



RELAY[®]
T H E R A P E U T I C S

Corporate Presentation

As of May 2, 2024

This presentation contains forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995, as amended, including, without limitation, implied and express statements regarding the progress and timing of the clinical development of the programs across our portfolio, including the expected therapeutic benefits of our programs and potential efficacy and tolerability, and the timing and success of interactions with and approval of regulatory authorities; the timing of clinical data updates across our pipeline, including the timing of a clinical data update for the PI3K α franchise, the progress of doublet and triplet combinations for RLY-2608, the timing of clinical updates for RLY-2608, and the timing of a clinical data and regulatory update for lirafugratinib; the timing of disclosure of additional pre-clinical programs; the possibility that unconfirmed results from these trials will not be confirmed by additional data as our clinical trials progress; the potential of RLY-2608 to address a major unmet medical need; expectations regarding our pipeline, operating plan, use of capital, expenses and other financial results; our cash runway projection; the competitive landscape and potential market opportunities for our product candidates; the expected strategic benefits under our collaborations; our ability to successfully establish or maintain collaborations or strategic relationships for our product candidates; expectations regarding current and future interactions with the U.S. Food and Drug Administration (FDA); our ability to manufacture our product candidates in conformity with the FDA's requirements; the capabilities and development of our Dynamo™ platform; our plans to develop, manufacture and commercialize our current product candidates and any future product candidates; and the implementation of our business model and strategic plans for our business, current product candidates and any future product candidates. The words "may," "might," "will," "could," "would," "should," "plan," "anticipate," "intend," "believe," "expect," "estimate," "seek," "predict," "future," "project," "potential," "continue," "target" and similar words or expressions, or the negative thereof, are intended to identify forward-looking statements, although not all forward-looking statements contain these identifying words.

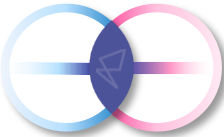
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New Breed of Biotech

EXPERIMENTATION



COMPUTATION

Clear Focus

Targets & Therapeutic Areas

Validated Targets only

Oncology

Genetic diseases

Modalities

Small Molecules

Degraders

Chaperones



~\$750M

Cash, cash equivalents and investments as of the end of 1Q 2024

Validated Approach

3 Clinical Programs

PI3Kα
RLY-2608

FGFR2
RLY-4008

SHP2
GDC-1971

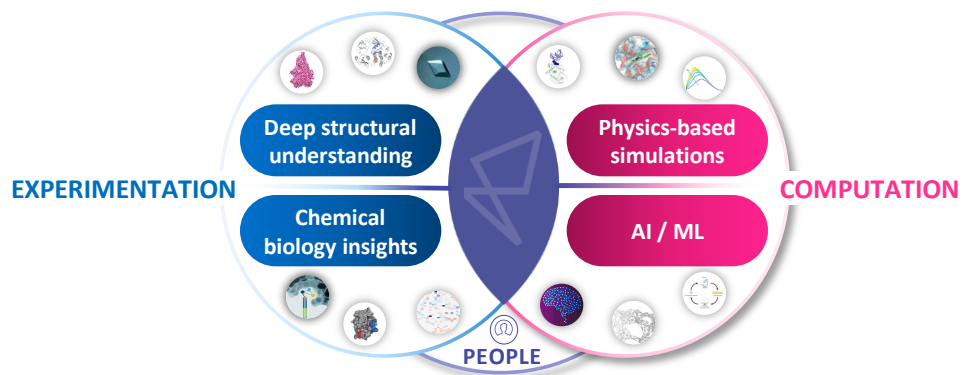
Pre-clinical

7+ add'l programs in pipeline

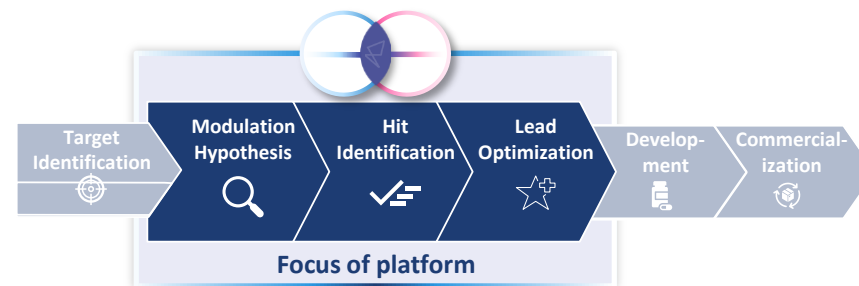
Execution-Focused

Target	Program	Preclinical	Early Clinical	Late Clinical
PI3Kα franchise	Monotherapy	[Progress bar]		
	RLY-2608 PI3Kα ^{H1975} Endocrine Tx (ET) doublet	[Progress bar]		
	CDK4/6 + ET triplet	[Progress bar]		
	RLY-5836 PI3Kα ^{H1975} Dose Escalation	Deprioritized		
FGFR2	PI3Kα ^{H1975}	[Progress bar]		
	Lirafugratinib (RLY-4008)	[Progress bar]		
Solid Tumor	2 programs	[Progress bar]		
Genetic Disease	2 programs	[Progress bar]		
CDK2	RLY-2139	Passed IND ready		
	ERα	RLY-1013 (Degrader)	Passed IND	
SHP2	Migaprotarfin (GDC-1971) (Degrader)	3 ongoing combo studies		

1 Dynamo™ Platform...



2 ...is focused on making medicines



3 ...aims to address selectivity on validated targets



Relay Tx – Broad Precision Medicine Pipeline



Target	Program	Preclinical	Early Clinical	Late Clinical	Annual US Patient #
PI3Kα franchise	Monotherapy	[Progress bar]			~10-71K breast cancer ~76-243K all solid tumors
	RLY-2608 PI3Kα ^{PAN} Endocrine Tx (ET) doublet	[Progress bar]			
	CDK4/6i + ET triplet	[Progress bar]			
	RLY-5836 (PI3Kα ^{PAN}) Dose Escalation	Deprioritized			
	PI3Kα ^{H1047R}	[Progress bar]			~4-27K breast cancer ~15-50K all solid tumors
FGFR2	Lirafugratinib (RLY-4008)	[Progress bar]			~11-35K ⁴
Solid Tumor	2 programs	[Progress bar]			To be announced
Genetic Disease	2 programs	[Progress bar]			To be announced
CDK2	RLY-2139	Paused; IND ready			~35K ²
ERα	RLY-1013 (Degradar)	Paused at DC			~30-205K ³
SHP2	Migoprotafib (GDC-1971) Genentech <small>A Member of the Roche Group</small>	3 ongoing combo studies			~36-69K ⁵

Note: Unless otherwise indicated, patient #'s refer to total annual number of US patients with late-line cancers compared to comprehensive annual incidence that may be amenable to treatment with our programs

1. Unless otherwise indicated, all breast cancer patient numbers refer to HR+/HER2- breast cancer tumors; 2. ~35K HR+/HER2- breast cancer patients expected to receive CDK 4/6 inhibitors in adjuvant setting, first-line setting, and second-line setting in 2024, per Decision Resources Breast Cancer Market Forecast report dated November 2023; 3. HR+/HER2- US late-line breast cancer patients compared to HR+/HER2- US incident breast cancer patients; 4. FGFR2 altered late-line solid tumors compared to comprehensive annual FGFR2 altered incident solid tumors including additional FGFR gene fusions and rearrangements resulting from truncation of the protein at exon 18 and all breast cancer patients with FGFR2 alterations; 5. SHP2 combo only includes KRAS G12C in lung and colorectal, EGFR mutations in lung, and ALK fusions in lung

2024 Corporate Objectives

RLY-2608 Doublet
(PI3K α)

- Additional clinical data in 2H 2024

RLY-2608 Triplet
(PI3K α)

- ✓ Ribociclib triplet initiation in Q4 2023
- Ribociclib triplet safety data in 2H 2024

Lirafugratibnib (RLY-4008)
(FGFR2)

- Tumor agnostic data and regulatory update in 2H 2024

Pre-clinical Pipeline
(Targets unnamed)

- New program(s) to be disclosed in 2024
- 7+ undisclosed programs in preclinical development and additional early-stage efforts across platform

Migoprotafib (GDC-1971)
(SHP2)



- Three ongoing combination trials
**Genentech controls data disclosures*

Goal is a first- or best-in-class profile

Significant Capital to Achieve Goals

~\$750M

Cash, cash equivalents and investments as of the end of 1Q 2024

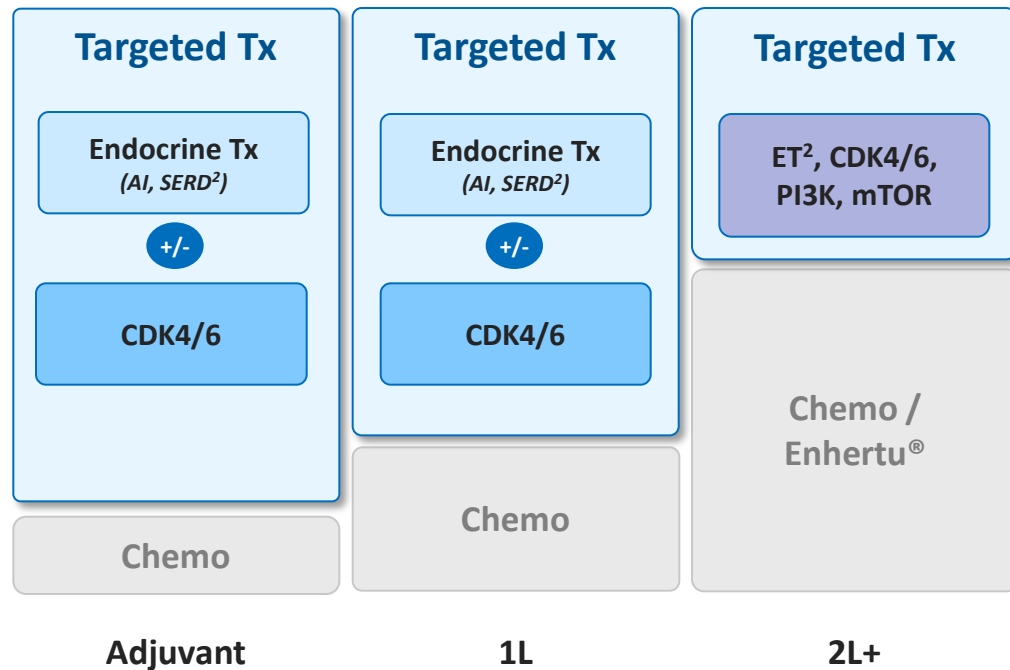
Expected to be sufficient to fund current operating plan into 2H 2026

Relay Tx – Broad Precision Medicine Pipeline



Target	Program	Preclinical	Early Clinical	Late Clinical
PI3K α franchise	Monotherapy	[Progress bar]		
	RLY-2608 PI3K α ^{PAN} Endocrine Tx (ET) doublet	[Progress bar]		
	CDK4/6i + ET triplet	[Progress bar]		
	RLY-5836 (PI3K α ^{PAN}) Dose Escalation	Deprioritized		
	PI3K α ^{H1047R}	[Progress bar]		
CDK2	RLY-2139	Paused; IND ready		
ER α	RLY-1013 (Degradar)	Paused at DC		
FGFR2	Lirafugratinib (RLY-4008)	[Progress bar]		
Solid Tumor	2 programs	[Progress bar]		
Genetic Disease	2 programs	[Progress bar]		
SHP2	Migoprotafib (GDC-1971) Genentech <small>A Member of the Roche Group</small>	3 ongoing combo studies		

HR+/HER2- breast cancer standard of care¹...



...is limited by efficacy of available treatments

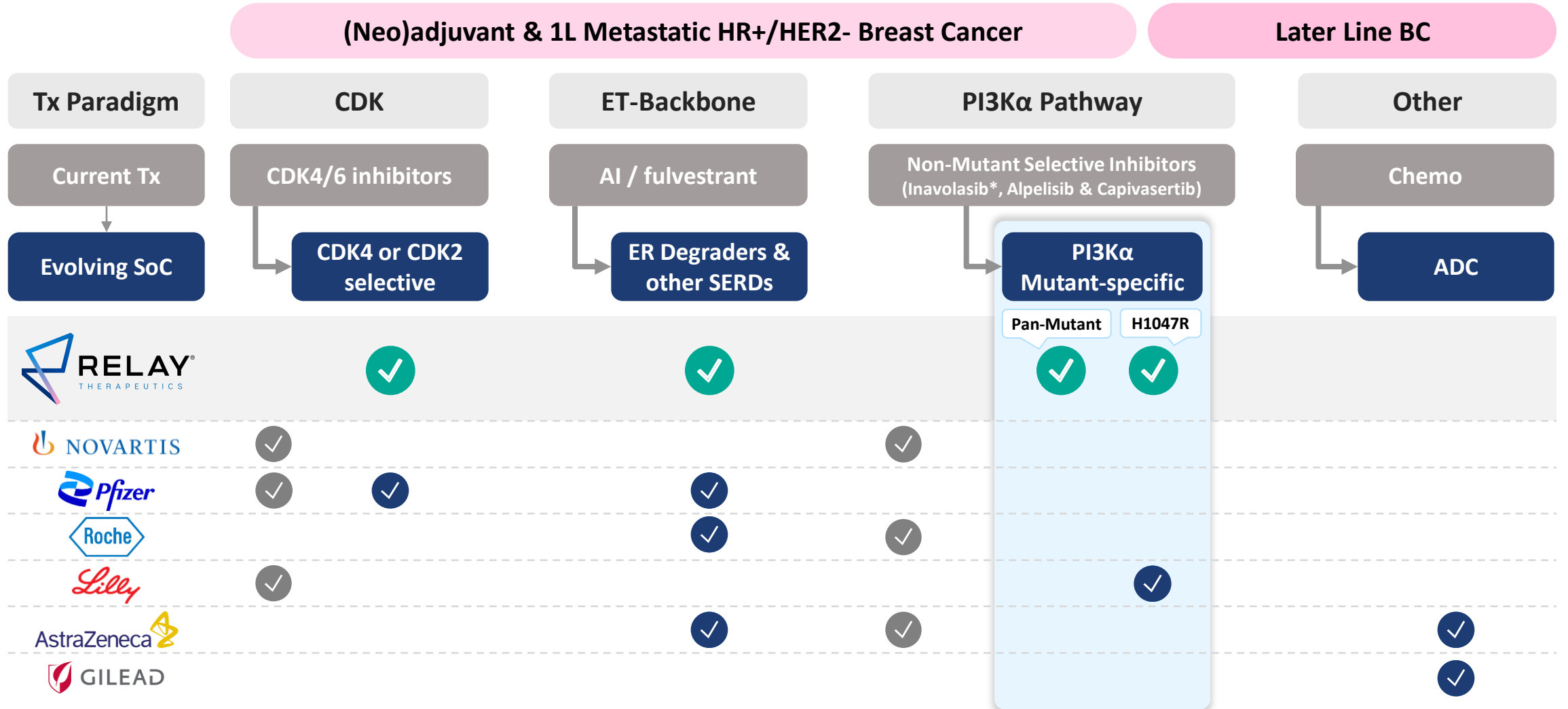


Source: Internal analysis based on third party industry data

1. Standard of care for HR+/HER2- breast cancer is illustrative; 2. AI = Aromatase Inhibitor; SERD: Selective Estrogen Receptor Degradar; ET = Endocrine Therapy

