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October 13, 2022





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The foregoing review of important factors that could cause actual events to differ from expectations should not be construed as exhaustive and should be read in conjunction with statements that are included herein and elsewhere, including the risk factors included in Imara's most recent Annual Report on Form 10-K. Quarterly Reports on Form 8-K filed with the SEC as well as the registration statement on Form S-4 to be filed with the SEC by Imara. Imara and Enliven can give no assurance that the conditions to the proposed transactions will be satisfied. Except as required by applicable law, Imara and Enliven undertake no obligation to revise or update any forward-looking statement, or to make any other forward-looking statements, whether as a result of new information, future events or otherwise. No Offer or Solicitation

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In connection with the proposed transaction between Imara and Enliven. Imara intends to file relevant materials with the SEC. including a registration statement/prospectus of Imara and information statement of Enliven. IMARA AND ENLIVEN URGE INVESTORS AND STOCKHOLDERS TO READ THESE MATERIALS CAREFULLY AND IN THEIR ENTIRETY WHEN THEY BECOME AVAILABLE BECAUSE THEY WILL CONTAIN IMPORTANT INFORMATION ABOUT IMARA. ENLIVEN. THE PROPOSED TRANSACTION AND RELATED MATTERS. Investors and stockholders will be able to obtain free copies of the proxy statement/prospectus/information statement and other documents filed by Imara with the SEC (when they become available) through the website maintained by the SEC at www.sec.gov. In addition, investors and stockholders will be able to obtain free copies of the proxy statement/prospectus/information statement and other documents filed by Imara with the SEC by contacting Imara Inc. at 116 Huntington Ave., 6th Floor. Boston. MA 02116. Investors and stockholders are urged to read the proxy statement/prospectus/information statement and the other relevant materials when they become available before making any voting or investment decision with respect to the proposed transaction.

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Imara, Enliven and their respective directors and executive officers may be considered participants in the solicitation of proxies in connection with the proposed transaction. Information about Imara's directors and executive officers is included in Imara's most recent Annual Report on Form 10-K, including any information incorporated therein by reference, as filed with the SEC, and the proxy statement for Imara's 2022 annual meeting of stockholders, filed with the SEC on April 22, 2022, Additional information regarding the persons who may be deemed participants in the solicitation of proxies will be included in the proxy statement/prospectus/information statement relating to the proposed transaction when it is filed with the SEC. These documents can be obtained free of charge from the sources indicated above.

Merger with Imara Has the Potential to be Transformative for Enliven

Transition into a clinical-stage, precision oncology company with multiple shots on goal



Enliven Therapeutics opportunity

Provides Imara shareholders with opportunity to participate in the Enliven growth story, at a pivotal time for Enliven

Diversified and clinical-stage portfolio

Two parallel lead programs currently in development, ELVN-001, a highly selective BCR-ABL inhibitor for Chronic Myeloid Leukemia, and ELVN-002, a highly selective HER2 and pan-HER2 mutant irreversible inhibitor for HER2-driven cancers, as well as additional programs in the research pipeline

Multiple near-term milestones

Planned steady stream of company milestones, including early Phase 1 data for ELVN-001 expected by the end of 2023

Strong balance sheet supports runway into 2026

Combined company expected to have approximately \$300 million in cash and cash equivalents upon closing; resources expected to fund operations into early 2026

Merger of Enliven and Imara

	 Merger with Enliven, a privately held precision oncology company
Transaction	 Strong balance sheet of approximately \$300 million of cash and cash equivalents expected to provide funding for operations into early 2026
Summary	 Upon close, company expected to be renamed "Enliven Therapeutics, Inc." trading as Nasdaq: ELVN
	 Supported by the Board of Directors of both companies and is subject to shareholder approval and other customary closing conditions
	 Expected ownership is approximately 84% Enliven (including those purchasing Enliven shares in the private financing), 16% Imara, subject to adjustment based on Imara's net cash at closing
Overview	 Projected \$82.3 million net cash and cash equivalents from Imara and an additional \$164.5 million of cash from concurrent financing
	 CVR agreement to provide additional consideration to Imara stockholders if milestone payments are received from the previously announced pending sale of tovinontrine (IMR-687) or a potential sale or license involving IMR-261
	 Merger and concurrent financing expected to close in 1Q 2023
	Existing Enliven management to lead the combined company
Management &	 New Board of Directors will include 9 members (8 existing Enliven, 1 existing Imara)
Programs	 Combined company will focus on advancing the development of Enliven programs
Programs	

The Enliven Story



Discovery process rooted in validated biology, differentiated chemistry, and disciplined trial design





ELVN-001 and ELVN-002 supported by preclinical evidence of an improved therapeutic index

Multiple near-term milestones in lead programs targeting large and attractive markets



Experienced team with a track record of inventing and developing multiple FDA-approved cancer therapies

Supported by top tier healthcare investors and a strong balance sheet expected to provide cash runway into early 2026

Highly Distinguished & Industry-Leading Team with Top-Tier Advisors and Investors



Sam Kintz, MBA Co-founder and CEO abbvie Genentech



ARRAY

Genentech

Stefan Gross. PhD VP, Biology Solueprint



Anne Thomas VP, Clinical Operations **FivePrime** 🚺 GILEAD

Leadership Team



abbvie **Opharmacyclics**

Wei Deng, PhD

VP. Biometrics

FivePrime

🚺 GILEAD

lan Scott, PhD

VP, CMC

】 zentalis

ARRAY



Andy Ren, PhD VP, Chemistry ARRAY

Helen Collins. MD

CMO

FivePrime

🚺 GILEAD



Qi Wang, PhD VP, Clinical Pharmacology Bristol Myers Squibb Jazz Pharmaceuticals.



Ben Hohl CFO

Goldman Sachs







Board of the Directors

Sam Kintz, MBA Enliven Therapeutics

Joe Lyssikatos, PhD Enliven Therapeutics

> Rishi Gupta, JD OrbiMed

> Andy Schwab 5AM Ventures

Andy Phillips, PhD **Cormorant Asset Management**

Mika Kakefuda Derynck, MD Amunix Genentech

> Jake Bauer, MBA Myokardia

Rich A. Heyman, PhD Aragon Pharmaceuticals, Seragon Pharmaceuticals

Rahul Ballal. PhD* Current CEO of Imara

Scientific Advisors

Brian Druker, MD **Oregon Health &** Science University

Rich A. Heyman, PhD Aragon Pharmaceuticals, Seragon Pharmaceuticals

> Lori Kunkel, MD Loxo Oncology, Pharmacyclics

Kevin Koch, PhD Array Biopharma, **Edgewise Therapeutics**

Current Investors





Cormorant Asset

Management

SURVEYOR







SHEATREE

Janus Henderson

Leadership Team with Broad Range of Experience and Success



World-Renowned Chemists

 Primarily or co-invented over 20 product candidates that have advanced to clinical trials



Precision Oncology and Kinase Inhibitor Experts

 Led or been involved with the discovery, development, or commercialization of over
 60 kinase inhibitor programs



Leaders with a Track Record of Success

 Significant experience building and/or leading research, development, and commercial operations

FDA-Approved Drugs Co-Invented by Enliven Chemists









Pipeline & Discovery Programs

Parallel lead product candidates:

Program	Target	Disease	Differentiation	Lead Optimization	IND-Enabling	Phase 1	Phase 2	Phase 3	Next Milestone	Milestone Expected
ELVN-001	BCR-ABL	CML	Highly selective w/T315I activity						Early Phase 1 Data	YE 2023
ELVN-002	HER2 & mutants	NSCLC, other solid tumors	EGFR sparing, pan-mutant						IND Filing	4Q 2022

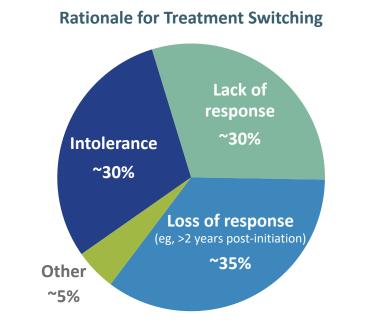
The following table highlights discovery programs that we are prioritizing:

Target	Disease	Differentiation	Target ID / Validation	Lead Identification	Lead Optimization	IND-Enabling	Phase 1	Phase 2	Phase 3
Target 1	Solid tumors	No approved therapies							
Target 2	Solid tumors	CNS penetration						product o	to make a candidate
Target 3	Solid tumors	No approved therapies						nominatior program b	n for our 3 rd by 1H 2023
Target 4	Solid tumors	No approved therapies							

ELVN-001: Despite Great Advances, a Significant Need Remains for Better Treatment Options for Chronic Myeloid Leukemia



- Approximately **1** in **5** patients switch therapy within the first year and **~40%** of patients switch in the first 5 years (1L & 2L)
- Growing 3L+ patient population (>25% of CP-CML) with limited treatment options
- Except for asciminib, approved TKIs have **poor kinase selectivity**, resulting in tolerability issues that impact efficacy
- Comorbidities, restrictions with concomitant medications, and specific administration requirements impede long-term patient adherence
- Fewer than 10% of patients successfully achieve sustained treatment-free remission (TFR)



