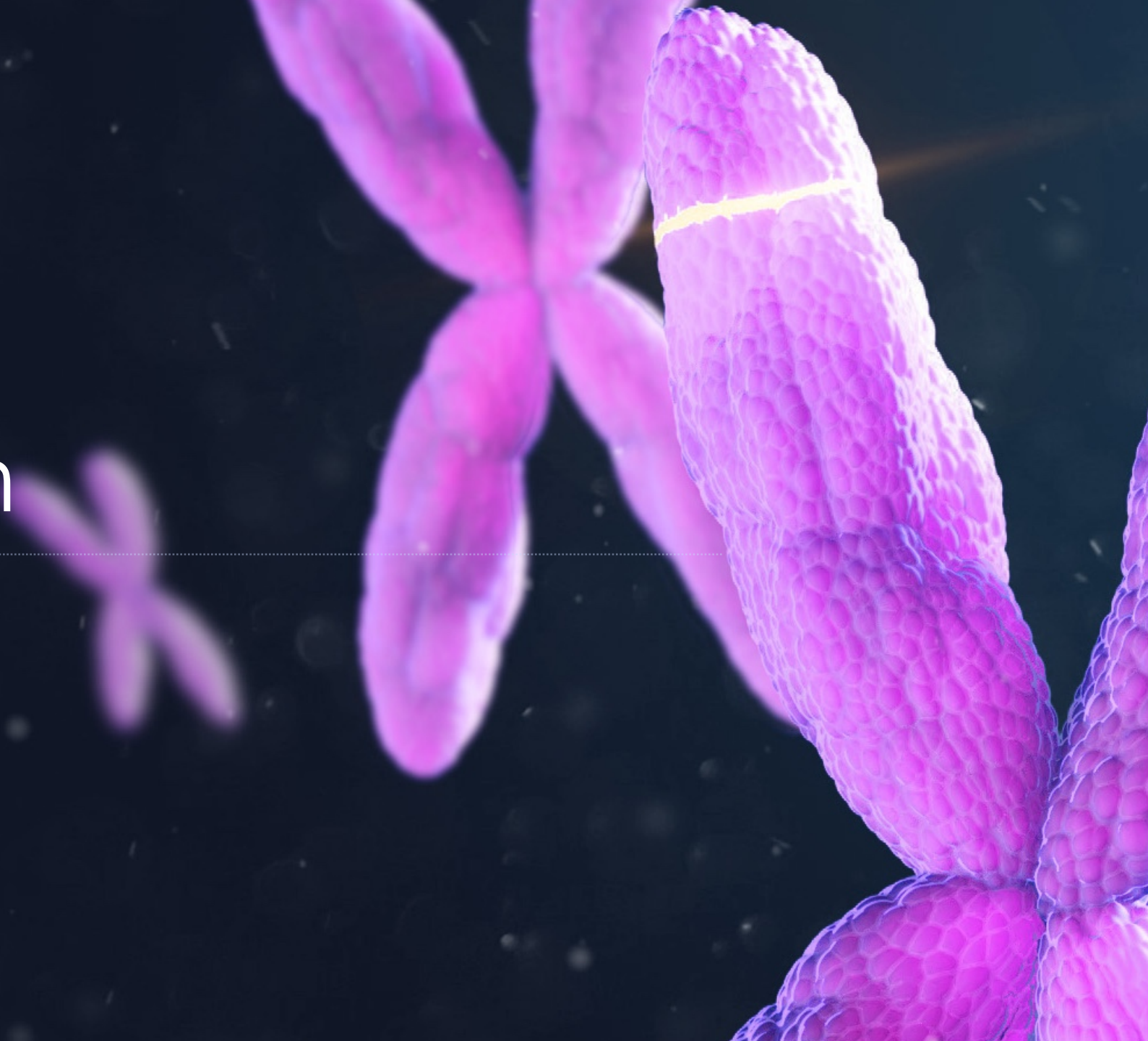
- Director of Center for Integrated Diagnostics at MGH
- Professor Pathology at Harvard Medical School



"I am a deeply invested advisor actively steering Kinnate's portfolio maturation and spending a large majority of my efforts advising Kinnate following the acquisition of Loxo by Eli Lilly ." – Keith Flaherty

RAF Program

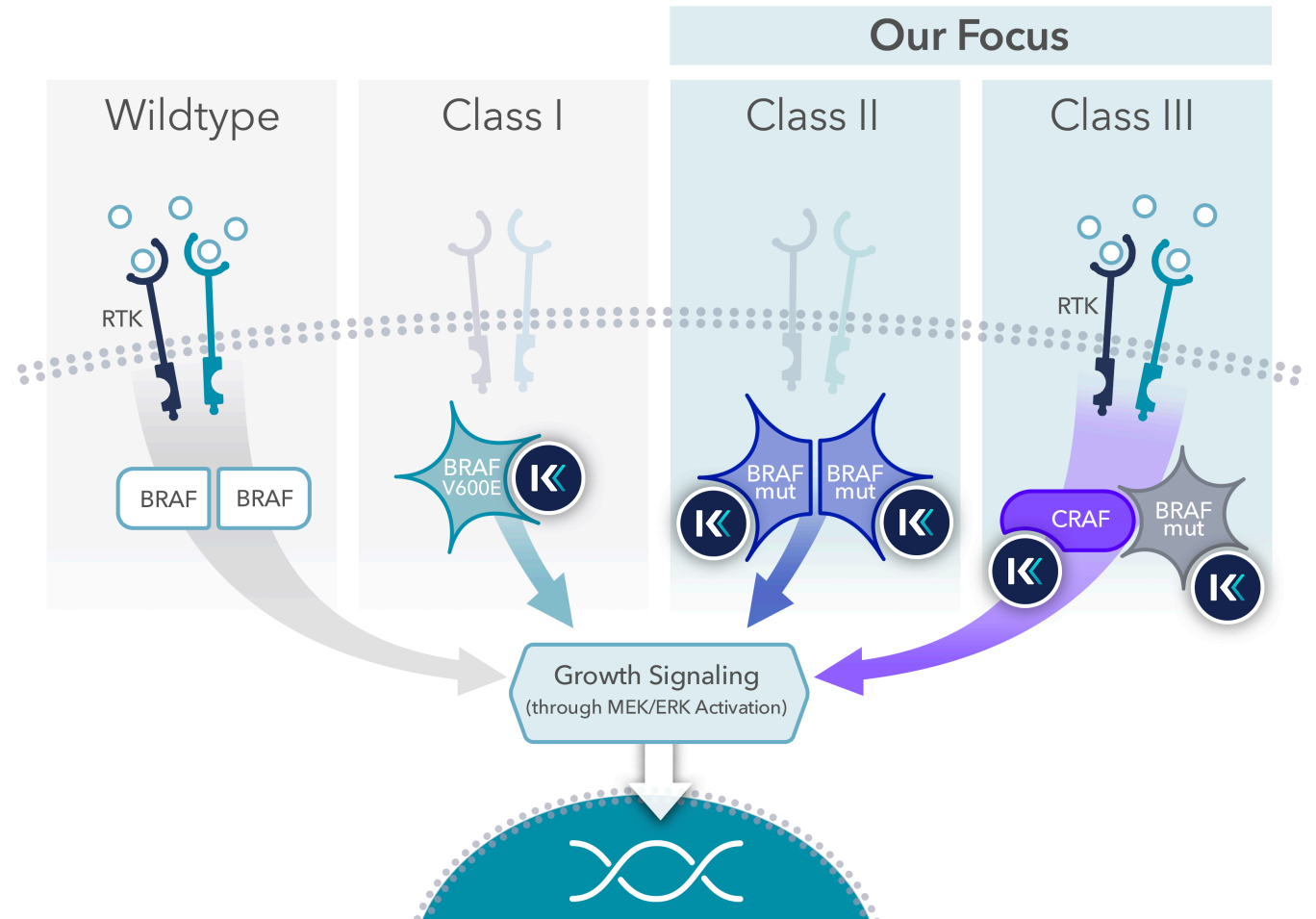
KIN002787



The RAF Opportunity

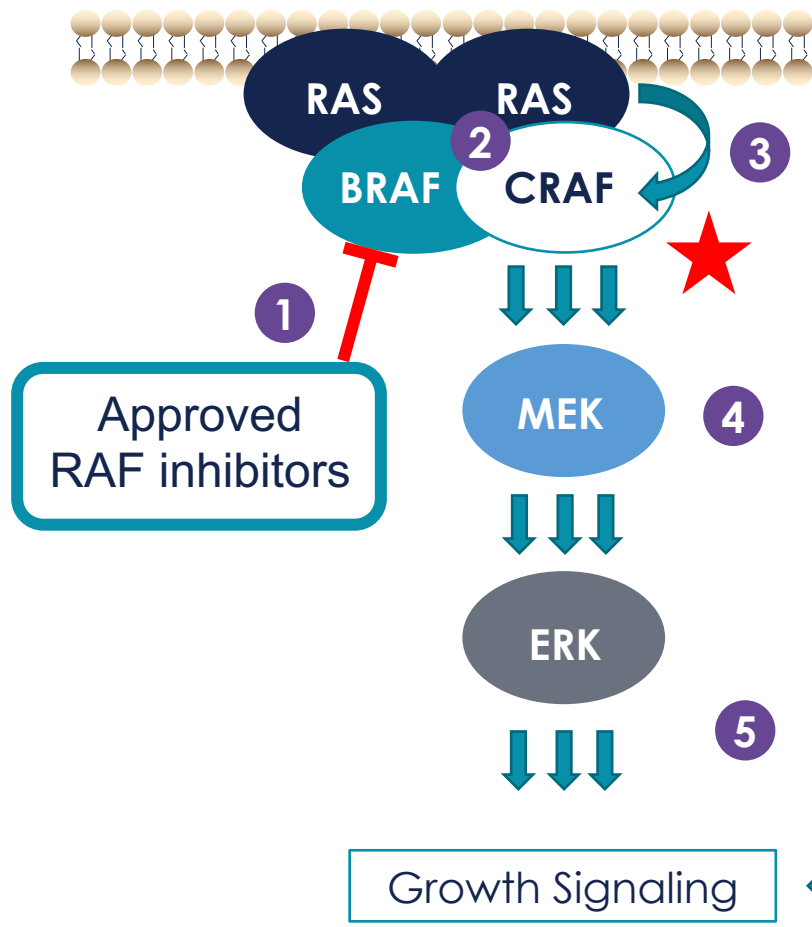
Targeting BRAF Mutant Populations Without Approved Precision Therapies