Breast Cancer – Evolving Landscape With Very Large Market Opportunity

\$27B Market Size of (Neo)adjuvant and 1L Metastatic HR+/HER2- Breast Cancer



* Inavolasib is an investigational therapy in Ph3 studies

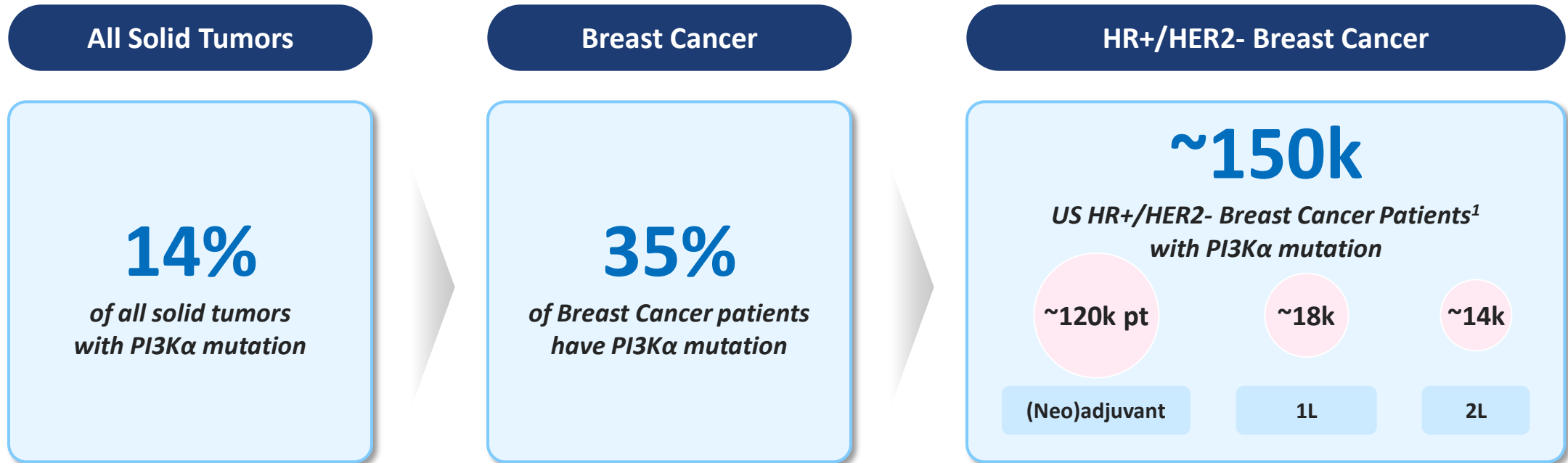
Source: Decision Resources Group – Breast Cancer Disease Landscape & Forecast (Nov 2023). 2031 Projection

Relay Tx – Broad Precision Medicine Pipeline



Target	Program	Preclinical	Early Clinical	Late Clinical
PI3K α franchise	Monotherapy	[Progress bar]		
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Solid Tumor	2 programs	[Progress bar]		
Genetic Disease	2 programs	[Progress bar]		
SHP2	Migoprotafib (GDC-1971) Genentech <small>A Member of the Roche Group</small>	3 ongoing combo studies		

PI3K α Represents a Major Market Opportunity

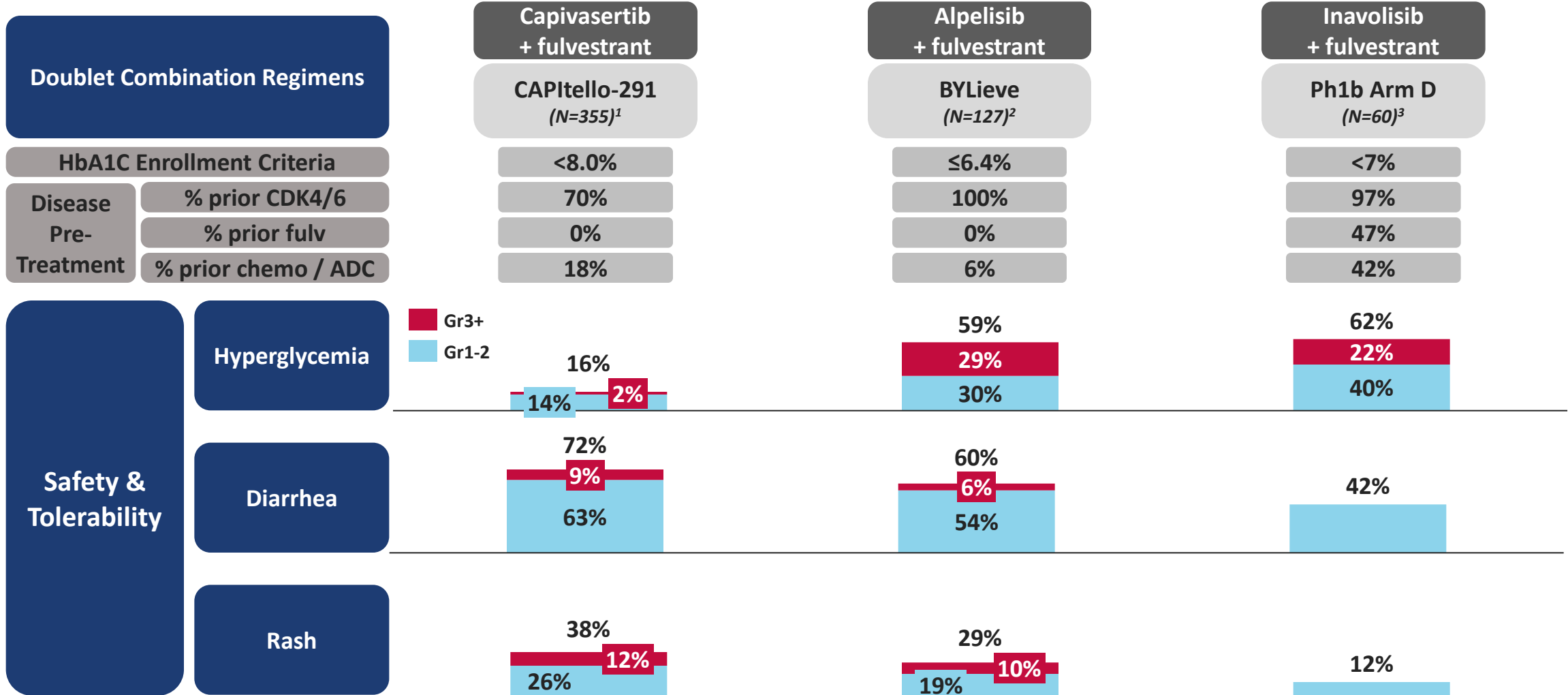


RLY-2608 has the potential to address very large patient population

Sources: 3rd party data; Global Data HER2-/HR+ Breast Cancer Global Patient Forecast, October 2023;

1. Includes prevalent PI3K α mutated HR+/HER2- patients receiving therapy in Neo/Adjuvant setting (includes incident patients in 2023 receiving endocrine or non-endocrine therapy in Neo/Adjuvant settings [~50k], and patients diagnosed in previous years with local/regional disease receiving sequential endocrine therapy in 2023 [~69k]), and prevalent PI3K α mutated HR+/HER2- metastatic patients receiving therapy in 1L or 2L setting

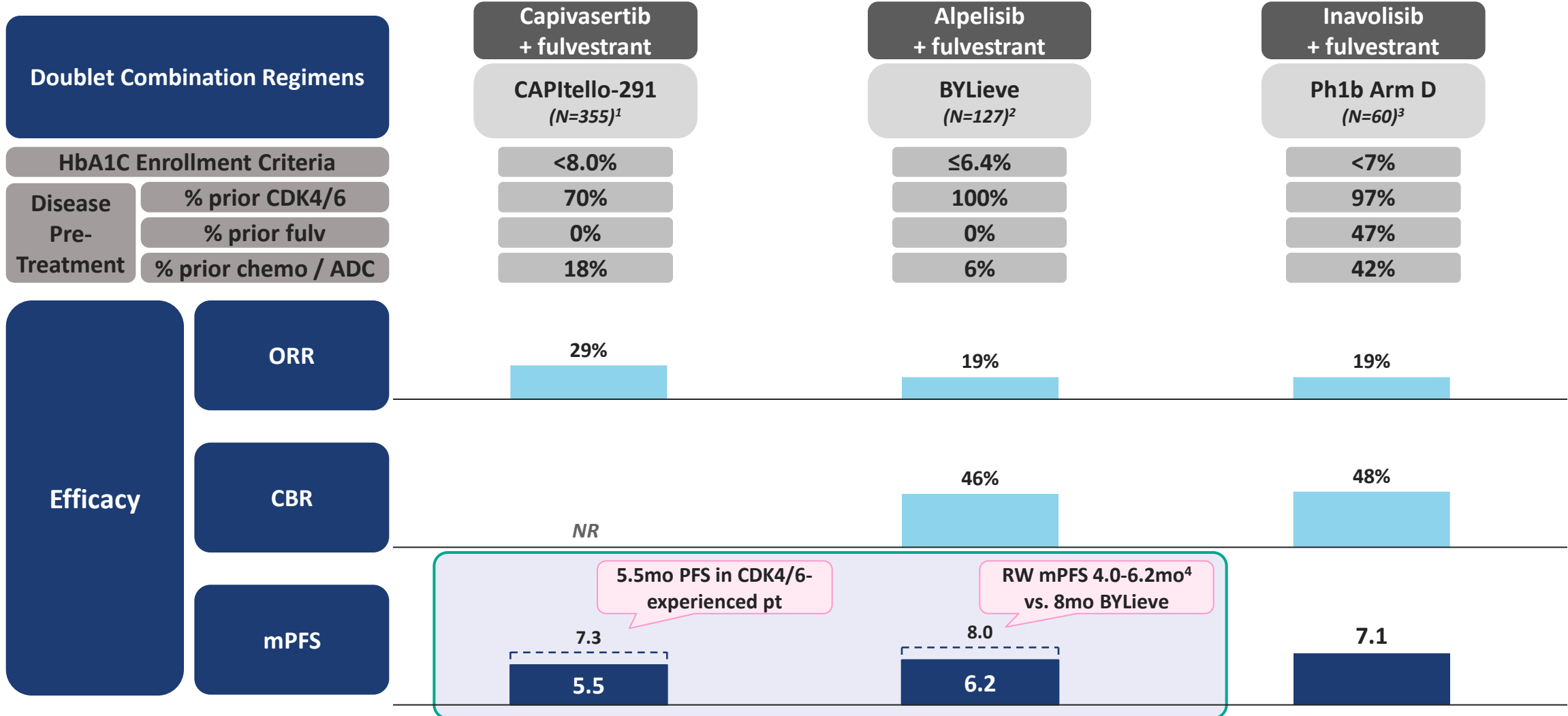
RLY-2608 – Safety Profiles of Existing PI3K α Pathway Compounds



Sources: 1. Turner N Engl J Med 2023; 388:2058-2070; 2. Rugo 2021 Lancet Oncol 22:489; 3. SABCS 2021 #P5-17-05

Note: These data are derived from different clinical trials at different points in time, with differences in trial design and patient populations. As a result, cross-trial comparisons cannot be made, and no head-to-head clinical trials have been conducted.
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RLY-2608 – Efficacy Profiles of Existing PI3K α Pathway Compounds



Sources: 1. Turner N Engl J Med 2023; 388:2058-2070; 2. Rugo 2021 Lancet Oncol 22:489; 3. SABCs 2021 #P5-17-05; 4. ASCO 2022 #1055 (Novartis-sponsored real-world evidence study for alpelisib + fulvestrant)

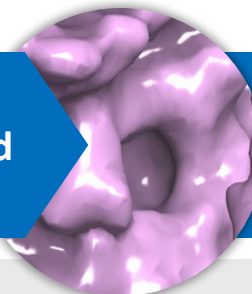
Note: These data are derived from different clinical trials at different points in time, with differences in trial design and patient populations. As a result, cross-trial comparisons cannot be made, and no head-to-head clinical trials have been conducted.