Switching Dynamics Demonstrate Unmet Need

Majority of HCPs (77%) indicated need for more effective, safe, and tolerable agents in CML In the US and EU3, majority of treatment switches across lines of therapy and TKIs are driven by intolerance or initial lack of molecular response (~60% combined)

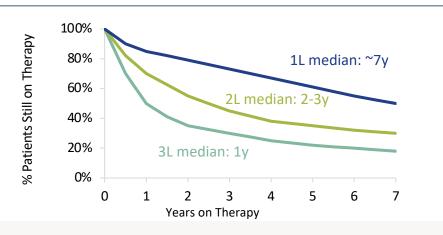
TKI = Tyrosine kinase inhibitors, HCP = Healthcare professional

Evolving Chronic Myeloid Leukemia Market Dynamics

Current Market

- Growing patient population due to improved survival, requiring some patients to be on TKIs for decades
- Existing **approved drugs have liabilities as chronic therapy**, including poor tolerability due to off-target effects and inability to dose to maximal efficacy resulting in high switch rates
- Nevertheless, the five approved drugs (including generics) drive annual sales of >\$6B, with every drug achieving ~\$500M in sales and multiple drugs achieving sales of >\$2B

Treatment Duration for SOC by Line of Therapy

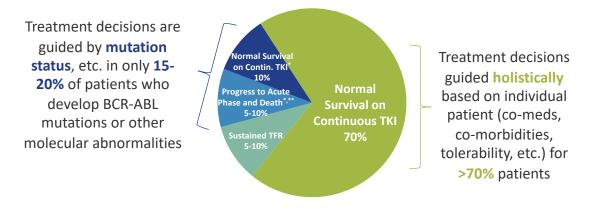


CML is a chronic disease requiring many years (even decades) of treatment

Our Vision

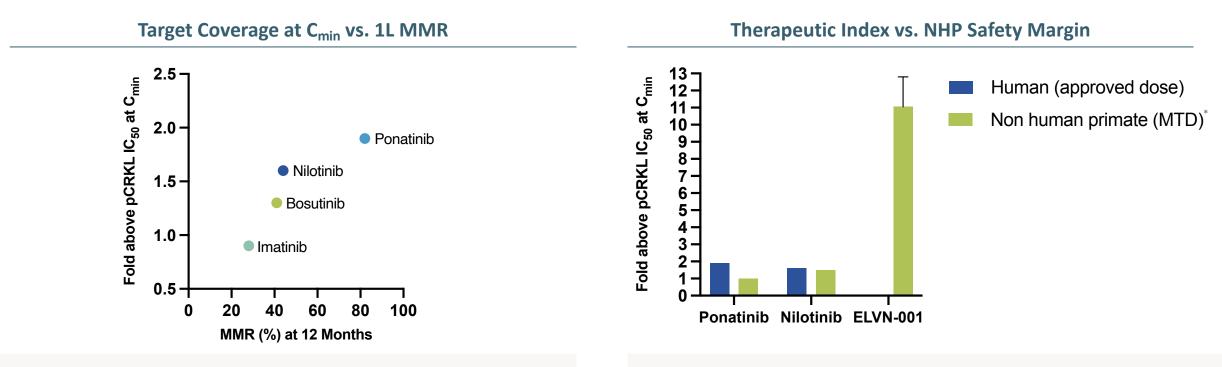
- New drugs with **better tolerability and efficacy** profiles further drive increased switching rates and gain rapid adoption (similar to the HIV market)
- Additional focus from patients and doctors on **deeper molecular responses** (TFR) as well as **tolerability and convenience** factors for long-term treatment
- Chronic nature of CML allows doctors to **freely switch** between therapies, with limited consequences, thereby **blurring lines of therapy**

Current Outcomes in CML



10% overall share (by patients) equates to >\$1 billion market opportunity in the U.S. alone⁺

ELVN-001 Potentially Affords an Improved Therapeutic Index



- Clear correlation between target coverage of the approved agents and major molecular response rate (MMR) at 12 months¹
- Phosphorylated CRKL or pCRKL IC₅₀ represents a robust pharmacodynamic marker for BCR-ABL inhibition

- Toxicology studies with other ABL TKIs show that the maximum tolerated drug exposure is similar between non-human primates and humans
- Data suggests ELVN-001 has the potential for significantly greater therapeutic index than existing TKIs

MMR = Major molecular response. MTD = Maximum tolerated dose. NHP = Non-human primate

*NHP data for ponatinib, nilotinib, and dasatinib were obtained from the data reported for the maximum tolerated dose (MTD) in their respective NDAs (Cmin was estimated). NHP data from 28-day GLP tox study for ELVN-001 at 5 mg/kg, a well-tolerated, no adverse event dose (NOAEL) y-axis: mean Cmin plasma concentration at the human approved dose (or NHP MTD) divided by K562 pCRKL ICso in 100% human serum

Reference: Ishida et al. Eur J Clin Pharmacol. 2016;72(2):185-93.

¹Dasatinib was excluded from our analysis due to its short half-life in humans (3-5 hours), however early clinical responses correlated with dasatinib concentrations above its pCRKL ICso for more than 13 hours.

ELVN-001 Clinical Focus and Target Product Profile



- Activity against native BCR-ABL and T315I mutation (& known asciminib resistant mutations)
- High selectivity vs. clinically relevant off-targets
- Efficacy: MMR (& MR4.5) greater than approved TKIs driven by an enhanced therapeutic window
- Tolerability: fewer dose reductions & discontinuations
- Safety: No black box warnings; no edema, effusions, or rash
- · No restrictions with concomitant medications

Dose Escalation in 3L+ and Expansion

- Progressed/Intolerant CP-CML
- Explore early LoT & combinations
- Seek to demonstrate improved efficacy (CCyR, MMR, MR4.5) and tolerability

4L+ and T315I mutation

- Single-arm study; precedent for approval in last line based on CCyR/MMR by 12m
- T315I mutation in ponatinib or asciminib progressed/intolerant/ineligible

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Early Line H2H vs Physician's Choice

- Superiority based on 12m MMR in CP-CML
- Fewer dose reductions/discontinuations vs. approved agents

ELVN-002: Opportunity for a Selective Irreversible Pan-Mutant HER2 TKI

Current HER2 TKI Landscape

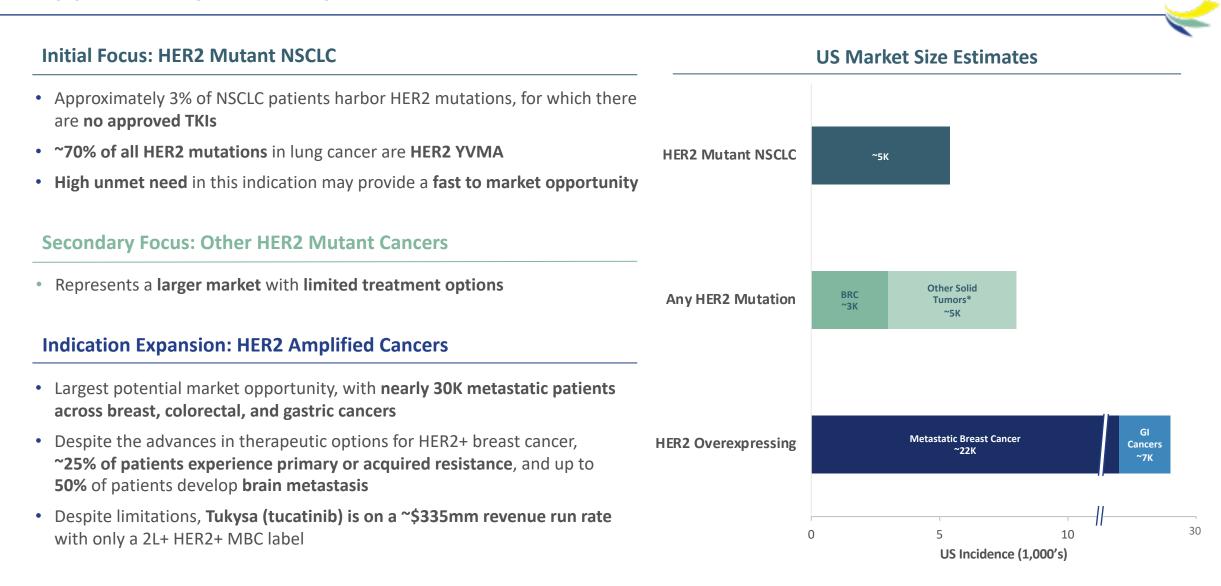
- The **high degree of structural homology** between EGFR and HER2 makes it difficult to design HER2-selective inhibitors
- Most approved and investigational agents are dual EGFR/HER2 inhibitors that are dose-limited by EGFR-driven toxicity
- Tucatinib is the only approved HER2-selective TKI, but lacks potency against key mutants, including HER2 YVMA, the most common Exon 20 insertion mutation (E20IM) in NSCLC, and L755, the most common HER2 breast cancer mutation
- Current HER2 TKIs do not achieve sufficient CNS free drug levels to address brain metastases, leading to disease progression in patients with lung and breast cancer

