

# One Mission, Inspired by Patients: Defeat Cancer.™

March 2023



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incurrence of significant operating losses since our inception and our expectation that we will incur continued losses for the foreseeable future and may never achieve or maintain profitability, our ability to raise capital when needed, our reliance on third parties to conduct our clinical trials and preclinical studies, our reliance on third parties for the manufacture of our drug candidates for preclinical testing and clinical trials, and for the manufacture of QINLOCK for commercialization and clinical trials, and our ability to enforce our intellectual property rights throughout the world. New risk factors and uncertainties may emerge from time to time, and it is not possible to predict all risk factors and uncertainties. There can be no assurance that the opportunity will meet your investment objectives, that you will receive a return of all or part of such investment. Investment results may vary significantly over any given time period. The appropriateness of a particular investment or strategy will depend on an investor's individual circumstances and objectives. Investors should independently evaluate specific investments. For further information regarding these risks, uncertainties and other factors, you should read the "Risk Factors" section of Deciphera's Annual Report on Form 10-K for the quarter and year ended December 31, 2022 filed with the Securities and Exchange Commission (the "SEC"), and Deciphera's other SEC filings.

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# ONE MISSION, INSPIRED BY PATIENTS: DEFEAT CANCER™

Executing on our mission to discover, develop, and commercialize important new medicines to **improve the lives of people with cancer.**



**Over \$1 Billion**

**Peak Worldwide Sales** Potential for QINLOCK and Vimseltinib

**Two Phase 3 Programs**

**MOTION Topline Data** and INSIGHT Initiation Planned for 2023

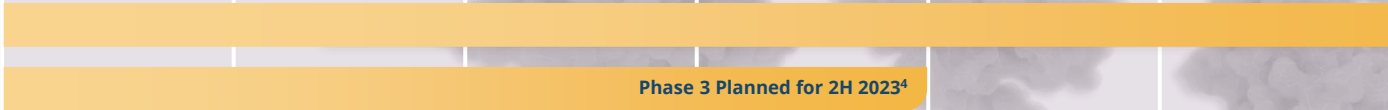


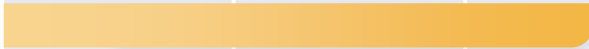
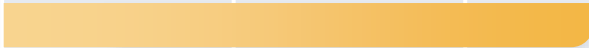






**Potential First-in-Class Autophagy Program**

**Multi-billion Dollar Opportunity** Targeting Autophagy

**Proven Discovery Engine**

**High-Value Research Pipeline** of Switch-control Kinase Inhibitors

# ROBUST PIPELINE OF SWITCH-CONTROL KINASE INHIBITORS

		RESEARCH	IND- ENABLING	PHASE 1	PHASE 1/2	PHASE 3	REGULATORY SUBMISSION	APPROVED
<b>QINLOCK<sup>1</sup></b> (ripretinib) 50mg tablets KIT Inhibitor	GIST ≥4 <sup>th</sup> Line	  + Global Approvals <sup>3</sup>						
	GIST 2 <sup>nd</sup> Line KIT Exon 11 + 17/18 (INSIGHT Phase 3 Study) <sup>2</sup>							
<b>Vimseltinib</b> CSF1R Inhibitor	TGCT (MOTION Phase 3 Study)							
	TGCT (Phase 1/2 Study)							
<b>DCC-3116</b> ULK Inhibitor	+ MEK Inhibitors (Trametinib or Binimetinib)	   						
	+ KRAS <sup>G12C</sup> Inhibitor (Sotorasib)							
	+ BRAF inhibitor / EGFR inhibitor (Encorafenib / Cetuximab)							
	+ KIT Inhibitor (QINLOCK)							
<b>DCC-3084</b> Pan-RAF Inhibitor	Solid Tumors and Hematologic Malignancies							
<b>Additional Programs</b>	DCC-3009 (Pan-KIT Inhibitor)							
	Integrated Stress Response Program							
	VPS34 Program <sup>5</sup>							

## STRATEGIC PRIORITIES FOR 2023

**QINLOCK®**

- Initiate INSIGHT Phase 3 study in 2L KIT exon 11+17/18 GIST patients
- Drive continued 4L adoption in US and expansion in key European markets

**Vimseltinib**

- Announce top-line results from the MOTION Phase 3 study
- Present longer-term follow up from Phase 1/2 study

**DCC-3116**

- Initiate one or more MEK/G12C expansion cohorts in the Phase 1/2 study
- Initiate new combination study with encorafenib/cetuximab

**DCC-3084**

- Submit IND to FDA

**Proprietary Drug Discovery Platform**

- Nominate development candidate for pan-KIT inhibitor

# QINLOCK<sup>®</sup> (ripretinib)





# FIRST APPROVED TKI DESIGNED SPECIFICALLY FOR GIST



## HIGHLY SUCCESSFUL U.S. LAUNCH

Clear standard-of-care in the U.S. for 4L setting across all mutational profiles

## CONTINUED GEOGRAPHIC EXPANSION IN KEY EUROPEAN MARKETS

Strong momentum driven by launch in Germany and the post-approval paid-access program in France

## NEW PIVOTAL PHASE 3 INSIGHT STUDY PLANNED

Study supported by compelling activity seen in ctDNA analysis in 2L GIST patients with mutations in KIT exon 11+17/18



**Notes:** Full prescribing information is available at [www.QINLOCK.com](http://www.QINLOCK.com); 2L=second-line; 4L=fourth-line; ctDNA=circulating tumor deoxyribonucleic acid; GIST=gastrointestinal stromal tumor; KIT=KIT proto-oncogene receptor tyrosine kinase; TKI=Tyrosine kinase inhibitor;

# SIGNIFICANT UNMET MEDICAL NEED POST-IMATINIB REMAINS

**Estimated U.S. Incidence of GIST: 4,000-6,000<sup>1</sup>**



1L therapy  
**Imatinib<sup>2</sup>**

**18.9**  
months mPFS\*

**51.4%**  
ORR

**49.0**  
months mOS\*

\*Results for imatinib 400 mg.  
This study compared imatinib  
400 mg to imatinib 800 mg.<sup>3</sup>