PI3K α – Proprietary Insights Unlock Novel Approaches

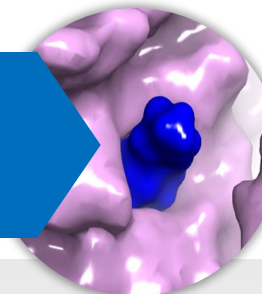
Solved first full-length structures of PI3K α (mutant and wild-type)



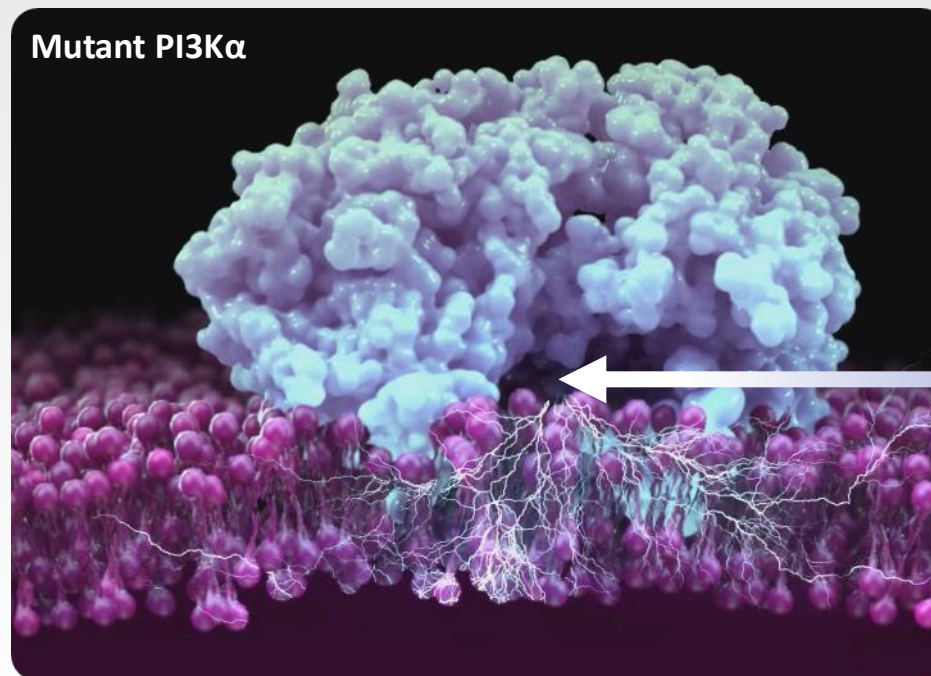
Discovered novel allosteric pocket favored in mutant protein



Designed pan-mutant selective PI3K α inhibitor (PI3K α ^{PAN})



Mutant PI3K α



Orthosteric Site

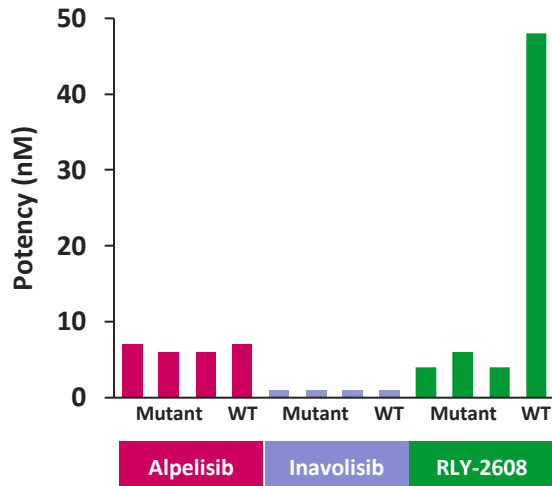
A differentiated understanding of the structure of PI3K α and its relationship to function equips Relay Tx to design optimal mutant-selective inhibitors of PI3K α

RLY-2608 – First Mutant Selective Inhibitor to Enter the Clinic

All Data Shown is Preclinical

Favorable Selectivity

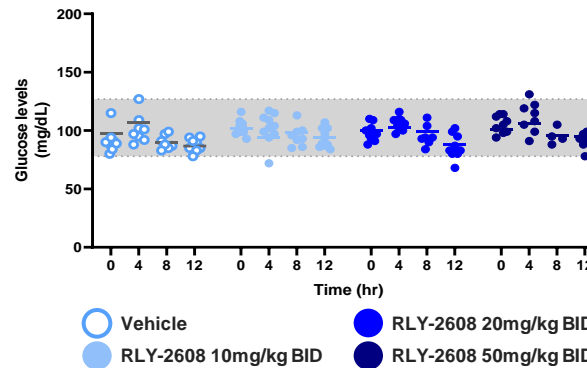
Limited potency against WT PI3K α and other PI3K isoforms



Favorable Tolerability

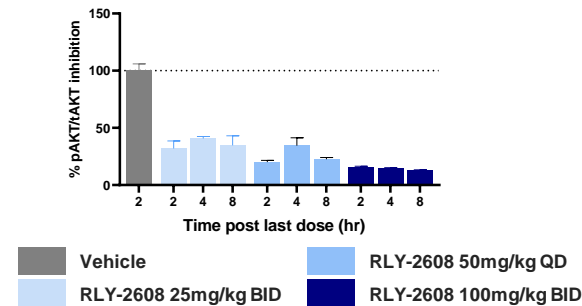
Manageable key toxicities, especially hyperglycemia shown in dog study

28-Day Repeat Dose Dog Study



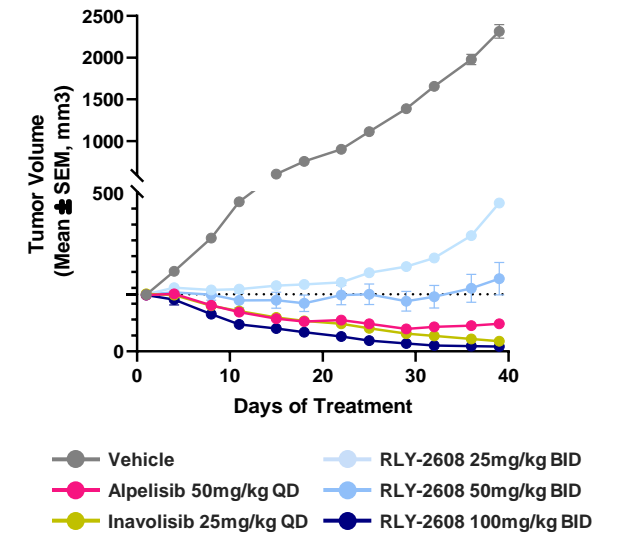
Favorable Target Inhibition

Maintains approx. 80% mutant PI3K α inhibition in mouse model

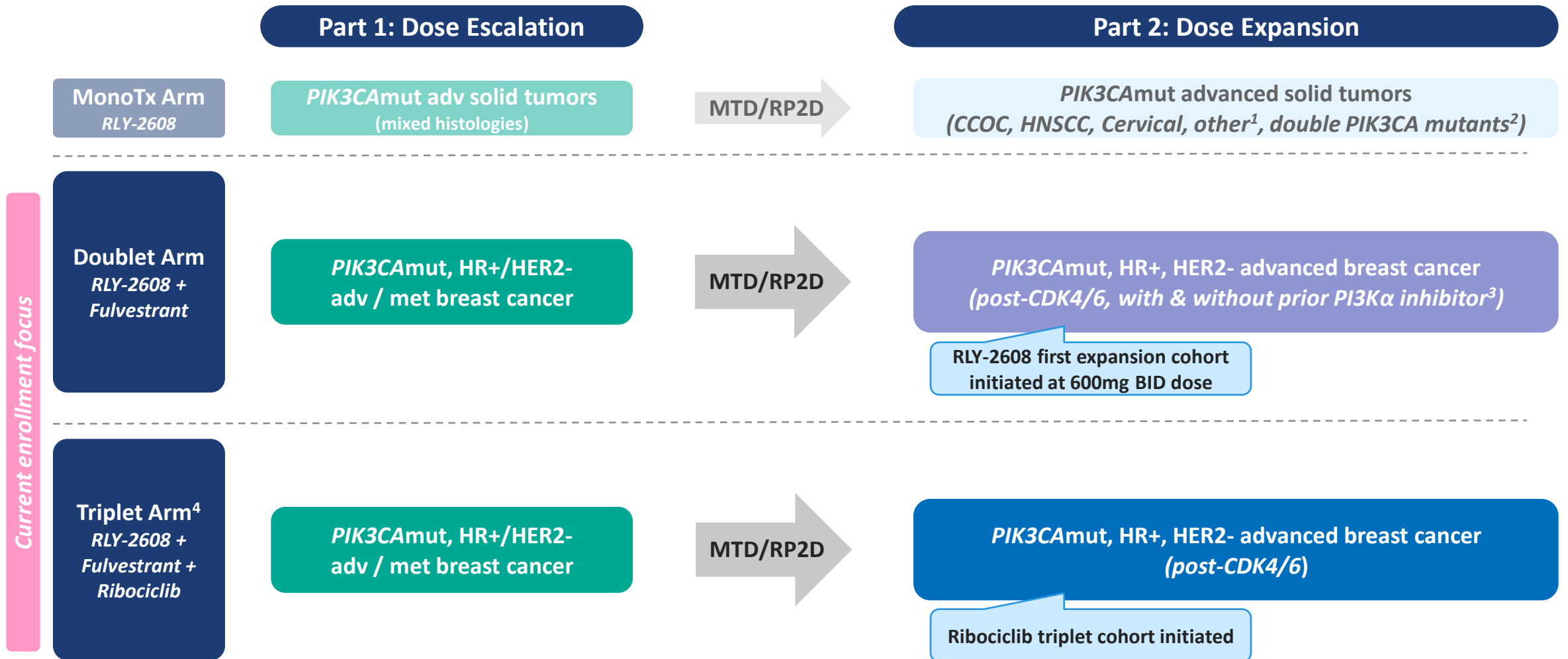


Favorable Efficacy

Robust tumor regression at tolerable doses in mouse model

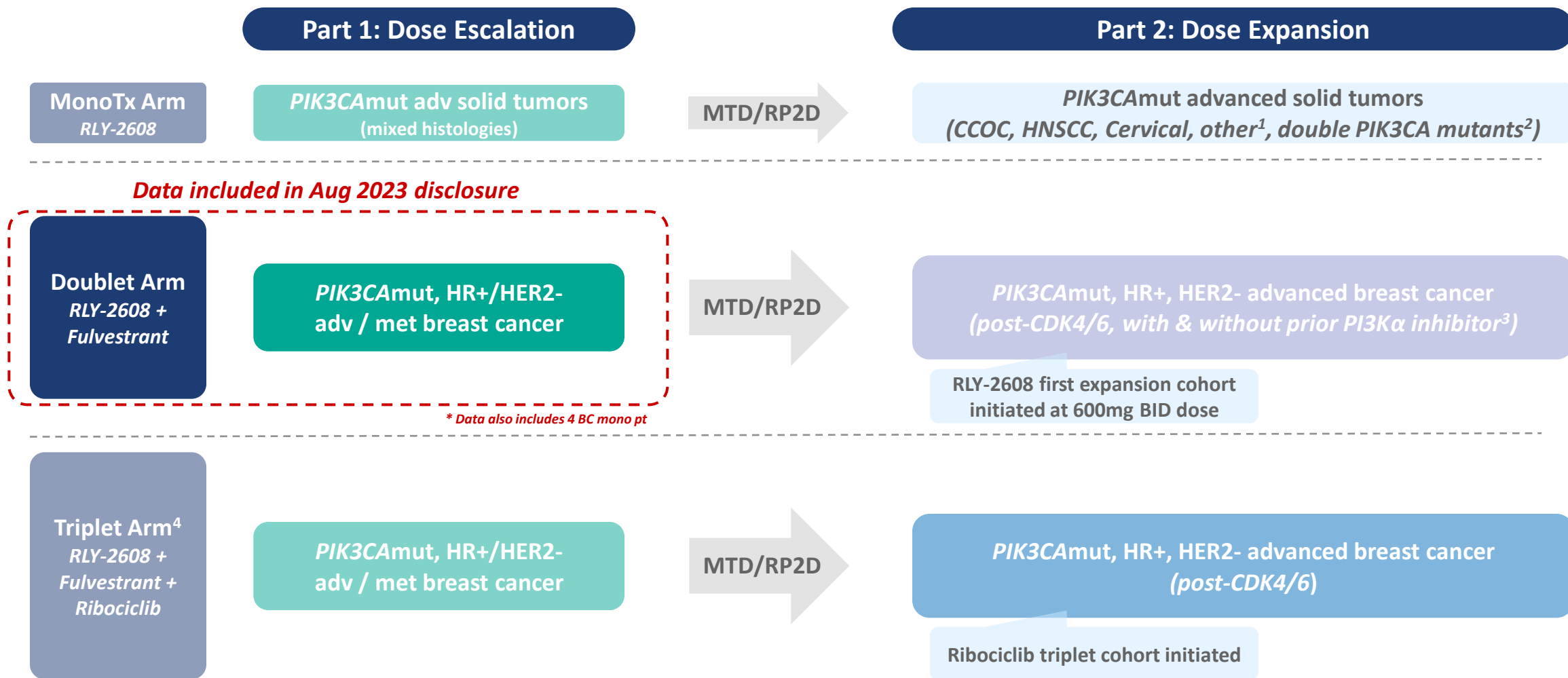


RLY-2608 – Trial Design



1. Excludes *PIK3CA*mut clear cell OvCA, HNSCC, Cervical cancer, and colorectal patients; 2. Double mutation defined as one major *PIK3CA* mutation (E542X, E545X, H1047X) + ≥1 additional *PIK3CA* mutation per local assessment; 3. Patients with previous *PI3Kα* inhibitor include those with intolerance to *PI3Kα*i defined as treatment discontinuation due to treatment-related AE (e.g., hyperglycemia, rash, diarrhea, stomatitis) other than severe hypersensitivity reaction and/or life-threatening reactions, such as anaphylaxis and Stevens-Johnson syndrome; 4. RLY-2608 + fulvestrant + CDK4/6 arm expected to be added in a protocol amendment