Our HER2 Candidate: ELVN-002

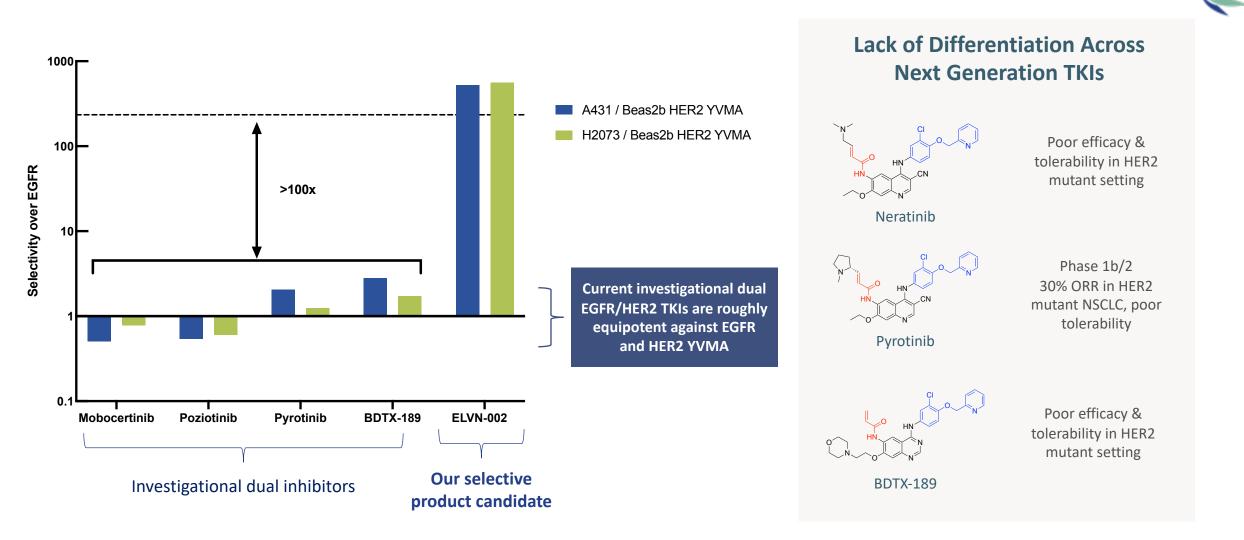
- Designed to **irreversibly inhibit** HER2 and **multiple key HER2 mutations**, including HER2 YVMA and L755, and
- Selectively inhibit HER2 while sparing EGFR to prevent EGFR-related toxicities, with the potential for improved efficacy in NSCLC and other cancers
- Demonstrated superior pre-clinical activity in HER2amplified subcutaneous and intracranial models, and an improved safety margin in NHPs compared to tucatinib

We believe that our product candidate, if it achieves the target profile, will be able to achieve an improved therapeutic index compared to current approved and investigational TKIs as well as provide a meaningful therapeutic option to patients with brain metastases

HER2 Mutant NSCLC May Provide More Rapid Market Entrance Opportunity with Expansion into Other HER2-Driven Cancers to Follow



ELVN-002 was >100x More Selective for HER2 YVMA Relative to EGFR Than Dual EGFR/HER2 Competitors



ELVN-002 Clinical Focus and Target Product Profile



- **Safety/tolerability**: minimal GI and skin toxicity (avoid EGFR-tox)
- Combinable: with SOC including ADCs across HER2-driven tumors
- Convenient: oral QD or BID

Dose Escalation in solid tumors with HER2 alterations

- Monotherapy in HER2-driven solid tumors
- Evaluate the safety in the combination with ADCs in HER2+ breast cancer and HER2 mutant NSCLC

Expansion: 2L+ HER2 mutant NSCLC

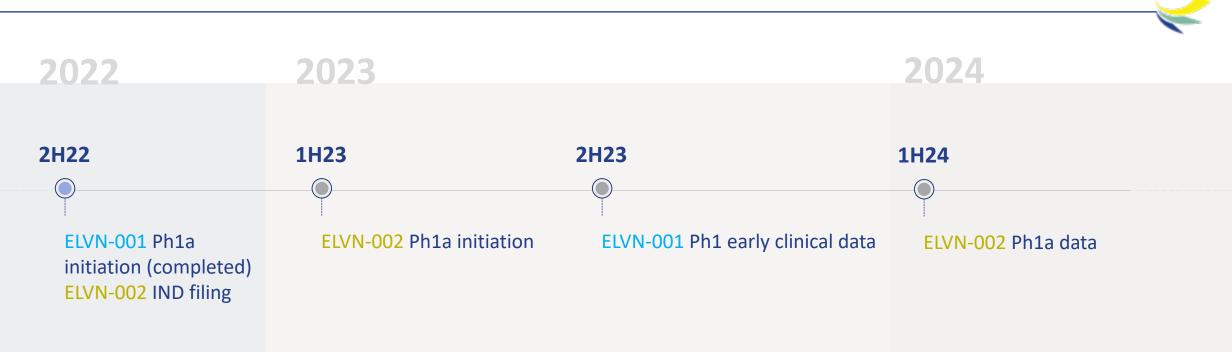
• Single-arm study with potential to support accelerated approval



Multiple Indication Opportunities

- 1L HER2 mutant NSCLC +/- SOC
- Evaluate HER2+ CRC and HER2+ Breast in combination with SOC
- Explore other HER2 mutant solid tumors with "basket study"

Expected Near-term Clinical Milestones for Parallel Lead Product Candidates



ELVN-001

ELVN-001 Potential Pivotal Studies

- Late line single arm
- T315I single arm ponatinib or asciminib intolerant / ineligible
- Early line H2H vs. Physician's Choice

ELVN-002

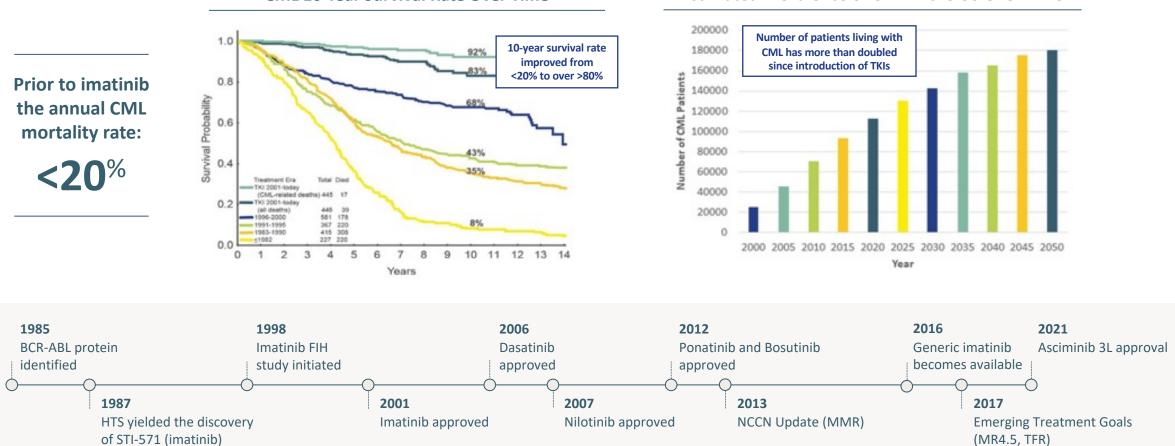
ELVN-002 Potential Pivotal Studies

- 2L+ NSCLC HER2 mutant monotherapy
- HER2 amplified MBC monotherapy & combinations
- HER2 mutant basket, HER2-amp CRC, etc.



Chronic Myeloid Leukemia

A big success story for precision oncology, but needs remain as treatment goals have evolved



Estimated Prevalence of CML in the US Over Time

CML 10-Year Survival Rate Over Time

CML = Chronic myeloid leukemia. FIH = First-in-human. MMR = Major molecular response. TFR = Treatment-free reemission

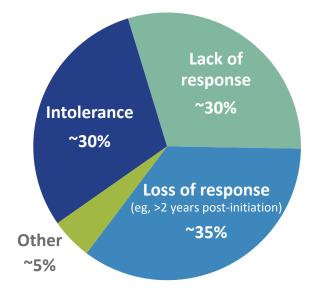
References: Huang X et al. Cancer. 2012;118:3213-3127. DOI: 10.1002/cncr.26679; Kantarjian et al. Chronic Myeloid Leukemia, In: Harrison's Principles of Internal Medicine. 2014.