2L therapy  
**Sunitinib<sup>4,5</sup>**

**5.6**  
months mPFS  
HR=0.33

**6.8%**  
ORR

**17.0**  
months mOS  
HR=0.87

**~2,000**  
U.S. incident patients  
eligible for treatment<sup>6</sup>

3L therapy  
**Regorafenib<sup>7</sup>**

**4.8**  
months mPFS  
HR=0.27

**4.5%**  
ORR

**17.4**  
months mOS  
HR=0.91

**~1,400-1,600**  
U.S. incident patients  
eligible for treatment<sup>6</sup>

4L therapy<sup>8</sup>  
**QINLOCK<sup>®</sup>**  
(ripretinib) 50 mg tablets

**6.3**  
months mPFS  
HR=0.16<sup>9</sup>

**11.8%**  
ORR<sup>9</sup>

**18.2**  
months mOS  
HR=0.41<sup>9</sup>

**~1,000-1,300**  
U.S. incident patients  
eligible for treatment<sup>6</sup>

*Avapritinib is approved in the U.S. for GIST patients with PDGFRA exon 18 mutations only,  
which are harbored by ~6% of patients with newly diagnosed GIST.<sup>10,11</sup>*

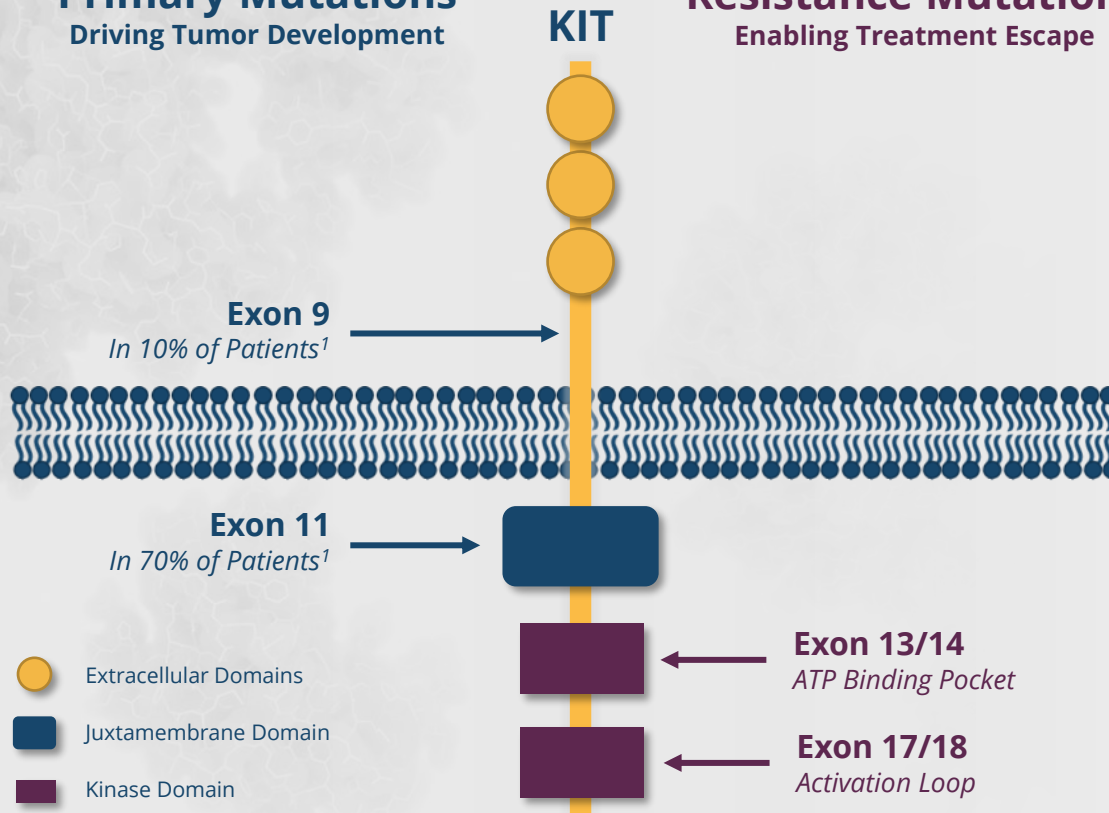


# PROGRESSION DRIVEN BY SECONDARY RESISTANCE MUTATIONS IN KIT

## KIT-DRIVEN MUTATIONS

### Primary Mutations Driving Tumor Development

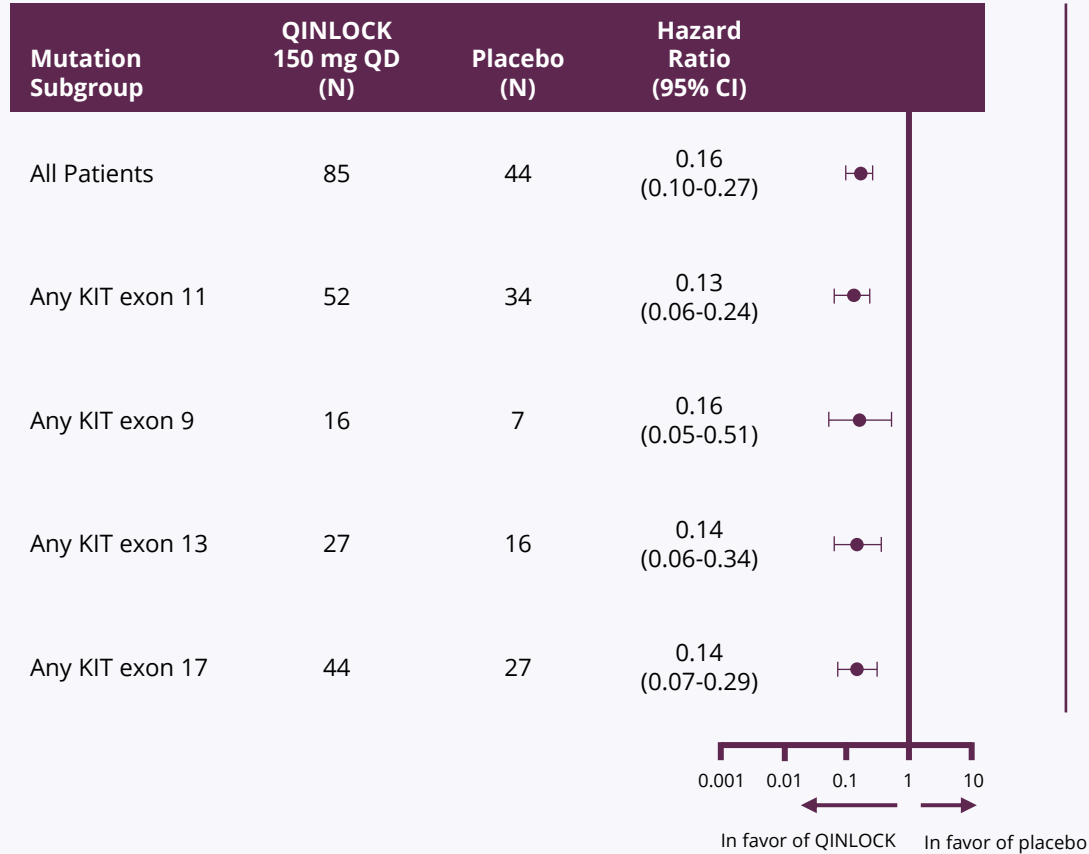
### Resistance Mutations Enabling Treatment Escape



