



BOUNDLESS BIOTM

Unlocking a New Paradigm in Cancer Treatment via ecDNA-Directed Therapies (ecDTx)

Corporate Presentation

December 2024

Nasdaq: BOLD

Disclaimer: Forward-Looking Statements and Market Data

We caution you that this presentation contains forward-looking statements about us and our industry. All statements other than statements of historical facts contained in this presentation, including statements regarding our future results of operations and financial position, business strategy, research and development plans, the anticipated timing, costs, design and conduct of our ongoing and planned clinical trials and preclinical studies for our extrachromosomal DNA (ecDNA) directed therapeutic candidates (ecDTx), ecDNA diagnostic candidate, and other development programs, the timing of expected readouts, the potential therapeutic benefits of our ecDTx, the timing and likelihood of regulatory filings and approvals for our ecDTx, our ability to commercialize our ecDTx, if approved, the pricing and reimbursement of our ecDTx, if approved, the potential to develop future ecDTx, the potential benefits of strategic collaborations and our intent to enter into any strategic arrangements, the timing and likelihood of success, plans and objectives of management for future operations, future results of anticipated ecDTx development efforts and the sufficiency of our cash position to fund operations and milestones, are forward-looking statements. These statements involve known and unknown risks, uncertainties and other important factors that may cause our actual results, performance or achievements to be materially different from any future results, performance or achievements expressed or implied by the forward-looking statements. In some cases, you can identify forward-looking statements by terms such as “anticipate,” “believe,” “contemplate,” “continue” “could,” “estimate,” “expect,” “intend,” “may,” “plan,” “potential,” “predict,” “project,” “should,” “target” or “will, or the negative of these terms or other similar expressions. The inclusion of forward-looking statements should not be regarded as a representation by us that any of our plans will be achieved. Actual results may differ from those set forth in this presentation due to the risks and uncertainties inherent in our business, including, without limitation: we are early in our development efforts and our approach to discover and develop ecDTx directed against ecDNA in oncogene amplified cancers is novel and unproven; results from preclinical studies or early clinical trials not necessarily being predictive of future results; potential delays in the commencement, enrollment, data readouts or completion of clinical trials or preclinical studies; our dependence on third parties in connection with clinical trials, preclinical studies, ecDNA diagnostic development, and manufacturing; unfavorable results from clinical trials or preclinical studies; we may expend our limited resources to pursue a particular ecDTx and fail to capitalize on ecDTx with greater development or commercial potential; unexpected adverse side effects or inadequate efficacy of our ecDTx that may limit their development, regulatory approval, and/or commercialization; the potential for our programs and prospects to be negatively impacted by developments relating to our competitors, including the results of studies or regulatory determinations relating to our competitors; regulatory developments in the United States and foreign countries; we may use our capital resources sooner than we expect; our ability to obtain and maintain intellectual property protection for our ecDTx, ecDNA diagnostic, and technology; unstable market and economic conditions may adversely affect our business and financial condition and the broader economy and biotechnology industry; and other risks described in our filings with the Securities and Exchange Commission (SEC), including under the heading “Risk Factors” in our quarterly report on Form 10-Q for the quarter ended March 31, 2024 and any subsequent filings with the SEC. You are cautioned not to place undue reliance on these forward-looking statements, which speak only as of the date hereof, and we undertake no obligation to update such statements to reflect events that occur or circumstances that exist after the date hereof. All forward-looking statements are qualified in their entirety by this cautionary statement, which is made under the safe harbor provisions of the Private Securities Litigation Reform Act of 1995.

This presentation also contains estimates and other statistical data made by independent parties and by us relating to market size and growth and other data about our industry. This data involves a number of assumptions and limitations, and you are cautioned not to give undue weight to such estimates. In addition, projections, assumptions, and estimates of our future performance and the future performance of the markets in which we operate are necessarily subject to a high degree of uncertainty and risk. These and other factors could cause results to differ materially from those expressed in the estimates made by the independent parties and by us.

This presentation concerns therapeutic products that are or will be under clinical investigation and which have not yet been approved for marketing by the U.S. Food and Drug Administration. They are currently limited by federal law to investigational use, and no representation is made as to their safety or effectiveness for the purposes for which they are being investigated.

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Boundless Bio (BOLD): clinical-stage public company establishing a new category in oncology that addresses oncogene amplified cancers via targeting extrachromosomal DNA (ecDNA)



Oncogene amplified cancer:

- Generally unresponsive to targeted therapy and immunotherapy
- Significant **unmet medical need** (worse survival)
- **~1.3M new patients** per year in major markets¹

ecDNA:

- Cancer-specific circular DNA—a **root cause of oncogene amplification**
- **Transformative** emerging area of cancer biology
- **Spyglass drug discovery platform** identifies ecDNA synthetic lethalties

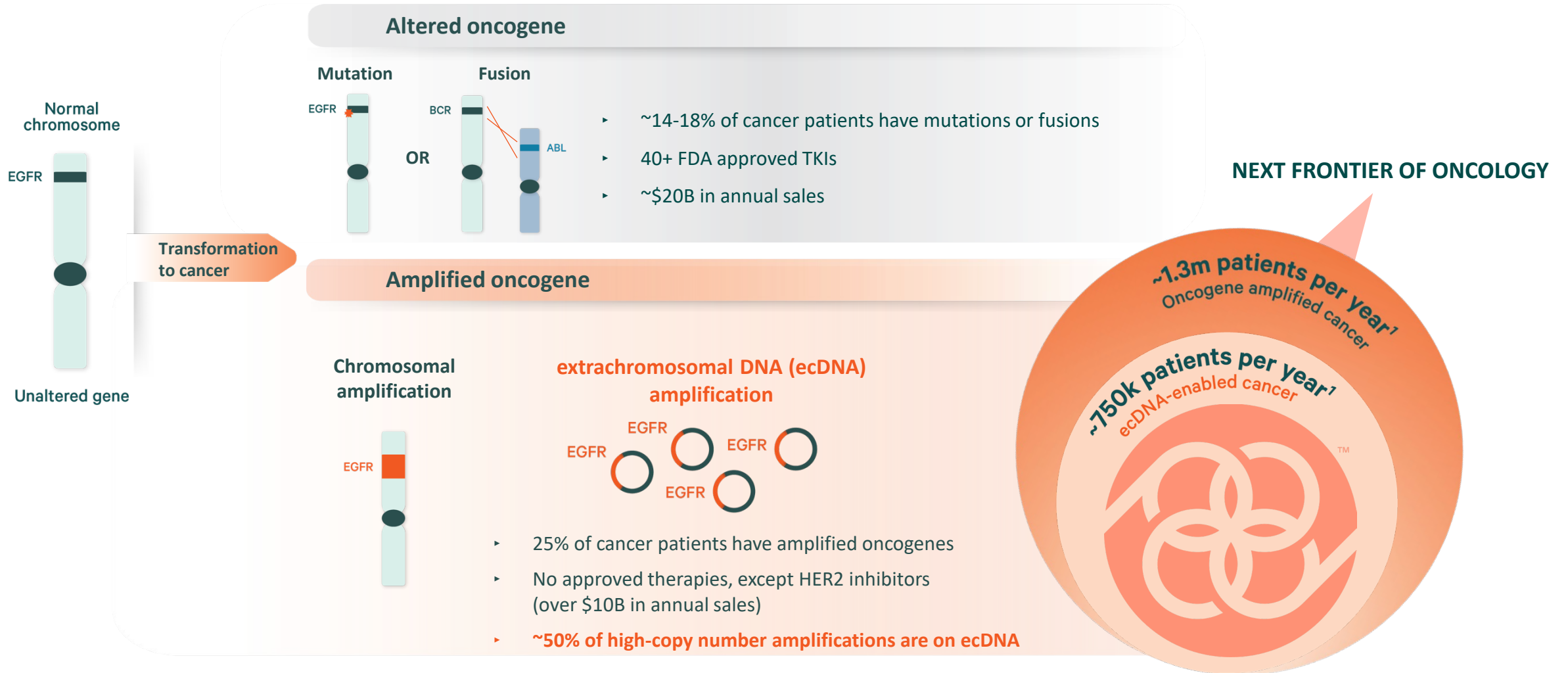
ecDNA-directed therapies (ecDTx):

- BBI-355: oral CHK1 inhibitor, Phase 1/2 **initial clinical POC data expected in 2H 2025**
- BBI-825: oral RNR inhibitor, Phase 1/2 trial **not to advance at this time**
- ecDTx 3: targets novel kinesin, **advancing toward development candidate by mid-2025**
- **ECHO diagnostic** identifies ecDNA+ cancers to enable **patient selection**




Experienced team:


- Track record of precision oncology **drug and diagnostic approvals, multi-\$B M&A**
- Leading ecDNA scientific founders, board, advisors
- Cash runway into 2027; funding BBI-355 through initial POC data and key milestones for ecDTx 3

ecDNA are cancer-specific, circular units of DNA that are a frequent driver of oncogene amplified cancer



Next-generation precision oncology pipeline targets ecDNA to address high unmet need cancer patients

	TARGET	ecDTx	DISCOVERY	IND-ENABLING STUDIES	PHASE 1/2	PHASE 3	GLOBAL RIGHTS
ecDNA REPLICATION STRESS	CHK1	BBI-355 BBI-098		Oncogene amplified cancers CNS malignancies			
ecDNA ASSEMBLY & REPAIR	RNR	BBI-825		MAPK pathway activated cancers	Phase 1/2 trial will not advance at this time		
ecDNA SEGREGATION	kinesin	ecDTx 3					

ecDNA DIAGNOSTIC 

- Clinical Trial Assay (CTA) in use in BBI-355 Phase 1/2 trial

SPYGLASS PLATFORM 

- Identifies druggable targets spanning ecDNA synthetic lethal nodes in oncogene amplified cancer
- Several preclinically validated ecDNA targets constitute early ecDTx drug discovery programs

ecDTx: Therapeutic Candidates : Diagnostic Candidate

Accomplished leadership team has proven experience delivering value for patients and shareholders



Zachary Hornby

Christian Hassig, PhD

Klaus Wagner, MD/PhD

Neil Abdollahian

Jessica Oien, JD

Chief Executive Officer,
President, Director

Chief Scientific Officer

Chief Medical Officer

Chief Business Officer

Chief Legal Officer



Extended management
team experience





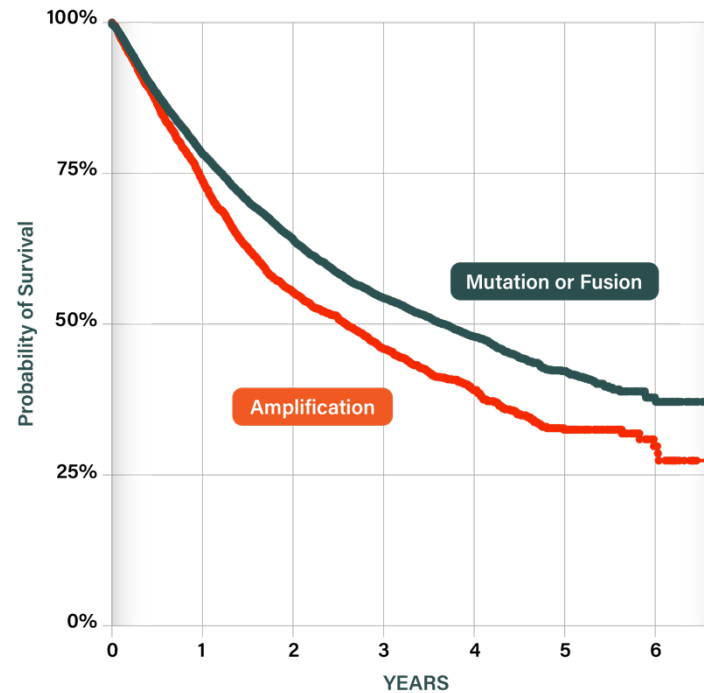
Significant unmet need in oncogene amplified cancers

Cancers with oncogene amplifications: more aggressive, difficult to treat, and worse prognosis

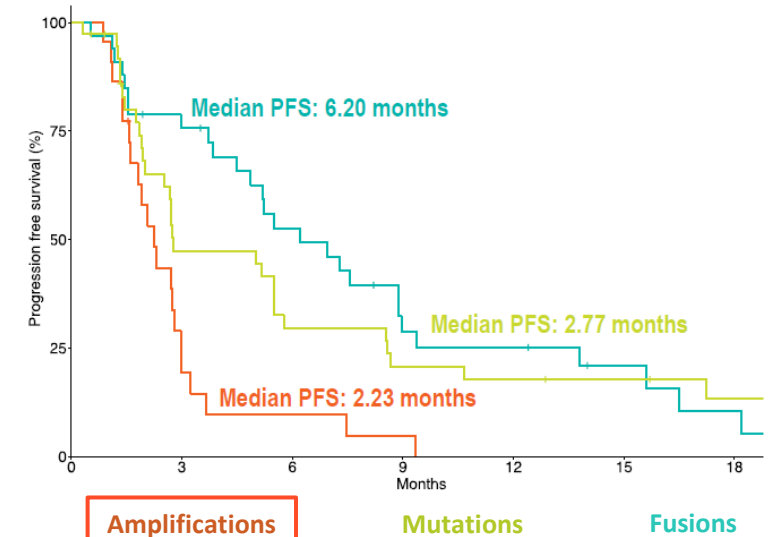
Oncogene amplified cancers

- **Oncogene amplification** is a type of oncogenic alteration where **extra copies (>2)** of an oncogene (e.g., *EGFR*) drive tumor growth or resistance
- Patients with oncogene amplifications have **worse survival** than other cancer patients
- Unlike other alterations, oncogene amplified tumors are generally **unresponsive to targeted therapies and immunotherapies**

Survival of cancer patients, segmented by oncodriver status¹

















PFS of cancer patients with *FGFR* alterations treated with *FGFR* inhibitors



Patients with primary or metastatic cancers with **amplifications, point mutations, skipping deletions or fusions** of these genes: *AR, ALK, ARAF, BRAF, CCND1, CDK4, CDK6, EGFR, ERBB2, FGFR1, FGFR2, FGFR3, FGFR4, HRAS, IDH1, IDH2, KIT, KRAS, MAP2K1, MAP2K2, MAP2K4, MDM2, MET, MYC, NF1, NRAS, NTRK1, NTRK2, NTRK3, PDGFB, PDGFRA, PDGFRB, PIK3CA, RAF1, RET, ROS1*

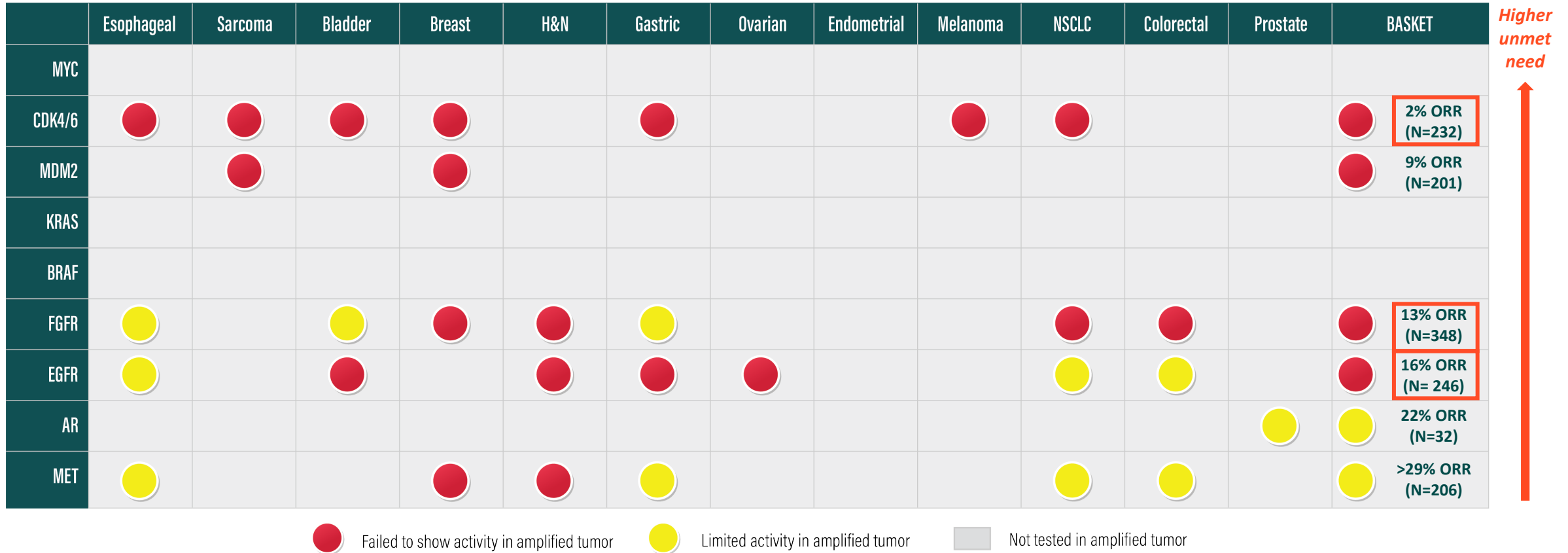
Despite advancements in precision medicine, cancers with gene amplifications generally do not respond to targeted therapies

TARGETED THERAPY	TARGET	APPROVED	NO APPROVAL
  	CDK4/6	HR+/HER2- breast cancer	Amplification
     	EGFR	L858R NSCLC T790M NSCLC Exon 19 deletion NSCLC Exon 20 insertion NSCLC	Amplification
  	FGFR	FGFR3 mutation bladder cancer FGFR2/3 fusion cholangiocarcinoma	Amplification
 	MET	Exon 14 skipping NSCLC	Amplification