Significant Need Remains for More Treatment Options for CML

Challenges with Current Standard of Care

- Approximately **1** in **5** patients switch therapy within the first year and **~40%** of patients switch in the first 5 years (1L & 2L)
- Growing 3L+ patient population (>25% of CP-CML) with limited treatment options
- Except for asciminib, the approved TKIs have poor kinase selectivity resulting in tolerability issues that impact efficacy
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Switching Dynamics Demonstrate Unmet Need



Rationale for Treatment Switching

In the US and EU3, majority of treatment switches across lines of therapy and TKIs are driven by intolerance or initial lack of molecular response (~60% combined)

Majority of HCPs (77%) indicated need for more effective, safe, and tolerable agents in CML

TKI = Tyrosine kinase inhibitors, HCP = Healthcare professional

Poor Selectivity Limits Tolerability & Efficacy of 1st, 2nd & 3rd Gen Agents

Compound	Company	T315I Coverage	Off Target(s) & Treatment-Related AEs		BCR-ABL Coverage	1L Efficacy	Drug & Administration Requirements	2021 FY Sales (USD)
Imatinib (Gleevec®)	Novartis	х	c-KIT, CSFR-1, PDGFR	Myelosuppression: 20-25% Gr 3+ Fluid Retention/Edema: 68% Myalgia/Arthralgia: 50% GI-related: 50%	+	28% MMR 3% MR4.5	Avoid strong CYP3A inhibitors or inducers	\$1.0B
Dasatinib (Spyrcel®)	BMS	х	SRC family, c-KIT, PDGFR-αβ	Myelosuppression: 10-20% Gr 3+ Edema/Effusions: 15-30%	N/A	46% MMR 5% MR4.5	Avoid strong CYP3A inhibitors or inducers, PPIs, antacids, and H2 blockers	\$2.1B
Nilotinib (Tasigna®)	Novartis	х	c-KIT, PDGFR, CSFR-1, DDR-1 (hERG Channel)	Myelosuppression: 10-20% Gr 3+ Hypertension: 10% Black Box: QT Prolongation, Sudden Deaths	++	44% MMR 11% MR4.5	Avoid strong CYP3A inhibitors or inducers and PPIs; avoid food 2 hours before and 1 hour after each dose	\$2.0B
Bosutinib (Bosulif®)	Pfizer	х	SRC family	Diarrhea: 82% Nausea: 39% Vomiting: 32% Increased LFTs: 20%	++	41% MMR 7.5% MR4.5	Avoid strong CYP3A inhibitors or inducers, PPIs, antacids, and H2 blockers	\$500M
Ponatinib (Iclusig®)	Takeda	\checkmark	KDR, FGFR, c-KIT, RET, FLT3, PDGFR	Myelosuppression: 50% Gr 3+ Hypertension: 70% Black Box: Arterial Occlusive Events, Heart Failure, VTE, Hepatoxicity	+++	82% MMR* 56% MR4.5	Avoid strong CYP3A inhibitors or inducers	\$500M

A selective BCR-ABL inhibitor could yield enhanced target coverage, leading to greater efficacy and better long-term tolerability

FY = Fiscal year. MMR = Major molecular response. MR4.5 = Deep molecular response. PPI = Proton pump inhibitors

MMR and MR 4.5 at 12m; 2020 FY Sales (USD) are approximate figures

*Based on the discontinued Ponatinib's 1L CML study; not an approved line of therapy

References: Cortes JE et al. J Clin Oncol, 2012; 30(28):3486-92; Kantarjian H et al. NEJM, 2010; 362(24):2260-70; Saglio G et al. NEJM 2010; 362(24):2251-9; Jain P et al. Lancet Haematol, 2015; 2(3):e118-28; Cortes JE et al. J Clin Oncol. 2016; 34(20):2333-40; Hochhaus A et al. Leukemia. 2016; 30(5):1044-54; Gleevec® (imatinib) USPI; Ilclusig® (ponatinib) USPI; Sprycel® (dasatinib) USPI; Tasigna® (nilotinib) USPI; Bosulif® (bosutinib) USPI.

Observations

- Approved in US based on 3L+ ASCEMBL Trial
- Strong launch & blockbuster sales projections in 3L+ alone demonstrate the size of the market (1L Ph3 readout 2024)
- ~30% discontinued due to lack of efficacy/AE by 48 wk
- ~50% discontinued by 96 wk, but only 1.2% due to PD/death
- **T315I dosed 5x higher** resulting in more dose reductions, enhanced pancreatic toxicity (25%) & elevated liver enzymes
- Drug-drug interactions: CYP3A4, CYP2C9
- Potential off-target resistance liabilities: PgP & BCRP
- Requires fasting 2 hours before and 1 hour after each dose

Emerging BCR-ABL mutations upon discontinuation due to lack of efficacy or progressive disease

	Asciminib (n=39)	Bosutinib (n=30)
No mutations	22 (56%)	20 (67%)
ATP Binding Site	M244V (n=3), E355G, F359V, T315I	T315I, V299L
Myristol Binding Pocket	A337T (n=3), P465	None

Mutations at baseline & end of treatment

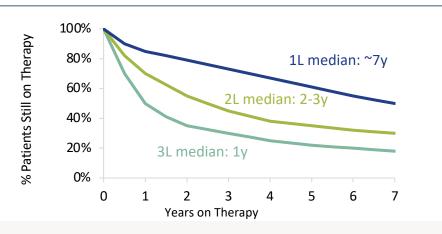
ATP Binding Site	F359C/V (n=3), F317L (n=2), Y253H	M244V (n=2), E255V, F317L, Q252H
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Evolving Chronic Myeloid Leukemia Market Dynamics

Current Market

- Growing patient population due to improved survival, requiring some patients to be on TKIs for decades
- Existing **approved drugs have liabilities as chronic therapy**, including poor tolerability due to off-target effects and inability to dose to maximal efficacy resulting in high switch rates
- Nevertheless, the five approved drugs (including generics) drive annual sales of >\$6B, with every drug achieving ~\$500M in sales and multiple drugs achieving sales of >\$2B

Treatment Duration for SOC by Line of Therapy

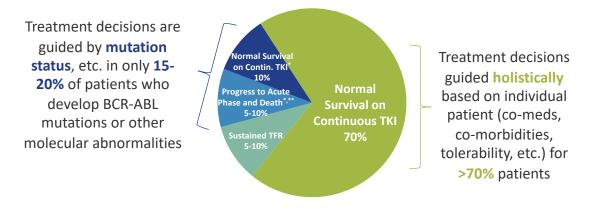


CML is a chronic disease requiring many years (even decades) of treatment

Our Vision

- New drugs with **better tolerability and efficacy** profiles further drive increased switching rates and gain rapid adoption (similar to the HIV market)
- Additional focus from patients and doctors on **deeper molecular responses** (TFR) as well as **tolerability and convenience** factors for long-term treatment
- Chronic nature of CML allows doctors to **freely switch** between therapies, with limited consequences, thereby **blurring lines of therapy**

Current Outcomes in CML



10% overall share (by patients) equates to >\$1 billion market opportunity in the U.S. alone⁺

Our Strategy and Initial Positioning in an Evolving CML Market

reatm	ent Paradig	m			Market Insights	Market Size (US)
1L (50%)	1st Gen T Imatinib 28% MM			e n TKIs tinib, Bosutinib MMR	unven by laster & deeper molecular responses	
2L (30%)	<mark>2nd Gen T</mark> ~35% MM		2nd Gen TKIs ~20-25% MMR	ELVN-001	HCPs consistently express high interest in prescribing novel agents with improved safety/tolerability and efficacy in 2L+	• • • • • • • • • • • • • • • • • • •
3L+ (20%)	2nd Bosutinib ~20% MMR	Pona	& 4th Gen TKIs atinib Asciminib MMR ~33% MMR	30-40%+ MMR Target*	Asciminib has the potential to become the preferred option in earlier lines of therapy HCPs report up to ~25% of patients end up back on imatinib in 3L+ setting	• • • • • • • • • • • • • • • • • • •





2nd Gen TKIs = Nilotinib, Dasatinib, Bosutinib. MMR = Major Molecular Response at ~12 months. *Depending on patient population

**Ponatinib-naïve patients (n = 21).

References HCP Qualitative & Quantitative Interviews (ClearView); Gleevec® (imatinib) USPI; Icsluig® (ponatinib) USPI; Sprycel® (dasatinib) USPI; Tasigna® (nilotinib) USPI; Bosulif® (bosutinib) USPI; Cortes JE et al. Blood. 2020;136(Supplement1):47-50; Hochhaus et al. ASH 2020.