- Approved Class I BRAF inhibitors include Vemurafenib, Dabrafenib, Encorafenib
- The Class II and Class III BRAF mutants represent a patient population with unmet need
- Kinnate's approach targets dimer signaling in these patient populations while minimizing MAPK pathway rebound in normal wild type signaling



Inhibition of Both RAF Kinases in Dimer is Required

Otherwise Transactivation drives MAPK signaling and Pathway Activation



- 1 BRAF Inhibitor binds to BRAF Target
- 2 BRAF + CRAF heterodimerize, recruited to RAS
- 3 Transactivation of CRAF via RAS binding
- 4 MEK and ERK activation
- 5 Elevated growth promoting signaling

- ★ Paradoxical activation from BRAF with altered drug binding site due to asymmetric dimerization or CRAF in heterodimer
- Need molecule that can inhibit second kinase active site

- Why approved BRAF inhibitors can cause squamous cell carcinoma (SCC) in skin cells
- Why Class I BRAF inhibitors are often combined with a MEK inhibitor

Pathway Rebound & Target Coverage Present Challenges

These Limitations Have Been Seen in Prior Attempts in Class II & Class III (LXH254 & PLX8394)

Pathway Rebound:

- Occurs when the non-inhibited BRAF molecule in the RAF dimer is activated
- Observed with both approved and In-development RAF inhibitors
- Occurs as drug concentrations approach & dip below effective levels



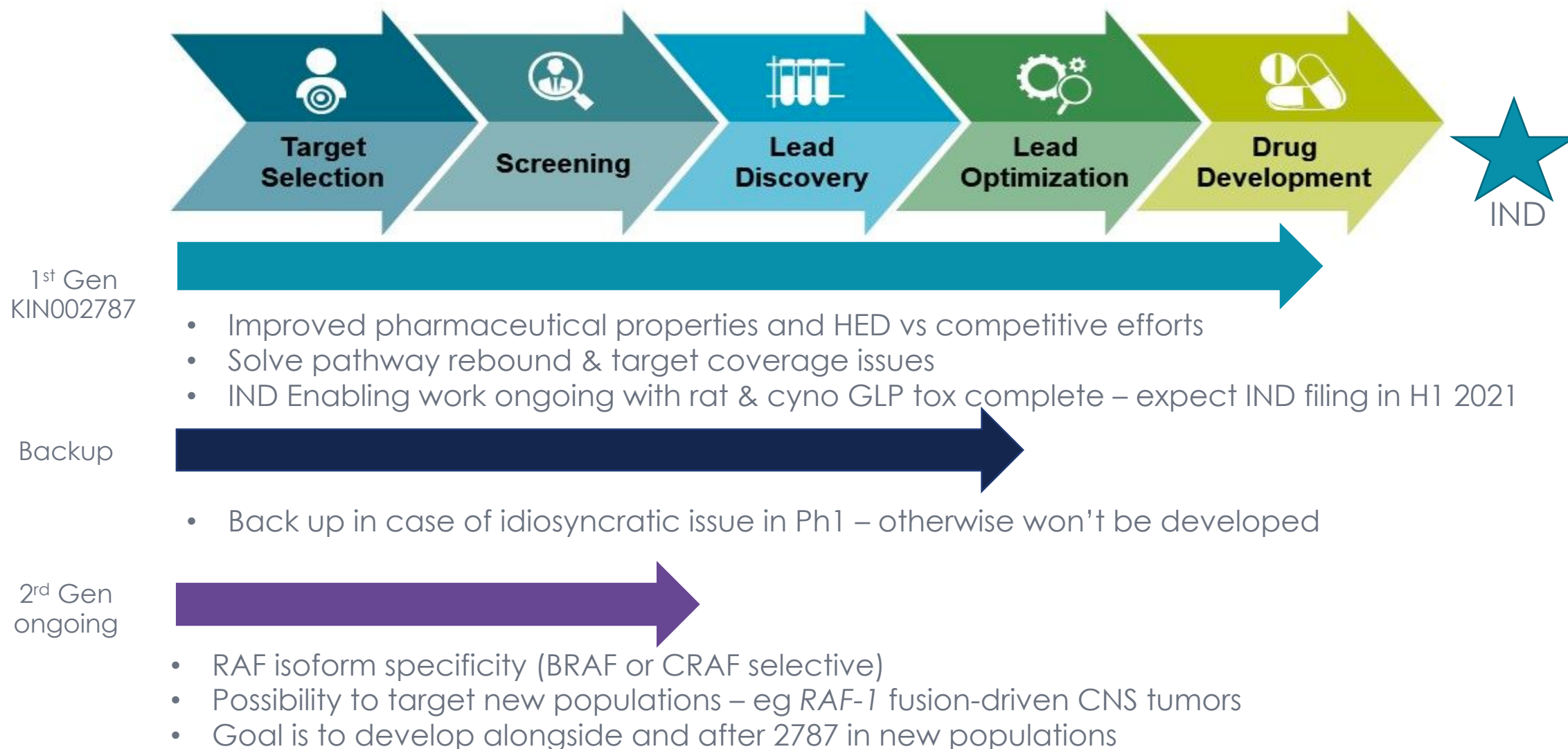
Target Coverage:

- Sub-optimal pharmaceutical properties (e.g. drug solubility, *in vivo* drug exposure) limit target coverage
- Dosing to high levels and drug combinations are compensatory strategies with limited or unproven benefit

Equivalent & Persistent Inhibition of Both RAF molecules in the Dimer Is Required to Avoid Pathway Rebound AND Target BRAF Dimer-driven cancers

Kinnate RAF Franchise

KIN002787 Has Demonstrated Dimer Inhibition & Target Coverage, Avoiding Pathway Rebound



Dimer Inhibition Demonstrated Across Several Cell Lines

While Maintaining Selectivity Against Non BRAF Mutated Cells

Mutant <i>BRAF</i> Class	Cell Line	<i>BRAF</i> / MAPK Pathway Alteration(s)	Roche cobimetinib EC ₅₀ (nM)	Novartis LXH254 EC ₅₀ (nM)	Kinnate KIN002787 EC ₅₀ (nM)
I	A375	<i>BRAF</i> ^{V600E}	4	157	62
II	BxPC3	<i>BRAF</i> indel	6	25	31
II	OV90	<i>BRAF</i> indel	2	16	25
II	H2405	<i>BRAF</i> indel	2	6	4
III	WM3629	<i>BRAF</i> ^{D594G} / <i>NRAS</i> ^{G12D}	3	4	8
III	CAL12T	<i>BRAF</i> ^{G466V}	4	22	12
WT	MiaPaCa-2	<i>BRAF</i> WT / <i>KRAS</i> ^{G12C}	9	357	517
WT	CHL-1	<i>BRAF</i> WT / <i>NRAS</i> WT	5	368	579

**pERK
Inhibition**

Note: More potent inhibition is reflected by a lower EC₅₀ number presented in nM concentration

- Clear differentiation from MEK inhibitors that do not differentiate against WT (wild type)
- NVS LXH254 has similar profile in cells, but suffers from sub-optimal exposure *in vivo*

Improved Solubility Increases *In Vivo* Target Exposure

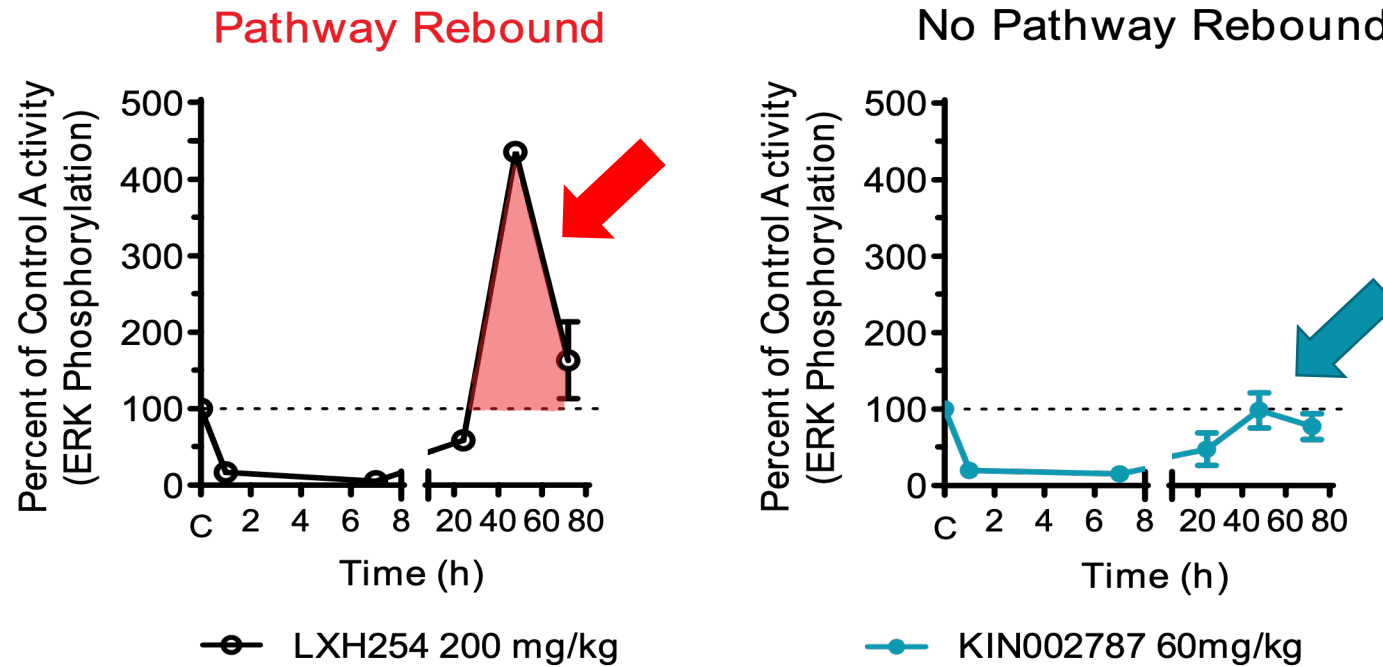
Increased Target Exposure Prevents Pathway Rebound & Lowers Necessary Dose