RLY-2608 – ReDiscover Trial Interim Part 1 Results Disclosed in August 2023



1. Excludes PIK3CAmut clear cell OvCA, HNSCC, Cervical cancer, and colorectal patients; 2. Double mutation defined as one major PIK3CA mutation (E542X, E545X, H1047X) + ≥1 additional PIK3CA mutation per local assessment; 3. Patients with previous PI3Kα inhibitor include those with intolerance to PI3Kαi defined as treatment discontinuation due to treatment-related AE (e.g., hyperglycemia, rash, diarrhea, stomatitis) other than severe hypersensitivity reaction and/or life-threatening reactions, such as anaphylaxis and Stevens-Johnson syndrome; 4. RLY-2608 + fulvestrant + CDK4/6 arm expected to be added in a protocol amendment

RLY-2608 – Initial Data Support Selective Targeting of Mutant PI3K α

Summary of initial data in 43 Breast Cancer patients¹ as first disclosed in August 2023

Initial Clinical Proof of Mechanism



Initial anti-tumor activity observed across range of doses

- At 600mg BID dose in combination with fulvestrant:
 - 86% interim CBR (6 of 7 patients with CR, PR, or SD for ≥ 6 mo)
 - 1 cPR out of 5 evaluable² patients with measurable disease
- Overall, 4 PRs (of 24 evaluable² breast cancer pts) observed across mono and fulvestrant combo, dose levels and PI3K α genotypes



Favorable safety profile at therapeutically active doses with evidence of selective target inhibition

- Low rates of hyperglycemia, rash and diarrhea compared to non-selective PI3K inhibitors
- Limited observed impact on glucose homeostasis
- Continuous PK exposure above IC₈₀ achieved at ≥ 400 mg BID
- Safety profile at 600mg BID compelling for use in mBC combinations

Expansion cohorts at 400mg and 600mg BID underway

Goal for Expansion Cohorts

Interpretable Efficacy (CBR, ORR)

Longer-Term Tolerability

DLTs = dose limiting toxicities; CBR: Clinical Benefit defined as all patients with confirmed complete response or partial response or stable disease ≥ 24 weeks; evaluable patients started treatment ≥ 24 weeks prior to the data cutoff

1. N=43 Breast Cancer patients: 39 fulvestrant combo (17 at 600 mg BID), 4 monotherapy; 2. Efficacy analysis includes patients with measurable disease who had opportunity for ≥ 1 tumor assessment or discontinued treatment with < 1 tumor assessment;

3. per CTCAE v5.0

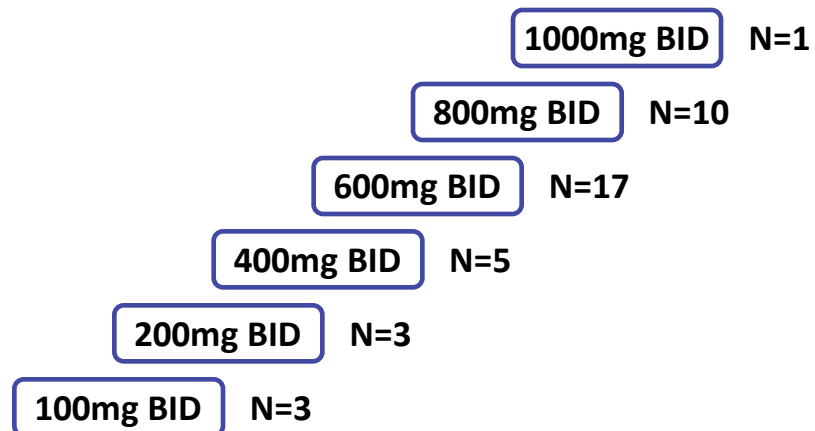
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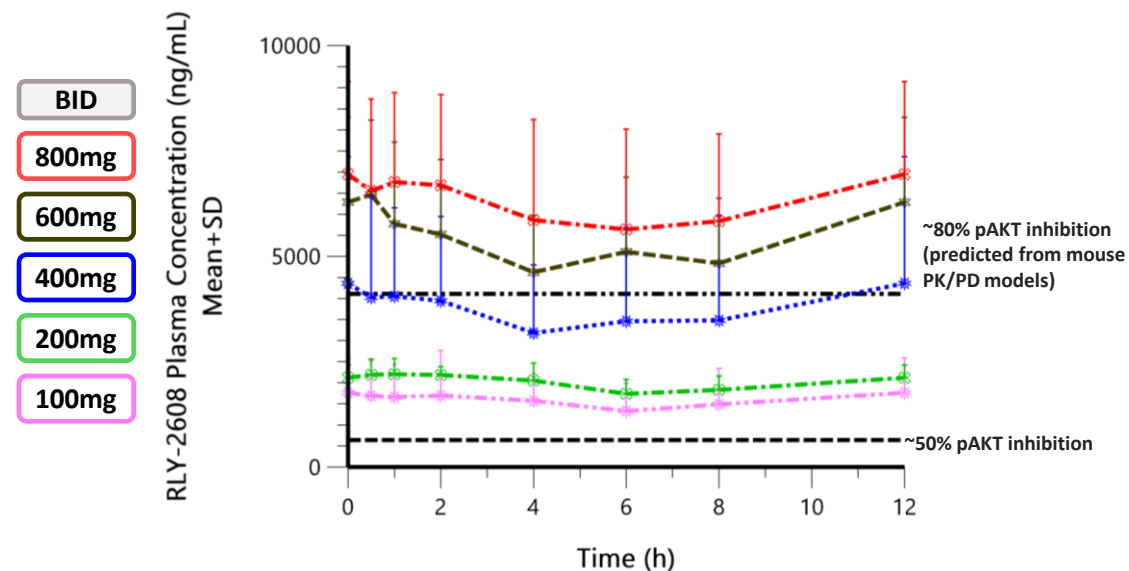
RLY-2608 – ReDiscover Trial Interim Part 1 Results

RLY-2608 + fulvestrant

Dose Escalation



Favorable PK Profile Across Dose Levels



No DLTs and MTD has yet to be defined
 Dose-dependent increase in exposure and low peak to trough fluctuations across dose levels
 Continuous coverage at ~IC80+ across dosing interval at 400mg BID combo and above

RLY-2608 – ReDiscover Trial Breast Cancer Baseline Demographics and Genotype

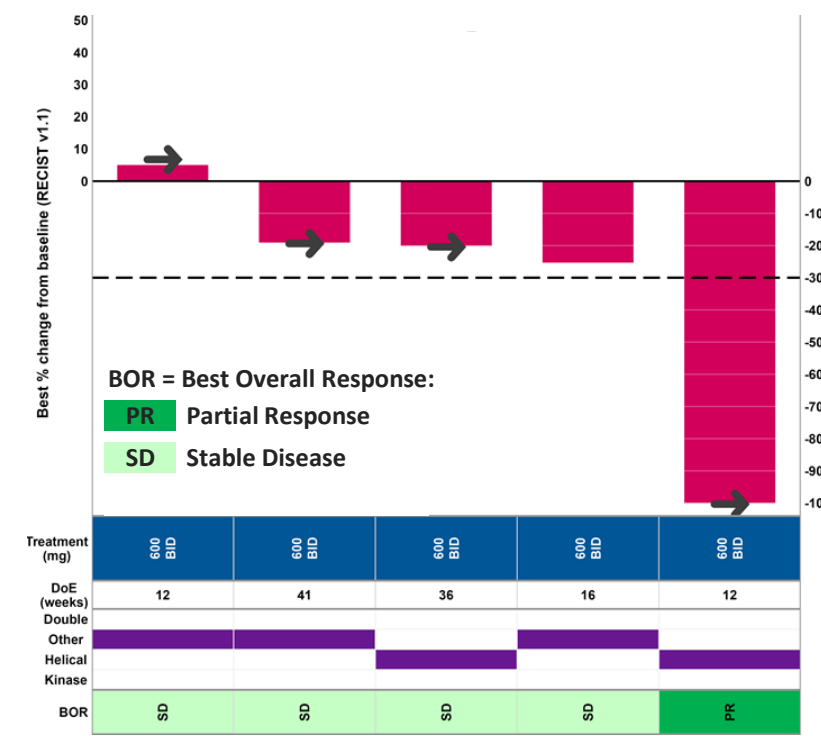
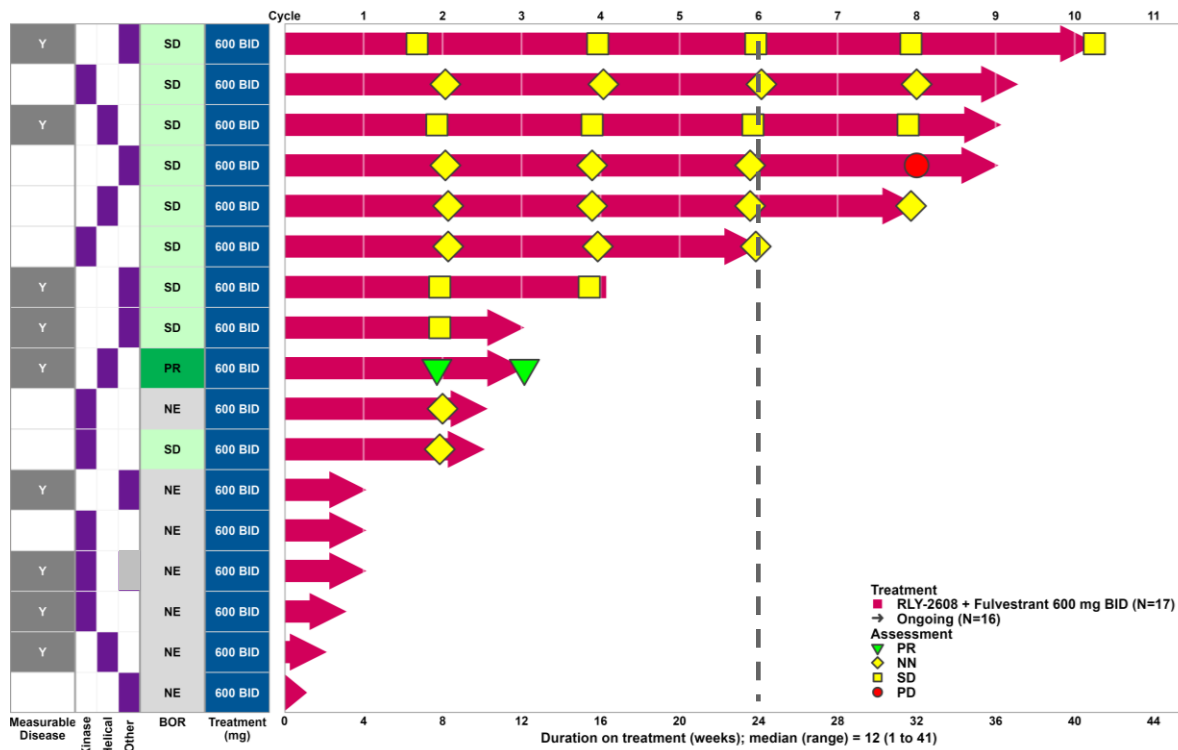
	RLY-2608 + fulvestrant (N=39)	RLY-2608 + fulvestrant 600 mg BID (N=17)	RLY-2608 Monotherapy (N=4)
Age, median (range), years	59 (40-82)	60 (49-80)	64 (58, 85)
Female, n (%)	39 (100%)	17 (100%)	4 (100%)
Ethnicity, %			
White / Asian / American Indian / Black / Unknown	67% / 3% / 3% / 3% / 23%	59% / 0% / 0% / 0% / 41%	100% / 0% / 0% / 0% / 0%
ECOG, n (%)			
0	21 (54%)	8 (47%)	2 (50%)
1	18 (46%)	9 (53%)	2 (50%)
BMI, kg/m ² , median (range)	25 (18-41)	23 (19-36)	26 (18, 44)
<30, n (%)	29 (74%)	14 (82%)	3 (75%)
≥30, n (%)	10 (26%)	3 (18%)	1 (25%)
Prior regimens of therapy in metastatic setting, median (range)	1 (1,6)	2 (1,6)	5 (1, 12)
<i>Pending data entry</i>	2 (5%)	1 (6%)	0 (0%)
1	19 (49%)	6 (35%)	1 (25%)
2	10 (26%)	6 (35%)	0 (0%)
3+	8 (21%)	4 (24%)	3 (75%)



RLY-2608 – 600 mg BID Dose Selected for Expansion Cohort

17 Breast Cancer Patients Treated with RLY-2608 600 mg BID Dose + Fulvestrant

Breast Cancer Patients 600 mg BID RLY-2608 + Fulvestrant (N=17)



RLY 2608 + Fulvestrant 600mg BID:

- 86% (6/7) CBR in patients with at least 6 months follow up
- Confirmed PR achieved in 1 of 5 efficacy evaluable¹ patients with measurable disease
- 17 patients treated, 15 remain on treatment*
- mDoT: 12wk (range: 1-41wk)

CBR: Clinical Benefit defined as all patients with confirmed complete response or partial response or stable disease ≥24 weeks; evaluable patients started treatment ≥24 weeks prior to the data cutoff