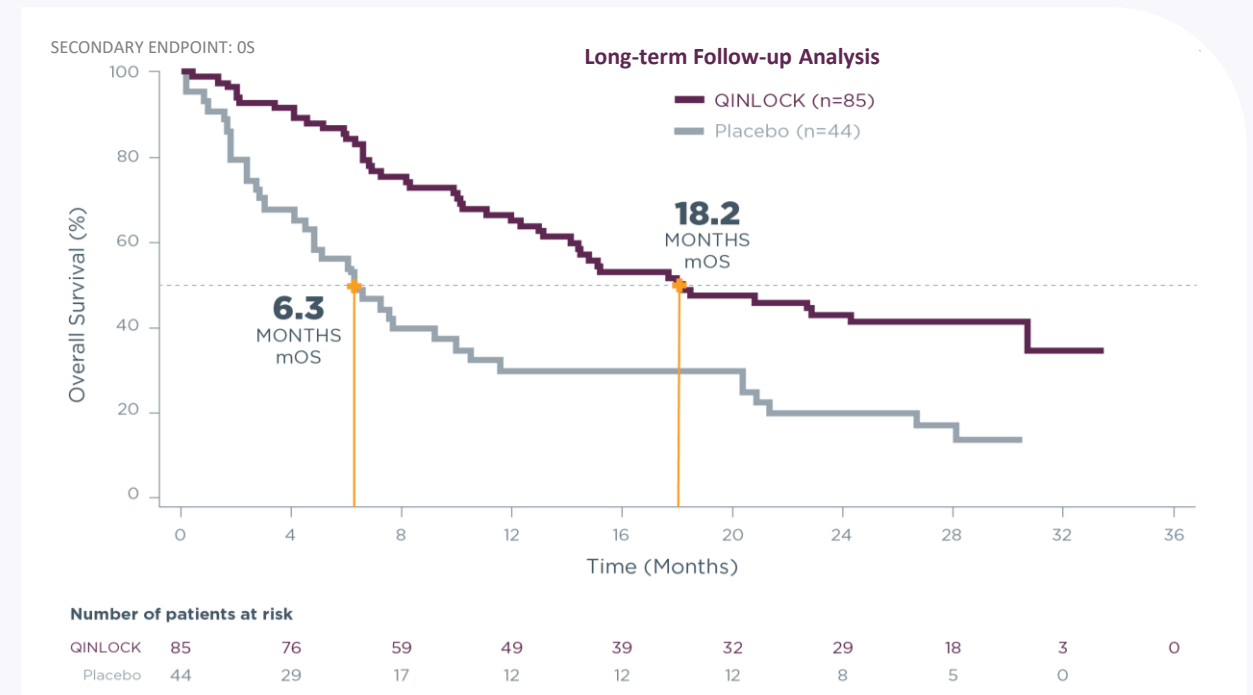
- Early disease is driven by primary mutations in KIT exons 11 or 9
- Imatinib-resistant disease is driven by secondary mutations in KIT exons 17/18 and/or exons 13/14