Feature	Parameter	Novartis LXH254	Kinnate KIN002787	
<i>In vitro</i> drug solubility	Aqueous Solubility (µM) pH = 7.4 pH = 4.5 pH = 2.0	8 7 50	29 196 312	} Relevant physiological pH
<i>In vivo</i> mouse pharmacology	100 mg/kg per oral dose Clearance (mL/min/kg) AUC / dose (ng*h/mL)	10 1123	8 3335	

Improved aqueous solubility, lower clearance in vivo, and increased drug exposure all enhance the likelihood that KIN002787 may achieve greater target coverage in the clinical setting

Unlike LXH254, KIN002787 Did Not Show Pathway Rebound

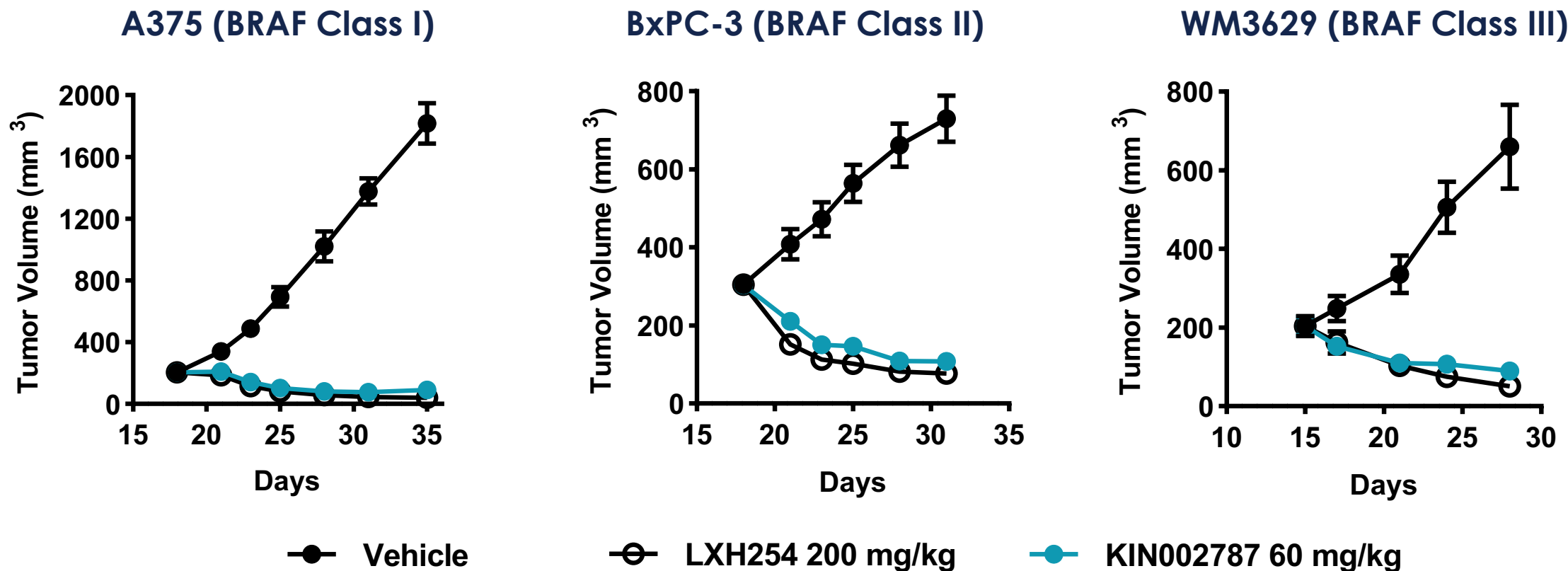
Due to Potent Dimer Inhibition & Improved Target Exposure



- No pathway rebound was observed with KIN002787 in WM3629 (Class III, $BRAF^{D594G}/NRAS^{G12D}$) xenografts compared to >400% pERK levels observed with LXH254 at 48 hours post-dose

Tumor Regressions Achieved Across All Classes of Mutation

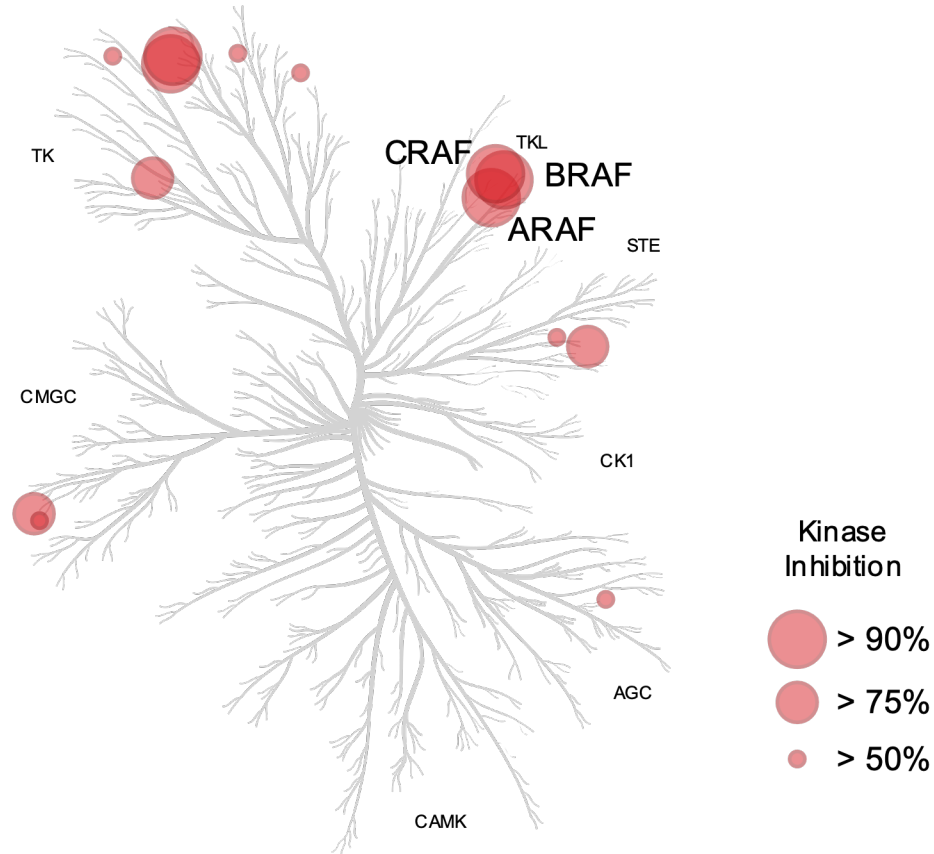
Head to Head Data Shows Benefit from Target Exposure & Limited Pathway Activation & Rebound



- KIN002787 (60 mg/kg QD) and LXH254 (200 mg/kg QD) both demonstrated tumor regressions
- 200 mg/kg LXH254 is **>4-fold** increased free drug exposure relative to the highest clinical dose (600 mg BID)

KIN002787 Displays a Highly Selective RAF Kinase Profile

Kinome Profiling



10-point Dose Response

Kinase	KIN002787 IC ₅₀ (nM)
CRAF	0.573
BRAF^{V600E}	1.53
ARAF	2.41
BRAF	3.46
DDR1	108
PDGFRB	445
p38alpha	1230
EPHA2	>3000
KDR	>3000
LCK	>3000
SRC	>3000

- Kinome profiling @ 1μM across >600 enzymatic assays at Reaction Biology Corp (372 WT, 23 atypical, 258 MT)
- Follow-up 10 pt dose response enzymatic assays (right table) for known BRAF inhibitor off-targets

Sensitivity to BRAF Inhibition in BRAF Mutation-Driven Cancers

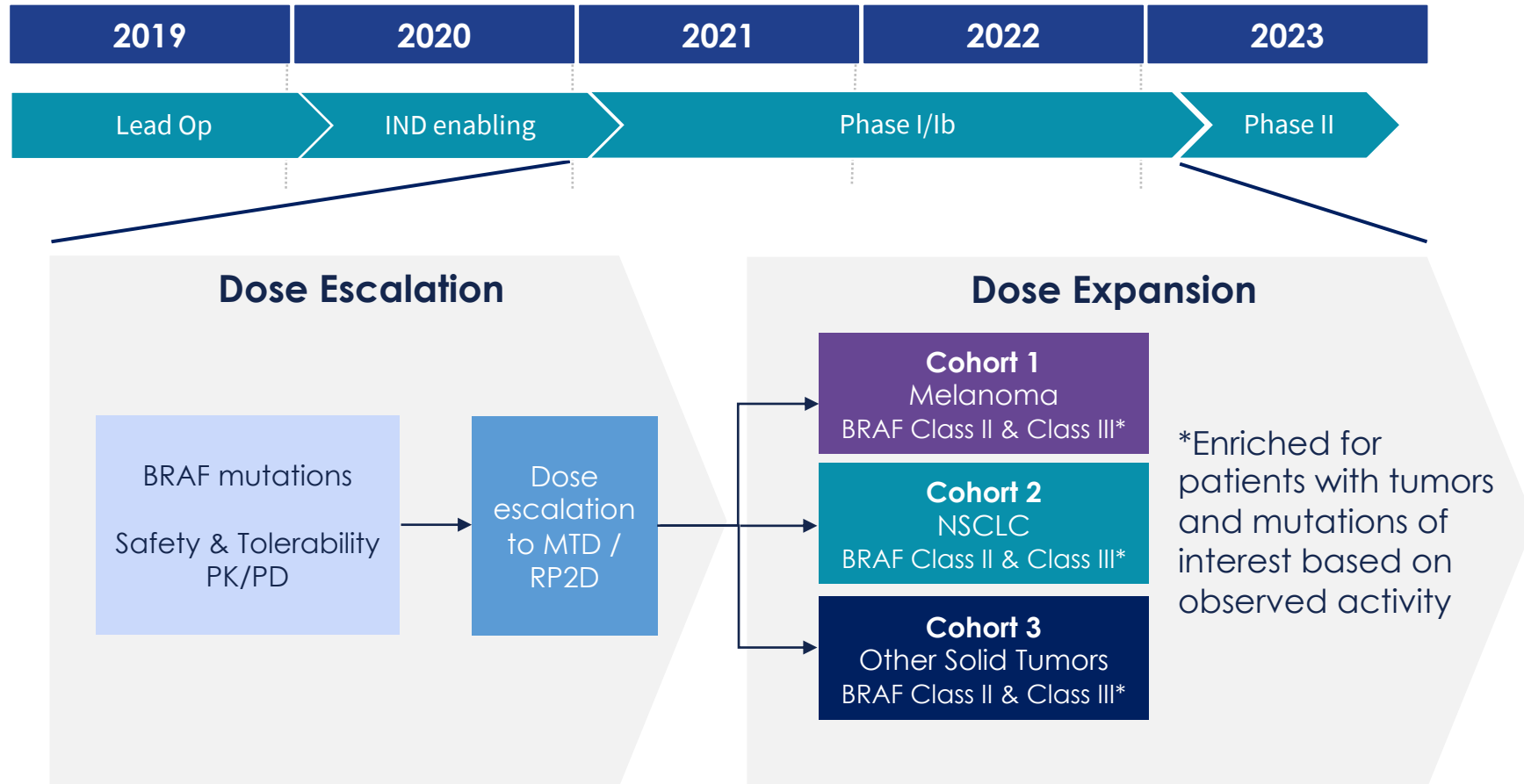
Spectrum of Sensitivity Will be Directly Evaluated in our FIH Trial