A new approach is needed to treat cancers driven by oncogene amplifications

Across most oncogenes, patients with gene amplified tumors derive little benefit from targeted therapies

Higher ecDNA prevalence ←



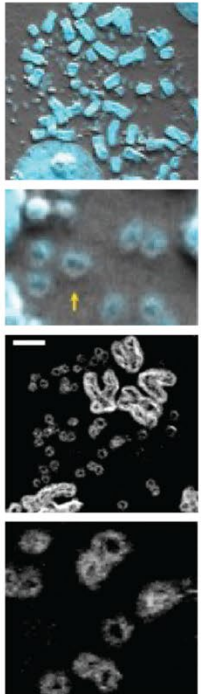
Targeted therapies have not been approved for, nor demonstrated robust clinical activity in, most oncogene amplified cancers*



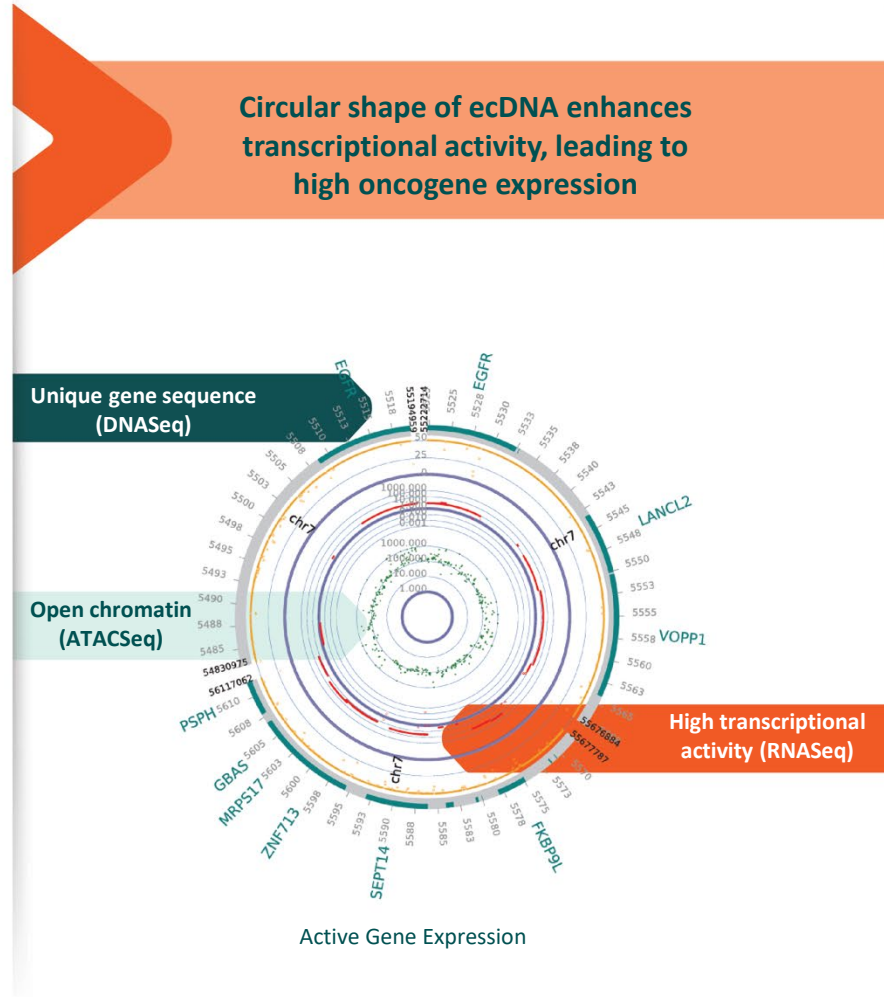
ecDNA: a key driver of oncogene amplifications

ecDNA are a primary driver of oncogene amplified cancers and enable resistance to targeted therapies

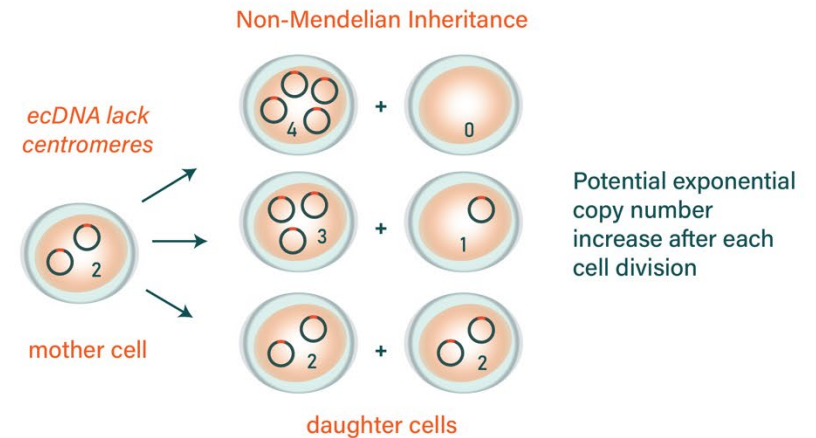
ecDNA are circles of DNA, distinct from chromosomes, that amplify full-length genes and regulatory elements



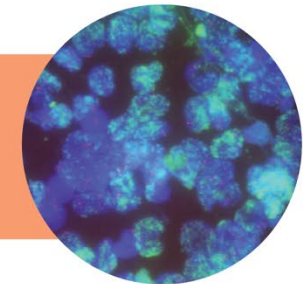
Large size: 2 – 5 Mbp



ecDNA asymmetrically segregate during mitosis, enabling exponential copy number increase or decrease during cellular division



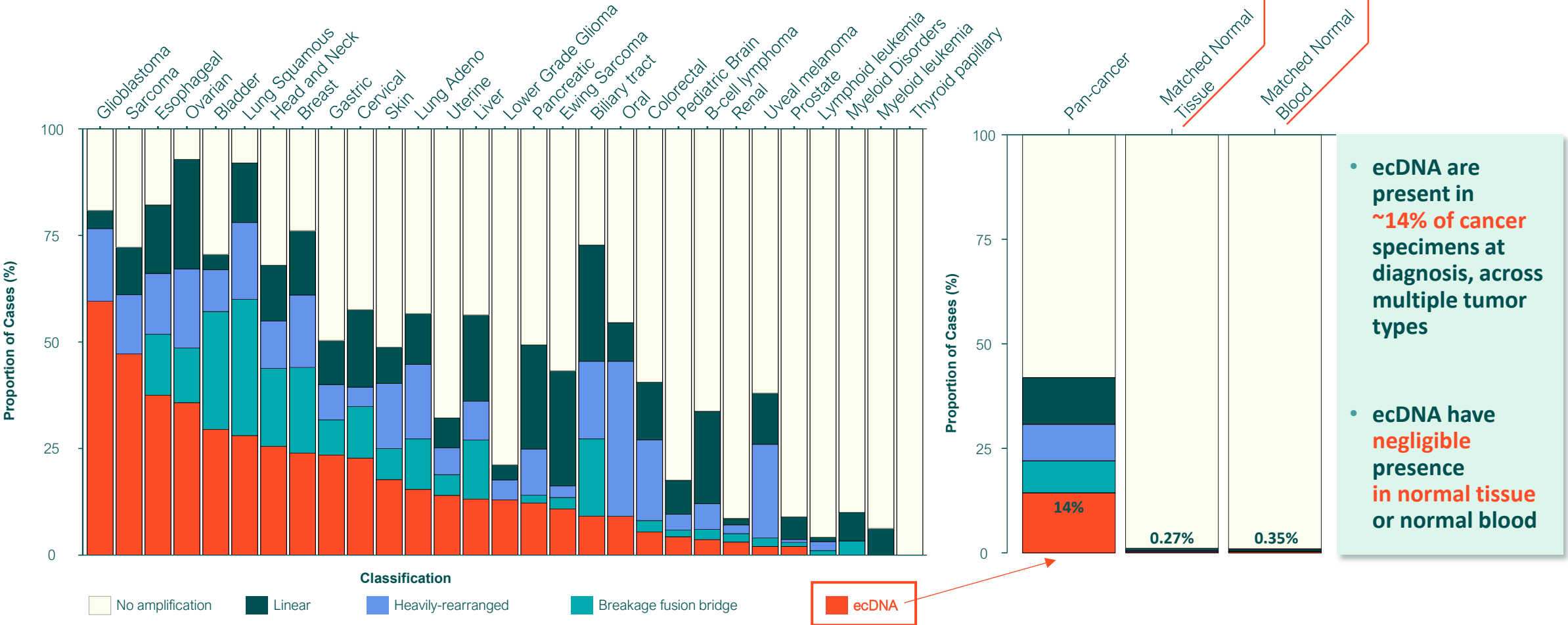
Protein products of genes amplified on ecDNA can provide a fitness advantage – driving cancer growth and resistance



MYCN amplifications on ecDNA in pediatric neuroblastoma

ecDNA are detected broadly across different cancer types, but not in normal tissue or blood

ecDNA prevalence across tumor types and normal tissue; early-stage patients



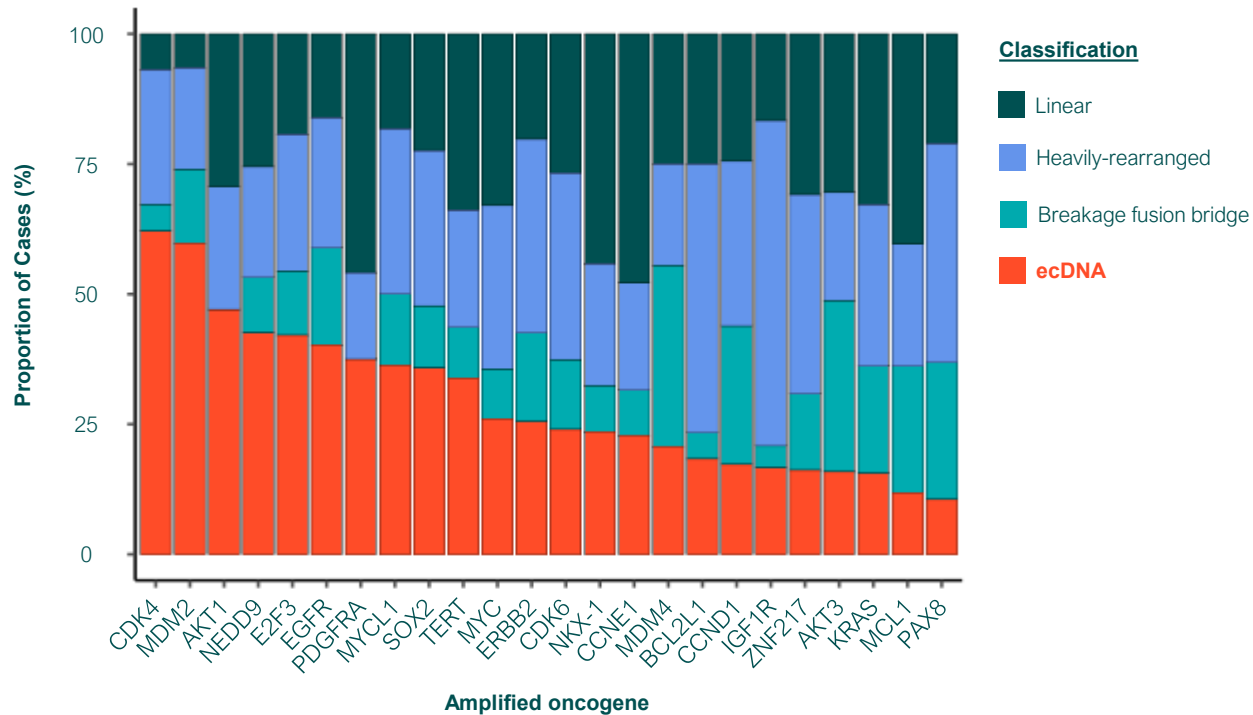
Analysis of WGS data from >3,000 tumor and matched normal samples from donors to TCGA and PCAWG

Cancer's most common high copy number oncogene amplifications frequently occur on ecDNA; when they do, it is associated with worse survival

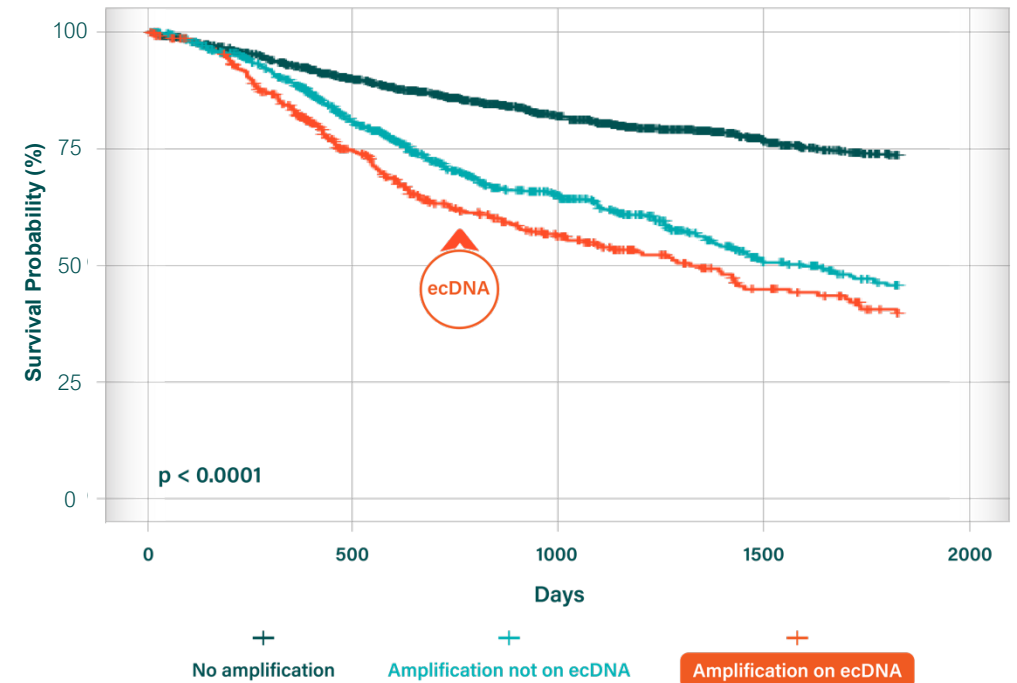
~54% of high-copy number oncogene amplifications are detected on ecDNA

Patients with oncogene amplification on ecDNA have worse survival

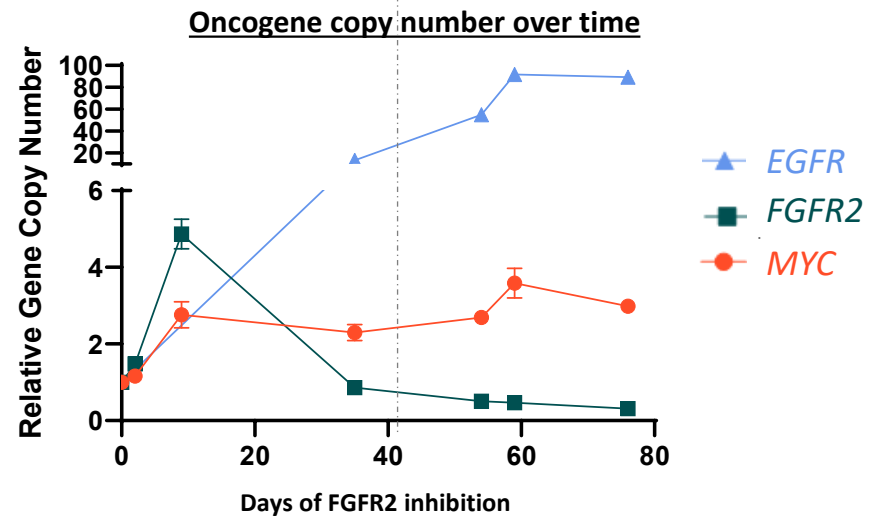
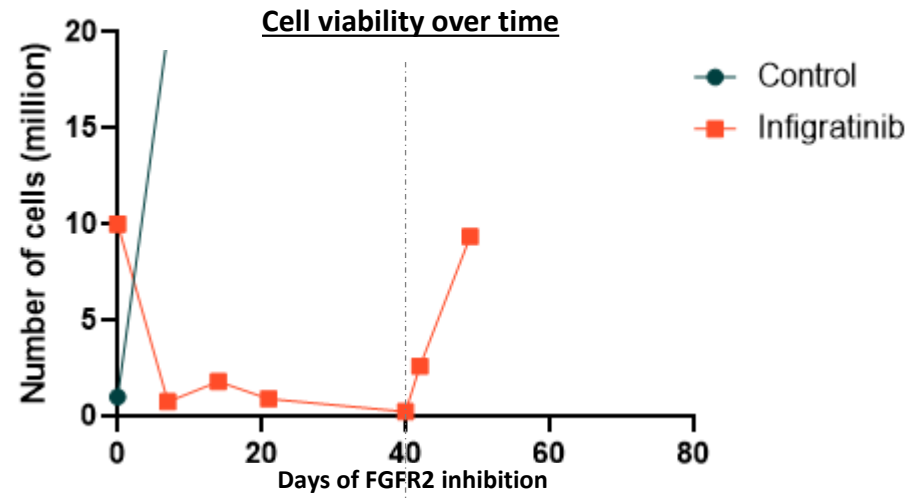
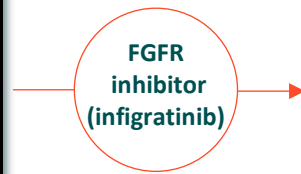
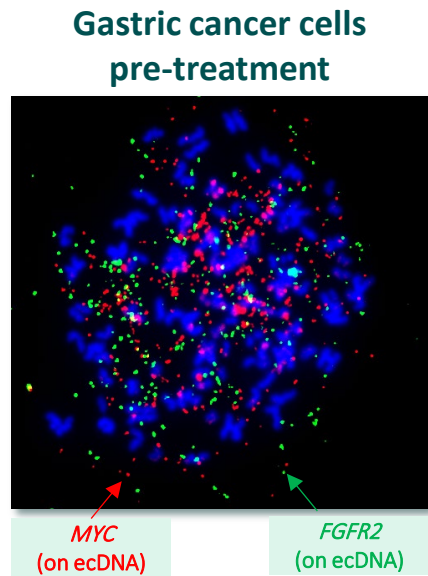
Most frequently amplified oncogenes, segmented by amplification type