# INVICTUS (4L+): QINLOCK SHOWED BENEFIT IN ALL MUTATION SUBGROUPS

## Progression-Free Survival (INVICTUS 4L+)<sup>3</sup>

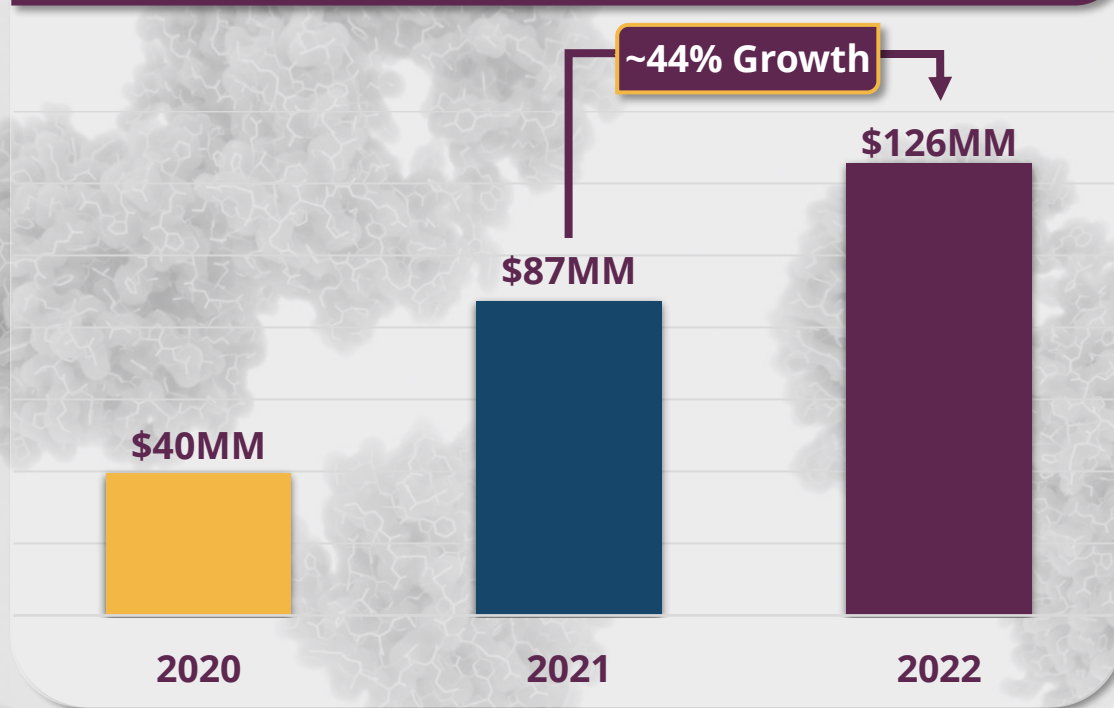


## Kaplan-Meier Plots of Overall Survival (INVICTUS 4L+)<sup>1,2</sup>



# SUCCESSFUL LAUNCH OF QINLOCK AROUND THE WORLD

## QINLOCK® Global Product Revenue



## 4Q 2022 Summary

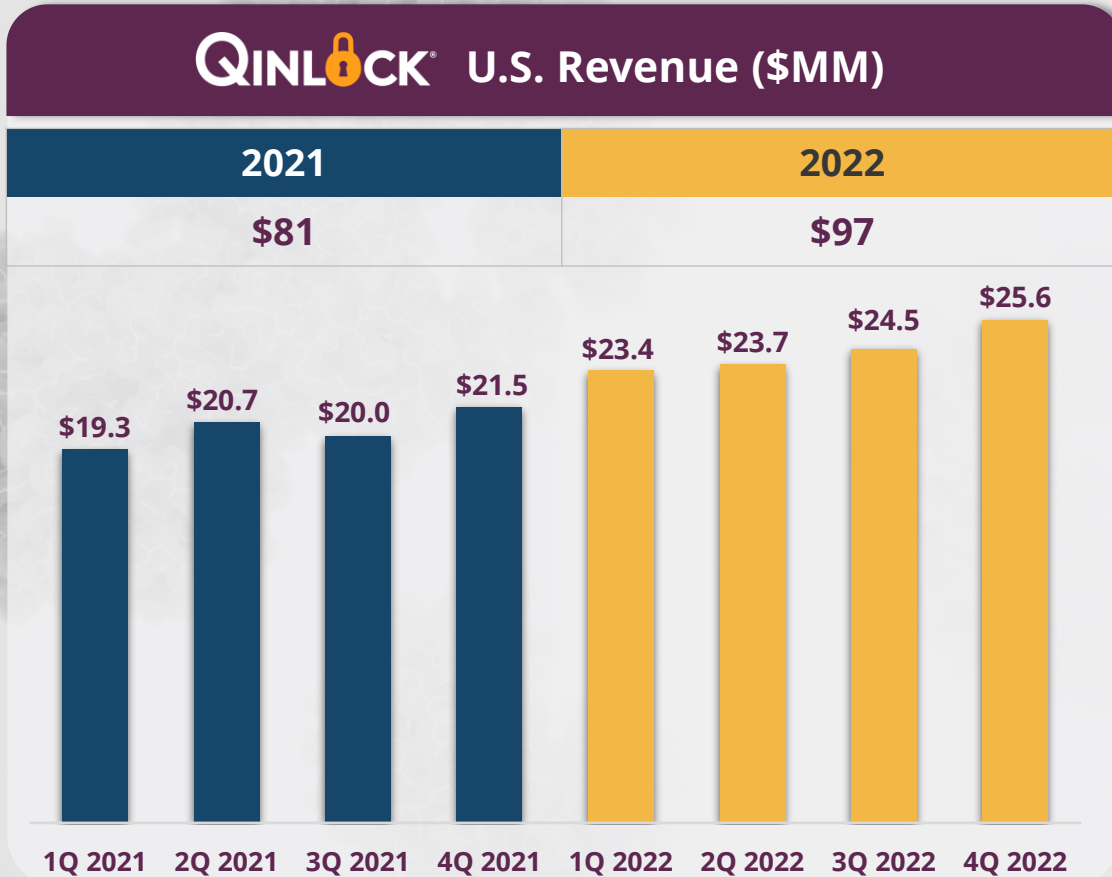
- Total revenue of **\$36.3MM** including:
  - QINLOCK product revenue: **\$32.9MM**
    - U.S. net product sales of **\$25.6MM**
    - International net product sales of **\$7.3MM<sup>1</sup>**
  - Collaboration revenue: **\$3.4MM**

## Potential Key 2023 Growth Drivers

- U.S. demand volume driven by expected gradual growth of average duration of therapy
- Continued geographic expansion in key European markets following pricing and reimbursement negotiations