BRAF Class I: Refractory to prior RAFi therapy	BRAF Class I: BRAFi-Naive patients	BRAF Class III: SNVs	BRAF Class II: Indels + SNVs	BRAF Class II: Gene Fusions
<ul style="list-style-type: none">Diverse resistance mechanisms raise uncertainty for substantial human clinical efficacy of KIN002787 monotherapy	<ul style="list-style-type: none">KIN002787 demonstrated substantial <i>in vitro</i> activity & <i>in vivo</i> tumor regressions	<ul style="list-style-type: none">KIN002787 sensitivity likely depends upon identity of co-occurring upstream RAS activation (e.g. EGFR amplification, KRAS mutation, NF1 loss)	<ul style="list-style-type: none">KIN002787 demonstrated very substantial <i>in vitro</i> activity & <i>in vivo</i> tumor regressions	<ul style="list-style-type: none">KIN002787 demonstrates very substantial <i>in vitro</i> activity & <i>in vivo</i> tumor regressionsComplete regressions reported in limited BRAF gene fusion-driven cancers treated with PLX8394

KIN002787 Expected Development Plan: Phase 1 Trial

Well Positioned for Expedited POC



FIH Study: Inclusion Criteria

Phase 1 Trial Patient Inclusion Criteria for Dose Escalation and Dose Expansion

Study Part	Population (Advanced or Metastatic cancers)
A. Dose Escalation (n=25)	Patients with any of the following: <ul style="list-style-type: none">• Class I (BRAF^{V600}) mutant positive cancer, or• Class II BRAF mutant positive cancer, or• Class III BRAF mutant positive cancer
B. Dose Expansion (3 cohorts, n=25 each)	#1 Melanoma (BRAF Class II or Class III mutations)
	#2 NSCLC (BRAF Class II or Class III mutations)
	#3 Other solid tumors (BRAF Class II or Class III mutations)

Class II & Class III Population is Similar to Class I But Without Approved Drugs

Patients with BRAF mutations*

■ NSCLC ■ Melanoma



Approved Products:

3

0

*US, EU5 and Japan; Stages IIIb and IV for NSCLC and Stage IV for Melanoma

- 2019 sales of the 3 approved products for Class I BRAF mutations were \$1.4B
 - 18% growth from 2018 sales
- Substantial opportunities for growth
 - Class II & III may have higher pricing, in-line with newer drug launches
 - Class II & III drug may not require combination therapy and/or have better profile
- Broader use of NGS identifying more Class II & III patients



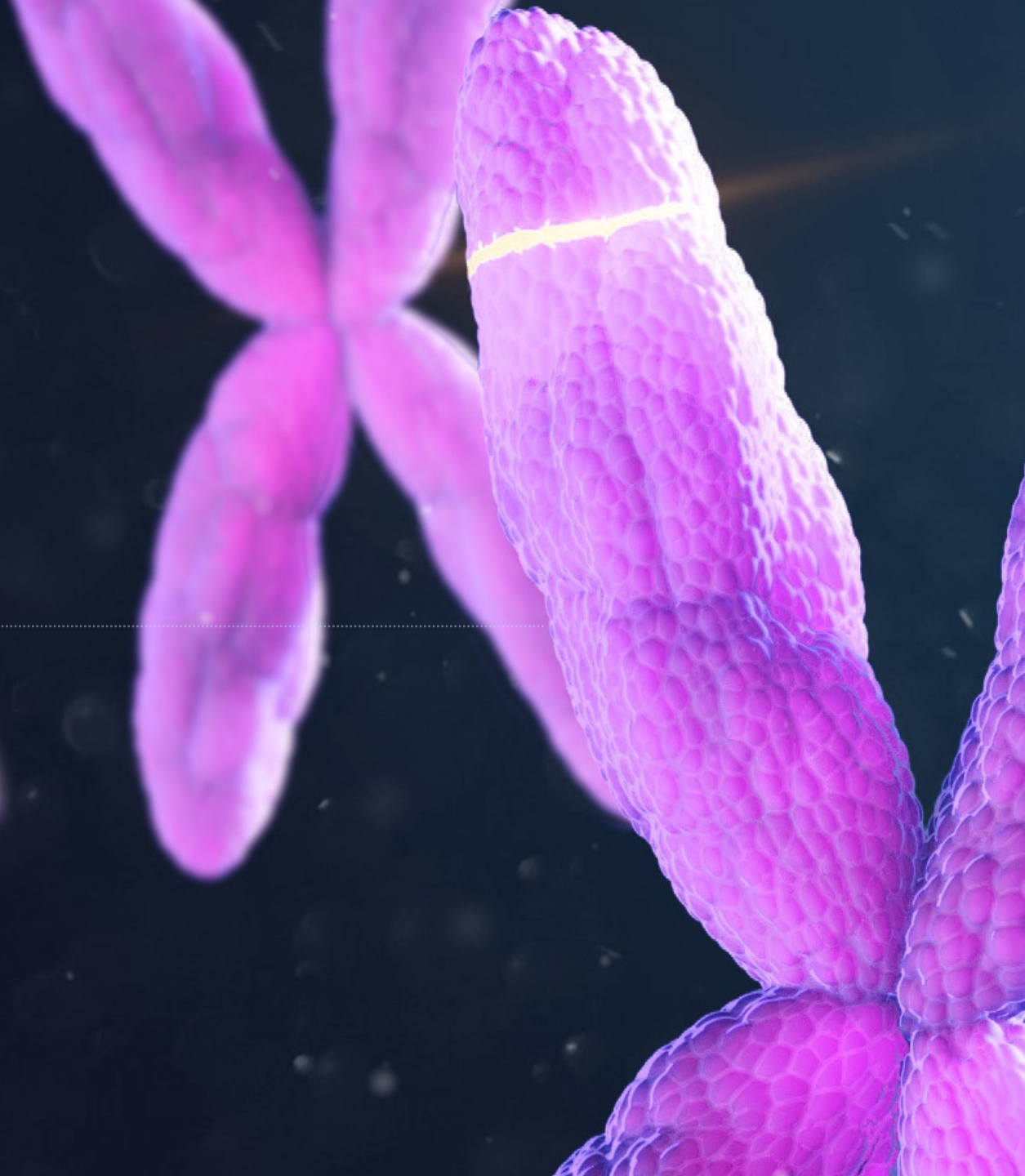
BRAF Program Opportunities for Expansion

Opportunities to Expand Beyond Initial Target of ~20k patients

- Additional cancers (e.g., CRC, ovarian & thyroid) including potential tumor agnostic indication
 - 8,900 patients have advanced CRC with Class II & Class III mutations
 - Additional patients with ovarian and thyroid cancers - to be determined
- Earlier treatment lines and less advanced disease settings
 - 2,000 patients have Stage IIIa NSCLC with Class II & Class III mutations
 - 3,500 patients have Stage III Melanoma with Class II & Class III mutations
- Class I BRAF mutations, including both first line and second line for intrinsic and acquired resistance
 - 27,000 patients have advanced NSCLC and Melanoma with Class I mutations
- Expanding into other geographies (e.g., China) with high disease burden
 - 15,000 patients with advanced NSCLC and Class II & Class III mutations in urban markets of China