ELVN-001 Clinical Focus and Target Product Profile



- Activity against native BCR-ABL and T315I mutation (& known asciminib resistant mutations)
- High selectivity vs. clinically relevant off-targets
- Efficacy: MMR (& MR4.5) greater than approved TKIs driven by an enhanced therapeutic window
- Tolerability: fewer dose reductions & discontinuations
- Safety: No black box warnings; no edema, effusions, or rash
- · No restrictions with concomitant medications

Dose Escalation in 3L+ and Expansion

- Progressed/Intolerant CP-CML
- Explore early LoT & combinations
- Seek to demonstrate improved efficacy (CCyR, MMR, MR4.5) and tolerability

4L+ and T315I mutation

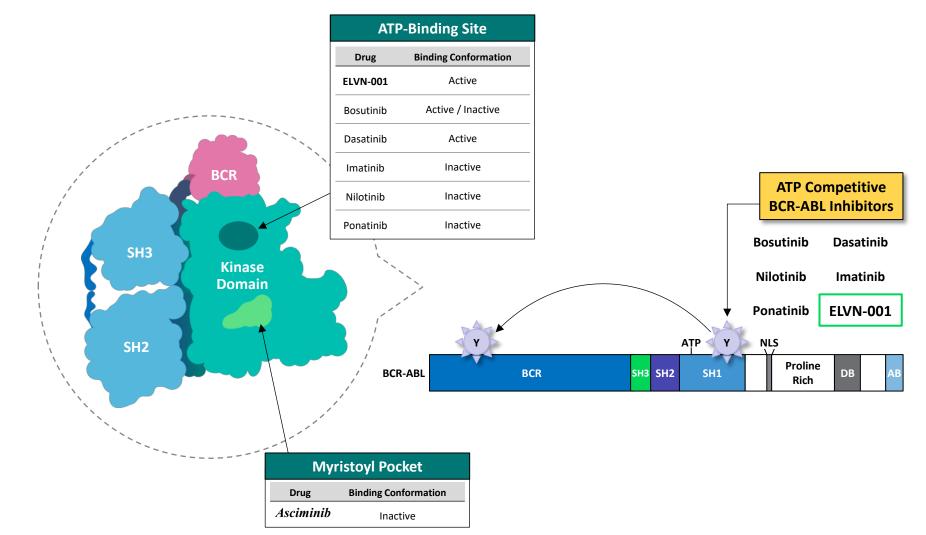
- Single-arm study; precedent for approval in last line based on CCyR/MMR by 12m
- T315I mutation in ponatinib or asciminib progressed/intolerant/ineligible



Early Line H2H vs Physician's Choice

- Superiority based on 12m MMR in CP-CML
- Fewer dose reductions/discontinuations vs. approved agents

ELVN-001 is a Selective Active Site, Active Form Inhibitor of BCR-ABL



Y=Tyrosine; NLS=Nuclear Localization Signal; SH1=Src Homology 1 Domain; SH2=Src Homology 2 Domain; SH3=Src Homology 3 Domain; DB=DNA-Binding Region; AB=Actin-Binding Region; BCR=Breakpoint cluster region

ELVN-001 Has a Differentiated and Attractive Profile for CML

	Asciminib	Ponatinib	Nilotinib	ELVN-001	
KCL-22 (BCR-ABL ^{wt}) cytotox IC_{50} (50% human serum)	7 nM	1 nM	90 nM	19 nM	
KCL-22 (BCR-ABL ^{T315I}) cytotox IC ₅₀ (50% human serum)	>1,150 nM	14 nM	> 10,000 nM	131 nM	
K-562 (BCR-ABL ^{wt}) cytotox IC ₅₀ (50% human serum)	101 nM	4 nM	228 nM	65 nM	
K-562 pCRKL IC ₅₀ (100% human serum)	NA	36 nM	1,080 nM	112 nM	Strong correlation to MMR in humans
HL-60 cytotox IC ₅₀ (10% FBS)	12,200 nM	366 nM	5,050 nM	3,550 nM	
Human Hepatocyte stability, extraction ratio	60	62	62	0	-
Plasma Protein Binding (% unbound)	~2	< 1	< 1	40	_
CYPs (% inhibition @ 10 µM)	All < 50%	All < 50%	2C8, 2C9, 3A4, 2C19 > 50%	All < 50%	_
hERG IC ₅₀	25 μΜ	2.3 μM	0.13 μM	> 30 μM	-
BCRP Substrate	Yes	Yes	Yes	No	BCRP may play a role in off-target resistance

- Good potency in the presence of human serum against native BCR-ABL and T315I (smaller potency shift compared to ponatinib & asciminib)
- Designed for safe and flexible use including **reduced risk of DDIs**, appropriate for a chronic disease setting
- Good predicted human PK will enable maximal target coverage through the full dosing window

ELVN-001 is Selective for ABL1

- ELVN-001 has a very selective kinase profile
 - Clean vs. key off-targets in cells
 - 372 kinases screened at 1 μM compound (100 μM ATP)
 - Kinases with >50% inhibition selected for IC₅₀ determination
 - >100x window vs. all but 2 kinases profiled
- ELVN-001 is also very clean (>10 μM) in an *in vitro* safety panel of >130 receptors

Cellular Phosphorylation IC₅₀ (nM)

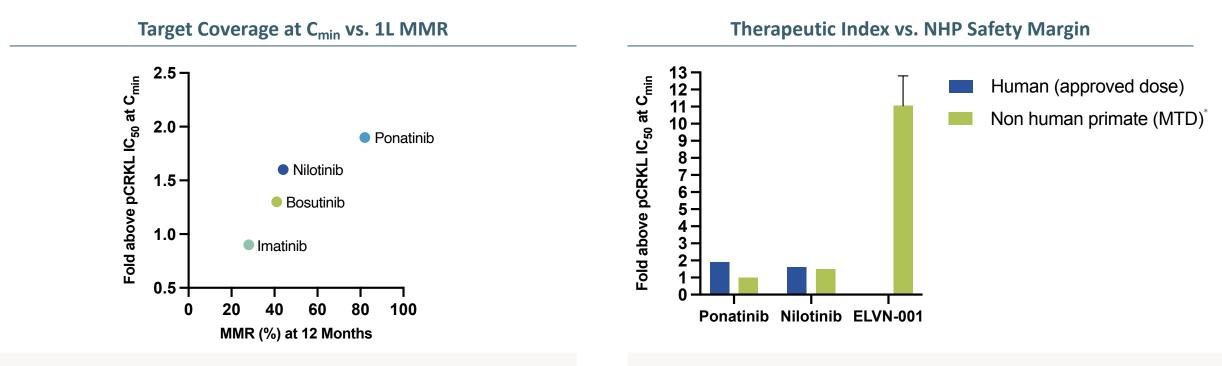
	сКІТ	FLT3wt	PDGFRb	VEGFR2	cSRC
ELVN-001	>10,000	>10,000	>10,000	>10,000	>10,000
Ponatinib	30	3.8	89	4.8	630
Nilotinib	200	>10,000	720	2,900	>10,000
Dasatinib	0.6	>1,000	7.1	>1,000	10
Bosutinib	1,000	4,700	7,900	>10,000	16

ELVN-001 (100 μM ATP)

Kinase	IC ₅₀ (nM)
ABL1	1
ABL2/ARG	31
TRKC	41
τνικ	110
LOK/STK10	183
LRRK2	486
FGR	550
ACK1	698
FYN	725
HGK/MAP4K4	973
LCK	>1,000

Large window for ABL2/ARG may result in a favorable safety profile

ELVN-001 Potentially Affords an Improved Therapeutic Index



- Clear correlation between target coverage of the approved agents and major molecular response rate (MMR) at 12 months¹
- Phosphorylated CRKL or pCRKL IC₅₀ represents a robust pharmacodynamic marker for BCR-ABL inhibition

- Toxicology studies with other ABL TKIs show that the maximum tolerated drug exposure is similar between non-human primates and humans
- Data suggests ELVN-001 has the potential for significantly greater therapeutic index than existing TKIs

MMR = Major molecular response. MTD = Maximum tolerated dose. NHP = Non-human primate

*NHP data for ponatinib, nilotinib, and dasatinib were obtained from the data reported for the maximum tolerated dose (MTD) in their respective NDAs (Cmin was estimated). NHP data from 28-day GLP tox study for ELVN-001 at 5 mg/kg, a well-tolerated, no adverse event dose (NOAEL) y-axis: mean Cmin plasma concentration at the human approved dose (or NHP MTD) divided by K562 pCRKL ICso in 100% human serum

Reference: Ishida et al. *Eur J Clin Pharmacol.* 2016;72(2):185-93.

¹Dasatinib was excluded from our analysis due to its short half-life in humans (3-5 hours), however early clinical responses correlated with dasatinib concentrations above its pCRKL ICso for more than 13 hours.