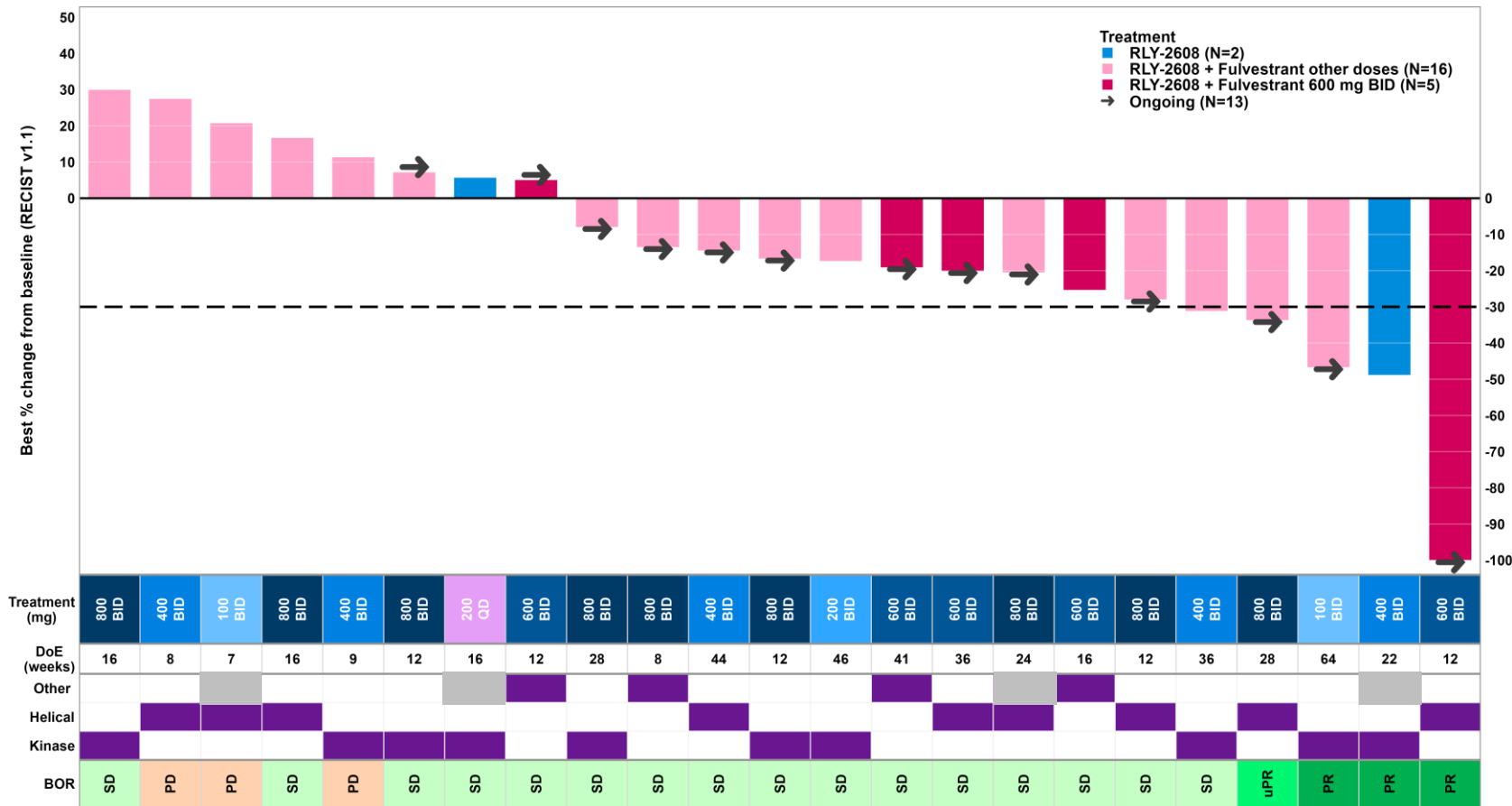
* Note: one additional pt at 600mg BID dose remains on treatment after PD assessment; 1. Efficacy analysis includes patients with measurable disease who had opportunity for ≥1 tumor assessment or discontinued treatment with <1 tumor assessment



RLY-2608 – Evidence of Anti-Tumor Activity Supports Selective Target Engagement

24 Breast Cancer Patients* – Measurable Disease Only

Breast Cancer Patients (RECIST Measurable Disease) N=24*



- At 600mg BID combo, 80% of patients (4/5) exhibited radiographic tumor reductions
 - 1 pt experienced a partial response and remains on treatment
- Overall, 63% of patients (15/24) exhibited radiographic tumor reductions; 13/24 patients ongoing
- 4 partial responses observed across mono and combo, dose levels and PI3Kα genotypes

BOR = Best Overall Response:

- PR Partial Response
- uPR Unconfirmed Partial Response
- SD Stable Disease
- PD Progressive Disease

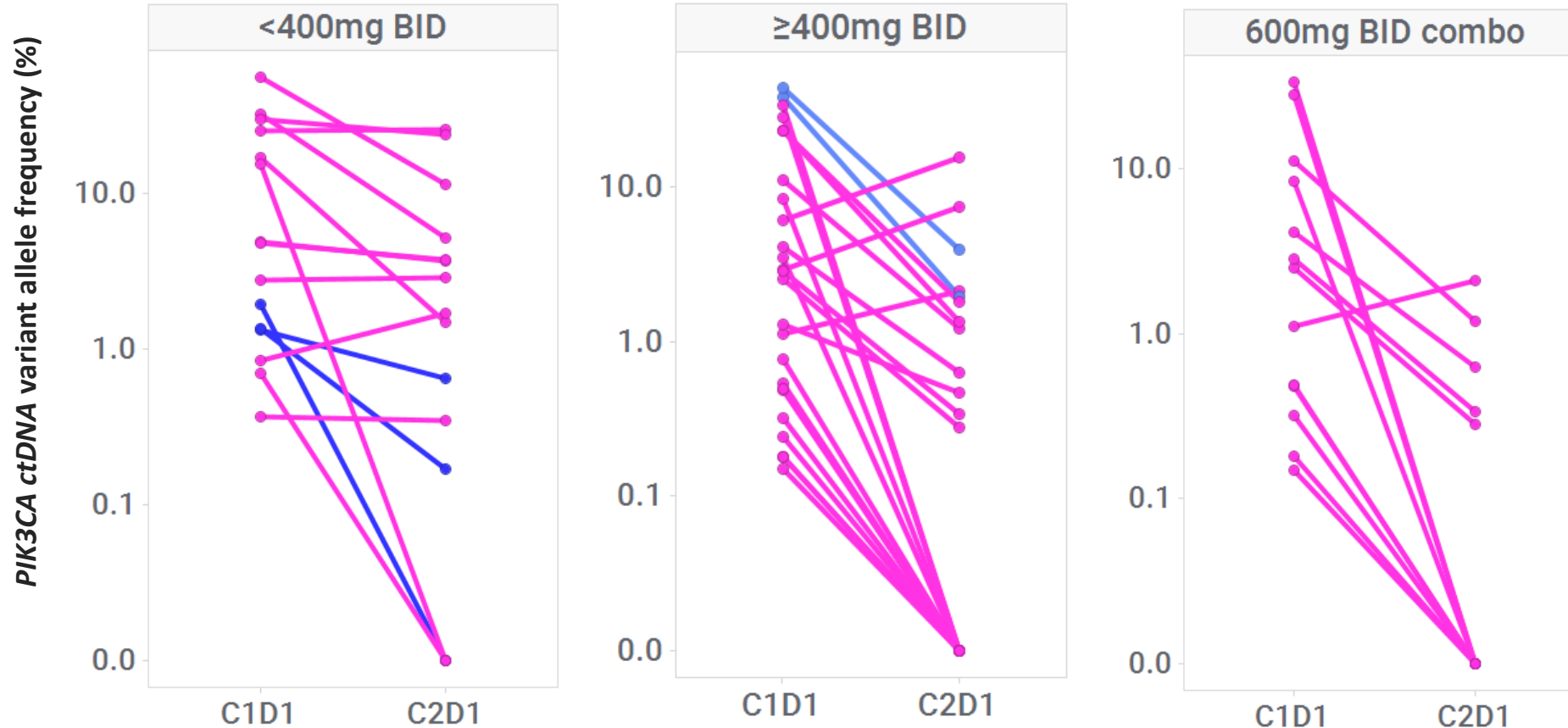
PIK3CA Mutation Key:

- Primary PIK3CA mutation type
- 2nd PIK3CA mutation in double mutation

* one patient discontinued prior to first scan and is not shown on waterfall plot



RLY-2608 – Mutant PIK3CA Decline Supports Dose Dependent Target Inhibition



- RLY-2608
- RLY-2608 + fulvestrant

- 30 Breast cancer patients with evaluable paired C1D1-C2D1 ctDNA Sample
 - Mono: 3 pt; combo: 27 pt
- 6 patients have ≥2 PIK3CA mutation
- 26 patients had decline in PIK3CA ctDNA
- 13 patients completely cleared PIK3CA ctDNA by C2D1

Patients with paired evaluable ctDNA

Mono: n=2

Combo: n=10

Mono: n= 1

Combo: n=17

Mono: n= 0

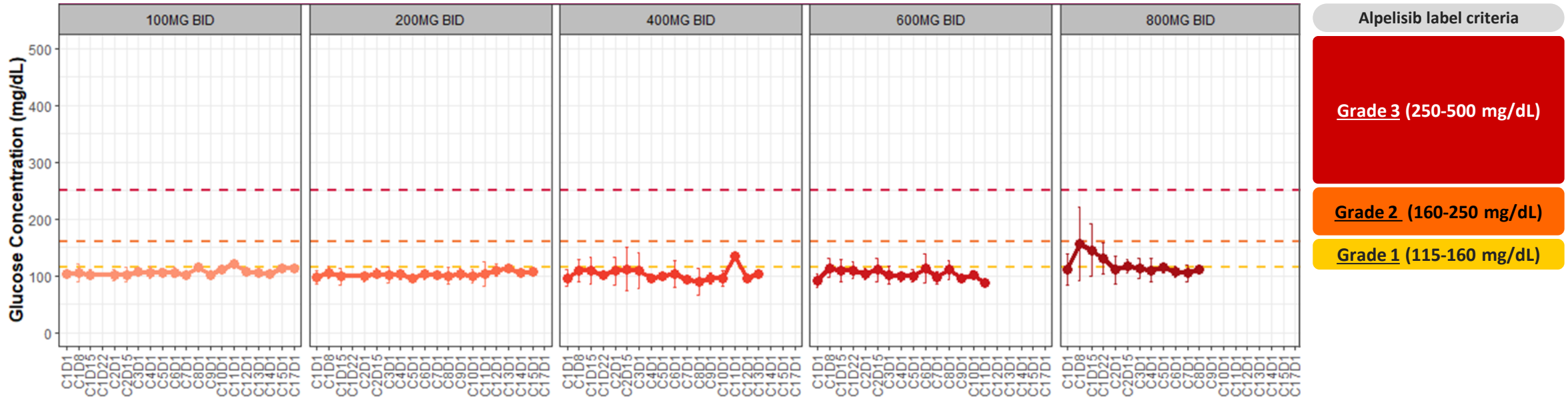
Combo: n=8

Note: data points at zero are below limits of detection
Source: Central lab analysis

RLY-2608 – Limited Observed Impact on Glucose Homeostasis Supports Selectivity



RLY-2608 + Fulvestrant Combination



Note: one 1000mg BID combo pt not shown; pt had Gr2 glucose elevation per alpelisib label criteria; Data represent mean per cohort +/- standard deviation
 Source: Central lab analysis

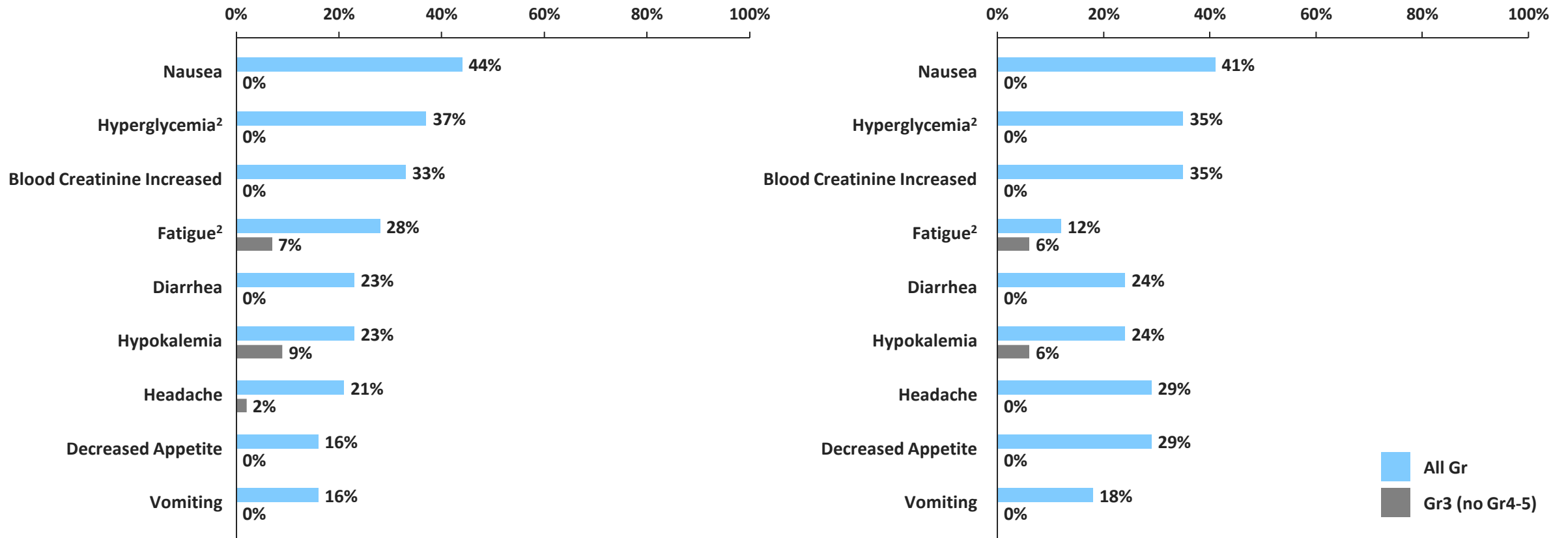


RLY-2608 – TEAEs Generally Consistent with Mutant-Selective Inhibition

TEAEs ≥15% in Breast Cancer Patients¹

All Breast Cancer Patients (N=43)