FGFR2/3 Program

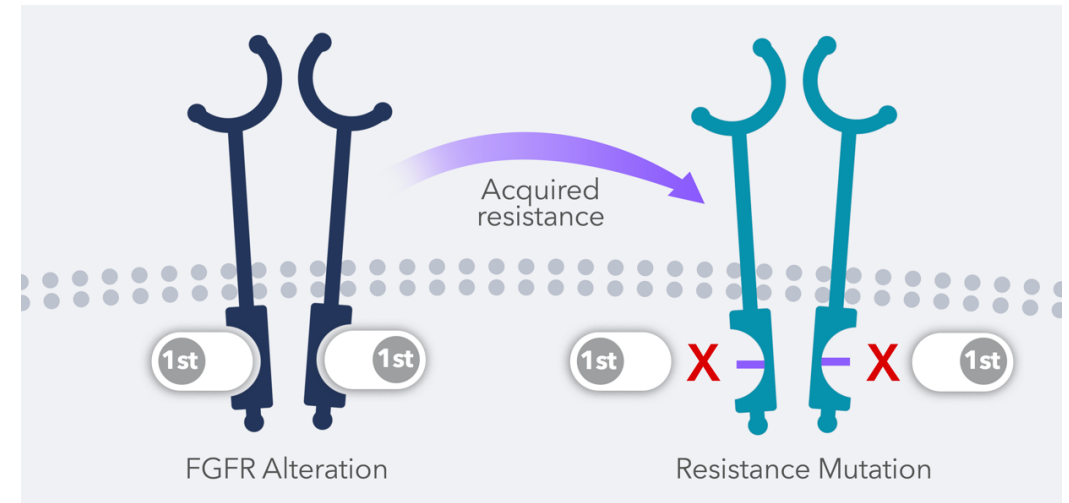
KIN003



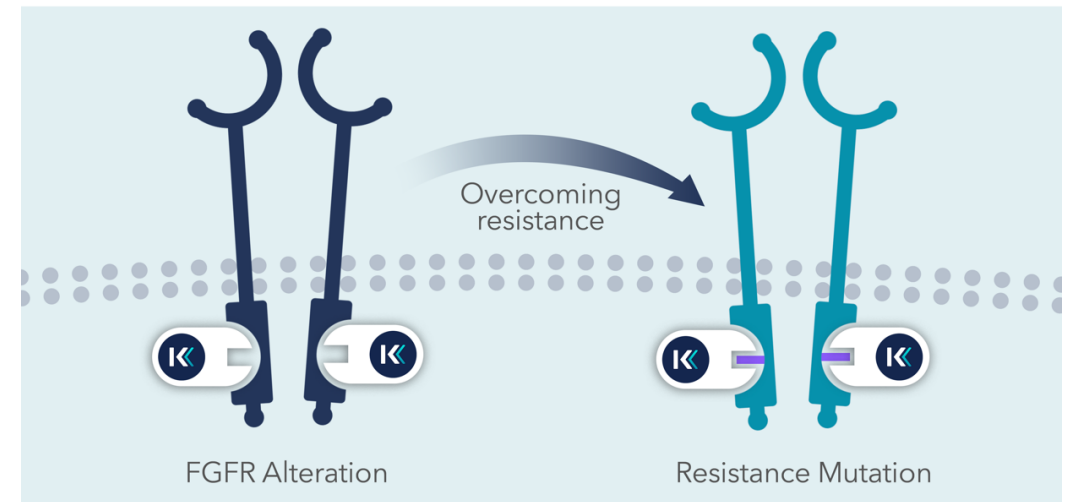
Kinnate FGFR 2/3 Inhibitor Program

Targeting Acquired Resistance Mechanisms

- Current marketed (erdafitinib, pemigatinib) and clinical (futibatinib) FGFR inhibitors provide benefit, but duration of response limited by acquired resistance mutations
- Kinnate next generation FGFR inhibitor designed to cover fusions, insertion/deletions & SNVs in FGFR2 altered ICC & FGFR3 altered UC
- To improve duration of response, our program also targets acquired resistance mutations to existing therapies (e.g. gatekeeper & molecular brake)
- Analogous to development of EGFR inhibitors – erlotinib followed by osimertinib
- Also, broadly covering FGFR1, 2 & 3 isoforms may prevent bypass mechanisms improving response rates and duration of response



1st 1st generation FGFR inhibitors

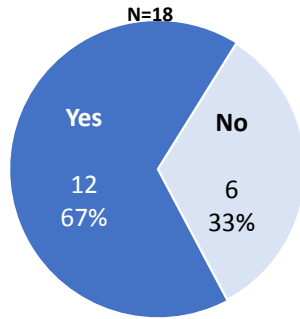


K Kinnate FGFR inhibitor

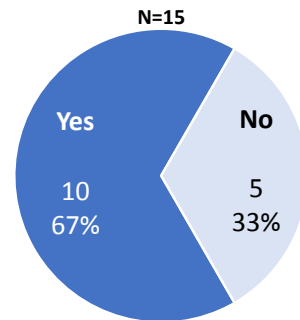
Acquired Resistance to First Generation FGFR Inhibitors

FGFR2 Kinase Domain Mutation

Reversible FGFRi
(Erdafitinib,
Pemigatinib, etc)



Irreversible FGFRi
(Futibatinib)



FGFR2 KDmut ^s Detected*	Erdafitinib, Pemigatinib, etc		Futibatinib	
	Reversible (n=13)		Irreversible (n=10)	
	N	Frequency of Alteration	N	Frequency of Alteration
N550D	3/13	23%	3/10	30%
N550H	3/13	23%	3/10	30%
N550K	2/13	15%	7/10	70%
N550T	1/13	8%	0/10	0%
V565F	4/13	31%	3/10	30%
V565I	2/13	15%	1/10	10%
V565L	0/13	0%	3/10	30%
E566A	1/13	8%	3/10	30%
L618V	2/13	15%	0/10	0%
L618F	1/13	8%	0/10	0%
C492F	0/13	0%	1/10	10%

Molecular Brake

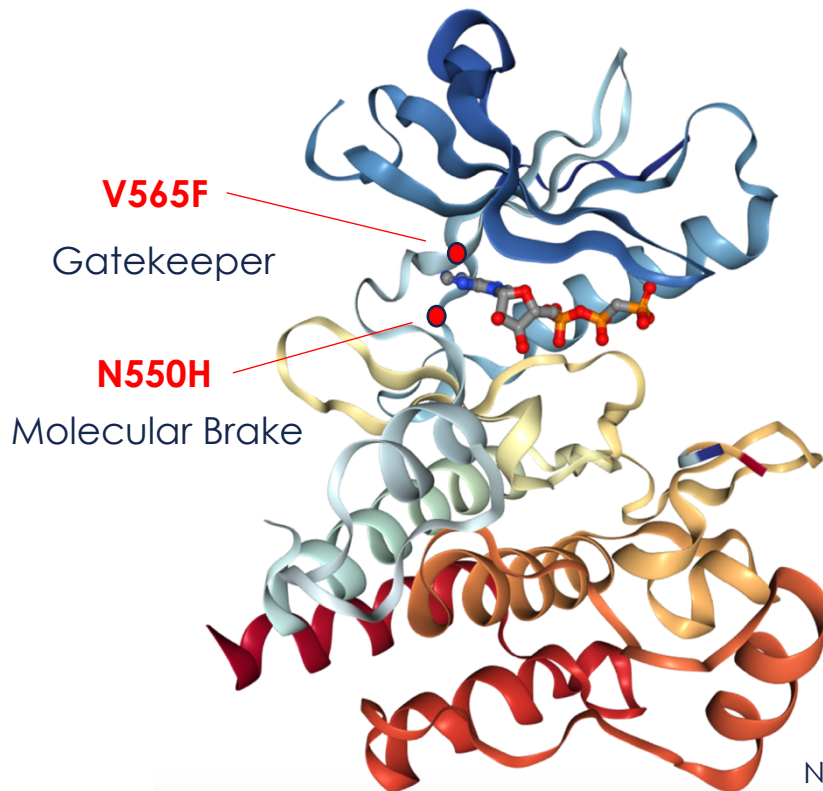
Gatekeeper

Molecular Brake

- Majority (67%) of patients treated with FGFR inhibitors developed secondary FGFR2 kinase domain mutations

KIN003 is Differentiated in Enzymatic Assays

Overcomes FGFR2 and FGFR3 Gatekeeper and Molecular Brake Resistance Mutations



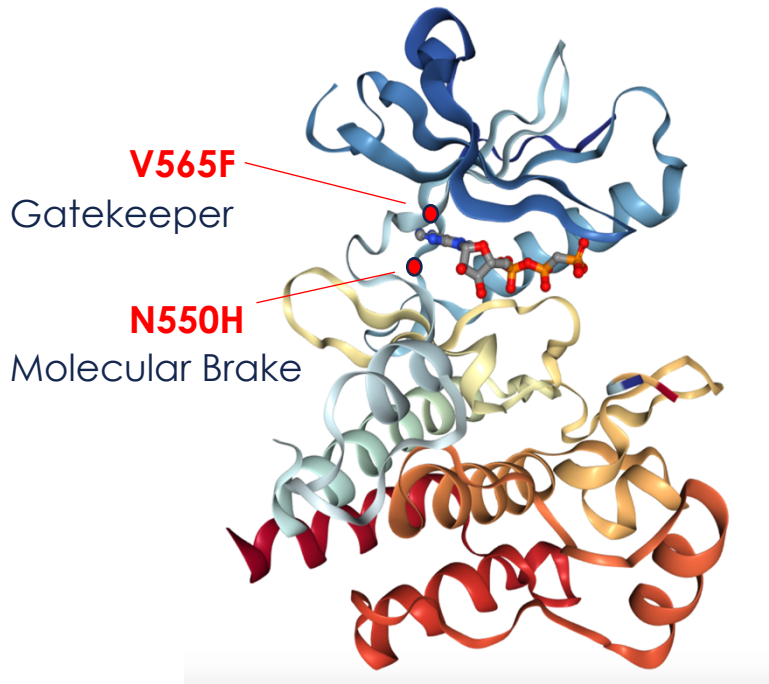
Kinase Domain	Alteration	Janssen erdafitinib IC ₅₀ (nM)	Incyte pemigatinib IC ₅₀ (nM)	Taiho futibatinib IC ₅₀ (nM)	Kinnate KIN003 IC ₅₀ (nM)
FGFR1 WT	N/A	0.22	0.4	2.1	4.2
FGFR2 WT FGFR2 V565F FGFR2 N550H	N/A Gatekeeper Mol. Brake	0.15 330 4.1	0.4 >500 19.8	1.4 >500 36.4	3.8 22.5 22.5
FGFR3 WT FGFR3 V555M FGFR3 K650M	N/A Gatekeeper Mol. Brake	0.73 137 3.5	1.5 >500 20	5.3 324 8.3	6.0 23.5 4.2
Ratios of Resistance Mutations Compared to Unmutated (WT) (Fold Difference in IC ₅₀)					
R2 V565F / R2 WT	Gatekeeper	2200X	>1250X	>385X	6X
R2 N550H / R2 WT	Mol. Brake	27X	50X	31X	6X
R3 V555M / R3 WT	Gatekeeper	188X	>333X	61X	4X
R3 K650M / R3 WT	Mol. Brake	5X	13X	1.6X	0.7X

Note: Ratios <10x = equivalent kinase inhibition of either the resistance mutations or corresponding WT kinase. Ratios > 10x = substantial loss of activity against the indicated resistance mutations compared to the corresponding WT kinase

- KIN003 showed inhibition of the gatekeeper and molecular brake mutations when compared to the FDA approved and clinical candidate FGFR inhibitors