ELVN-001 Clinical Development Strategy

Phase 1

TRIAL

- CP-CML intolerant / resistant
- T315I mutation

GOALS

- Demonstrate potential for efficacy superior to 2nd Gen TKIs (at least as good as asciminib & ponatinib) at well tolerated dose(s)
- Identify dose(s) for Phase 1b and beyond

Phase 1b / 2

TRIAL

- Late line single arm & T315I single arm
- Explore based on data (MMR/MR4.5)
 - Earlier lines of therapy
 - Combinations with approved TKIs (e.g., asciminib)

GOALS

- Establish PoC for deep and durable responses in early line CML
- Demonstrate efficacy and safety profile suitable for initiating early line H2H

Registrational / Phase 3

TRIAL

- File on 4L+ and T315I single arm data
- Initiate early line H2H vs. Physician's Choice

GOALS

- Accelerated Approval in late line CP-CML
- Initiate early line H2H for broad label accelerated approval in CP-CML



ELVN-002: Opportunity for a Selective Irreversible Pan-Mutant HER2 TKI

Current HER2 TKI Landscape

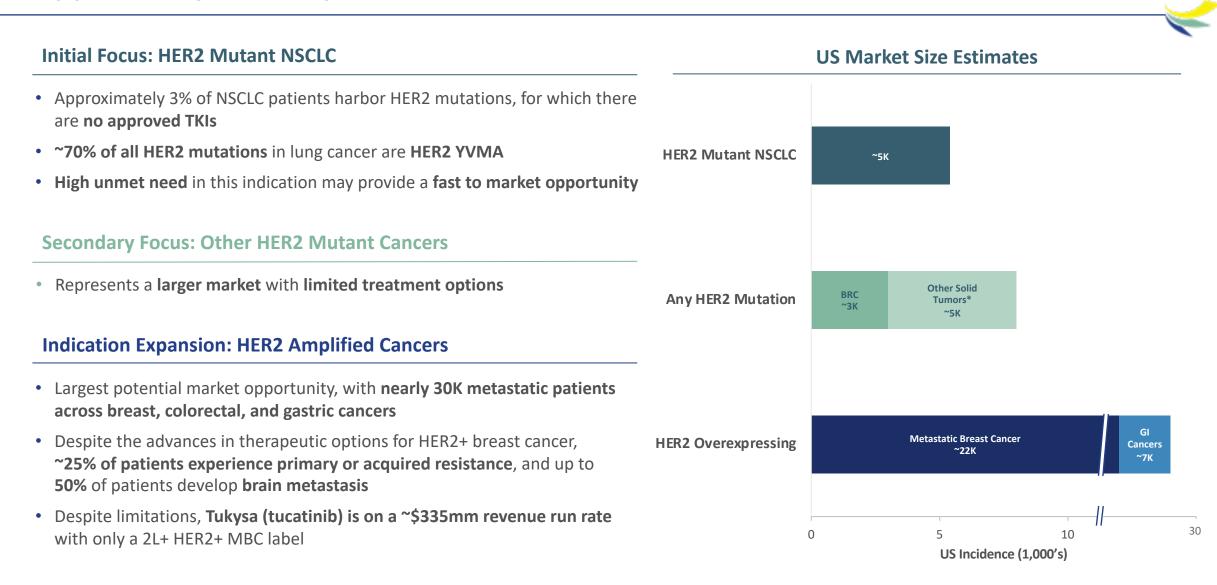
- The **high degree of structural homology** between EGFR and HER2 makes it difficult to design HER2-selective inhibitors
- Most approved and investigational agents are dual EGFR/HER2 inhibitors that are dose-limited by EGFR-driven toxicity
- Tucatinib is the only approved HER2-selective TKI, but lacks potency against key mutants, including HER2 YVMA, the most common Exon 20 insertion mutation (E20IM) in NSCLC, and L755, the most common HER2 breast cancer mutation
- Current HER2 TKIs do not achieve sufficient CNS free drug levels to address brain metastases, leading to disease progression in patients with lung and breast cancer

Our HER2 Candidate: ELVN-002

- Designed to **irreversibly inhibit** HER2 and **multiple key HER2 mutations**, including HER2 YVMA and L755, and
- Selectively inhibit HER2 while sparing EGFR to prevent EGFR-related toxicities, with the potential for improved efficacy in NSCLC and other cancers
- Demonstrated superior pre-clinical activity in HER2amplified subcutaneous and intracranial models, and an improved safety margin in NHPs compared to tucatinib

We believe that our product candidate, if it achieves the target profile, will be able to achieve an improved therapeutic index compared to current approved and investigational TKIs as well as provide a meaningful therapeutic option to patients with brain metastases

HER2 Mutant NSCLC May Provide More Rapid Market Entrance Opportunity with Expansion into Other HER2-Driven Cancers to Follow



HER2 Mutant NSCLC Landscape: No Approved Selective TKIs

Compound	Company	Stage	МоА	Selectivity vs. EGFR ^{WT}	HER2mut NSCLC Efficacy	Safety / Tolerability
CURRENT & POTENTI	AL FUTURE STANDA	Rd of care				
Platinum- doublet	N/A	N/A	Chemo	N/A	ORR: ~25-35% mPFS: 4-7m	Gr 3+ Neutropenia: 19% Nausea: 52% Constipation, diarrhea, vomiting, cough, dyspnea, decreased appetite (20-30% each)
Trastuzumab deruxtecan (Enhertu®)	Daiichi Sankyo	FDA Approved (2L+)	HER2-ADC topoisomerase payload	HER2-specific	ORR: 58% DOR: 8.7m	Gr 3+ Neutropenia: 16%; Black Box Warning: 12% ILD/pneumonitis (all grades) <u>All Grade</u> Nausea (61%), Anemia (34%), Fatigue (32%) Dose discontinuation due to AE: 8%
INVESTIGATIONAL TK	ls					
Poziotinib	Spectrum	PDUFA Nov 2022 (ODAC 09/22)	Irreversible, EGFR/HER2	< 1x	ORR: ~28% mPFS: 5.5m	Gr 3+: Rash (49%); Diarrhea (26%); Stomatitis (25%) <u>All Grade</u> Rash (91%); Diarrhea (82%); Stomatitis (69%); Paronychia (38%) Dose modifications due to AEs: 91% Dose discontinuations due to AEs: 13%
Pyrotinib	Jiangsu HengRui Medicine	Phase 3	Irreversible, EGFR/HER2	<u>≤</u> 1x	ORR: 19% mPFS: 5.6m	Gr 3+: Diarrhea (17%) <u>All Grade</u> Diarrhea (86%); Fatigue (58%); Anemia (36%); Dizziness (33%); Decreased appetite (32%, Hand-foot syndrome (32%); Nausea (32%) Dose modification due to AEs: 8%
BI-1810631	Boehringer Ingelheim	Phase 1a	Irreversible, HER2	> 100x	NA	Phase 1 in progress at 6 sites (US, Japan, China Netherlands) – As of April 2022, 11 pts dosed (QD and BID arm). Additional clinical pharmacology studies underway to bridge to a new formulation and assess food / PPI effect.

Poor TKI selectivity of dual inhibitors resulting in EGFR-driven toxicities limits efficacy

AE = Adverse event. BID = Twice a day. DOR = Duration of response. ILD = Interstitial lung disease. NSCLC = Non-small cell lung cancer. ORR = Overall response rate. PFS = Progression free survival. PPI = Proton pump inhibitor. TKI = Tyrosine kinase inhibitor **References:** Enhertu[®] (fam-trastuxumab deruxtecan) USPI; Le, et al. J. Clin Oncol 2021, 40:710-718; Song et al, BMC Medicine (2022) 20:42; NCT04886804, NCT05380947, ASCO TiP 2022

HER2 Breast Landscape: No Irreversible, Highly Selective TKI Option

Compound	Company	МоА	Clinical Usage	HER2+ BRC Efficacy	Safety / Tolerability
ANTIBODY DRUG CONJUG	ATES				
Enhertu (fam- trastuzumab deruxtecan)	Daiichi Sankyo	HER2-ADC topoisomerase payload	2L	mPFS: NR (18.5-NE) ORR: 80%	Gr 3+: Neutropenia: 20% All Grade: ILD (11%); Nausea (72%); Alopecia, Anemia, Vomiting (30-40% each) Discontinuation due to AE: 13% (median txt duration: 14m)
Kadcyla (ado- trastuzumab emtansine)	Roche	HER2-ADC DM1 toxin payload	2L	mPFS: 6.8m ORR: 35%	Gr 3+: Thrombocytopenia: 25% All Grade: Nausea, Fatigue, AST/ALT increase (20-30% each) Discontinuation due to AE: 5% (median txt duration 7m)
TYROSINE KINASE INHIBIT	ORS				
Tukysa (tucatinib + trastuzumab + capecitabine)	Seagen	Reversible, HER2 TKI	3L+ (CNS mets)	mPFS: 7.8m ORR: 40.6% mOS: 21.9m	Gr 3+: PPE / Diarrhea (12-13% each) All Grade: Diarrhea (80%); PPE (63%); Fatigue, Nausea (~50% each) Discontinuation due to AE: 6% (median txt duration 7m)
Tucatinib (single agent)	Seagen	Reversible, HER2 TKI	N/A	ORR: 11% CBR: 22% (med prior tx: 6)	Gr 3+: ALT increase (4%); Rash (4%); Diarrhea (0%) All Grade: Diarrhea (26-33%); Nausea (33%); Fatigue (18%)
CHEMOTHERAPY					
Xeloda (capecitabine)	Roche	Chemo	3L+	ORR: 25% DoR: 5m	Gr 3+: Diarrhea (15%); PPE (11%); Nausea, Vomiting (4% each) All Grade: PPE / Diarrhea (57% each); Nausea (53%); Vomiting (37%) Discontinuation due to AE: 8% (median txt duration 3.8m)