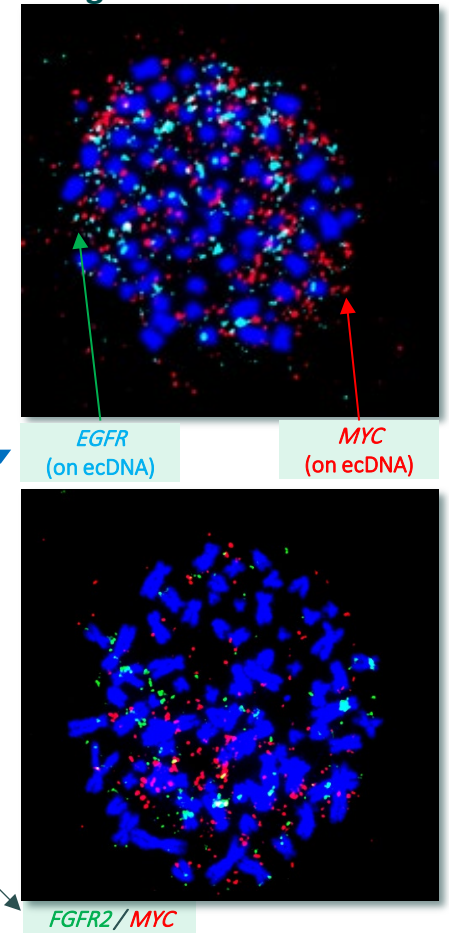
Survival of cancer patients, segmented by gene amplification status



ecDNA enable cancer cells to resist therapies by rapidly adapting oncogene dependency



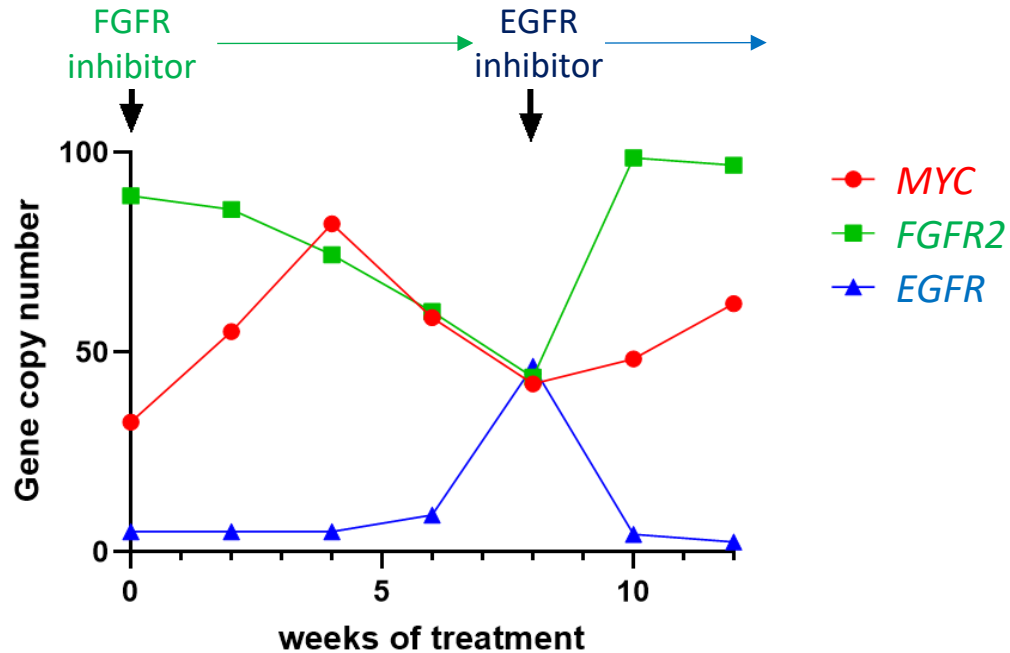
FGFR inhibitor resistant gastric cancer cells



In this model, ecDNA enable gastric cancer cells to rapidly switch oncogene dependency from *FGFR2* to *EGFR* under therapeutic pressure

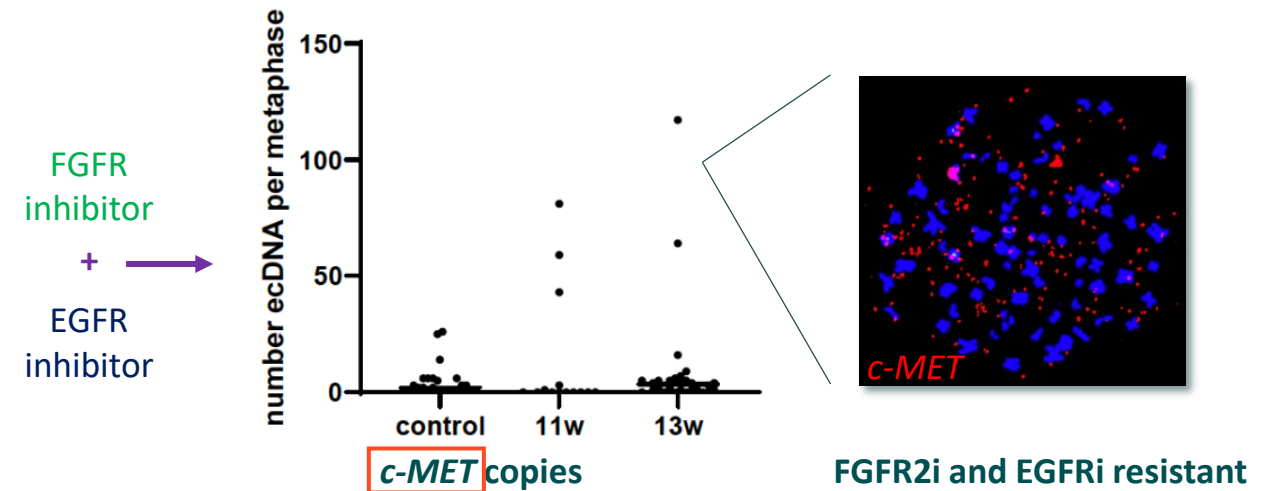
Tumors employ ecDNA to rapidly enable new oncogenic drivers, even under combination target inhibition

Oncogene copy on ecDNA changes dynamically in response to *sequential targeted therapeutic pressure*



Inhibition of EGFR results in return of *FGFR2* => ecDNA amplification supports oncogenesis

New oncogene populations can arise on ecDNA in response to *combination targeted therapeutic pressure*



Simultaneous dual inhibition of FGFR2 and EGFR leads to ecDNA driven amplification of new oncogene (*c-MET*)

Only targeting oncogenes amplified on ecDNA is a futile therapeutic approach due to ecDNA-enabled process of continuous and rapid oncogene dependency switching

Driving a new treatment paradigm by targeting ecDNA pathways that enable tumor evolution and resistance

Traditional Targeted Therapy:

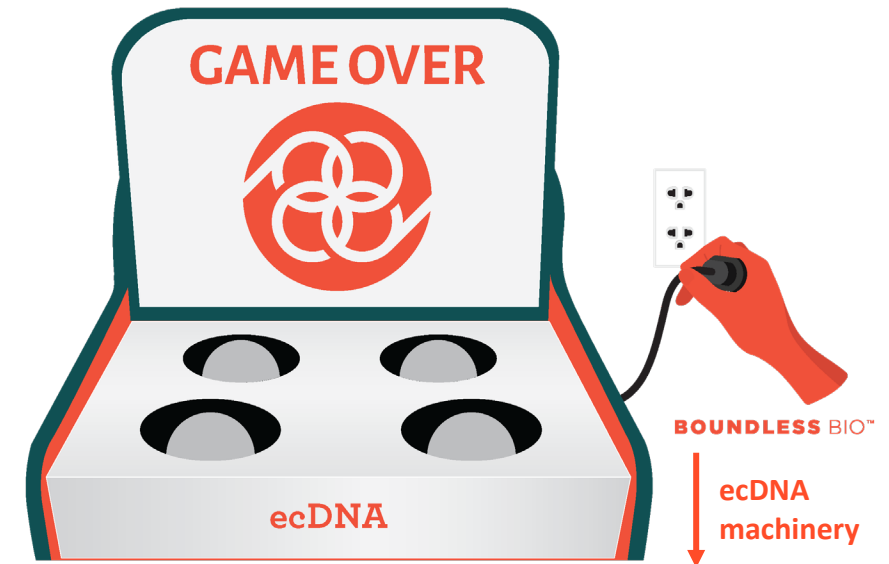
Develop targeted inhibitors against activated oncodriver targets, but cells typically develop **resistance**



Applying traditional targeted therapy approach to ecDNA enabled cancers is clinical 'Whac-a-Mole'

Next Generation Precision Oncology:

Exploit underlying vulnerabilities in **ecDNA-driven cells** to drug targets essential for ecDNA functionality in cancer

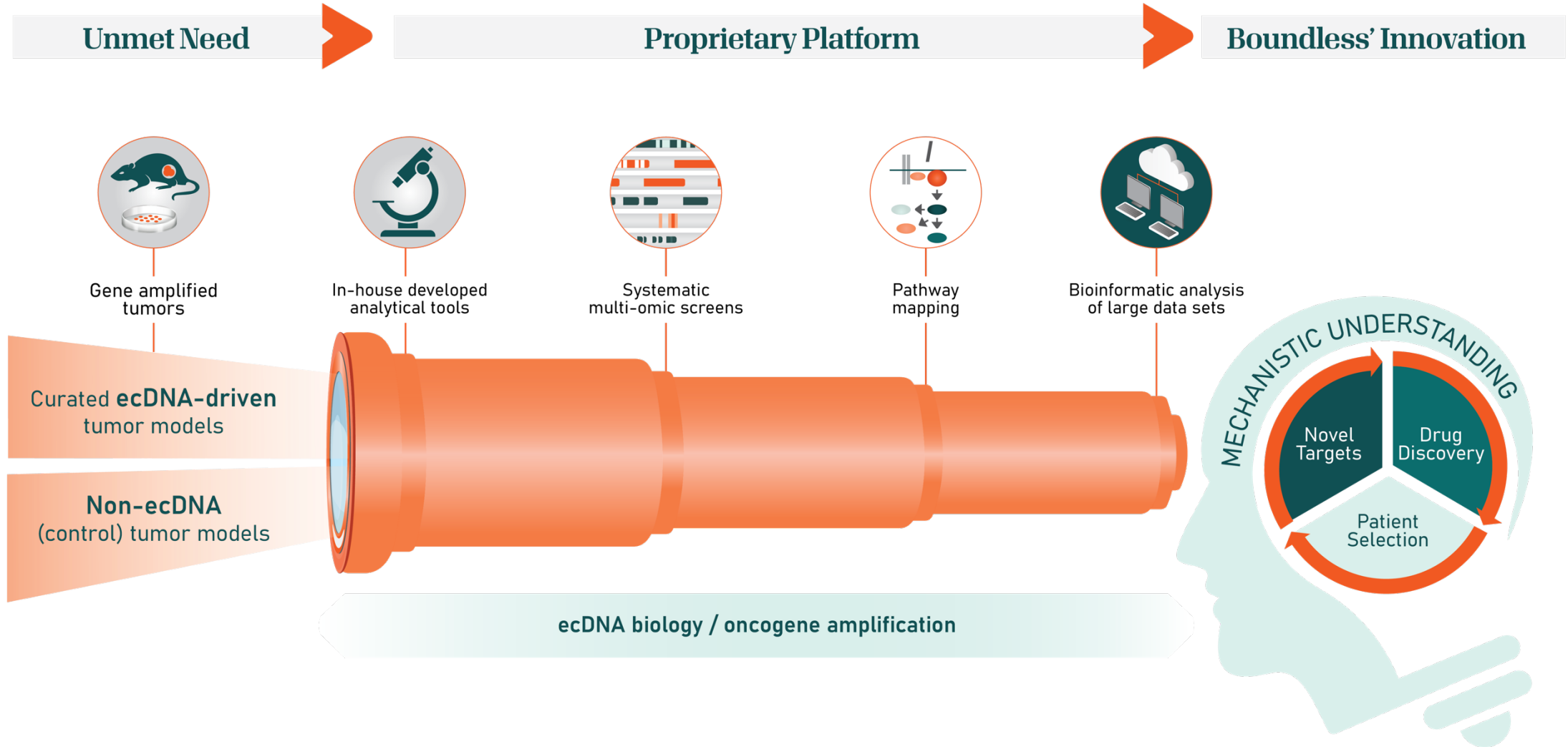


Disable ecDNA functionality =>
No more oncogene amplifications

- Replication & transcription
- Assembly & repair
- Segregation

Spyglass: unique platform for interrogating ecDNA-driven tumors

Proprietary target and drug candidate discovery engine



Spyglass reveals cancer targets, both novel and validated, that intersect distinct nodes of ecDNA lifecycle

CHK1

BBI-355: PHASE 1/2 ENROLLING

Novel, oral, selective inhibitor of CHK1

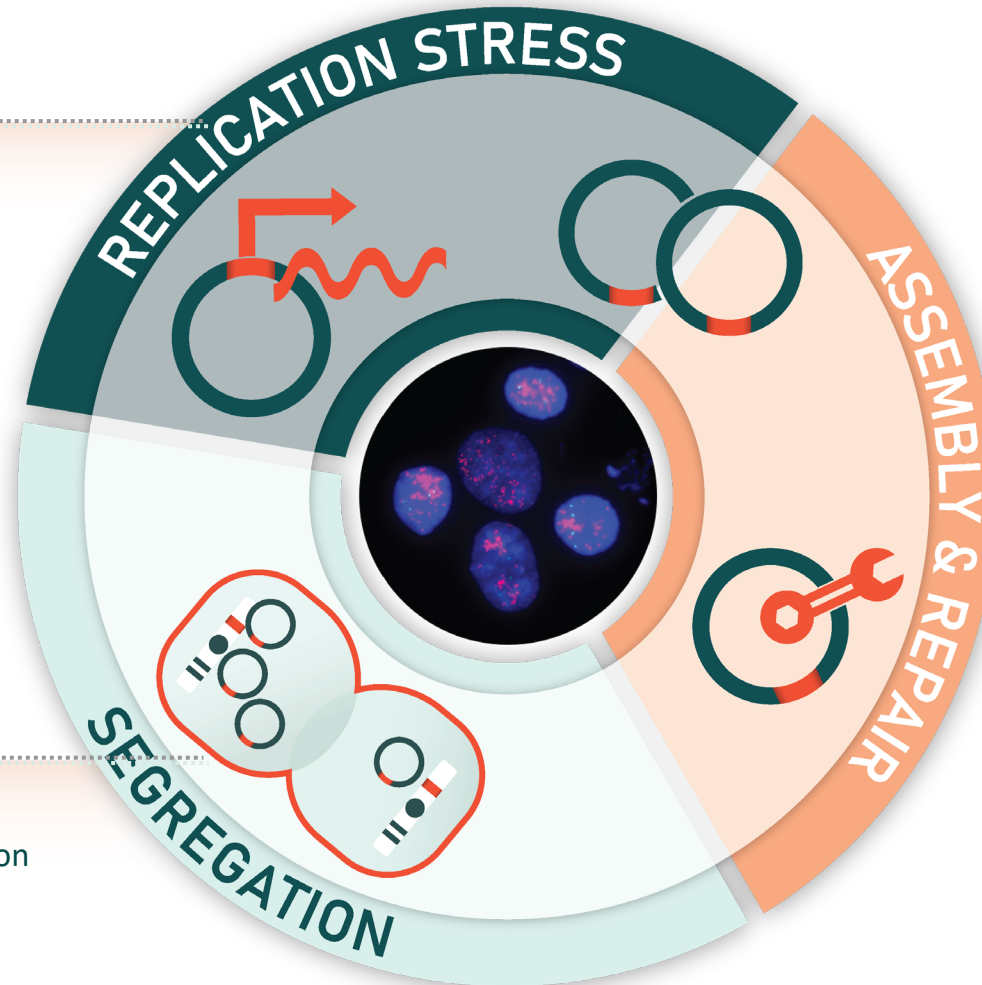
BBI-098: 2nd generation CNS-penetrant CHK1i