# U.S. PRODUCT REVENUE GREW SIGNIFICANTLY YEAR-OVER-YEAR

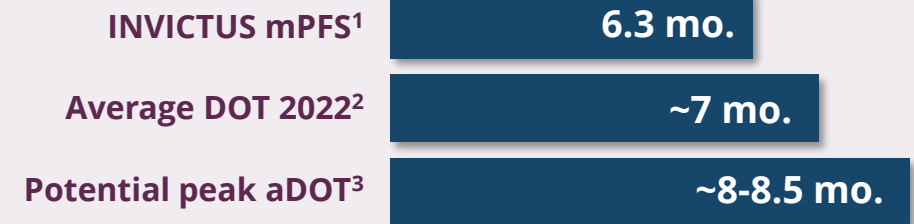


## ~20% YoY QINLOCK U.S. Revenue Growth

■ Volume Growth ■ Net Price Growth ■ Lower PAP %

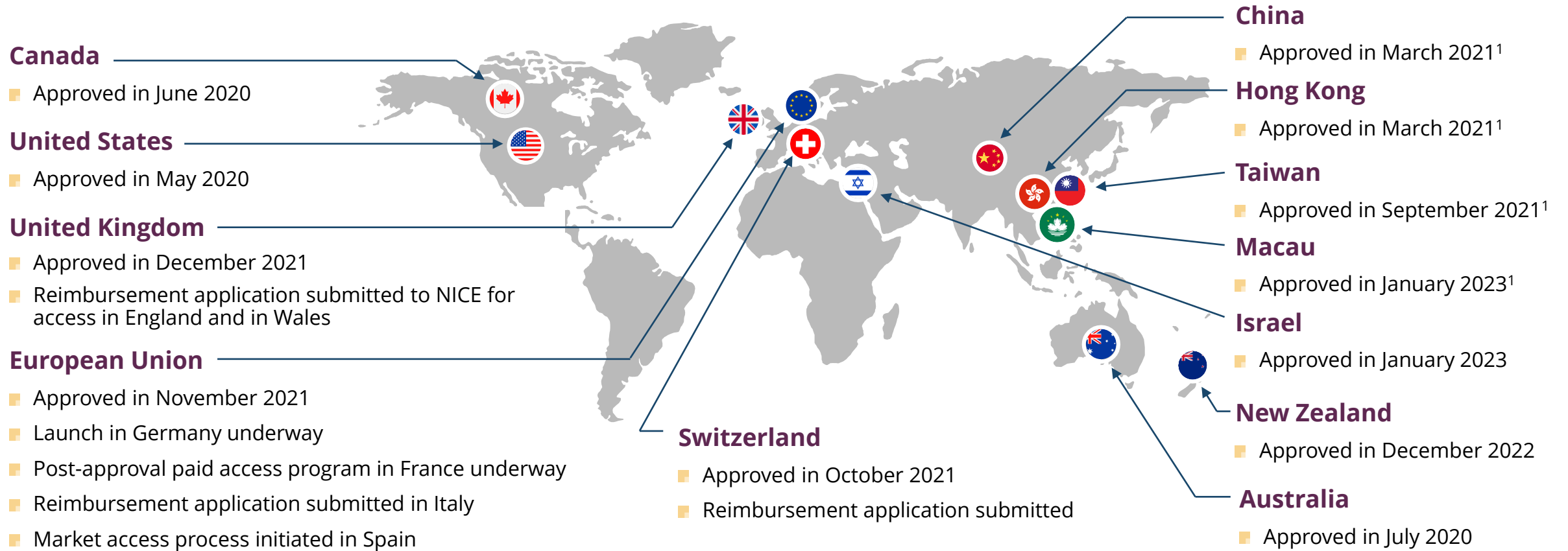


## QINLOCK Volume Growth Driven by Maturing Average DOT



# **QINLOCK** | 4<sup>TH</sup> LINE GASTROINTESTINAL STROMAL TUMOR (GIST) GLOBAL APPROVALS AND EXPANSION

Significant progress expanding QINLOCK access to 4<sup>th</sup> line GIST patients globally





| 4<sup>TH</sup> LINE GASTROINTESTINAL STROMAL TUMOR (GIST)

# STRONG LAUNCH IN EUROPE DELIVERING A TOTAL OF \$28.3MM IN 2022 INTERNATIONAL NET PRODUCT REVENUE



## Fast Patient Access

- Immediate access and reimbursement in Germany and post approval access program in France underway
- Ongoing discussions with NICE for England and Wales and with AIFA for Italy
- Market Access process initiated in Spain
- Infrastructure in place for named patient sales and/or paid access programs as permissible in other European countries



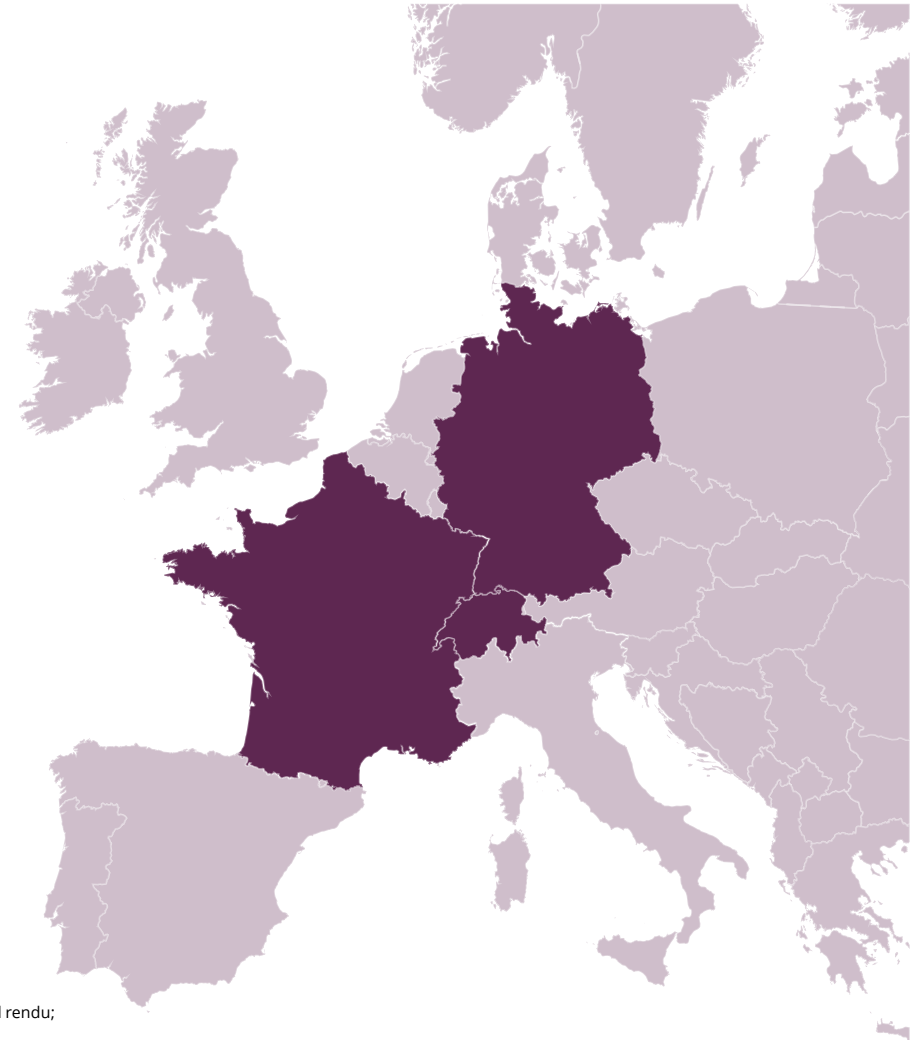
## Early Revenue Markets

- International QINLOCK net product revenue of \$28.3MM in 2022 driven by EU sales
- High demand in Germany and received a “major additional benefit” rating, the first orphan oncology treatment in Germany to receive this rating for its lead indication
- Received unanimous ASMR III rating in France