No selective, irreversible TKI to meaningfully address brain metastases

AE = Adverse event. ADC = Antibody drug conjugate. AST = Aspartate aminotransferase. ALT = Alanine transaminase. ILD = Interstitial lung disease. NE = Not evaluable. NR = Not reached. ORR = Overall response rate. PFS = Progression free survival. PPE = Palmar-plantar erythrodysesthesia. OS = Overall survival. TKI = Tyrosine kinase inhibitor. **References:** Cortes J et al, Trastuzumab Deruxtecan versus Trastuzumab Emtansine for Breast Cancer, NEJM 2022; Murthy RK et al, Tucatinib, Trastuzumab, and Capecitabine for HER2-Positive Metastatic Breast Cancer. NEJM 2020; Moulder S et al., Phase I Study of ONT-380, a HER2 Inhibitor, in Patients with HER2-Advanced Solid Tumors,. Clin Cancer Res; 23(14); 35 Stricker et al, A phase II study of tucatinib and trastuzumab for HER2-positive mCRC (ESMO 2022); Xeloda® USPI, 2015

ELVN-002 Clinical Focus and Target Product Profile



- **Safety/tolerability**: minimal GI and skin toxicity (avoid EGFR-tox)
- Combinable: with SOC including ADCs across HER2-driven tumors •
- Convenient: oral QD or BID

Dose Escalation in solid tumors with **HER2** alterations

- Monotherapy in HER2-driven solid tumors
- Evaluate the safety in the combination with ADCs in HER2+ breast cancer and HER2 mutant NSCLC

Expansion: 2L+ HER2 mutant NSCLC

 Single-arm study with potential to support accelerated approval



Multiple Indication Opportunities

- 1L HER2 mutant NSCLC +/- SOC
- Evaluate HER2+ CRC and HER2+ Breast in combination with SOC
- Explore other HER2 mutant solid tumors with "basket study"

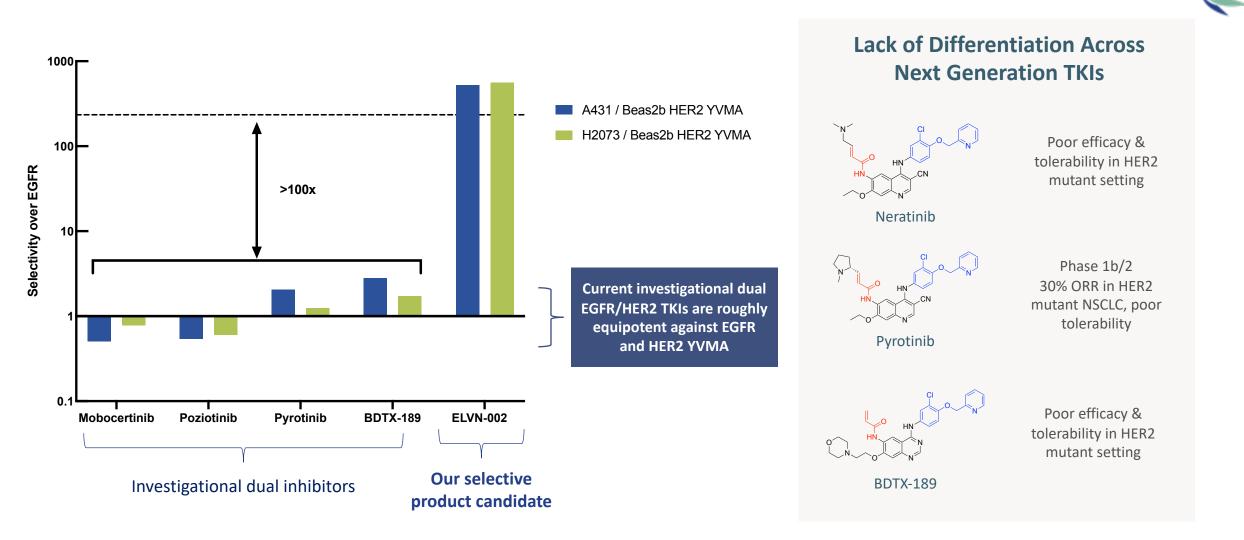
ELVN-002 Had Favorable Mutant Coverage Compared to Tucatinib

	Ba/F3	Proliferation IC50 [nM]		Proliferation IC50 Fold over		1	
	HER2 Mutation	Tucatinib	ELVN-002	Tucatinib	ELVN-002		
	wild-type	29	6	1	1		
	P95	33	11	1	2		
	A775-G776-ins-C	24	2	1	0.2	_	
	A775-G776-ins-YVMA	225	11	8	2		YVMA: 71% E20IM NSCLC
	A775-G776-ins-YVMS	510	15	18	2		
	A775-G776-ins-SVMA	157	6	5	1		
	A775-G776-ins-VVMA	294	12	10	2		
	A775-G776-ins-MMAY	287	7	10	1		
HER2 Exon20	A775-G776-ins-YVMA-R678Q	642	14	22	2	_	
Insertion	G776VC	499	17	17	3		VC: 11% E20IM NSCLC
Mutations	G776-del-ins-IC	1104	41	38	7		
Widtations	G776-del-ins-LC	88	13	3	2		
	G776-del-ins-VV	1239	34	43	5		
	G776-V777-del-ins-CVC	209	13	7	2		
	G776-Del-ins-AVGC	438	14	15	2		
	V777-G778-ins-GC	20	5	1	1		
	P780-Y781-ins-GSP	29	3	1	1		
	S310F	11	3	0.4	0.5		
	S310Y	12	3	0.4	0.5		
	R678Q	29	5	1	1		
	L755S	418	8	14	1		22% HER2 ^{mut} BRC
Common HER2 Point Mutations	L755P	1284	21	44	3		
	D769N	7	2	0.3	0.3		
	V773M	64	4	2	1		
	V777L	11	3	0.4	1		
	T798M	3412	194	118	32		
	L869R	148	2	5	0.4		
	L869R/T798I	2524	43	87	7		
	V842I	21	4	1	1		
	BaF3 parental cell line	>10000	>10000	>10000	>10000		
	EGFR	>10000	>10000	>10000	>10000	l	

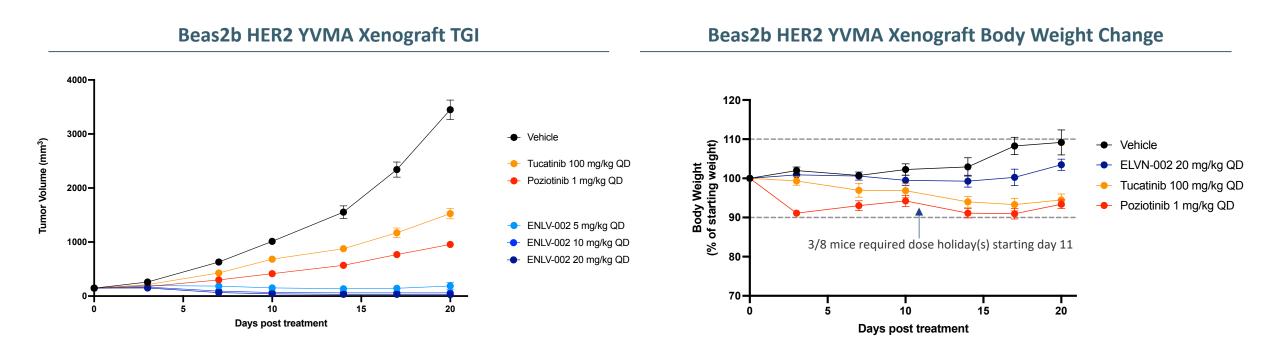
ELVN-002 Potently Inhibited HER2 & HER2 Mutants While Sparing EGFR

	Poziotinib	Pyrotinib	Tucatinib	ELVN-002	
BT474 HER2 ^{WT} pHER2 IC ₅₀	3.5	13	12	13	_
Beas2b HER2 ^{S310F} pHER2 IC ₅₀	1.9	2	16	2.8	
Beas2b HER2 ^{L755S} pHER2 IC ₅₀	4	3.5	99	4.7	In contrast to tucatinib,
Beas2b HER2 ^{YVMA} pHER2 IC ₅₀	2.1	5	127	4.2	potent pharmacodynamic activity for HER2 YVMA (71%
Beas2b HER2 ^{YVMA} pHER2 IC ₅₀ in 100% human serum (fold shift)	69 (33x)	324 (65x)	>1000 (~10x)	33 (8x)	of E20IM NSCLC) & HER2 L755 (22% HER ^{mut} BRC)
BT474 (HER2 ^{wt}) cytotox IC ₅₀	0.9	2.3	22	3.9	
NCI-N87 (HER2 ^{wt}) cytotox IC ₅₀	0.4	2.6	44	3.3	
Ba/F3 HER2 ^{YVMA} cytotox IC ₅₀	1.5	3.2	119	5.1	
H2073 (EGFR ^{wt}) pEGFR IC ₅₀	1.4	6.4	>10000	2160	
A431 (EGFR ^{wt}) pEGFR IC ₅₀	1.3	10	>10000	2290	In contrast to dual inhibitors, our candidates spare EGFR
A431 (EGFR ^{wt}) cytotox IC ₅₀	0.6	75	>10000	3530	
Human Hepatocyte stability, extraction ratio	68	74	76	22	
GSH in human liver cytosol, (% remaining @ 1h)	80%	34%	-	70%	ELVN-002 has exceptional drug like properties and PK profile for a covalent TKI
Kinetic Solubility pH 7.4 (uM)	5.6	< 0.1	9.3	260	