Cellular Data on FGFR2 Also Supports Differentiation

Equivalent Inhibition of Multiple Mutations Critical to Overcoming Resistance

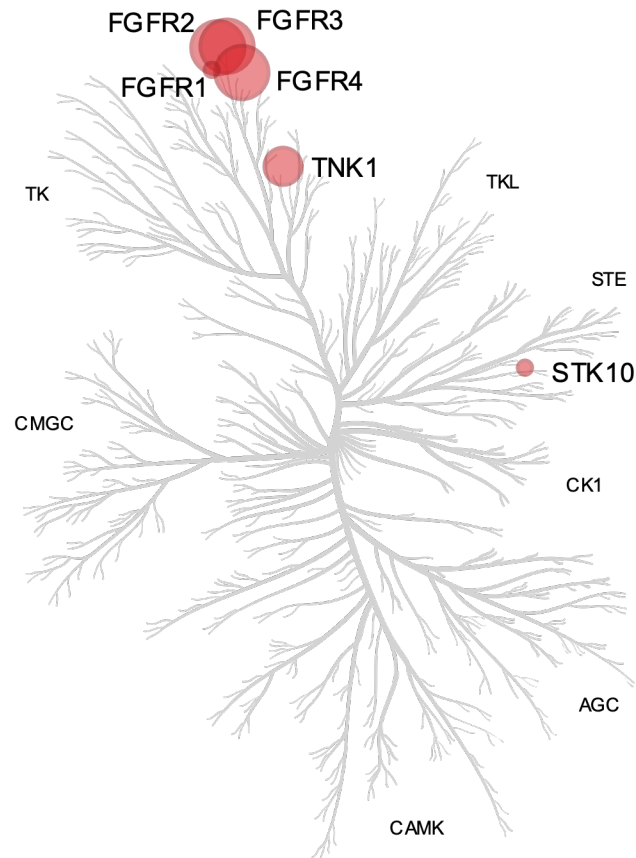


Kinase Domain	Alteration	Janssen erdafitinib EC ₅₀ (nM)	Incyte pemigatinib EC ₅₀ (nM)	Taiho futibatinib EC ₅₀ (nM)	Kinnacle KIN003 EC ₅₀ (nM)
FGFR2 WT	Fusion	1.3	10.2	0.42	3.7
M538I	Fusion + Activating Mut.	2.8	27.3	0.98	7.3
N550H	Fusion + Mol. Brake	6.5	68.9	2.1	6.7
N550K	Fusion + Mol. Brake	19.6	1579	5.9	7.6
V565F	Fusion + Gatekeeper	2423	>10000	170	5.9
V565L	Fusion + Gatekeeper	23.9	--	--	6.7
V565I	Fusion + Gatekeeper	6.5	--	--	7.0
Ratios of Resistance Mutations to Unmutated WT FGFR2 Alleles (Fold Difference in EC ₅₀)					
M538I / WT	Activating Mutation	2.1x	2.7x	2.1x	2.0x
N550H / WT	Molecular Brake	4.9x	6.8x	5x	1.8x
N550K / WT	Molecular Brake	14.7x	155x	14x	2.1x
V565F / WT	Gatekeeper	1823x	>1000x	405x	1.6x
V565L / WT	Gatekeeper	18x	--	--	1.8x
V565I / WT	Gatekeeper	4.9x	--	--	1.9x

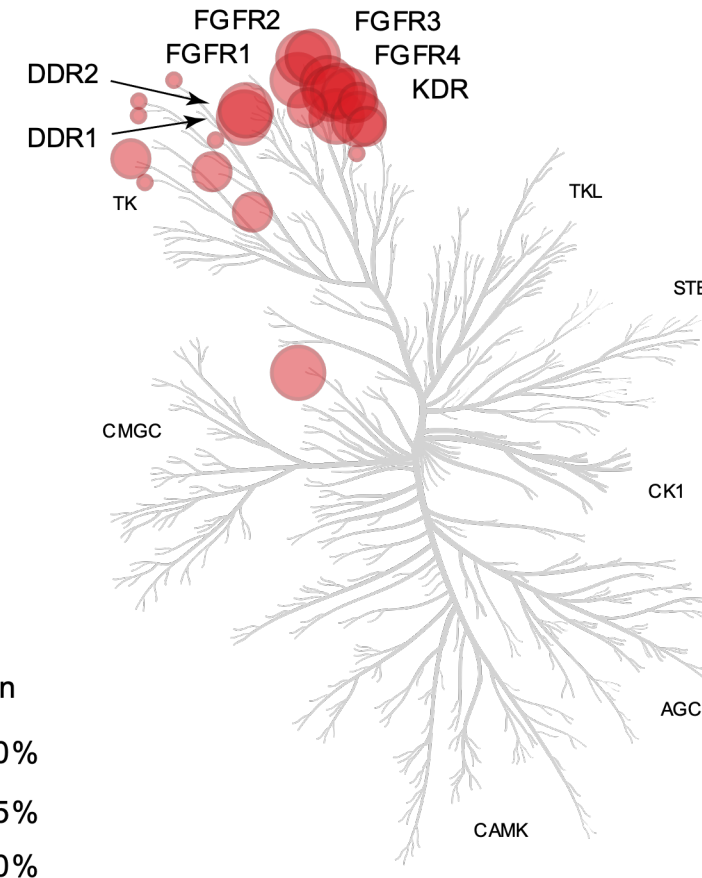
Note: Ratios <10x = equivalent inhibition of CCLP-1 cells expressing either the indicated resistance mutation or the WT FGFR fusion. Ratios >10x = a significant loss of inhibition against the indicated resistance mutation compared to the WT FGFR fusion. Ratios > 100x = a substantial loss of inhibition against the indicated resistance mutation compared to the WT FGFR fusion.