RLY-2608 600mg BID + Fulvestrant (N=17)



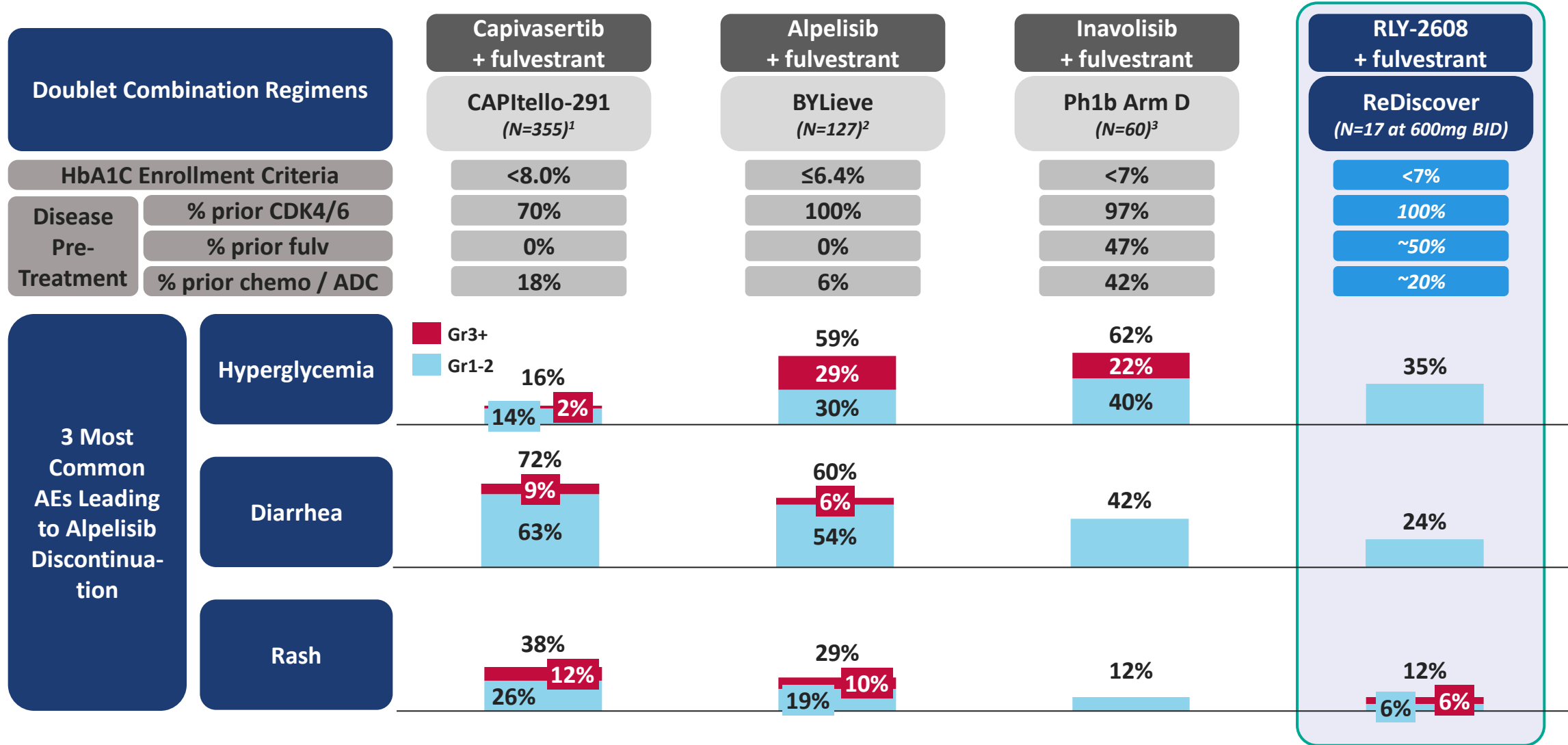
1. TEAEs that occurred in >=15% of the Breast Cancer Safety Set (N=43) are shown for both populations; 2. Hyperglycemia includes the MedDRA v26.0 Preferred Terms (PT): Hyperglycemia and Blood Glucose Increased, Fatigue includes the PTs: Fatigue and Asthenia.



RLY-2608 – Safety Profiles of Existing PI3K α Pathway Compounds

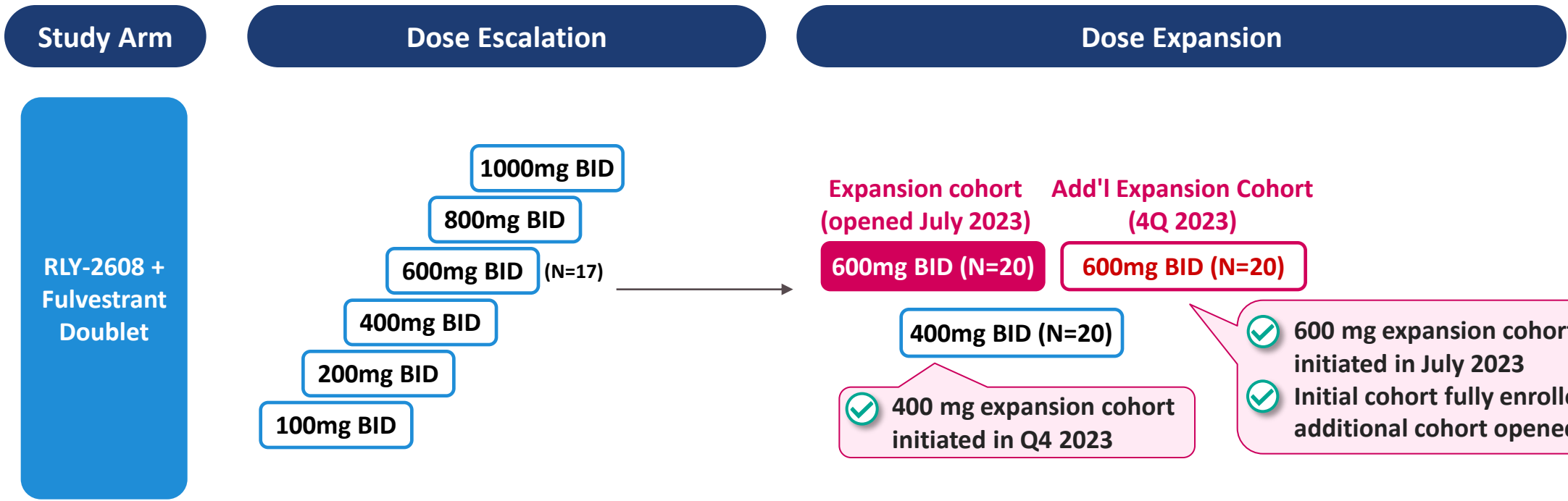
Data below are not from head-to-head studies.

Cross-trial data interpretation should be considered with caution as it is limited by differences in study population and many other factors.



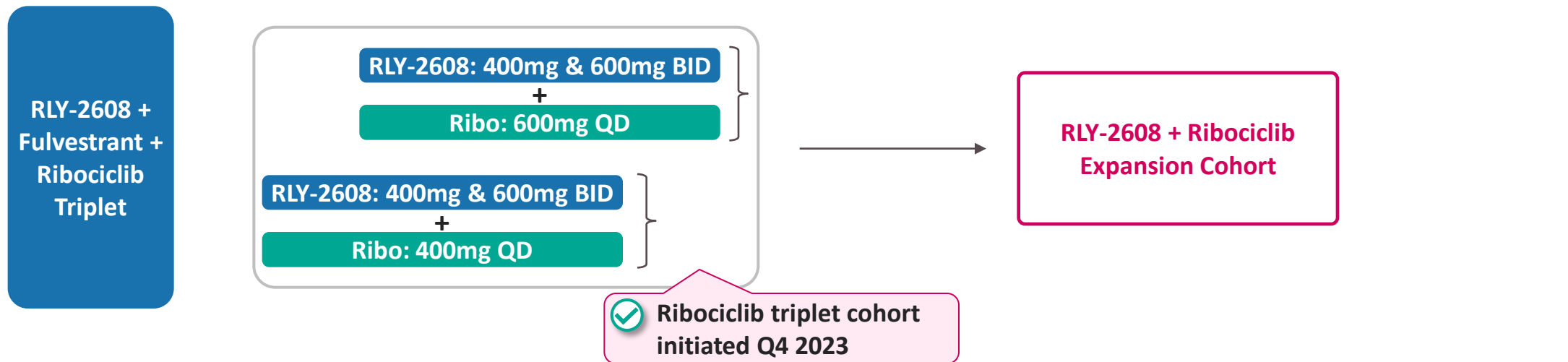
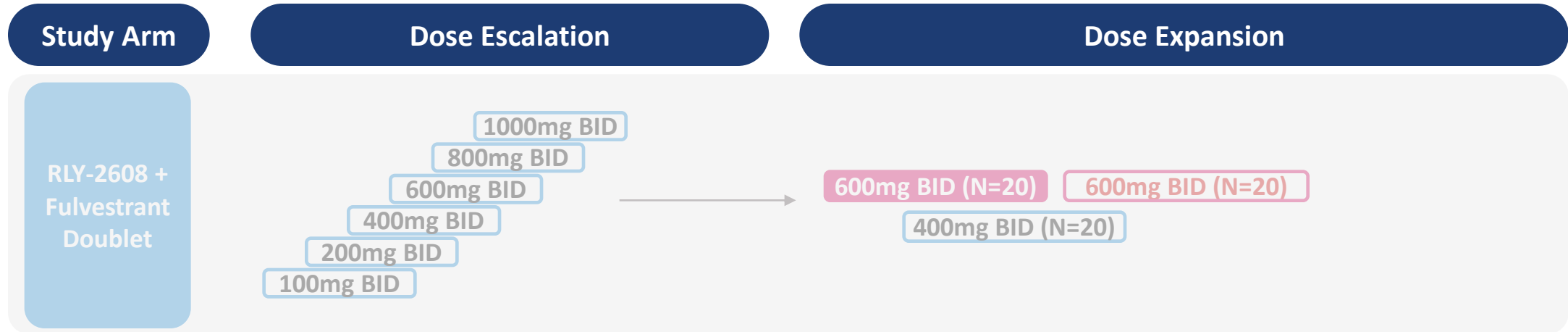
Sources: 1. Turner N Engl J Med 2023; 388:2058-2070; 2. Rugo 2021 Lancet Oncol 22:489; 3. SABCS 2021 #P5-17-05; * For PIK3CAmut HR+/HER2- breast cancer in combination with fulvestrant; Note: These data are derived from different clinical trials at different points in time, with differences in trial design and patient populations. As a result, cross-trial comparisons cannot be made, and no head-to-head clinical trials have been conducted.

RLY-2608 – ReDiscover Combination Trial Design



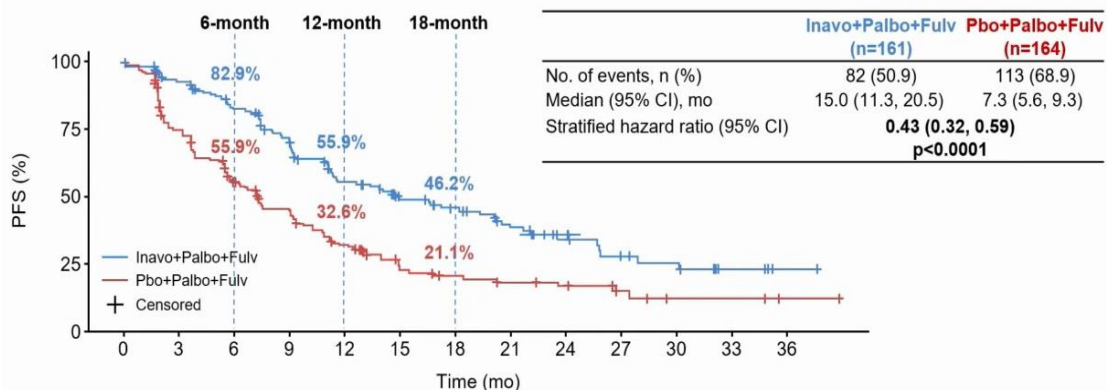
Next RLY-2608 doublet data to be disclosed in 2H 2024 after further data maturation

RLY-2608 – ReDiscover Combination Trial Design



Initial ribociclib triplet safety data to be disclosed in 2H 2024

Inavolisib + Palbociclib + Fulvestrant doubled PFS vs. Fulvestrant + Palbociclib Alone