ELVN-002 was >100x More Selective for HER2 YVMA Relative to EGFR Than Dual EGFR/HER2 Competitors

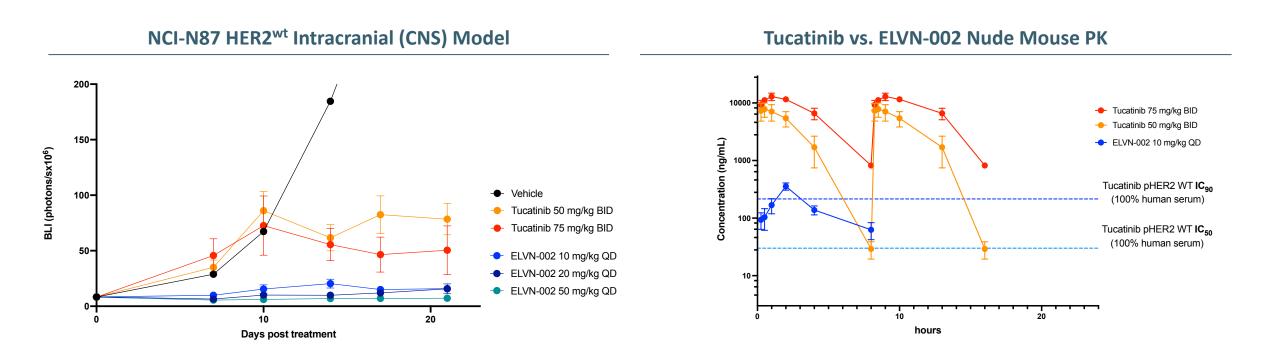


ELVN-002 Demonstrated Robust Anti-Tumor Activity in Beas2b HER2 YVMA Xenograft Model at Well-Tolerated Doses



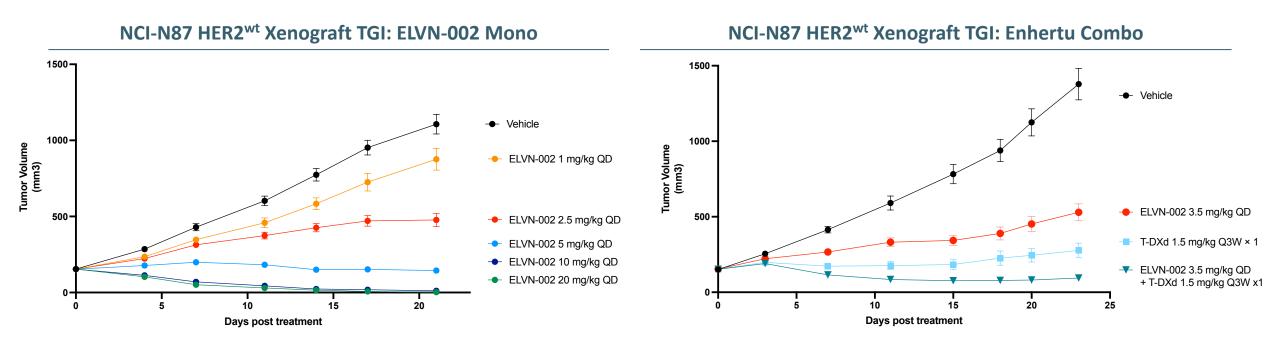
- Poziotinib's MTD in this model was 1 mg/kg, and this dose yielded an exposure ~8x its human exposure at 16 mg QD
- ELVN-002 yielded deep tumor regressions, and all doses tested were well-tolerated
- Minimal TGI vs. YVMA observed with tucatinib treatment up to ~14x its human exposure at 300 mg BID

ELVN-002 Demonstrated Robust CNS Anti-Tumor Activity in NCI-N87 HER2 amp Intracranial Model at Well-Tolerated Doses



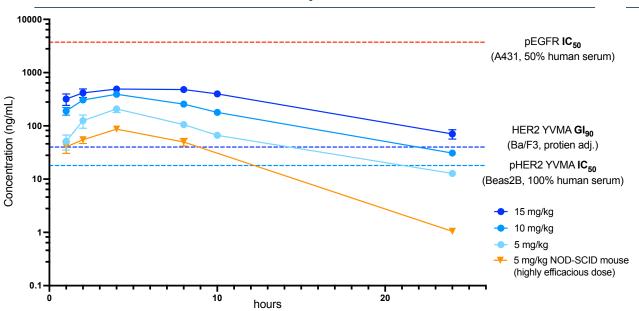
- ELVN-002 yielded sustained tumor regressions in the NCI-N87 intracranial model, and all doses tested were well-tolerated
- Tucatinib treatment of 50 & 75 mg/kg BID results in ~4.5x & ~12x its human exposure at 300 mg BID
- ELVN-002 exhibited superior CNS anti-tumor activity at ~40-100x lower exposures compared to tucatinib in this model

ELVN-002 Demonstrated Robust Anti-Tumor Activity & Additive Activity in Combination with Enhertu at Well-Tolerated Doses



- ELVN-002 yielded deep tumor regressions in the NCI-N87 xenograft model, and all doses tested were well-tolerated
- Low dose ELVN-002 combined with Enhertu resulted in additive activity and deep tumor regressions in the same model
- In contrast to reversible inhibitors like tucatinib, irreversible inhibitors have been shown mechanistically to drive increased receptor internalization, and there is both preclinical and clinical precedent for additive activity upon combining irreversible TKIs with ADCs in HER2-driven settings

ELVN-002 Achieved a Wide Safety Margin in Preclinical Species



ELVN-002 28-day GLP Tox NHP TK

ELVN-002 Safety Margin at NHP NOAEL

Dose (mg/kg)	Fold vs. Highly Efficacious Exposure	Fold vs. Tucatinib TGI-matched exposure	
5	2	5	
10	5	12	
15	8	22	- NHP NOAEL

Based on preclinical exposures (AUC), ELVN-002 had a >10x larger safety margin compared to tucatinib in NHPs (HER2 amp setting)

- At its 28-day NOAEL, ELVN-002 had a wide safety margin in non-human primates (NHPs) and even wider safety margin in rats
- At its approved dose, tucatinib only achieves IC₉₀ all day in ~40% of patients
- Due to its larger safety margin, irreversible inhibition and improved PK profile, we believe ELVN-002 has the potential to achieve better target inhibition
 - and improved efficacy compared to tucatinib

NHP = Non-human primate. NOAEL = No observed adverse event level.

Highly Efficacious Exposure equals the total AUC of ELVN-002 at 5 mg/kg in NOD-SCID mouse (836 ng*hr/mL), which yielded robust tumor regression in a HER YVMA xenograft

To determine Fold vs. Tucatinib TGI-matched exposure, we use the linearly extrapolated AUC of ELVN-002 at 2.5 mg/kg in Nude mouse, which roughly matches the TGI of Tucatinib at 20 mg/kg BID measured in an NCI-N87 xenograft model

ELVN-002 NHP data shown are measured averages from Day 1 TK male animals in a 28-day GLP tox study

References: Tucatinib NDA; Moulder, SL; et al. Data from a Completed Phase 1 Study to Assess the Safety, Tolerability and PK of ARRY-380 - an Oral Inhibitor of HER2. SABCS, December 8-12, 2010, San Antonio, TX.

ELVN-002 Clinical Development Strategy

Phase 1

TRIAL

- HER2 mutant (e.g., Exon 20 IM)
- HER2 amplified or overexpressed

Phase 1b / 2

TRIAL

- Late line HER2-mutant NSCLC
- Explore based on data
 - Earlier lines of therapy
 - Combinations with approved ADCs (e.g., trastuzumab deruxtecan)

Registrational / Phase 3

TRIAL

- File on Late line HER2-mutant NSCLC
- Initial registrational studies HTH against standard of care as mono or combination with HER2 ADC in NSCLC and breast

GOALS

- Demonstrate potential for efficacy at well tolerated dose(s)
- Identify dose(s) for Phase 1b and beyond

GOALS

- Establish PoC for HER2-mutant
 NSCLC
- Evaluate intracranial activity and combinability with approved ADCs
- Explore potential beyond NSCLC in other HER2-driven solid tumors (i.e., MBC, CRC, etc.)

GOALS

- Accelerated Approval in late line HER2-mutant NSCLC
- Initiate registrational studies in early line MBC and HER2-mutant NSCLC