## Robust Opportunity

- Estimated GIST incidence in EU4 +UK comparable to the U.S.: 4,000–6,000 patients
- No other treatment options approved for 4<sup>th</sup> line GIST
- Broad experience with QINLOCK under early access program indicates urgent medical need



**Notes:** Reimbursement timelines in Europe differ among countries driven by local practices and local requirements; ASMR=amélioration du service médical rendu; EU4=France, Germany, Italy, and Spain; GIST=gastrointestinal stromal tumor; NICE=The National Institute for Health and Care Excellence.



# INTRIGUE STUDY TESTED SUPERIORITY IN 2L GIST POPULATION<sup>1</sup>

## INCLUSION CRITERIA

**Patients ≥18 years old with a confirmed diagnosis of GIST who progressed on or had documented intolerance to imatinib**

Patients were enrolled from 122 sites across North America, South America, Europe, Australia, and Asia

### Stratified by

- Mutational status:
  - *KIT* exon 11
  - *KIT* exon 9
  - *KIT/PDGFR* Wild Type
  - Other *KIT/PDGFR*
- Intolerance to imatinib

**1:1 Randomization  
Open label**

**QINLOCK 150 mg QD  
(continuous)**

**No crossover option**

**Sunitinib 50 mg QD  
(4 weeks on, 2 weeks off)**

### Primary endpoint

- PFS by IRR (using mRECIST v 1.1) in the *KIT* exon 11 ITT and AP ITT populations

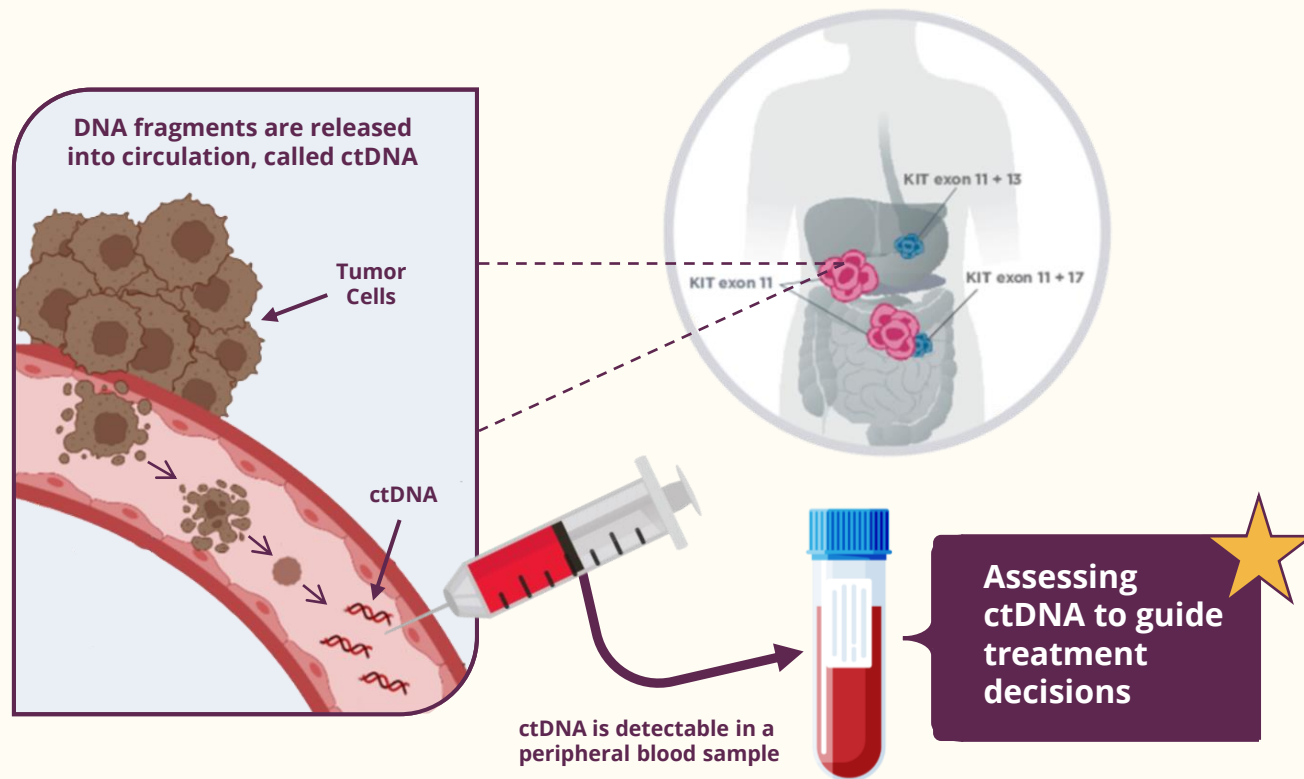
### Planned exploratory analysis

- Subgroup analysis for efficacy based on ctDNA mutation status

# INTRIGUE STUDY TUMOR TISSUE BIOPSY ANALYSIS BY PRIMARY MUTATION<sup>1</sup>

	QINLOCK n (events)	Sunitinib n (events)	mPFS QINLOCK (months)	mPFS Sunitinib (months)	Hazard Ratio (95% CI)
<b>Overall</b>	<b>226 (146)</b>	<b>227 (130)</b>	<b>8.0</b>	<b>8.3</b>	<b>1.05 (0.82, 1.33)</b>
<b>MUTATION TYPE</b>					
<b>KIT exon 11</b>	163 (100)	164 (98)	8.3	7.0	0.88 (0.67, 1.17)
<b>KIT exon 9</b>	31 (27)	29 (14)	5.5	13.8	2.85 (1.48, 5.48)
<b>KIT / PDGFRA Wild Type</b>	15 (9)	18 (10)	7.0	4.1	0.90 (0.36, 2.23)
<b>Other KIT / PDGFRA</b>	17 (10)	16 (8)	6.8	8.4	0.90 (0.35, 2.28)