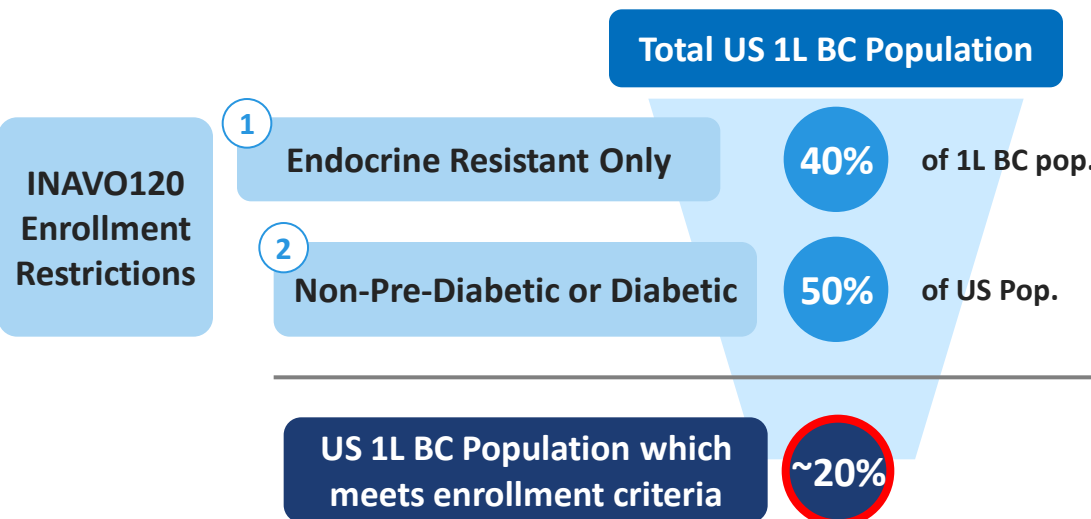


15.0mo mPFS
Vs. 7.3mo pbo

HR: 0.43

Demonstrated manageable safety in heavily selected, metabolically stable patient population

However, INAVO120 Ph 3 Trial Included Only a Subset of 1L HR+/HER2- Breast Cancer



Metabolically selected patients limit market size

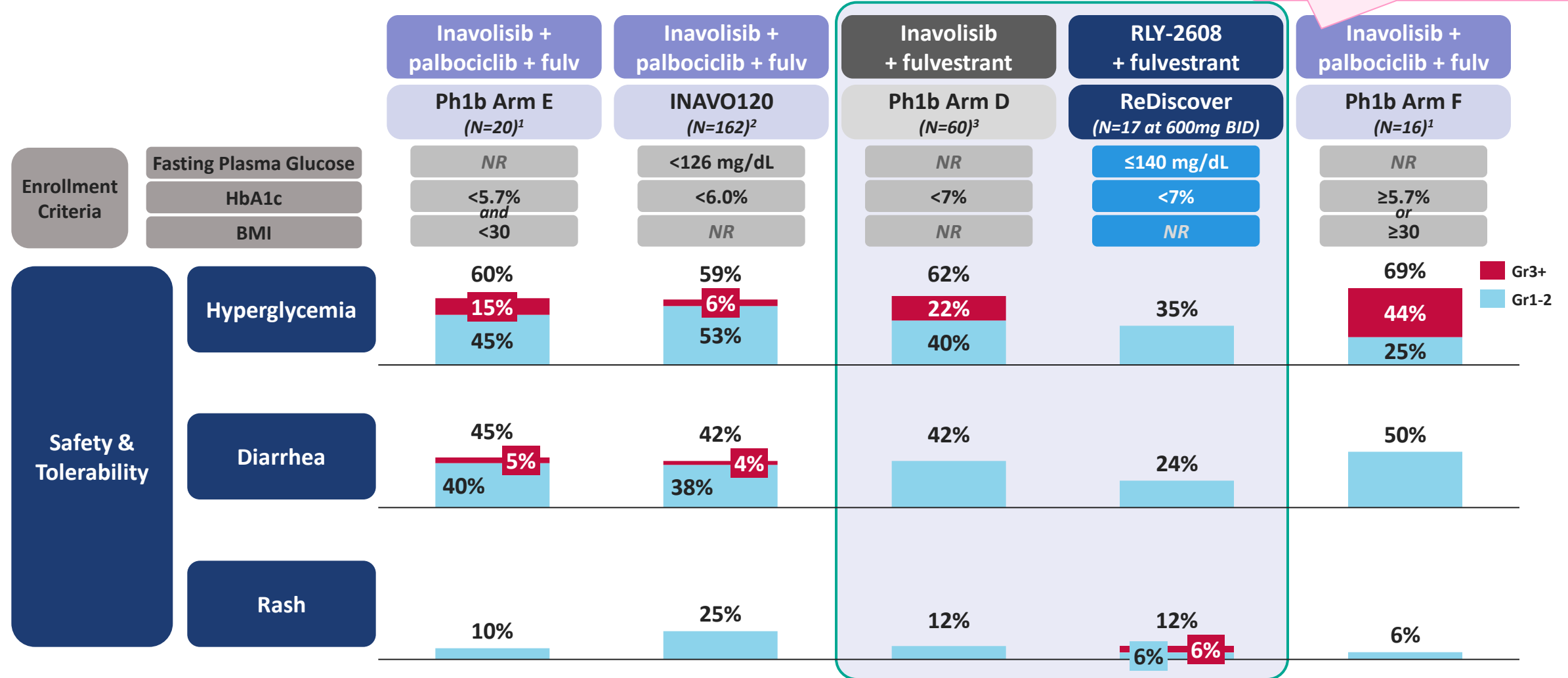


RLY-2608 – Safety Profiles of Existing PI3K α Pathway Compounds

Data below are not from head-to-head studies.

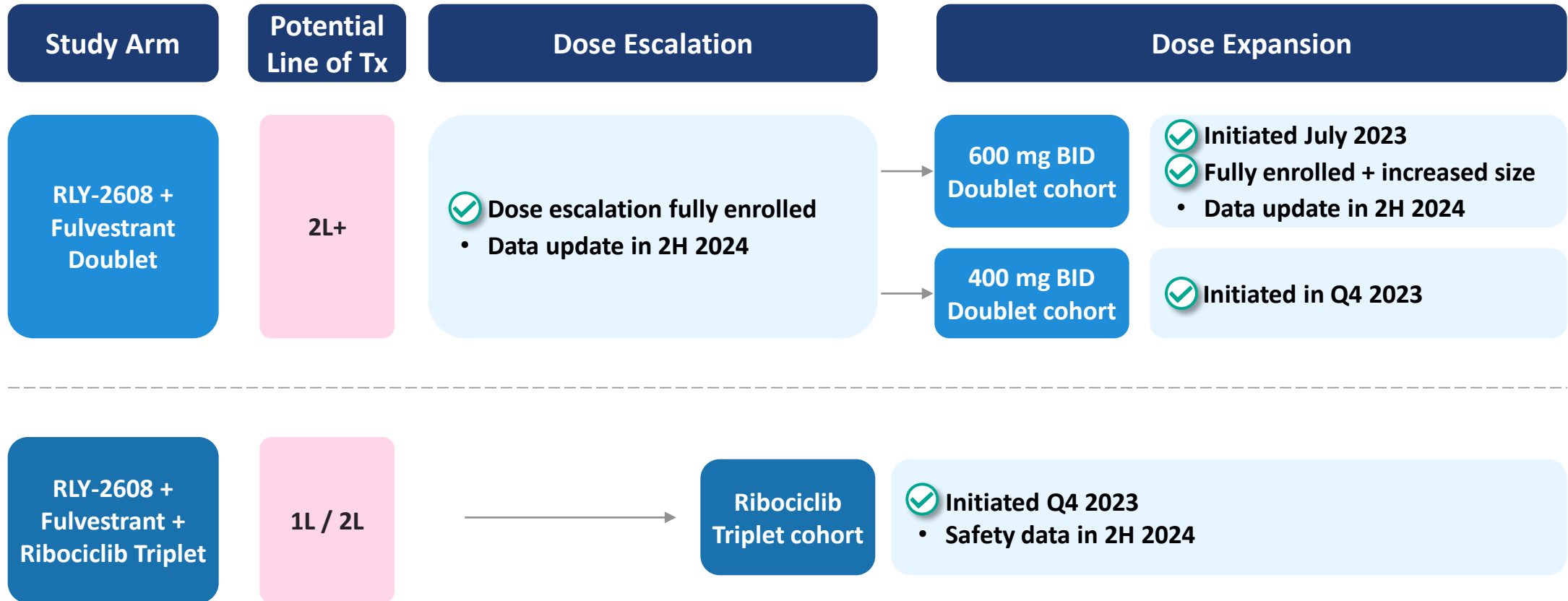
Cross-trial data interpretation should be considered with caution as it is limited by differences in study population and many other factors.

Arm F: Patients administered prophylactic metformin per protocol



Sources: 1. SABCS 2020 #PS-11-11; 2. SABCS 2023 GS03-13; 3. SABCS 2021 #PS-17-05
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RLY-2608 – ReDiscover Milestones



Next RLY-2608 data update in 2H 2024

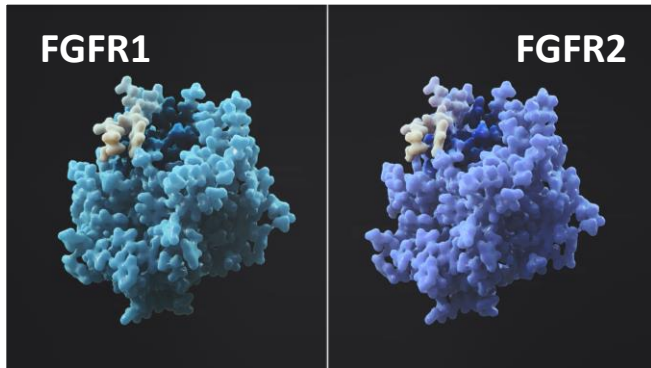
Relay Tx – Broad Precision Medicine Pipeline



Target	Program	Preclinical	Early Clinical	Late Clinical
PI3K α franchise	Monotherapy	[Progress bar]		
	RLY-2608 PI3K α ^{PAN} Endocrine Tx (ET) doublet	[Progress bar]		
	CDK4/6i + ET triplet	[Progress bar]		
	RLY-5836 (PI3K α ^{PAN}) Dose Escalation	Deprioritized		
	PI3K α ^{H1047R}	[Progress bar]		
FGFR2	Lirafugratinib (RLY-4008)	[Progress bar]		
Solid Tumor	2 programs	[Progress bar]		
Genetic Disease	2 programs	[Progress bar]		
CDK2	RLY-2139	Paused; IND ready		
ER α	ER α Degradar	Paused at DC		
SHP2	Migoprotafib (GDC-1971) Genentech <small>A Member of the Roche Group</small>	3 ongoing combo studies		

FGFR2 – Limitations of Current CCA and Non-CCA Treatment Options

FGFR1-4 static structures look the same



No FGFR2-targeted therapy available

Pan-FGFRi's lead to high rates of off-target toxicity, esp. for FGFR1,4

FDA Approved Compound ¹	% of Patients with Hyperphosphatemia	% of Patients with Diarrhea
Pemigatinib	93%	39%
Futibatinib	88%	33%
Erdafitinib	71%	59%

Chemo and other late line therapies also have high rates of AEs and dose modifications

Efficacy limited by off-target tox

CCA

36-42% ORR in currently approved tx¹
(in fusion+ CCA, FGFRi-naïve pt)

Non-CCA Solid Tumors

0-15% ORR in approved late-line tx²
(based on NCCN guidelines)

mPFS 1-5mo in non-CCA solid tumors

1. Sources: Pemigatinib – prescribing information; futibatinib – prescribing information; erdafitinib – prescribing information; (note: AEs are reflective of respective label indications); 2. Reflects reported ORRs in key randomized studies evaluating NCCN recommended regimens for recurrent/metastatic patients (second/third line or later) for the following tumor types: HR+ breast cancer, gastric cancer, pancreatic cancer, NSCLC, ovarian cancer, and head and neck

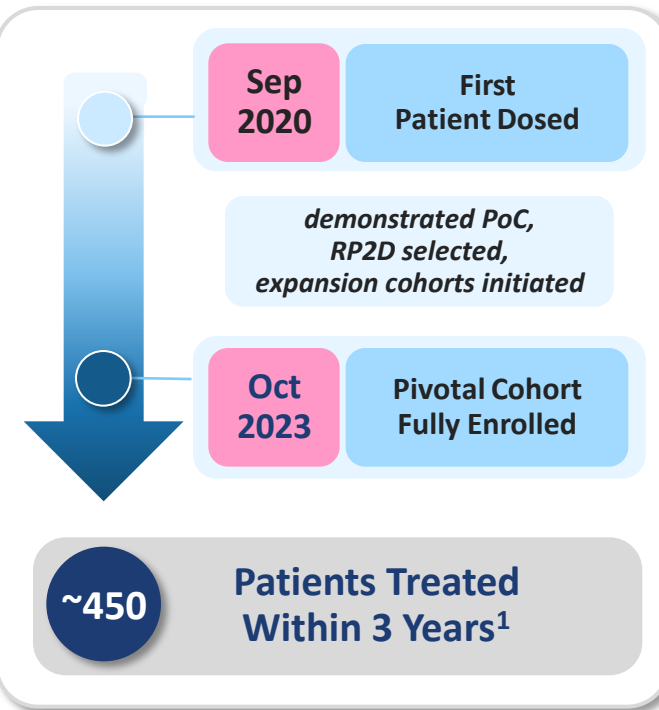
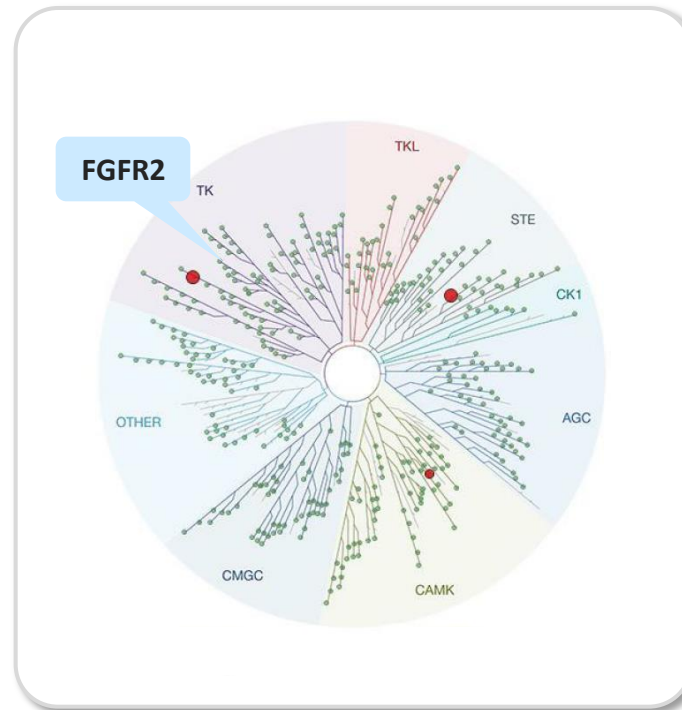
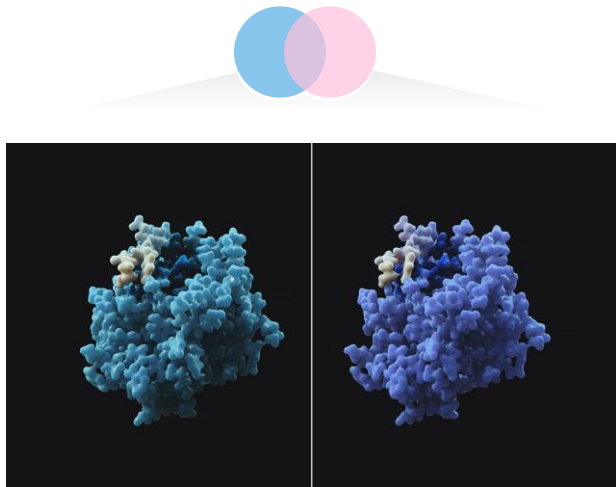
Lirafugratinib (RLY-4008) – Embodies The Power of Our R&D Engine

Motion Based Drug Design...