CHK1 is master regulator of ecDNA-induced replication stress

Novel kinesin

ecDTx 3: LEAD OPTIMIZATION

Kinesin required for proper segregation of ecDNA during cell division



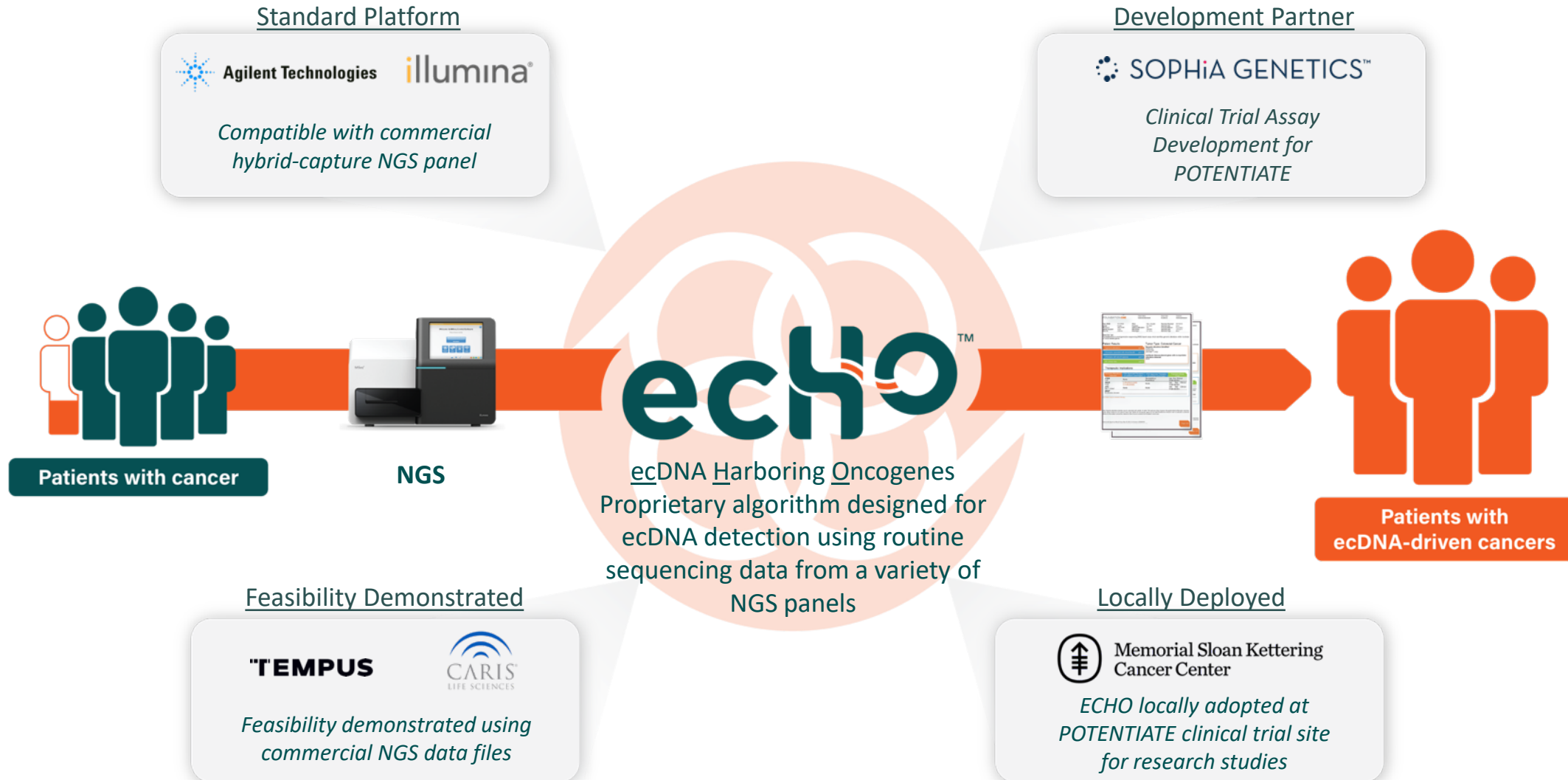
RNR

BBI-825: PHASE 1/2

Novel, oral, selective inhibitor of RNR

RNR is a rate-limiting enzyme for assembly and repair of ecDNA

ECHO: novel investigational diagnostic test designed to detect ecDNA using routine clinical NGS data
Non-significant risk (“NSR”) determination granted by FDA for use in Phase 1/2 POTENTIATE trial of BBI-355

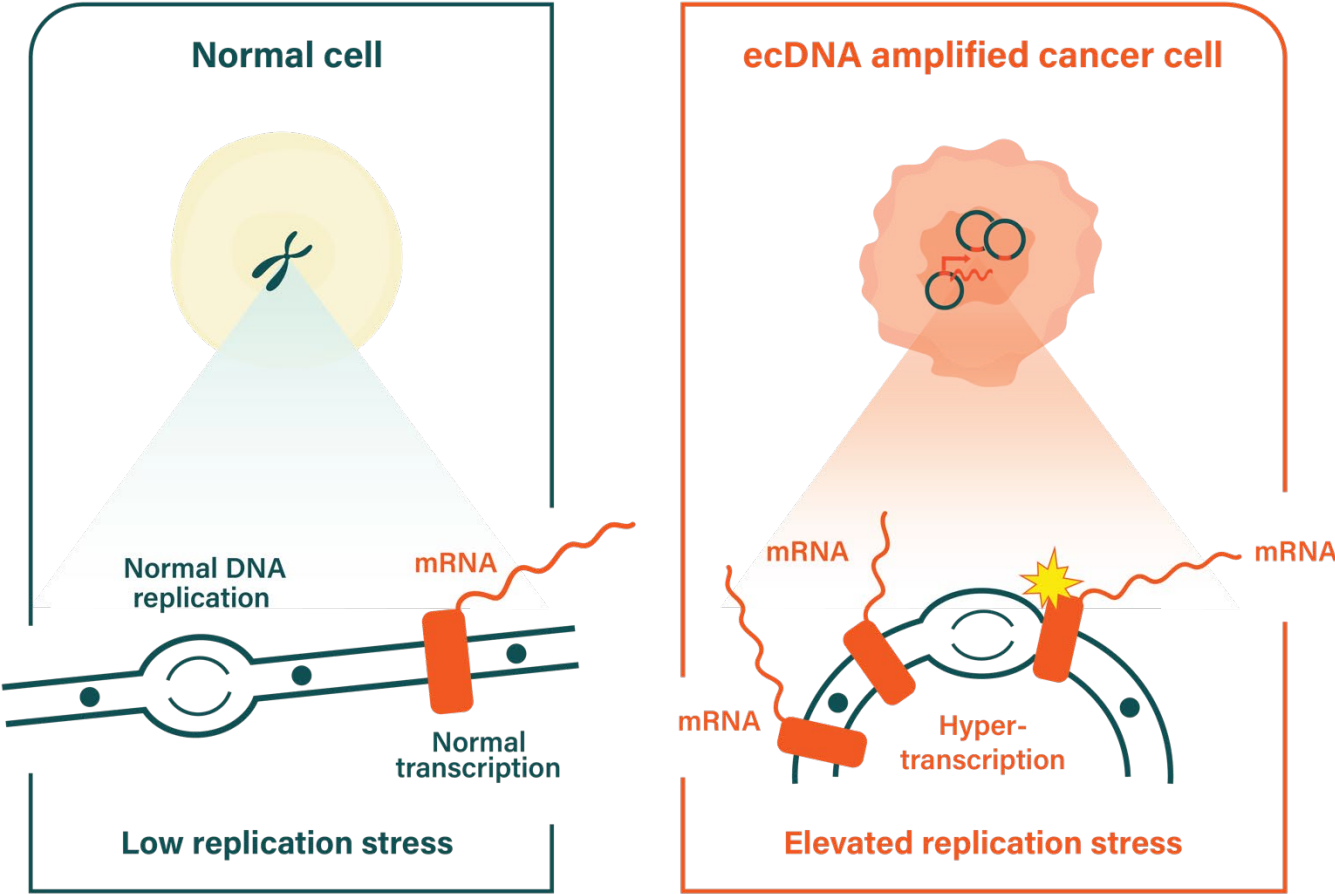




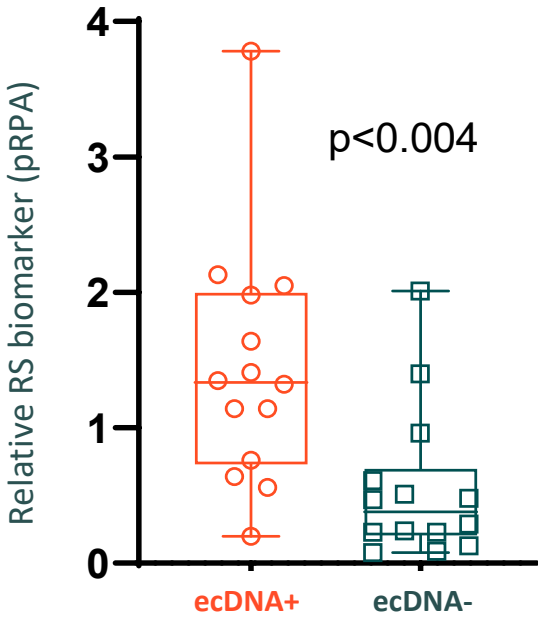
BBI-355: potentially best-in-class, oral, selective CHK1 inhibitor in Phase 1/2 POTENTIATE trial

First ecDTx; targets ecDNA-induced replication stress

ecDNA+ oncogene amplified cancer cells have significantly elevated replication stress (RS)



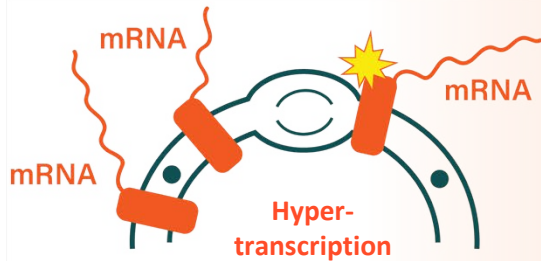
ecDNA amplified tumor cells display hallmarks of elevated RS



Inhibition of checkpoint kinase 1 (CHK1) is synthetic lethal in ecDNA+ cancer cells

CHK1 is a master regulator of the RS response

High copy number amplification and rampant transcription on ecDNA results in elevated RS



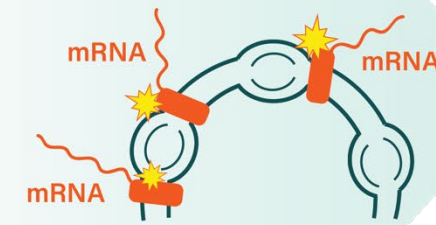
Consequently, ecDNA amplified cells have significantly increased reliance on CHK1 for survival



Role of activated CHK1 in RS

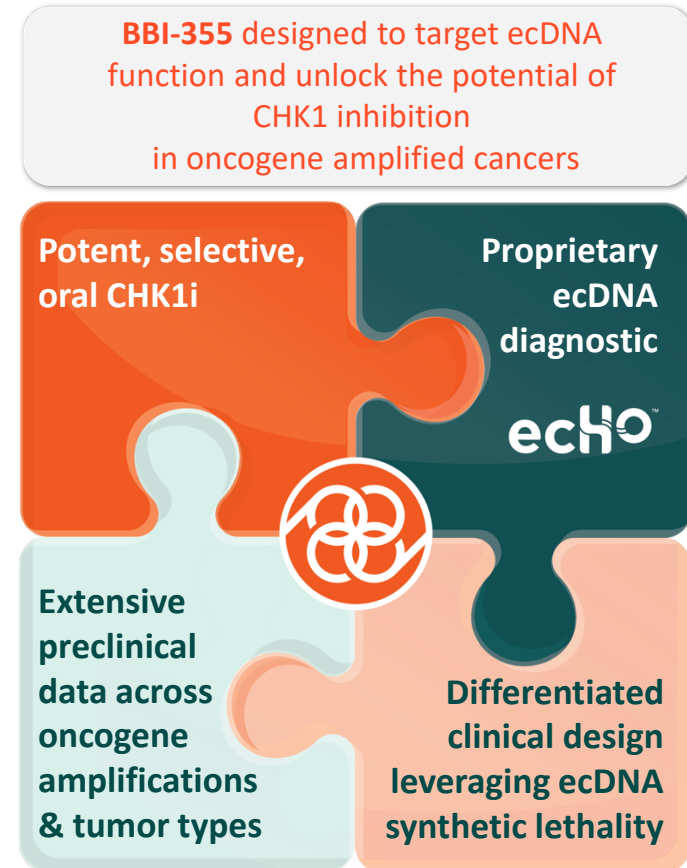
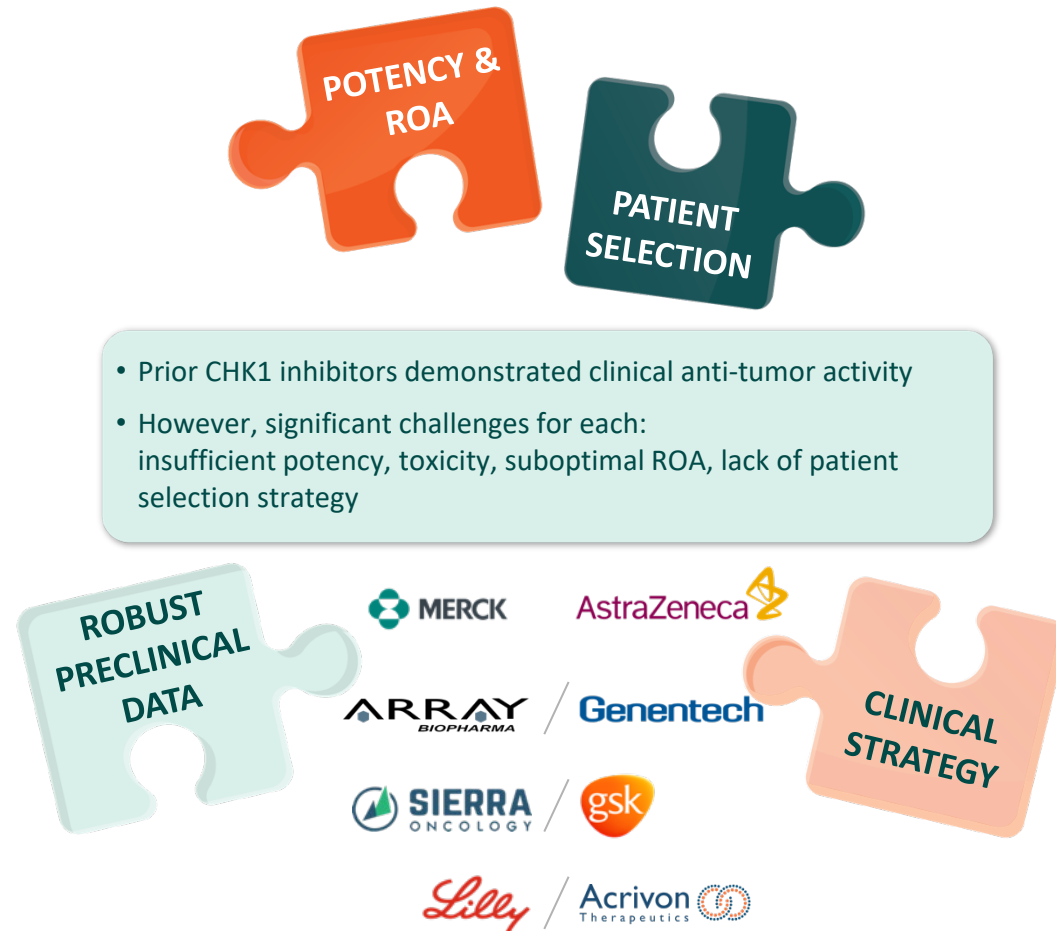
- Manage origin firing
- Stabilize stalled forks
- Pause cell cycle
- Maintain cell viability

Inhibition of CHK1 **further exacerbates RS**, resulting in **synthetic lethality** in ecDNA+ cancer cells



Cancer cell death

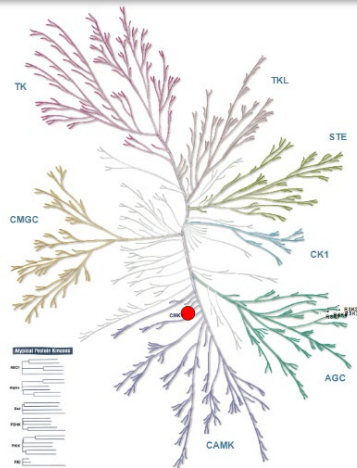
BBI-355: novel, oral, selective CHK1 inhibitor designed to disrupt ecDNA and overcome limitations of prior and existing CHK1 inhibitors



BBI-355 demonstrated single agent activity across a wide variety of oncogene amplified tumor models

BBI-355 preclinical properties

- Potency: **0.6 nM**
- CHK1 selectivity: **185x CHK2**
- Oral availability: **33% (rat)**
- CYP inhibition (uM):
1A2/2C9/2C19/2D6/3A4 **>30/>30/>30/22/>30**

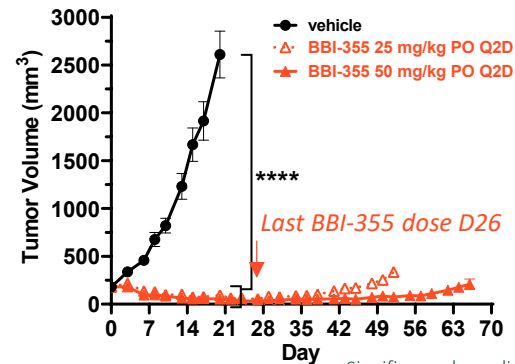


Kinases inhibited at IC₅₀<100 nM (6) with relative potencies

CHK1 only kinase with substantial inhibition <50 nM

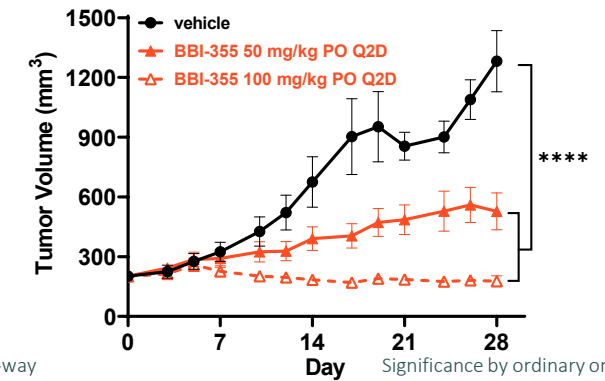
- Orally administered BBI-355 demonstrated **single agent activity** across multiple CDX and PDX models
- Dose-dependent anti-tumor activity, including durable tumor regressions, observed at levels well-tolerated *in vivo*