## PRACTICE CHANGING POTENTIAL WITH ctDNA IN GIST

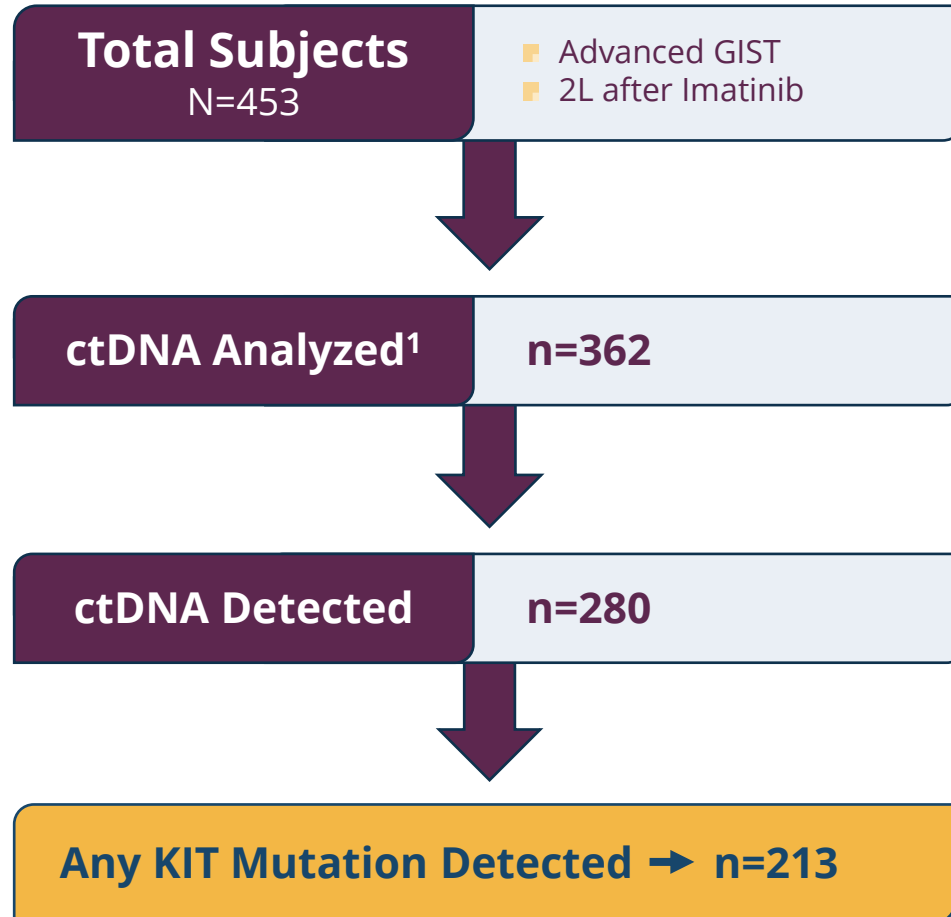


- ctDNA is rapidly being adopted in oncology to identify patients harboring sensitive mutations and to treat patients with precision medicines
- Tissue biopsies may not capture the full clonal heterogeneity of GIST
- ctDNA was collected at baseline in the INTRIGUE study as an exploratory analysis



# QINLOCK® | EXPLORATORY ANALYSIS OF INTRIGUE STUDY IN 2L GIST

## DETECTION OF BASELINE KIT/PDGFRA MUTATIONS



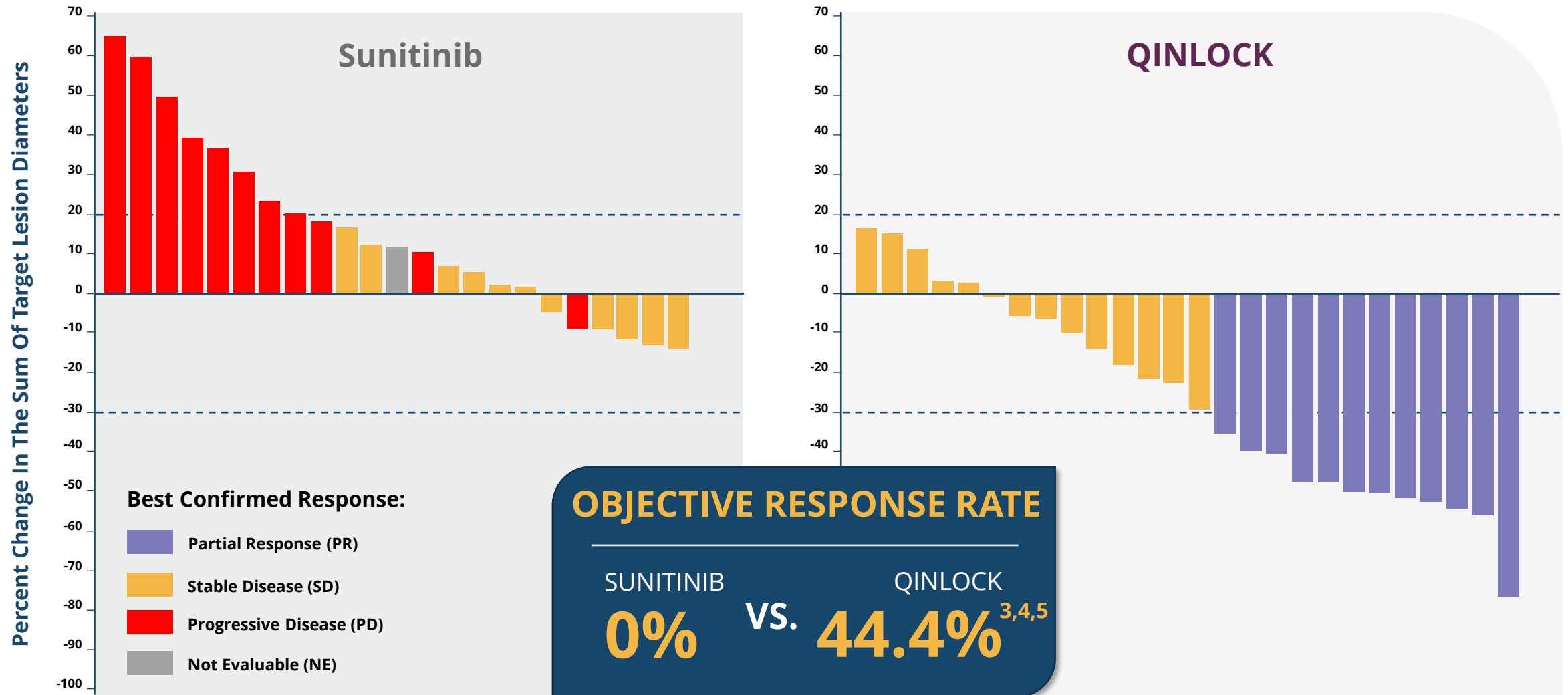
KIT Mutations Detected	
KIT Mutation Detected	213 / 362 (59%)
Any Exon 11	157 / 362 (43%)
Any Exon 9	36 / 362 (10%)
Any Exon 17/18 (Activation Loop)	89 / 362 (25%)
Any Exon 13/14 (ATP Binding Pocket)	81 / 362 (22%)