...Created First Known Selective FGFR2

Strong Clinical Execution Drives Rapid Pathway to Potential Registration

Relay Approach



1. RLY-4008-101 treated patient total as of 29 Sept 2023
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Relay Tx – Broad Precision Medicine Pipeline



Target	Program	Preclinical	Early Clinical	Late Clinical
PI3K α franchise	Monotherapy	[Progress bar]		
	RLY-2608 PI3K α ^{PAN} Endocrine Tx (ET) doublet	[Progress bar]		
	CDK4/6i + ET triplet	[Progress bar]		
	RLY-5836 (PI3K α ^{PAN}) Dose Escalation	Deprioritized		
	PI3K α ^{H1047R}	[Progress bar]		
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CDK2	RLY-2139	Paused; IND ready		
ER α	ER α Degradar	Paused at DC		
SHP2	Migoprotafib (GDC-1971) Genentech <small>A Member of the Roche Group</small>	3 ongoing combo studies		

SHP2 – Genentech Global Collaboration for Migoprotafib (GDC-1971)



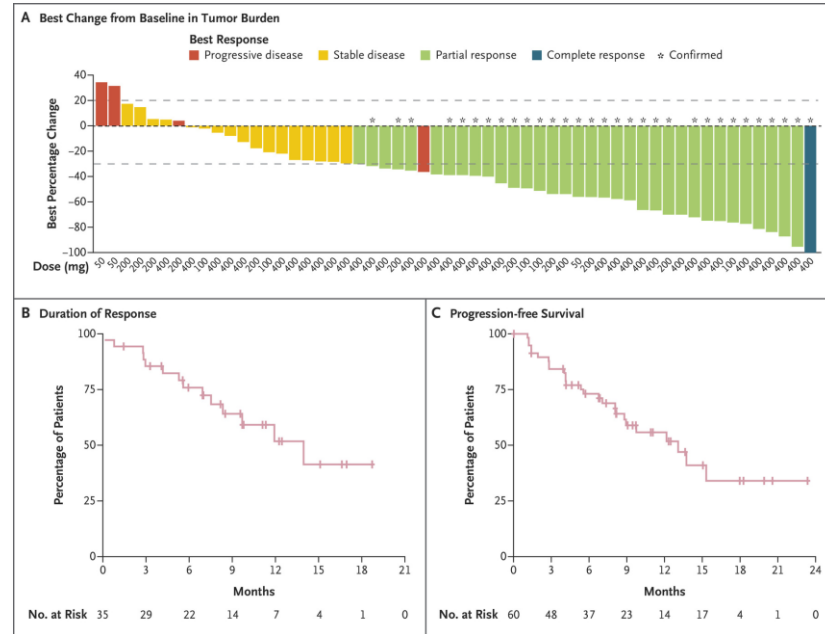
Three ongoing trials with migoprotafib

Migoprotafib
+
GDC-6036 (KRAS G12Ci)
initiated July 2021

Migoprotafib
+
Atezolizumab (PD-L1 Ab)
initiated August 2022

Migoprotafib
+
Osimertinib/Cetuximab (EGFRi)
initiated July 2023

Clinical Update for GDC-6036 Monotherapy in 2L NSCLC



ORR: 61% (35/58 patients, across doses, 53% cORR)
mPFS: 13.7mo, mDoR: 11.9mo (39 pts at 400mg)

Collaboration provides meaningful economics to Relay Tx¹

Source: Sacher 2023 N Engl J Med 389:710

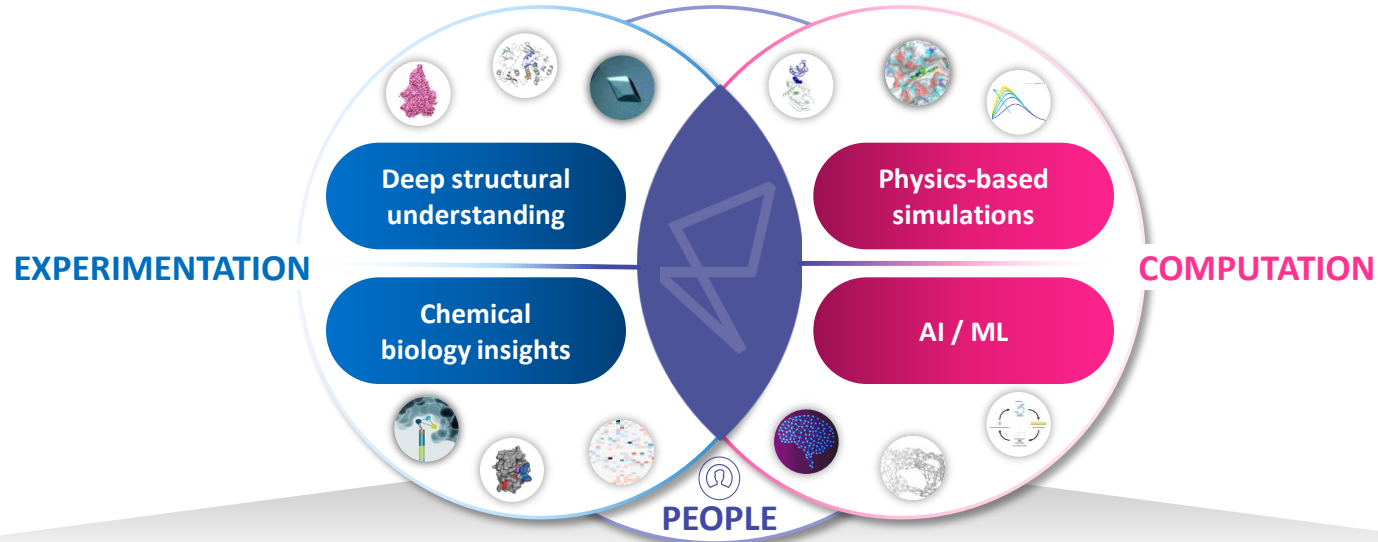
1. As of the date of this presentation: \$120 million in upfront & milestone payments received, and eligible to receive up to \$675M in potential additional total milestones, low-to-mid teen royalties on global net sales plus additional royalties upon approval of GDC-1971 and GDC-6036 in combination

Relay Tx – Broad Precision Medicine Pipeline



Target	Program	Preclinical	Early Clinical	Late Clinical
PI3K α franchise	Monotherapy	[Progress bar]		
	RLY-2608 PI3K α ^{PAN} Endocrine Tx (ET) doublet	[Progress bar]		
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SHP2	Migoprotafib (GDC-1971) Genentech <small>A Member of the Roche Group</small>	3 ongoing combo studies		

Relay Tx – Productive and Evolving Platform



Already Productive Platform...

IND	Compound	Achievement
2019	Migoprotafib ¹ (SHP2)	Partnered with GNE
2020	Lirafugratinib ² (FGFR2)	Enrolled ~450+ pt
2021	RLY-2608 (PI3K α)	Clinical POC
2022	RLY-5836 (PI3K α)	Clinical Start
2023	RLY-2139 (CDK2)	IND Ready



...Potential To Generate More Assets In Future

Pipeline	7+ pre-clinical programs
TAs	Oncology and Genetic Disease
Modalities	Inhibitors, chaperones and degraders
Platform	Expansion of integrated tools & capabilities

Relay Tx – Broad Precision Medicine Pipeline



Target	Program	Preclinical	Early Clinical	Late Clinical	Annual US Patient #
PI3K α franchise	Monotherapy	[Progress bar]			~10-71K breast cancer ~76-243K all solid tumors
	RLY-2608 PI3K α ^{PAN} Endocrine Tx (ET) doublet	[Progress bar]			
	CDK4/6i + ET triplet	[Progress bar]			
	RLY-5836 (PI3K α ^{PAN}) Dose Escalation	Deprioritized			
	PI3K α ^{H1047R}	[Progress bar]			~4-27K breast cancer ~15-50K all solid tumors
FGFR2	Lirafugratinib (RLY-4008)	[Progress bar]			~11-35K ⁴
Solid Tumor	2 programs	[Progress bar]			To be announced
Genetic Disease	2 programs	[Progress bar]			To be announced
CDK2	RLY-2139	Paused; IND ready			~35K ²
ER α	RLY-1013 (Degradar)	Paused at DC			~30-205K ³
SHP2	Migoprotafib (GDC-1971) Genentech <small>A Member of the Roche Group</small>	3 ongoing combo studies			~36-69K ⁵

Note: Unless otherwise indicated, patient #'s refer to total annual number of US patients with late-line cancers compared to comprehensive annual incidence that may be amenable to treatment with our programs

1. Unless otherwise indicated, all breast cancer patient numbers refer to HR+/HER2- breast cancer tumors; 2. ~35K HR+/HER2- breast cancer patients expected to receive CDK 4/6 inhibitors in adjuvant setting, first-line setting, and second-line setting in 2024, per Decision Resources Breast Cancer Market Forecast report dated November 2023; 3. HR+/HER2- US late-line breast cancer patients compared to HR+/HER2- US incident breast cancer patients; 4. FGFR2 altered late-line solid tumors compared to comprehensive annual FGFR2 altered incident solid tumors including additional FGFR gene fusions and rearrangements resulting from truncation of the protein at exon 18 and all breast cancer patients with FGFR2 alterations; 5. SHP2 combo only includes KRAS G12C in lung and colorectal, EGFR mutations in lung, and ALK fusions in lung

2024 Corporate Objectives

RLY-2608 Doublet
(PI3K α)

- Additional clinical data in 2H 2024

RLY-2608 Triplet
(PI3K α)

- ✓ Ribociclib triplet initiation in Q4 2023
- Ribociclib triplet safety data in 2H 2024

Lirafugratibnib (RLY-4008)
(FGFR2)

- Tumor agnostic data and regulatory update in 2H 2024

Pre-clinical Pipeline
(Targets unnamed)

- New program(s) to be disclosed in 2024
- 7+ undisclosed programs in preclinical development and additional early-stage efforts across platform

Migoprotafib (GDC-1971)
(SHP2)



- Three ongoing combination trials
**Genentech controls data disclosures*

Goal is a first- or best-in-class profile

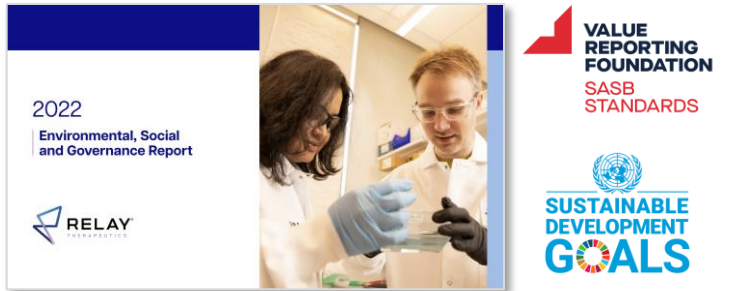
Significant Capital to Achieve Goals

~\$750M

Cash, cash equivalents and investments as of the end of 1Q 2024

Expected to be sufficient to fund current operating plan into 2H 2026

Relay Tx's 2nd ESG Annual Report



Patients

4 clinical programs

Committed to clinical trial patient safety

Committed to product safety and quality

Note: Relay Tx is a development stage company

Community



Our patients / future patients



Our community in Cambridge and the broader Boston area



The next generation of scientists

People

93% of employee respondents "would recommend Relay Tx as a great place to work"

Turnover below industry average rates

Diversity & inclusion advisory group

Training and development opportunities

Equitable compensation

Environment



Responsible energy consumption*



Reducing water consumption



Hazardous and lab waste management



Non-hazardous waste management

*Efforts to reduce energy consumption lend to our ambitions to limit carbon emissions

Governance

8 Directors Total*

38%
Racial/Ethnic Diversity

38%
Women

The Nom/Gov and Audit Committees oversee ESG efforts, with the full BOD getting ~quarterly updates

5yrs
Average Tenure

88%
Independence
(Separate CEO and Chair Role)

*As of December 2022



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THERAPEUTICS