MYCN^{amp} neuroblastoma CDX



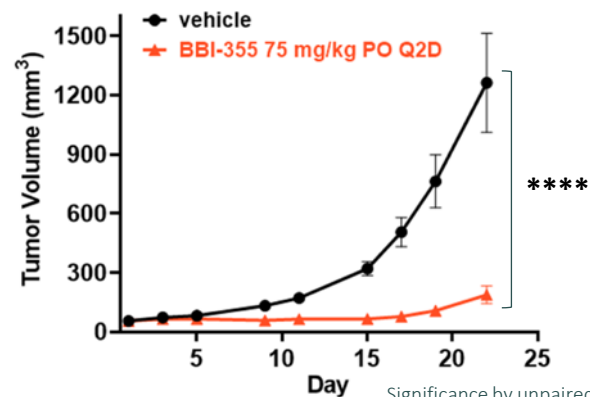
Significance by ordinary one-way ANOVA with Tukey's multiple comparisons; ****p<0.0001

FGFR2^{amp} gastric cancer PDX



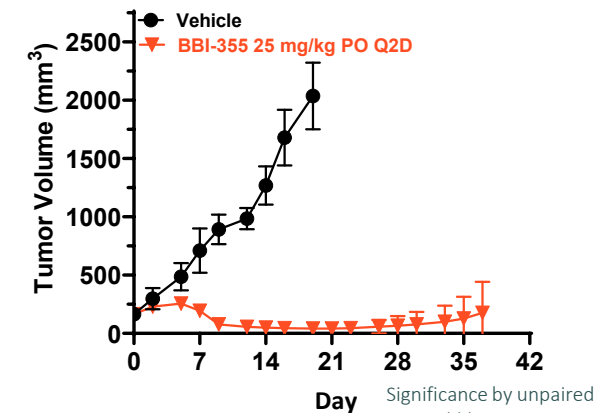
Significance by ordinary one-way ANOVA with Tukey's multiple comparisons; ****p<0.0001

CDK4^{amp} osteosarcoma CDX



Significance by unpaired t-test; ****p = 0.0006

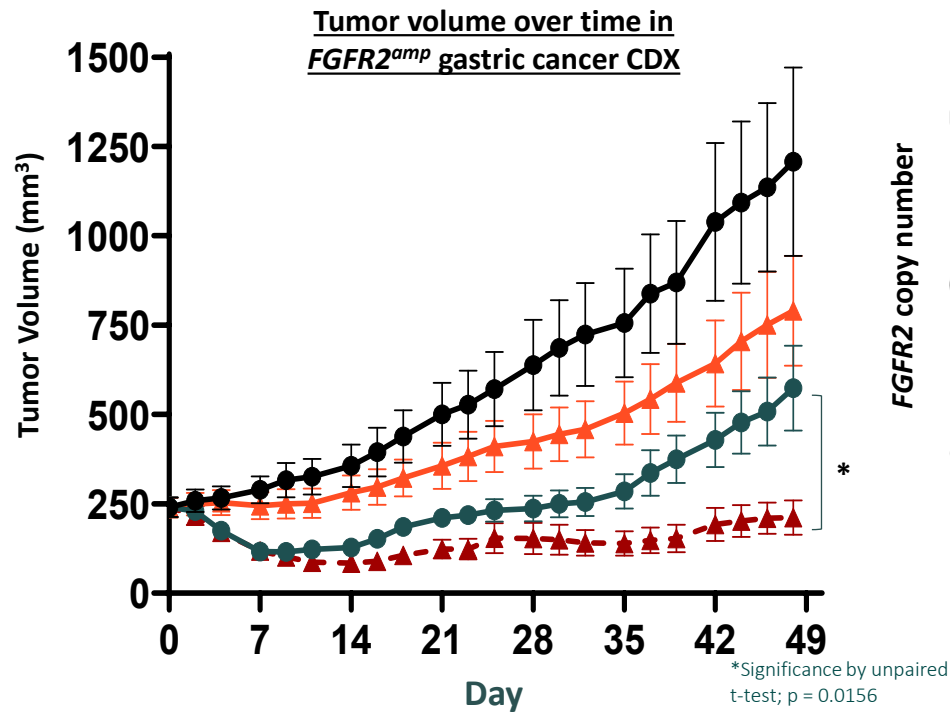
MYC^{amp} SCLC PDX



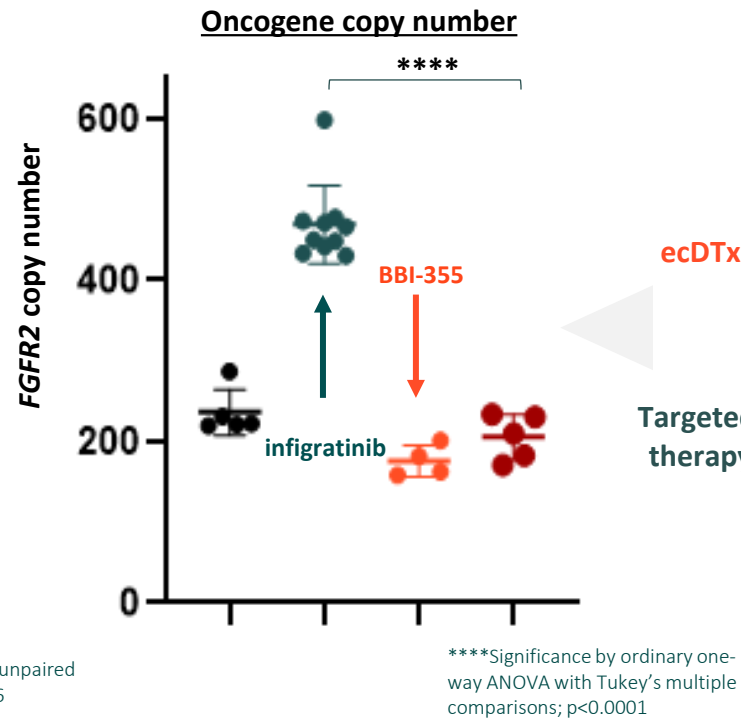
Significance by unpaired t-test; ****p<0.001

BBI-355 dosed for duration unless indicated

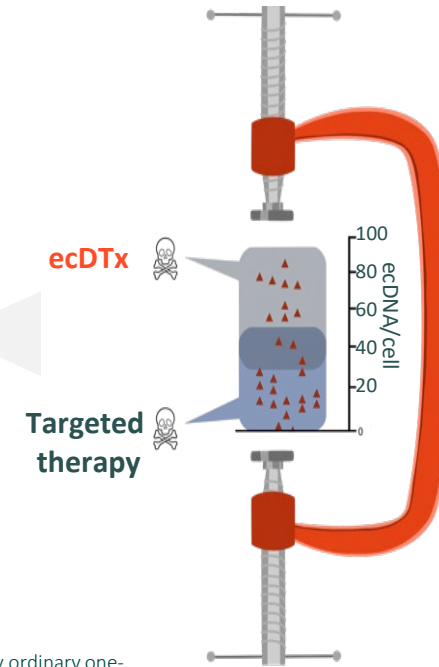
BBI-355 demonstrated synergistic combination activity in preclinical models of cancer indications in which single agent targeted therapies have not proven effective in the clinic



- Vehicle
- Infigratinib: 15 mg/kg QD
- ▲ BBI-355: 50 mg/kg Q2D
- ▲ Combo: BBI-355 + infigratinib



- Vehicle
- Infigratinib: 15 mg/kg QD
- BBI-355: 120 mg/kg Q2D
- Combo: BBI-355 + infigratinib

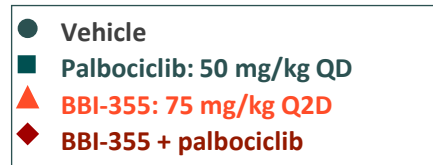
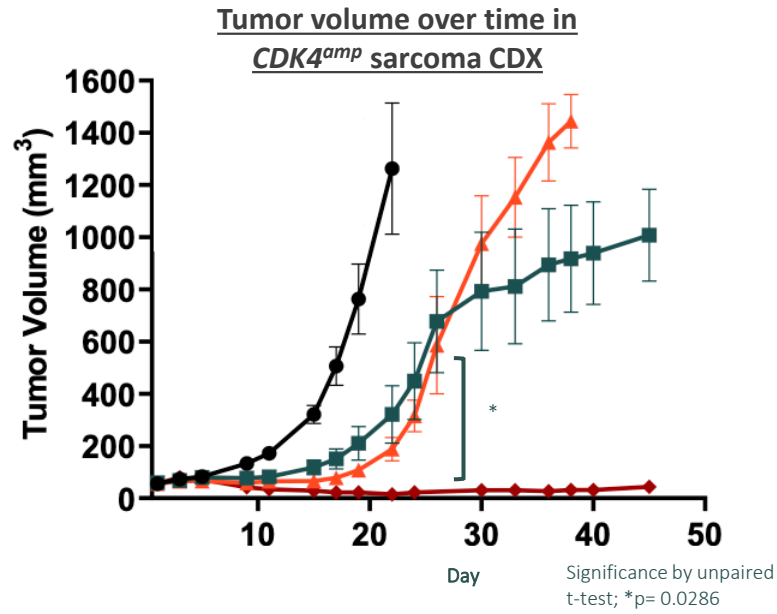


Therapy Enhanced Synthetic Lethality

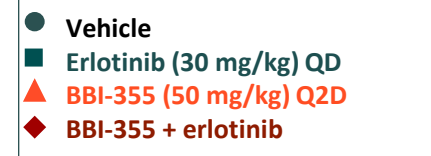
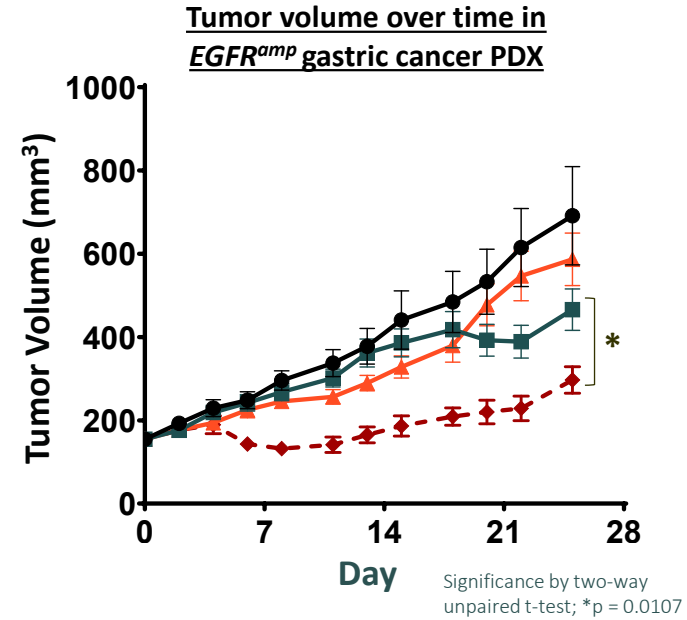
- Targeted therapy kills low copy number cells, driving population toward ecDNA-reliant high copy number cells
- ecDTx kills ecDNA-reliant high copy number cells
- Together, all oncogene amplified cells are killed

- FGFR2 inhibition with infigratinib resulted in minimal, transient anti-tumor activity, consistent with clinical experience
- When combined with BBI-355, extended **synergistic tumor regression** observed

BBI-355 demonstrated *in vivo* proof of concept in multiple additional oncogene addicted xenograft models
 Oncogene amplified sarcoma and gastric cancer; synergistic activity in combination with targeted therapy



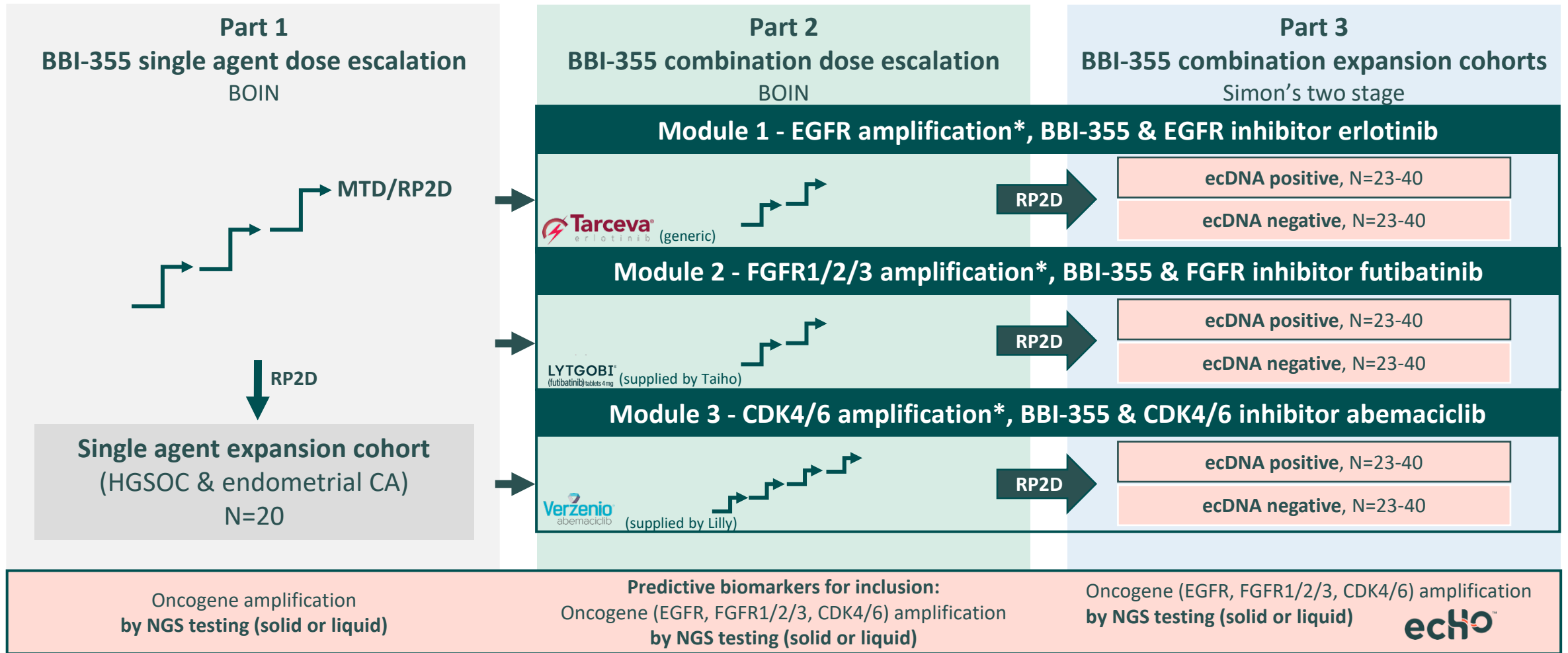
All drugs administered orally



Combination of BBI-355 with targeted therapy *in vivo* resulted in:

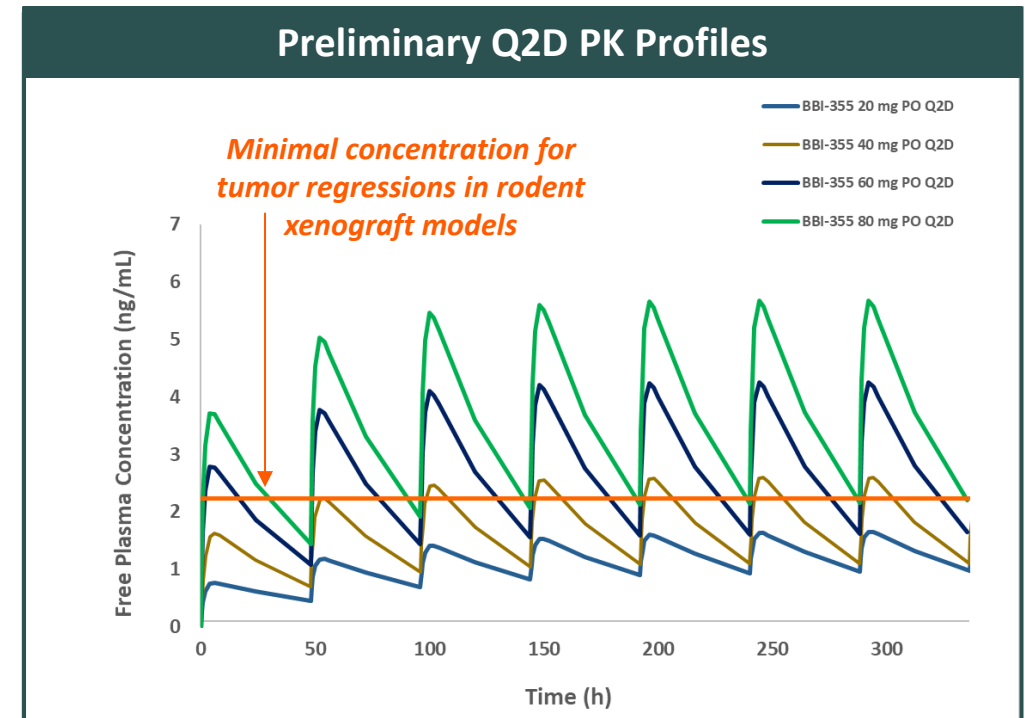
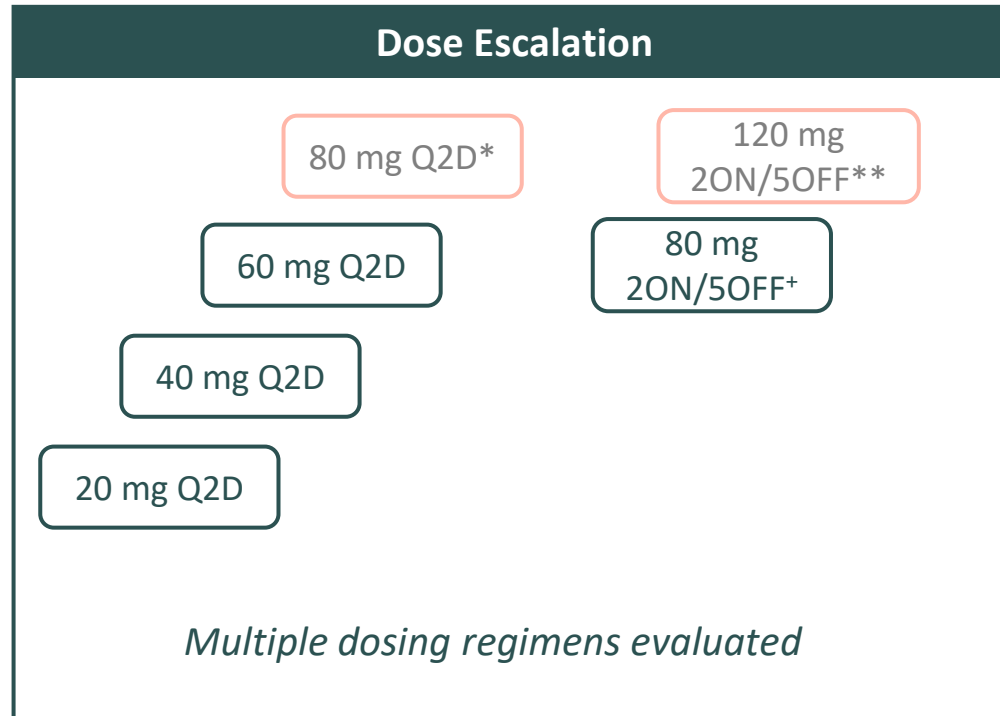
- Deeper tumor regressions
- Longer duration of response

Phase 1/2 study of BBI-355 designed to drive to clinical proof of concept in multiple solid tumor settings



“POTENTIATE” Study: Precision Oncology Trial Evaluating Novel Therapeutic Interrupting Amplifications Tied to ecDNA

Preliminary human pharmacokinetic (PK) data of BBI-355 showed dose-proportionality and achieved exposures in the predicted therapeutically active range at 60 mg PO Q2D, which is a tolerated dose level

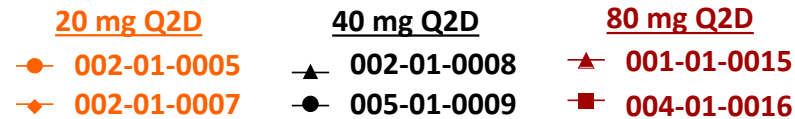
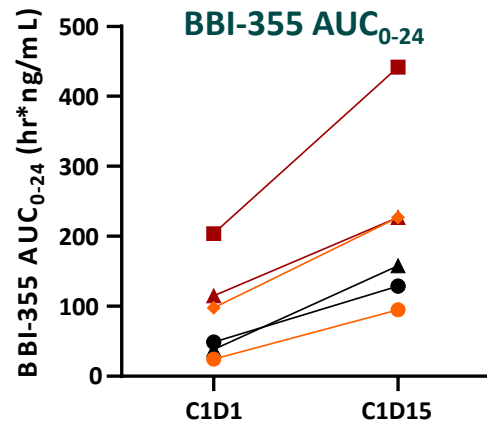


- BBI-355 demonstrated good oral bioavailability in human subjects
- Average C_{max} and AUC showed dose proportionality from 20 to 80 mg Q2D
- Average $T_{1/2}$: ~40h, leading to drug accumulation of ~2 to 3-fold
- Moderate inter-subject variability observed

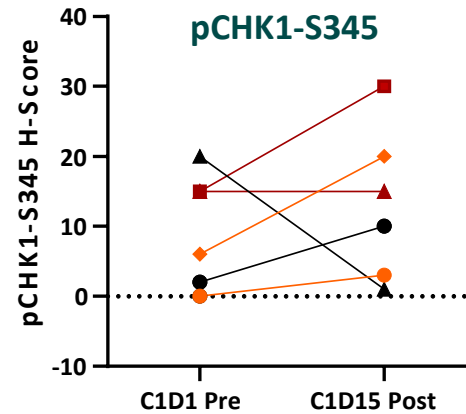
Evidence of BBI-355 pharmacodynamic activity observed in clinical samples across dose levels

pCHK1-S345 induction in skin and tumor biopsies

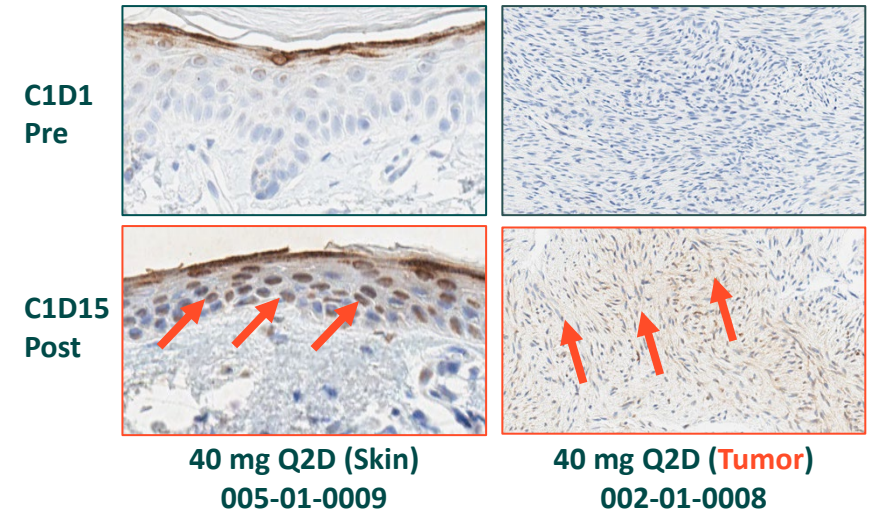
PK from day 1 and day 15



PD biomarker data from paired skin biopsies Day 1 pre-dose and day 15 post-dose



Representative examples (skin and tumor biopsy)

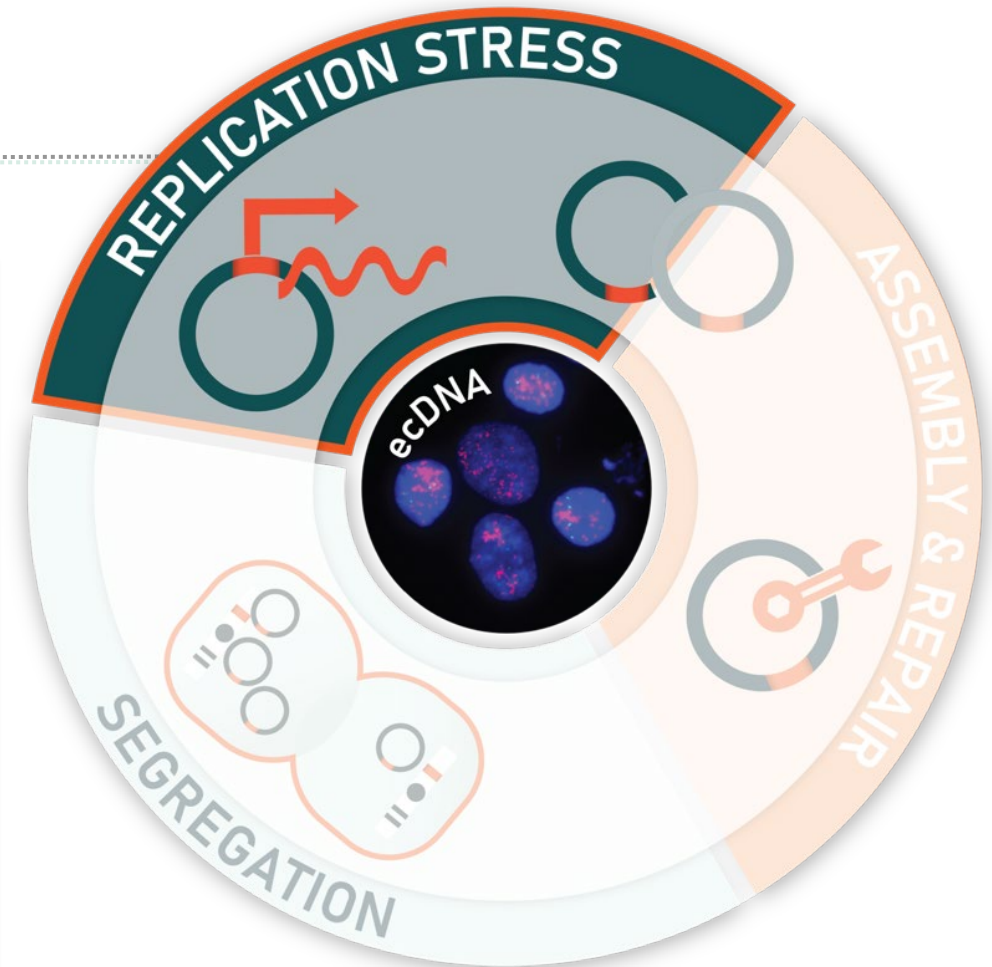


BBI-355 summary: the first ecDTx in clinical development for oncogene amplified cancer

CHK1: checkpoint kinase 1

BBI-355: PHASE 1/2

- BBI-355 is a potentially **best-in-class, oral, selective** CHK1 inhibitor in development to address the **unmet medical needs** of patients with oncogene amplified cancer
- **Currently no cancer therapy** has been approved for patients with *EGFR*, *FGFR*, or *CDK4/6* amplifications, a large segment of cancer patients
- The **POTENTIATE** trial's modular design ([NCT05827614](https://clinicaltrials.gov/ct2/show/study/NCT05827614)) enables multiple avenues for expansion opportunities across diverse oncogene amplifications and tumor types
- Initial human PK data shows dose-proportionality with exposures in the predicted therapeutically active range
- Preliminary clinical data of BBI-355 as a single agent and in combination with EGFR or FGFR inhibitors in 2H 2025



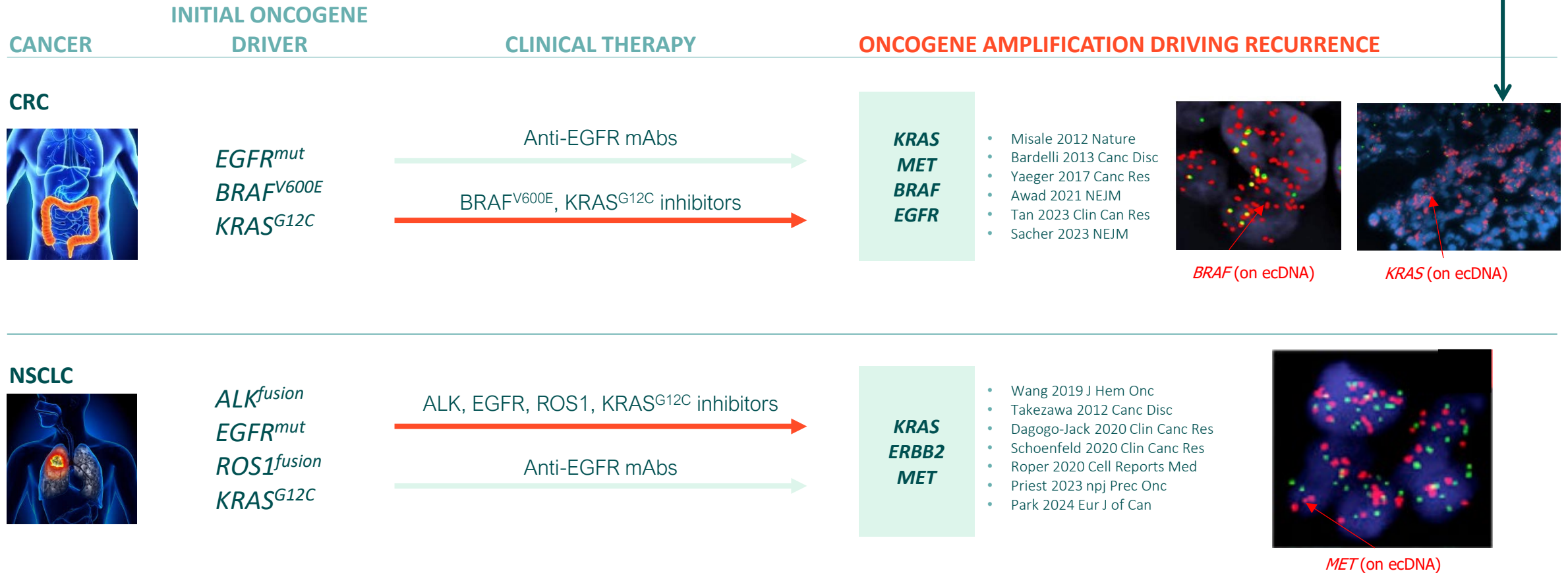


BBI-825: first-in-class, oral, selective RNR inhibitor in Phase 1/2 STARMAP trial

Second ecDTx; targets ecDNA assembly & repair

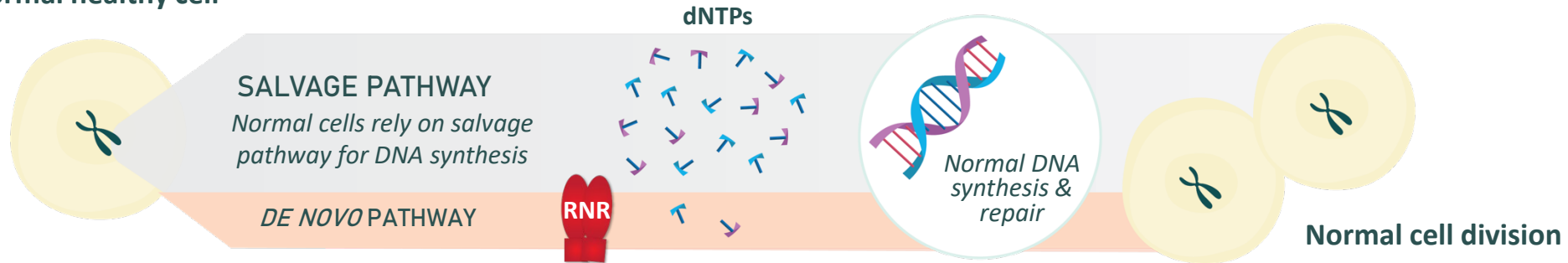
Oncogene amplifications, often on ecDNA, are a frequent mechanism of clinical resistance to multiple therapeutic modalities

Tissue images from clinical specimens suggest resistance amplifications are frequently **ecDNA-mediated**



Ribonucleotide reductase (RNR) is the rate-limiting enzyme in the *de novo* synthesis of dNTPs, which are essential for the assembly and repair of ecDNA

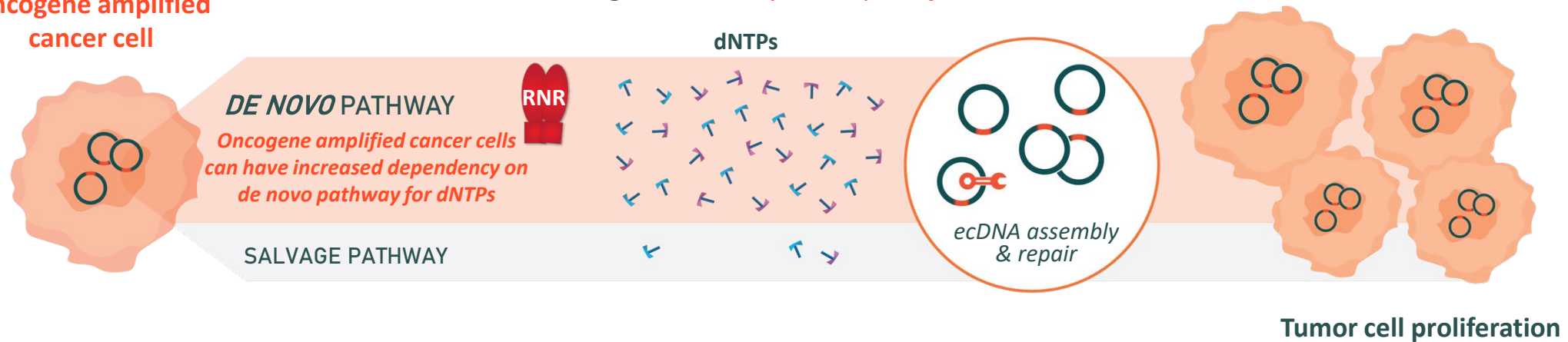
Normal healthy cell



Ribonucleotide reductase

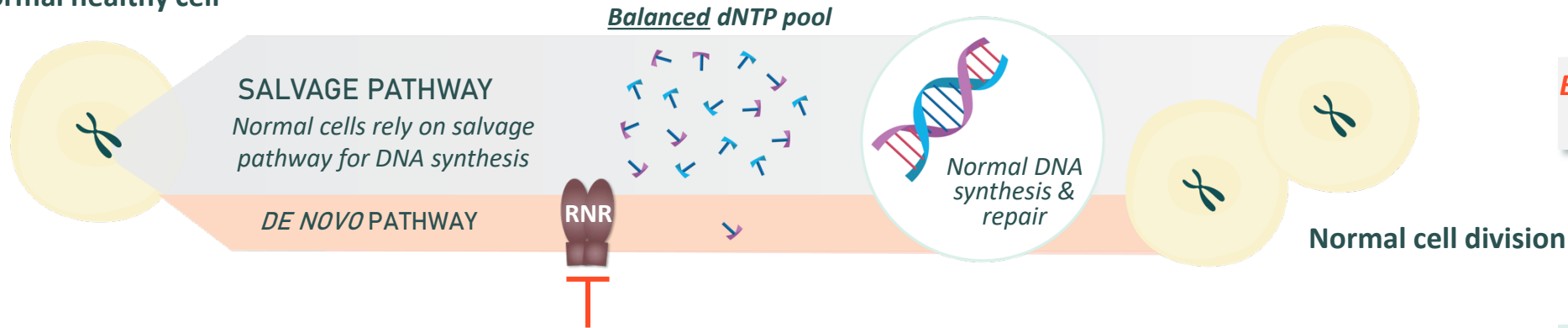
Responsible for *de novo* synthesis of dNTPs, the building blocks of DNA, including the *assembly and repair of ecDNA*