KIN003 Displays a Selective & Differentiated Kinase Profile

KIN003 Profiling



Erdafitinib Profiling

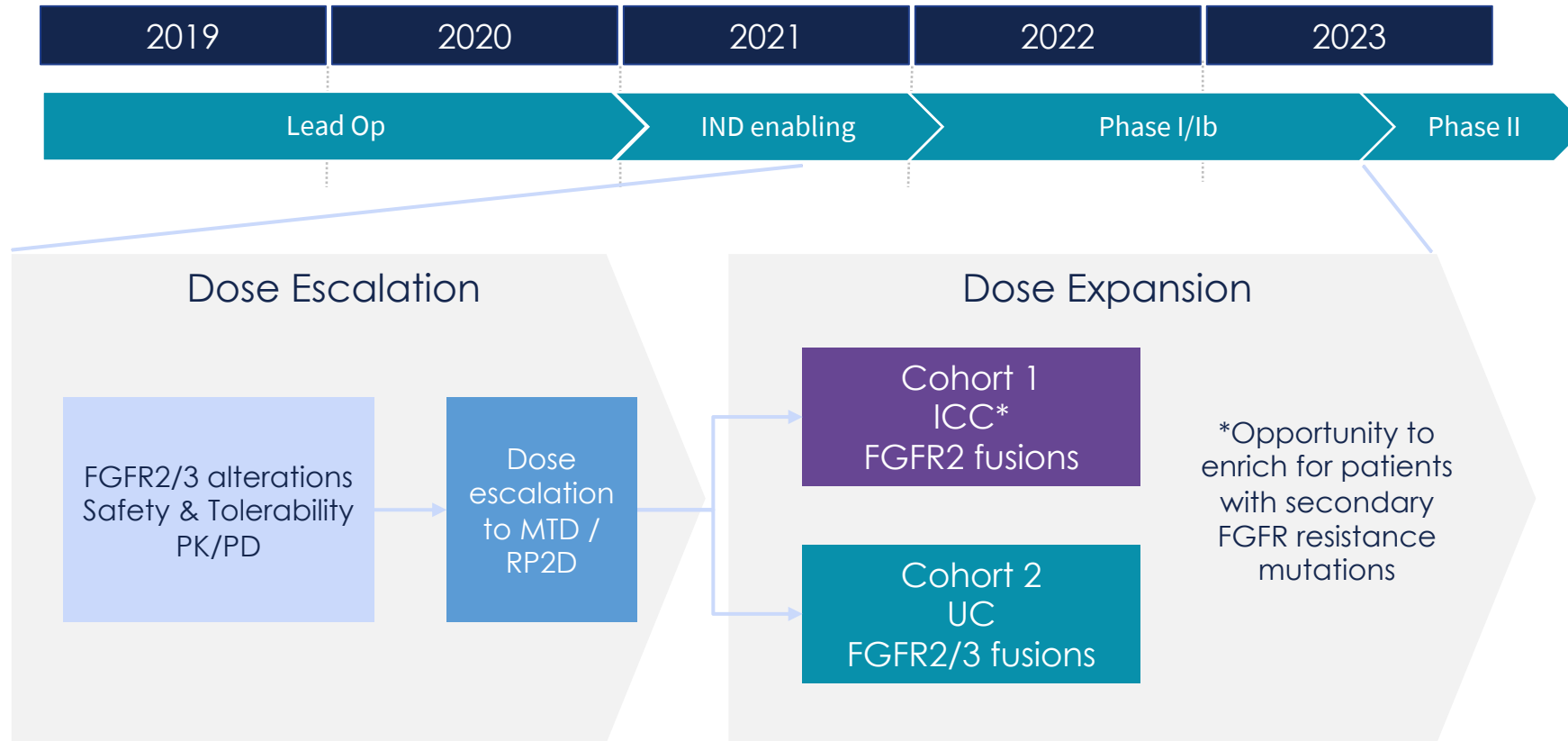


Kinase
Inhibition



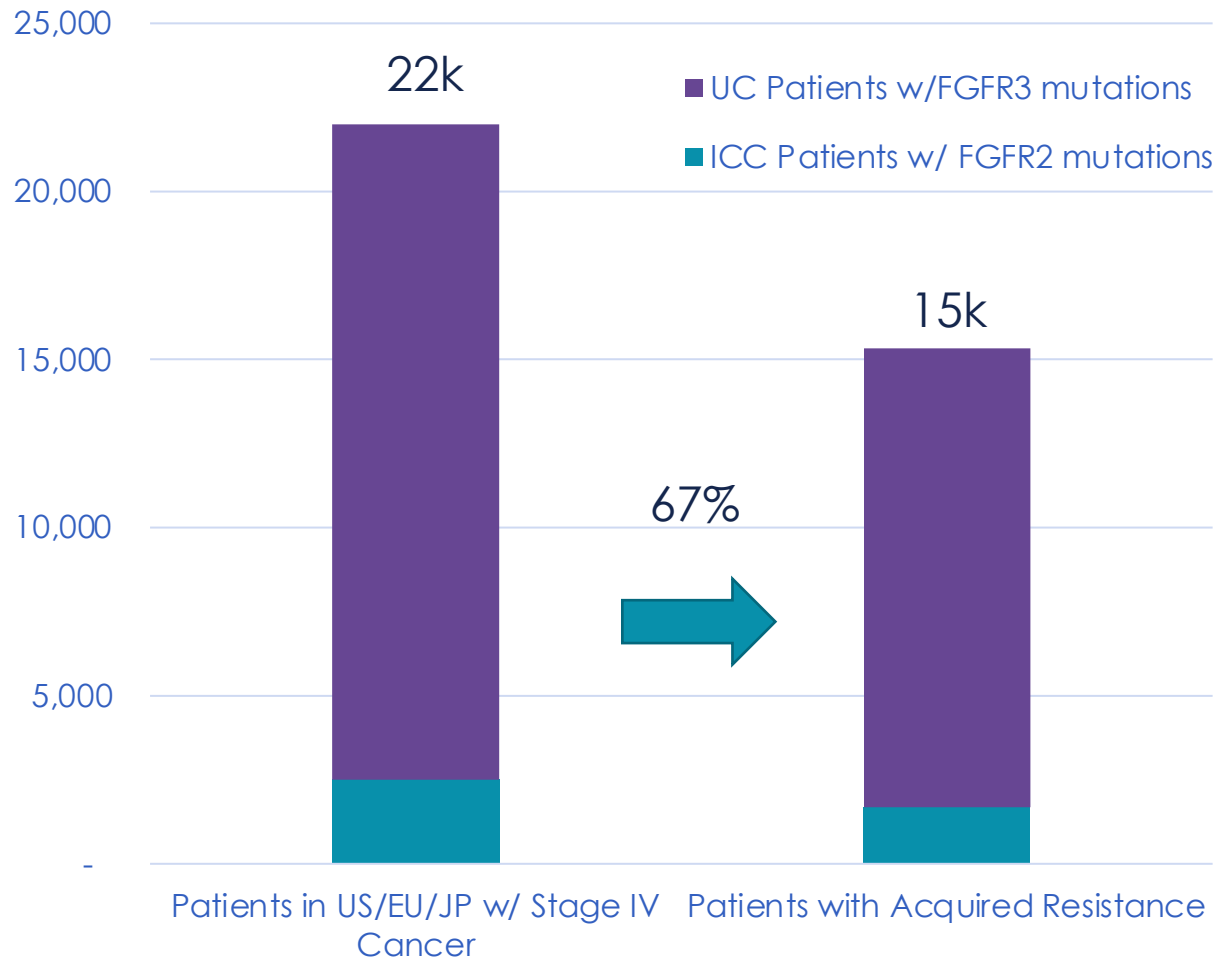
- Kinome profiling @ 1 μ M across 322 kinases at Carina Biosciences Corp
- Erdafitinib is approved for treatment of FGFR2 and FGFR3 alteration-driven urothelial cancer

FGFR2/3 Expected Clinical Development Plan



FGFR Market Opportunity – UC & ICC Patients in US, EU & Japan

Patients with Active Disease



Opportunities for Growth

- FGFR alterations have been found in other tumors (e.g. breast)
- NGS technologies identifying additional patients with FGFR fusions
- Expansion beyond fusions into indels and SNVs in FGFR
- Geographic expansion (e.g. China)



Kinnate Discovery Engine

Research Capabilities

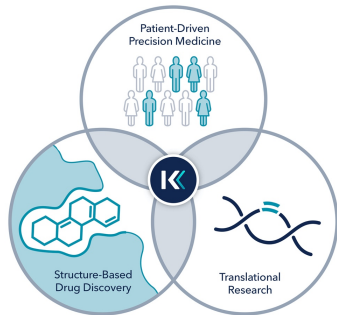
KIN004 – CDK12 Program

Cancer Biology & Genomics Drives Drug Discovery Opportunities

Continued Advancements of our Understanding of Disease Reveal our Next Generation Drug Targets



Our Focus: We remain focused on validated oncogenic drivers that directly inform patient selection strategies and are associated with enhanced probabilities of technical, clinical & regulatory success



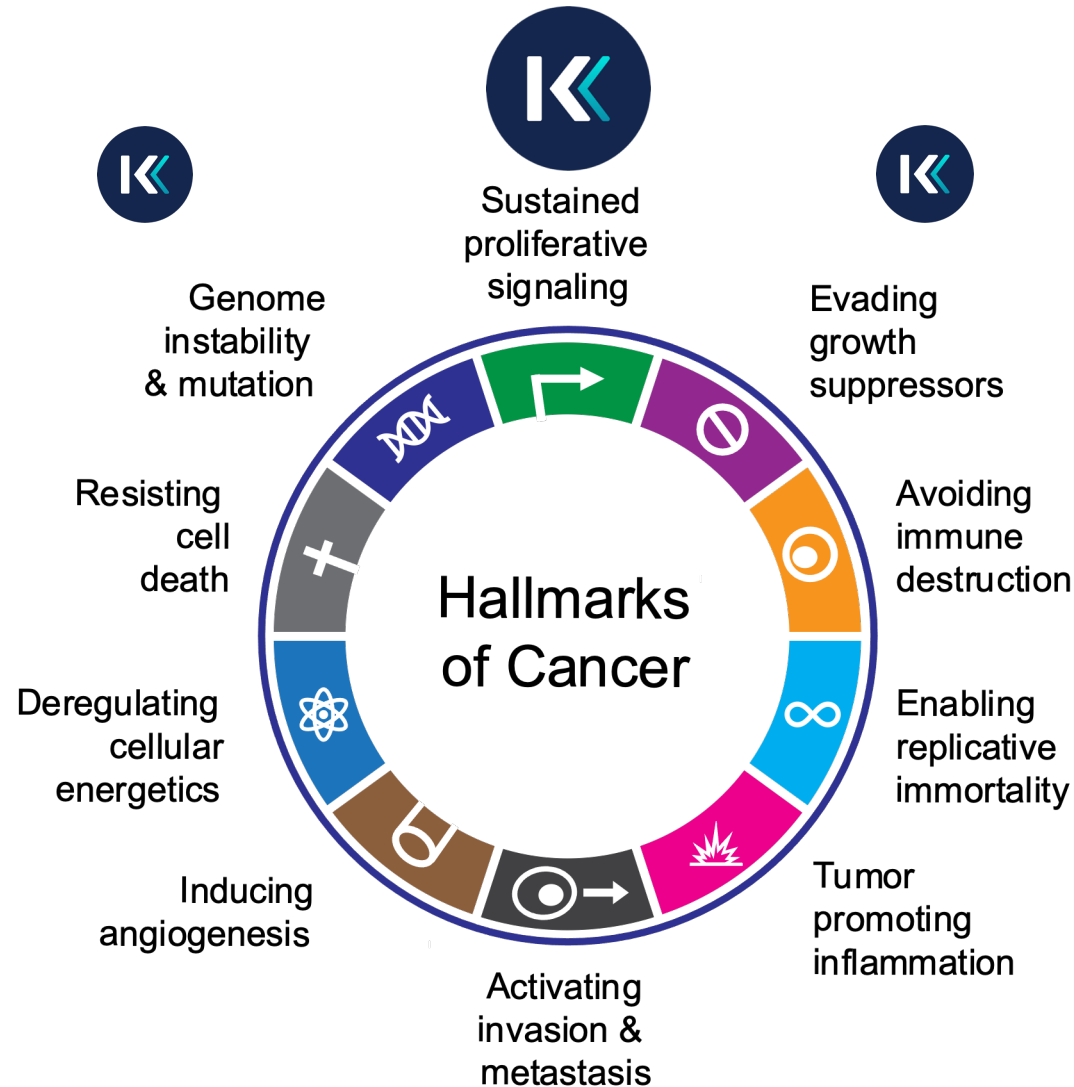
Our Approach: Our Kinnate Discovery Engine, fueled by our small molecule structure-based drug design capabilities and translational research strategies, will serve as the foundation for continued success



Not Kinnate's Focus: 'Pure-play' Immuno-oncology approaches, tumor micro-environment directed strategies, microbiome-based therapies, cellular therapies & cancer vaccines, and biology that is non-tractable with current technology

Therapeutic Targeting of the Hallmarks of Cancer

Focus on Validated Signaling Drivers, Growth Suppressors and Regulators of Genome Stability



Modified from Hanahan and Weinberg, Cell 2011.

Kinnate Discovery Engine Resources

Internal Preclinical Development:

- DMPK/ADME
- Nonclinical Pharm
- Nonclinical Toxicology
- CMC Manufacturing

7 FTEs + 9 Contractors

External Preclinical Development:

- DMPK/ADME
- Nonclinical Pharm
- Nonclinical Toxicology
- CMC Manufacturing

17 CROs

Internal Drug Discovery:

- MedChem
- Comp Chem
- Cheminformatics
- Screening Team

10 FTEs + 2 Contractors

External Drug Discovery:

- Chemistry
- ARD/PRD Chemistry
- Structural Biology
- Biochemical & Biophysical

64 FTE Chemists + 13 CROs

Internal Translational Research:

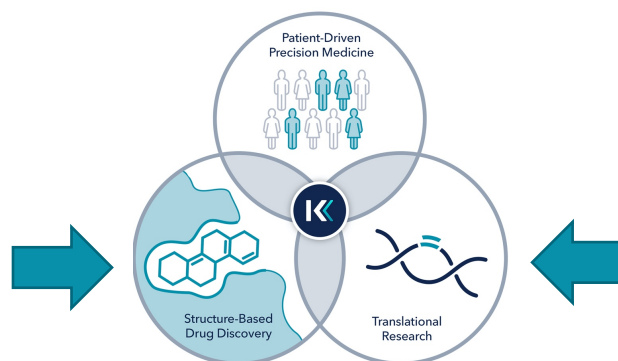
- *In Vitro* Pharm
- *In Vivo* Pharm
- Biomarkers
- Bioinformatics

9 FTEs + 4 Contractors

External Translational Research:

- *In Vitro* Pharm
- *In Vivo* Pharm
- Biomarkers
- Bioinformatics

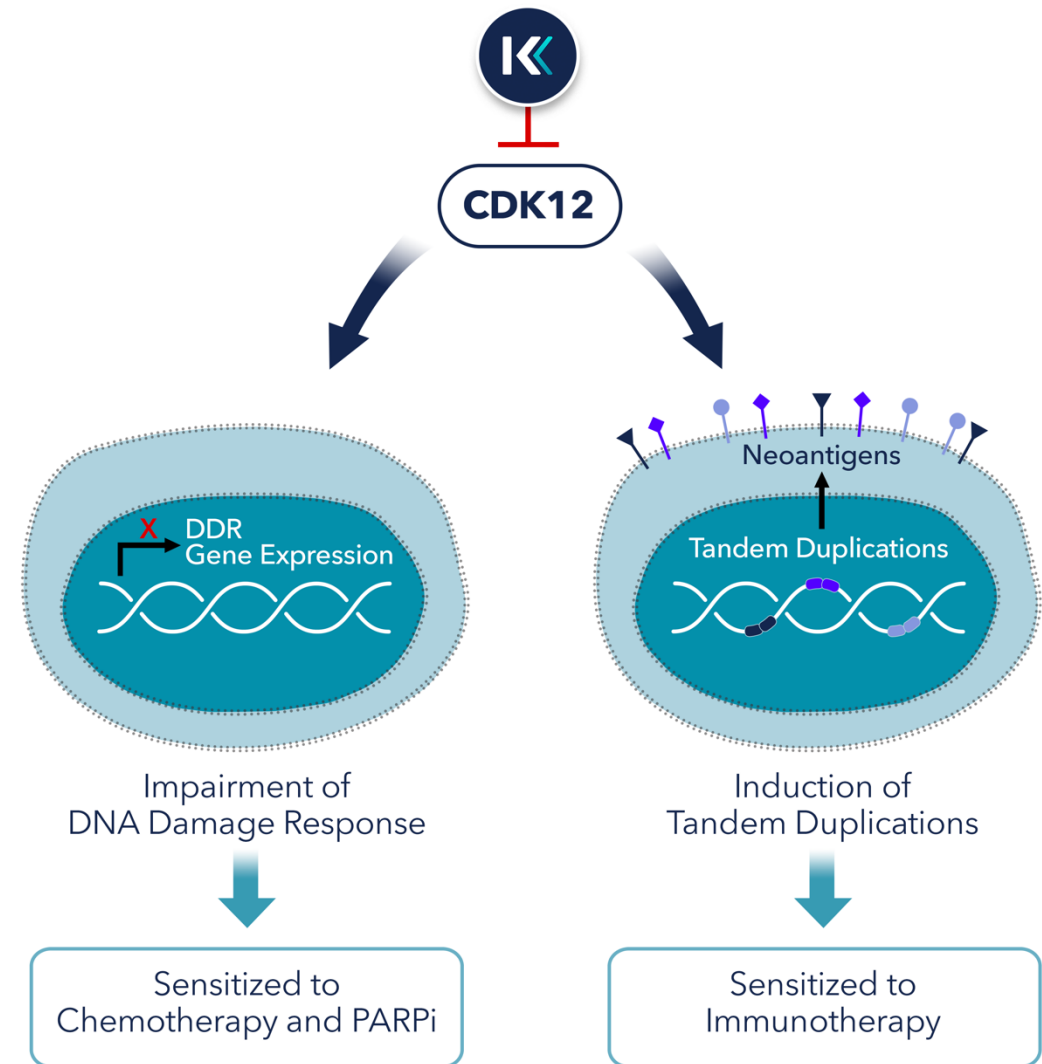
21 CROs



**>150 FTEs Across
Core CROs**

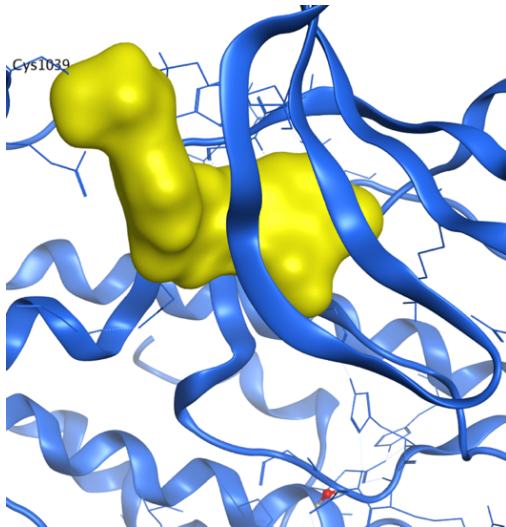
CDK12 Inactivation Impairs DNA Damage Response and Induces Tandem Duplications

- CDK12, a RNA polymerase II C-Terminal Domain (CTD) kinase, is an essential regulator of various DNA damage response (DDR) genes
- Inhibition of CDK12 sensitizes tumors to DNA damaging agents and induces synthetic lethality in both DDR-deficient and the greater unmet need in DDR-proficient tumors
- CDK12-mutant ovarian and prostate cancers demonstrate an accumulation of large Tandem Duplications (TDs) resulting in accumulation of fusion-induced neoantigens (FINAs) in cancer cells

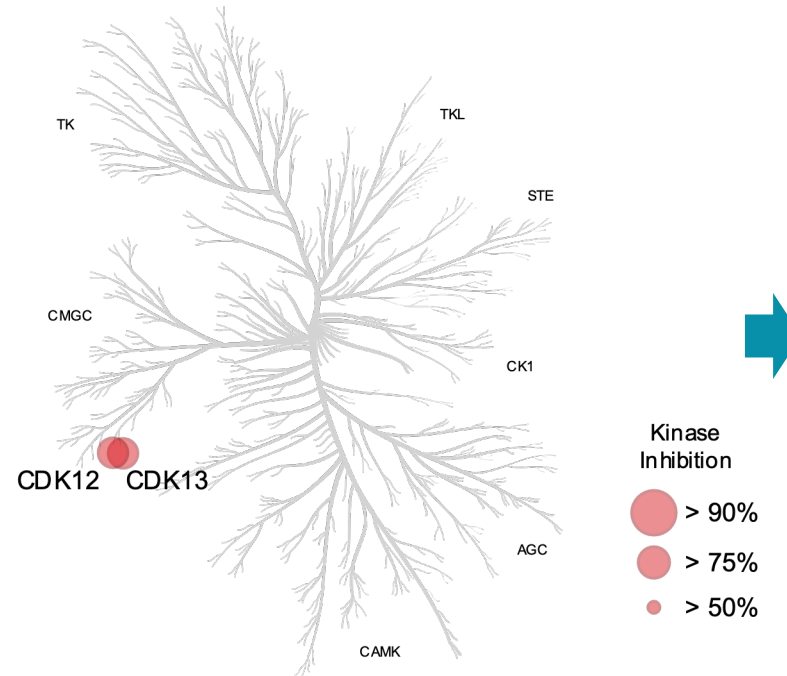


Program Has Demonstrated Selective CDK12 Inhibition

**KIN004
Co-Crystal Structure**



Kinome Profile – KIN004



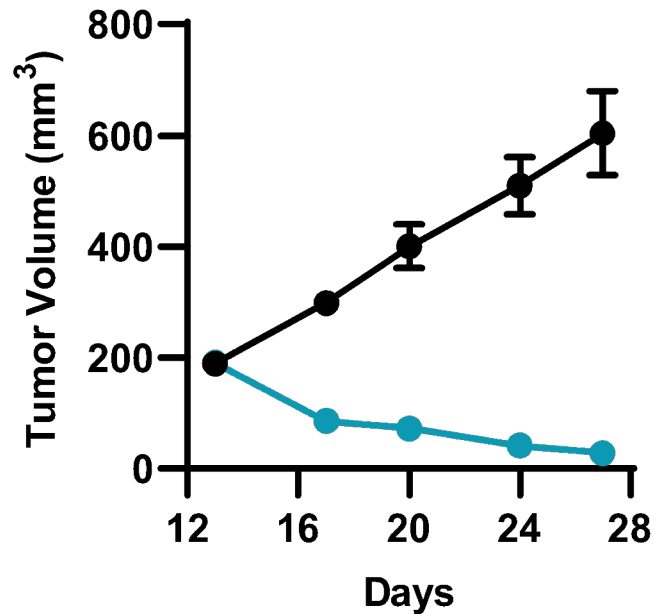
CDK Family Selectivity – KIN004

Kinase	KIN004 IC ₅₀ (nM)
CDK12	97
CDK2	5104
CDK7	3913
CDK9	3952
Ratios (Fold Difference in IC ₅₀)	
CDK12/CDK2	>50X
CDK12/CDK7	>40X
CDK12/CDK9	>40X

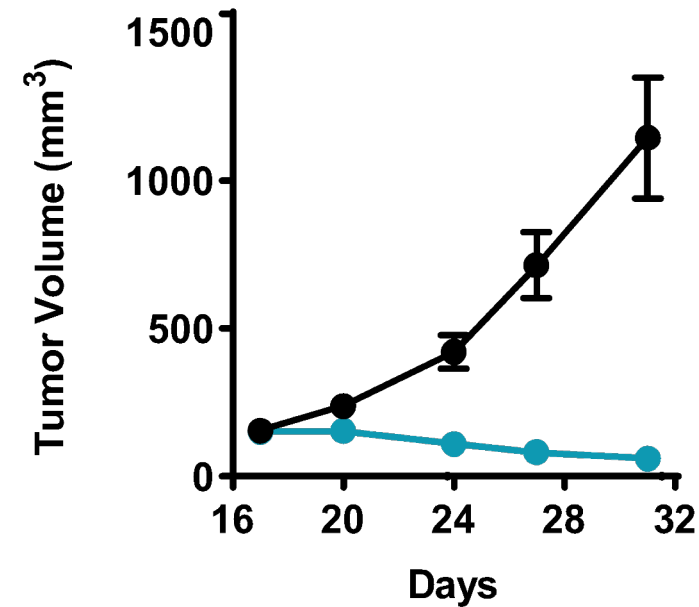
- KIN004 demonstrated selective CDK12 inhibition compared to highly homologous CDK2, CDK7 and CDK9 family members
- Structure-based design enabled by Kinnate proprietary co-crystal structure

Tumor Regressions Demonstrated with Selective Inhibition of CDK12

In Vivo Efficacy – HCC70 (BRCA^{WT})



In Vivo Efficacy – OVCAR3 (BRCA^{WT})



● Vehicle ● KIN004 25mg/kg

Note: HCC70 breast tumors (left) and OVCAR-3 ovarian tumors (right) represent BRCA 1/2 WT cancers that were DDR-proficient and were not sensitized to PARP inhibitor treatment

Kinnate: Kinase Inhibitors for Genomically Defined Cancers

Striving to Expand the Promise of Precision Medicine in Oncology

Programs

- Multiple compounds advancing to the clinic
- Lead RAF program in unserved population
- FGFR program targeting resistance
- R&D pipeline of additional compounds

Platform

- Productive Kinnate Drug Discovery Engine

People

- Experienced management team
- Strong scientific collaborations
- Funded by leading life science investors