Oncogene amplified cancer cell



BBI-825 is a novel, oral, selective RNR inhibitor designed to disrupt the assembly and repair of ecDNA

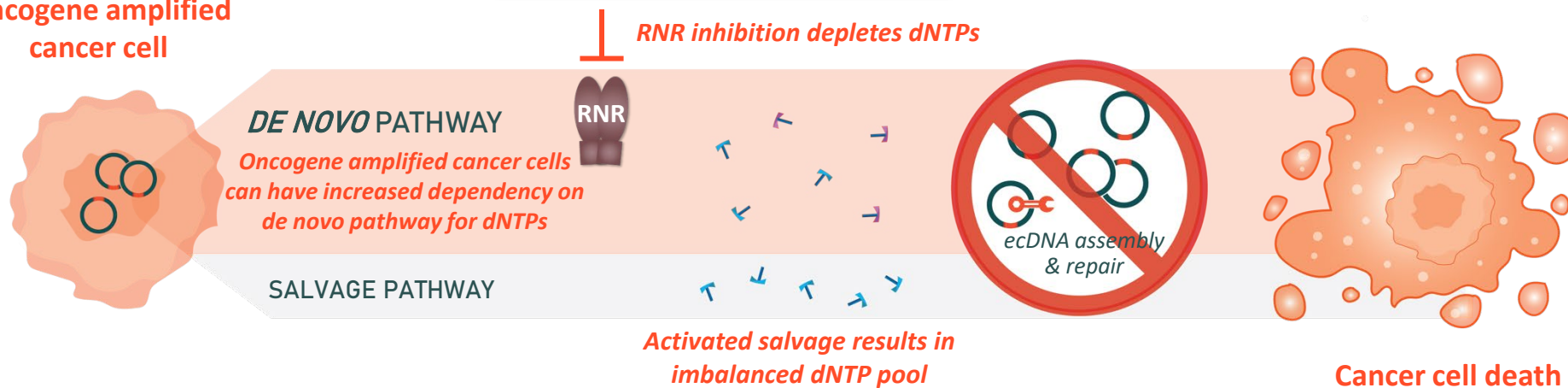
Normal healthy cell



BBI-825 has shown minimal impact on normal cells

BBI-825: Selective RNRi

Oncogene amplified cancer cell



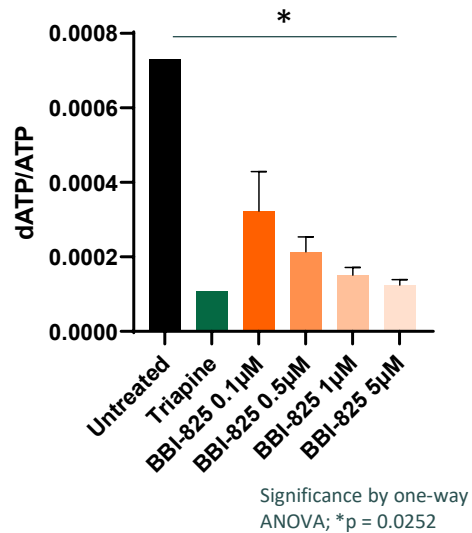
BBI-825 is synthetic lethal in certain amplification-enabled cancer cells (e.g., MAPK activated)

- Selective RNR inhibitor
- Orally available
- Favorable ADME properties

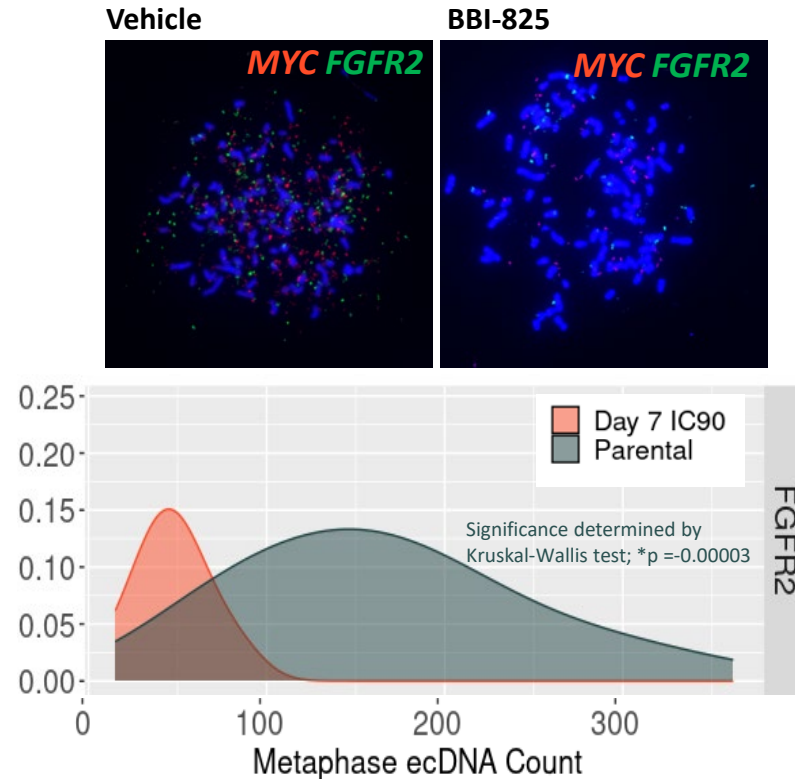
No other selective RNR inhibitors approved or in clinical development

BBI-825 resulted in dNTP depletion, reduced ecDNA, and cytotoxicity in ecDNA amplified cancer cells

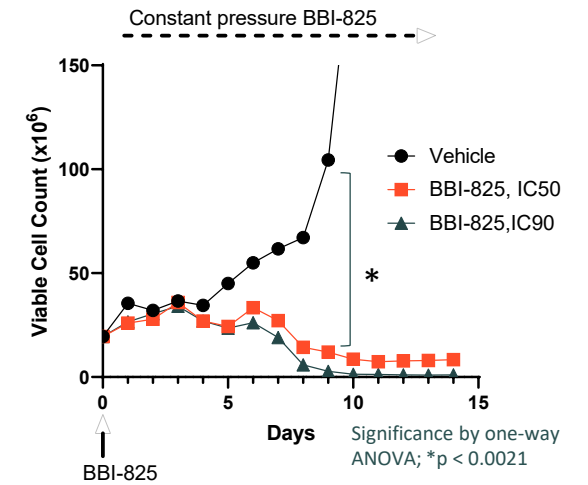
Reduction in dNTP Levels



Reduction in ecDNA Levels



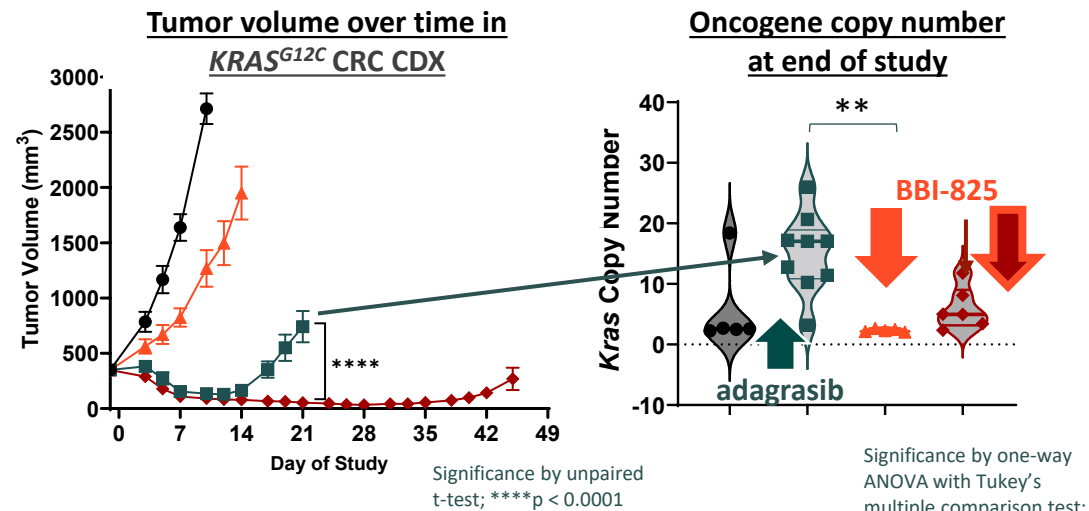
Cytotoxicity to ecDNA amplified cancer cells



In MYC and FGFR2 amplified ecDNA+ GI cancer cells, treatment with BBI-825 resulted in depletion of dNTPs and reduced ecDNA levels, leading to tumor cell death

BBI-825 demonstrated synthetic lethality in combination with KRAS^{G12C} inhibition in KRAS^{G12C}-addicted syngeneic colorectal cancer xenograft, both preventing and treating resistance post-emergence

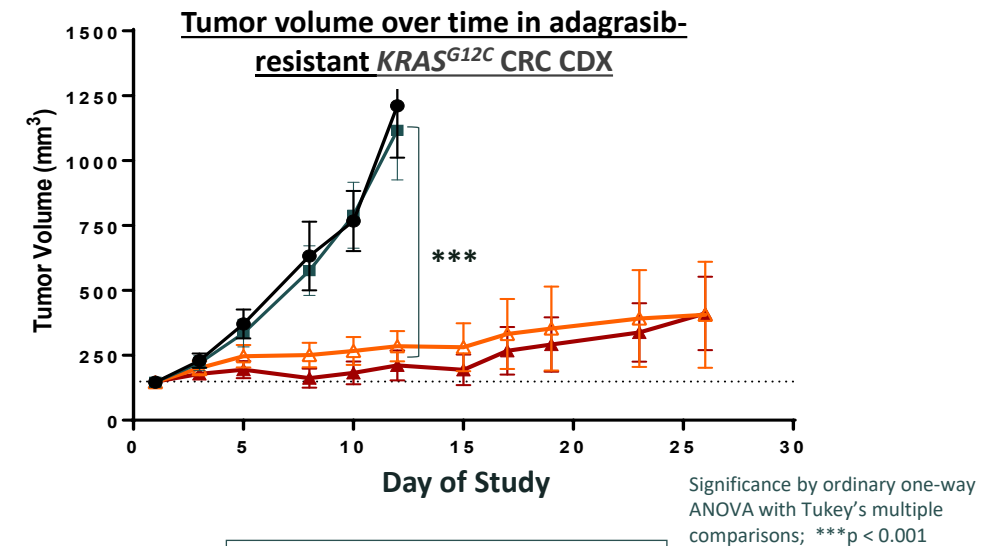
Combination of BBI-825 with adagrasib **prevented resistance** to KRAS^{G12C} inhibition, resulting in durable tumor regressions



- Vehicle
- Adagrasib: 50 mg/kg QD
- ▲ BBI-825: 50 mg/kg Q2D
- ▼ Combo: BBI-825 + adagrasib

KRAS^{G12C}-mutated CRC CDX model

Single-agent BBI-825 **treated resistance** post-KRAS^{G12C} inhibition, resulting in significant anti-tumor activity

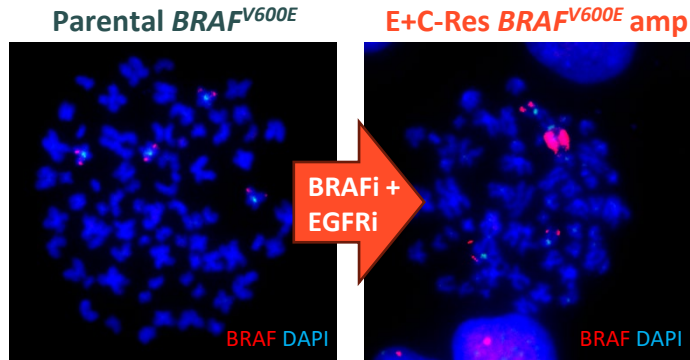


- Vehicle
- Adagrasib: 50 mg/kg QD
- ▲ BBI-825: 50 mg/kg Q2D
- ▼ Combo: BBI-825 + adagrasib

KRAS^{G12C}-mutated CRC CDX model that has become resistant to adagrasib via amplifications on ecDNA

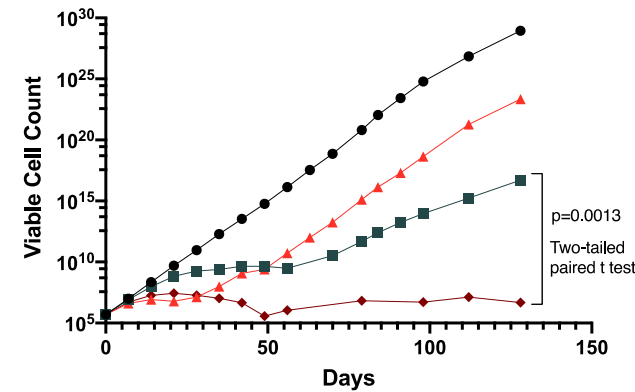
BBI-825 overcame amplification-based resistance to BRAFi + EGFRi treatment of $BRAF^{V600E}$ CRC cells *in vitro*

Amplification-mediated resistance in $BRAF^{V600E}$ CRC

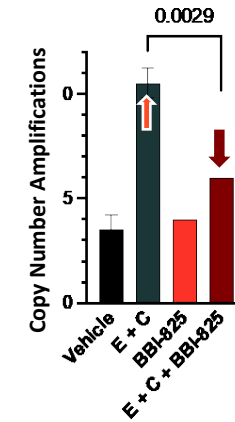


- $BRAF^{V600E}$ mutant CRC cell lines developed rapid resistance to encorafenib + cetuximab via oncogene amplification
- Combination with BBI-825 prevented resistance and led to cancer cell death
- Additional $BRAF^{V600E}$ melanoma and endometrial cancer models also demonstrated BBI-825 synergy with standard of care

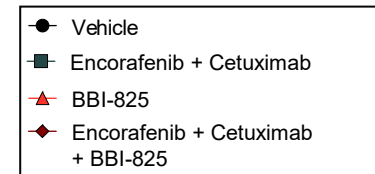
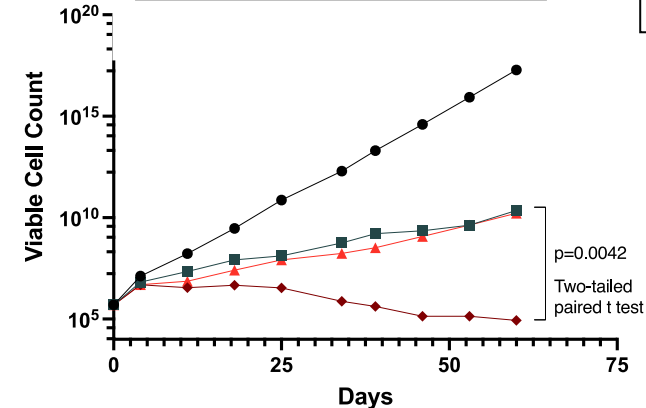
Cancer cell cytotoxicity over time in $BRAF^{V600E}$ CRC WiDr cells



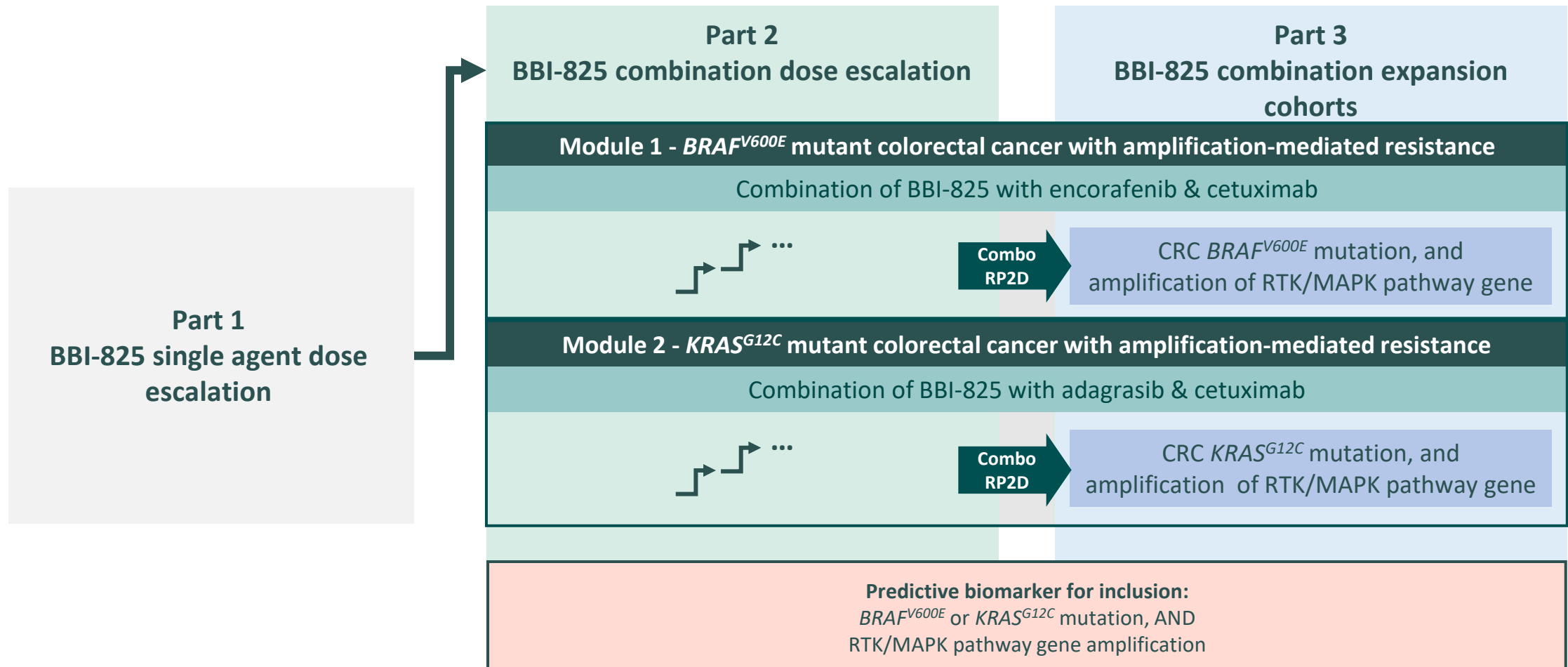
BRAF



Cancer cell cytotoxicity over time in $BRAF^{V600E}$ CRC COLO201 cells



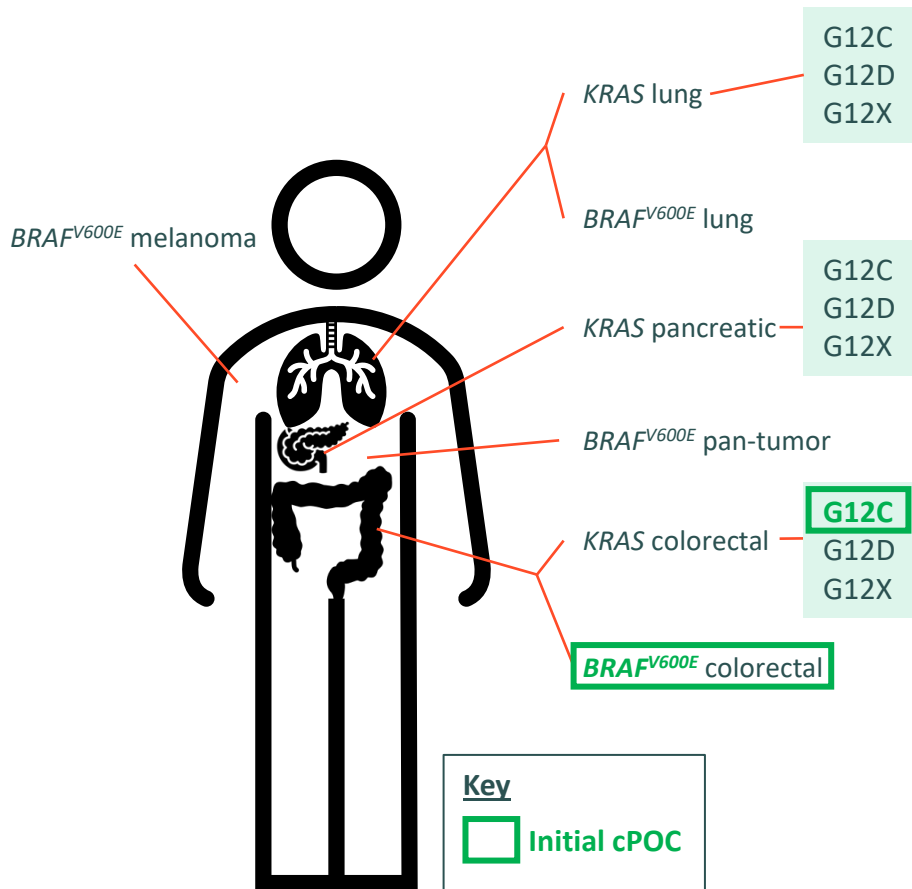
Phase 1/2 study of BBI-825 evaluates prevention and treatment of amplification-mediated resistance to RTK/MAPK pathway inhibitors



“**STARMAP**”: Study Treating Acquired Resistance; MAPK Amplifications

MAPK-pathway amplification-mediated acquired resistance

Initial clinical proof of concept (cPOC) and total addressable market (TAM)

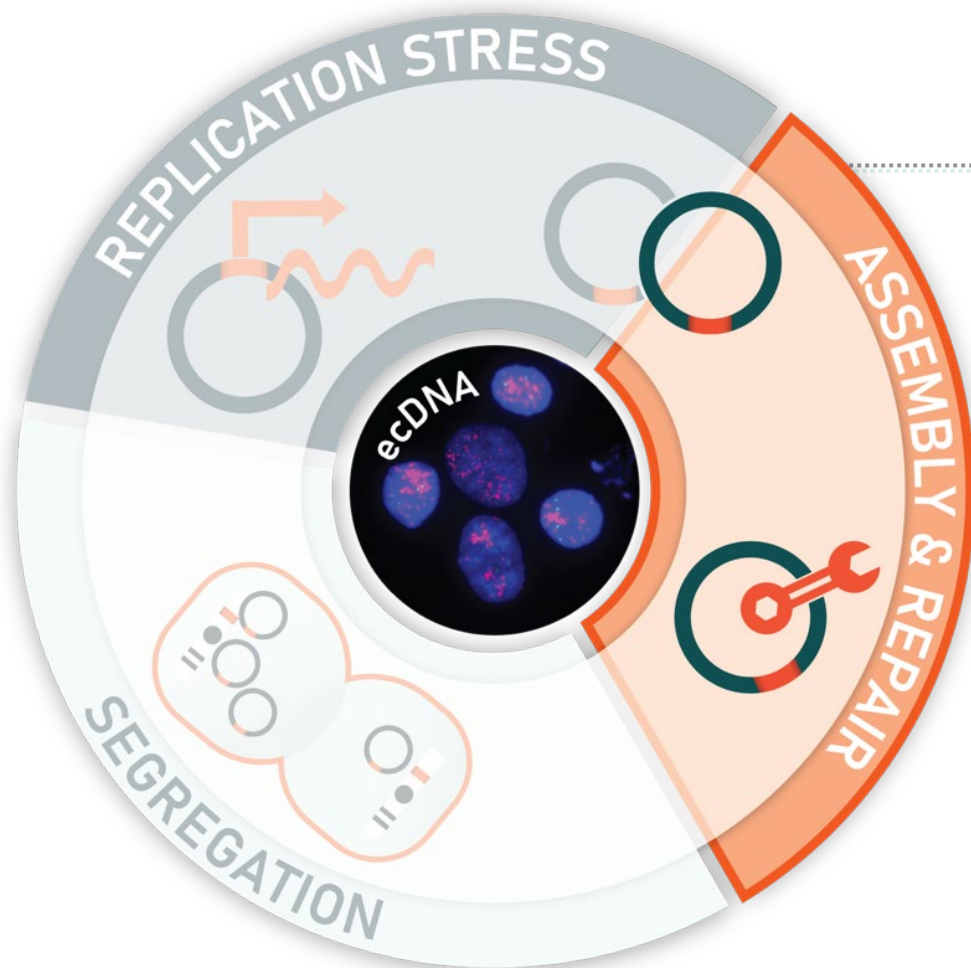


<u>KRAS^{G12C} and BRAF^{V600E} Inhibitors</u>	<u>Resistance Mechanisms</u>	<u>Next Line/ Combo</u>
<u>KRAS^{G12C} Inhibitors (+/-EGFRi)</u> Krazati™ (adagrasib) Lumakras™ (sotorasib) Divarasib...	2nd-site <i>KRAS/BRAF</i> mutations	2nd-gen inh SHP2i SOS1i
<u>KRAS^{G12X} Inhibitors</u> MRTX1133 RMC-9805, -5127...	"Bypass mechanisms"	I/O Chemo Other
<u>BRAF^{V600E} Inhibitors (+/-MEKi/EGFRi)</u> Braftovi™ (encorafenib) Tafinlar™ (dabrafenib) Zelboraf™ (vemurafenib)	MAPK-pathway amplifications % of patients clinically observed to develop amplifications upon resistance	BBI-825

G12C CRC (35% Yaeger 2024)
G12C CRC (58% Yaeger 2023)
G12C CRC (80% Desai 2023)
G12C PDAC (32% Dilly 2024)
G12C NSCLC (24% Awad 2021)
G12C Pan-Tumor (63% Sacher 2023)
V600E CRC (44% Tan 2023)
V600E CRC (24-38% Kopetz 2024)
V600E melanoma (45% Dharanipragada 2023)

While we seek to demonstrate initial POC in **KRAS^{G12C}** and **BRAF^{V600E} CRC**, BBI-825's TAM may be pan-tumor and pan-RAS

BBI-825 summary: the second ecDTx in clinical development for cancer with resistance gene amplifications



RNR: ribonucleotide reductase

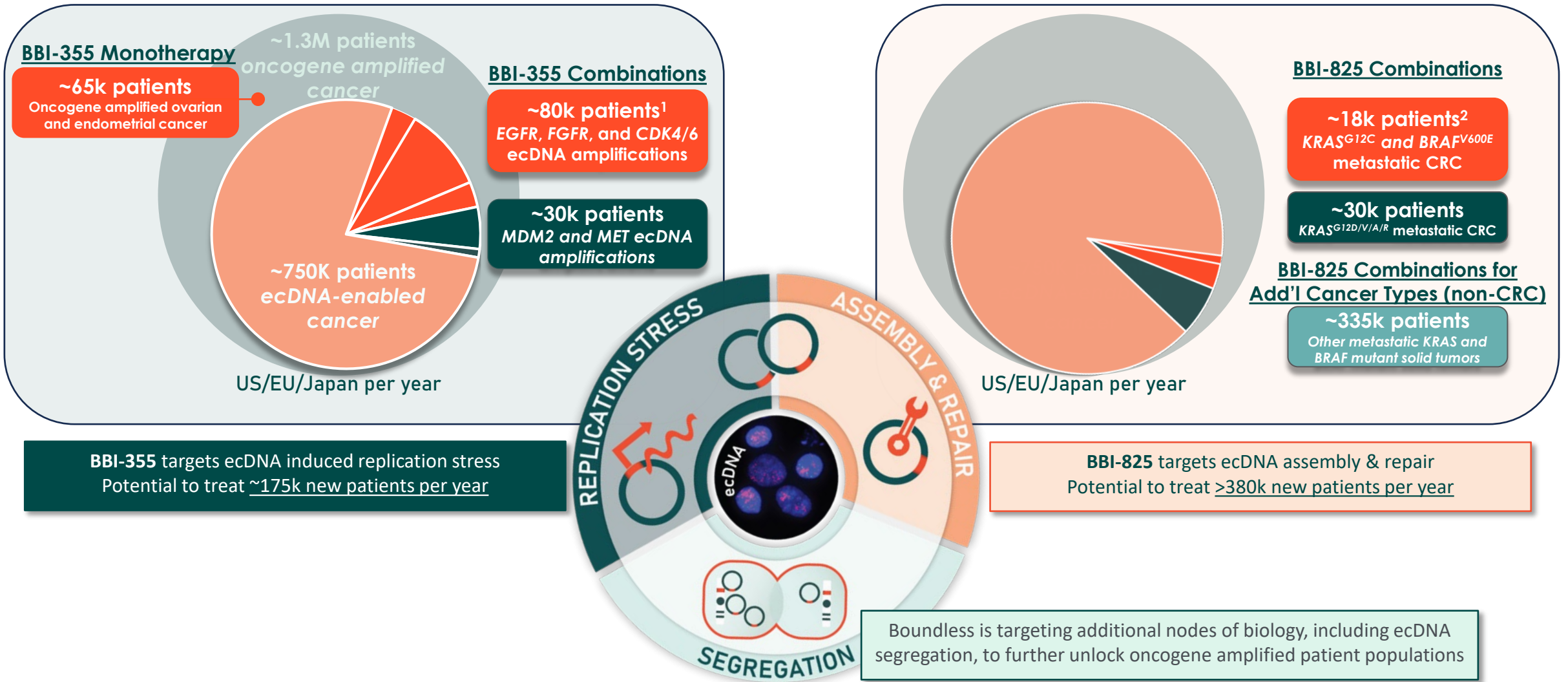
BBI-825: PHASE 1/2

- BBI-825 is a **first-in-class, oral, selective** RNR inhibitor in development to address **patient populations** with MAPK-pathway activated cancer
- **Rapid resistance in multiple tumor types** is a limitation of current targeted therapies, presumably due to **amplification** of resistance genes
- Preclinically, BBI-825 demonstrated **significant tumor growth inhibition**, including regressions, in MAPK pathway-activated tumor models
- **STARMAP** trial modular design ([NCT06299761](https://clinicaltrials.gov/ct2/show/study/NCT06299761)) enables multiple avenues for expansion opportunities across pan-tumor and pan-RAS and activated cancers
- Preliminary pharmacokinetic data from Part 1 showed a lack of dose-proportional exposure; **BBI-825** STARMAP trial will not advance at this time



**Boundless Bio: leading a new area of cancer biology
and targeting a large unmet need**

Seeking to address oncogene amplification market by targeting oncogene agnostic nodes of ecDNA biology



Boundless Bio is leading a compelling and differentiated approach to address oncogene amplified cancers

Dedicated to Oncogene Amplified Cancers by targeting a unique cancer biology

- **Oncogene amplifications:** one of cancer’s highest unmet medical needs, represents expansive addressable market
- **ecDNA:** a root cause of amplification; Boundless Bio is the leading ecDNA company
- **Spyglass:** ecDNA-focused discovery engine
- **ecDTx:** multiple clinical-stage programs with robust preclinical data
- **ECHO:** diagnostic designed to identify ecDNA+ cancers using routine NGS assays

Fortress Position, Track Record of Success, Well-Funded

- Founded by world’s leading ecDNA experts; led by experienced management team with a track record of precision oncology drug approvals and multi-\$B M&A
- All ecDTx internally discovered and wholly-owned; IP life through at least 2041-2044
- Approximately \$167M in cash and equivalents*, provides expected runway into 2027

Multiple Value Drivers

ecDTx	Target	ecDNA Node	Anticipated Milestones
BBI-355	CHK1	Replication Stress	2H 2025: Initial clinical POC from Phase 1/2 POTENTIATE trial
BBI-825	RNR	Assembly & Repair	STARMAP study will not advance at this time
ecDTx 3	Kinesin	Segregation	Mid-2025: Development Candidate; 1H 2026: Submit IND

Boundless Bio: a breakthrough biotech company leading the next wave of innovation in cancer treatment

CANCER TREATMENT BREAKTHROUGHS



1940s
CHEMOTHERAPY



1990-2000s
TARGETED THERAPY



2010s
IMMUNOTHERAPY



2020s-2030s
ecDNA-DIRECTED THERAPIES (ecDTx)

Each prior wave of therapeutic innovation has been unable to address a critical population:

PATIENTS WITH ONCOGENE AMPLIFIED CANCERS





BOUNDLESS BIO

Unbound by convention, bound to save lives

www.boundlessbio.com

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Bibliography of recent reviews and publications covering ecDNA—active hyperlinks

2024	Paul Mischel, Howard Chang	Nature: Enhancing transcription-replication conflict targets ecDNA-positive cancers
2024	Howard Chang, Paul Mischel, Charles Swanton	Nature: Origins and impact of extrachromosomal DNA
2024	Vineet Bafna, Roel Verhaak	Nature Genetics: Mapping extrachromosomal DNA amplifications during cancer progression
2024	Paul Mischel, Howard Chang	Nature Reviews Cancer: Extrachromosomal DNA in cancer
2023	Paul Mischel, Vineet Bafna, Howard Chang, Roel Verhaak	Nature: Extrachromosomal DNA in the cancerous transformation of Barrett’s oesophagus
2022	Vineet Bafna, Paul Mischel	Annual Reviews: Extrachromosomal DNA in Cancer
2022	Paul Mischel, Howard Chang	Nature Structural and Molecular Biology: Gene regulation on extrachromosomal DNA
2022	Rene Medema (Netherlands Cancer Inst.)	Chromosoma: Life of double minutes: generation, maintenance, and elimination
2022	Vineet Bafna, Howard Chang, Paul Mischel	Annual Reviews: Extrachromosomal DNA: An Emerging Hallmark in Human Cancer
2020	Anton Henssen, Howard Chang, Paul Mischel, Vineet Bafna, Roel Verhaak	Nature Genetics: Extrachromosomal DNA is associated with oncogene amplification and poor outcome across multiple cancers
2020	Paul Mischel, Charles Swanton (Crick Inst.)	Annals of Oncology: Extrachromosomal DNA—relieving heredity constraints, accelerating tumour evolution
2020	Christopher Ott (Mass Gen)	Cancer Cell: Circles with a Point: New Insights into Oncogenic Extrachromosomal DNA
2019	Roel Verhaak, Vineet Bafna, Paul Mischel	Nature Reviews: Extrachromosomal oncogene amplification in tumour pathogenesis and evolution