KIT Exon 11 Primary Mutation + Secondary Mutations	
Exon 11+17/18 <b>Only</b> (Activation Loop)	52 / 362 (14%)
Exon 11+13/14 <b>Only</b> (ATP Binding Pocket)	41 / 362 (11%)
Exon 11+13/14 <b>And</b> 17/18	22 / 362 (6%)



| EXPLORATORY ANALYSIS OF INTRIGUE STUDY IN 2L GIST

# IMPRESSIVE ORR FOR QINLOCK IN KIT EXON 11+17/18 PATIENTS<sup>1,2</sup>



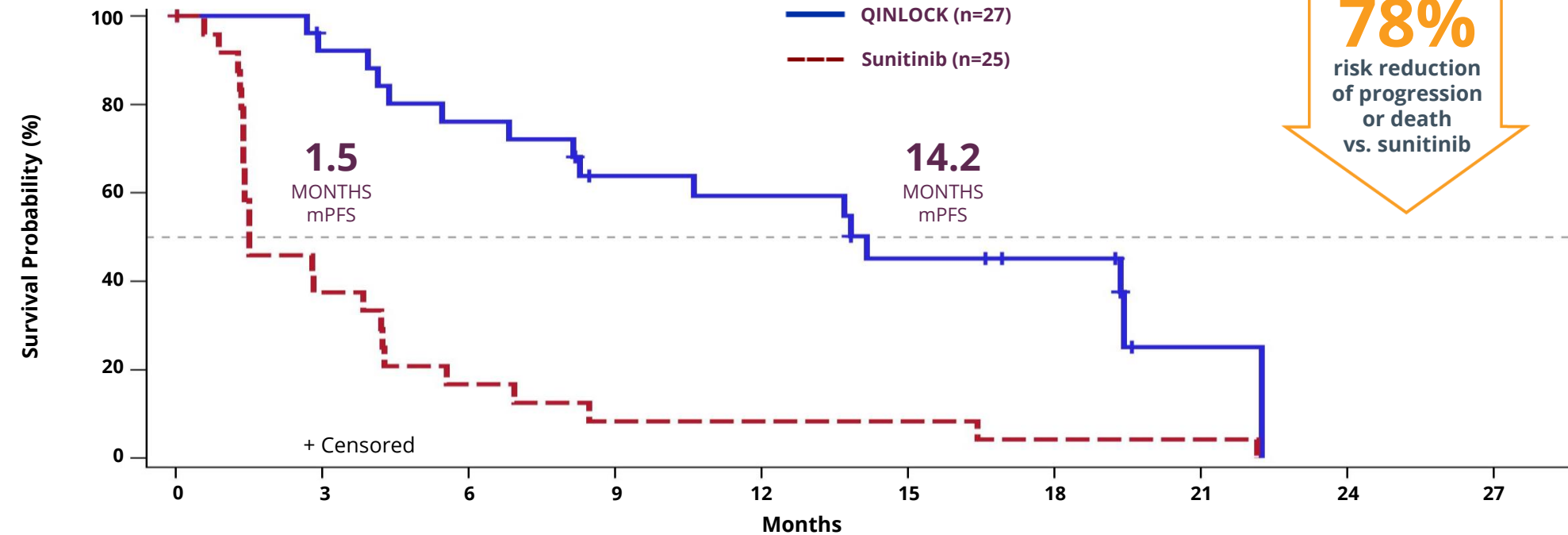
**Notes:** Data presented at the ASCO Plenary Series Session 2023; Full prescribing information is available at [www.QINLOCK.com](http://www.QINLOCK.com); Deciphera Data on File; 2L=second-line; (1) data cut off date of September 1, 2021; (2) for 2 patients in the sunitinib arm and 1 patient in the ripretinib arm, no postbaseline disease assessment was available; (3) ORR was confirmed with follow-up imaging; (4) determined using modified Response Evaluation Criteria in Solid Tumors (RECIST) 1.1 criteria; (5) response difference=44.4%, 95% CI (23.0, 62.7), nominal p value 0.0001.

# PFS STRONGLY FAVORS QINLOCK IN KIT EXON 11+17/18 PATIENTS<sup>1</sup>

## Progression-Free Survival

KIT exon 11+17/18

PRIMARY ENDPOINT: PFS



Number of Patients at Risk:

QINLOCK	27	23	19	14	13	9	7	1	0
Sunitinib	25	9	4	2	2	2	1	1	0

(median PFS of 14.2 months vs. 1.5 months; HR=0.22, 95% CI [0.11-0.44], nominal p value <0.0001)

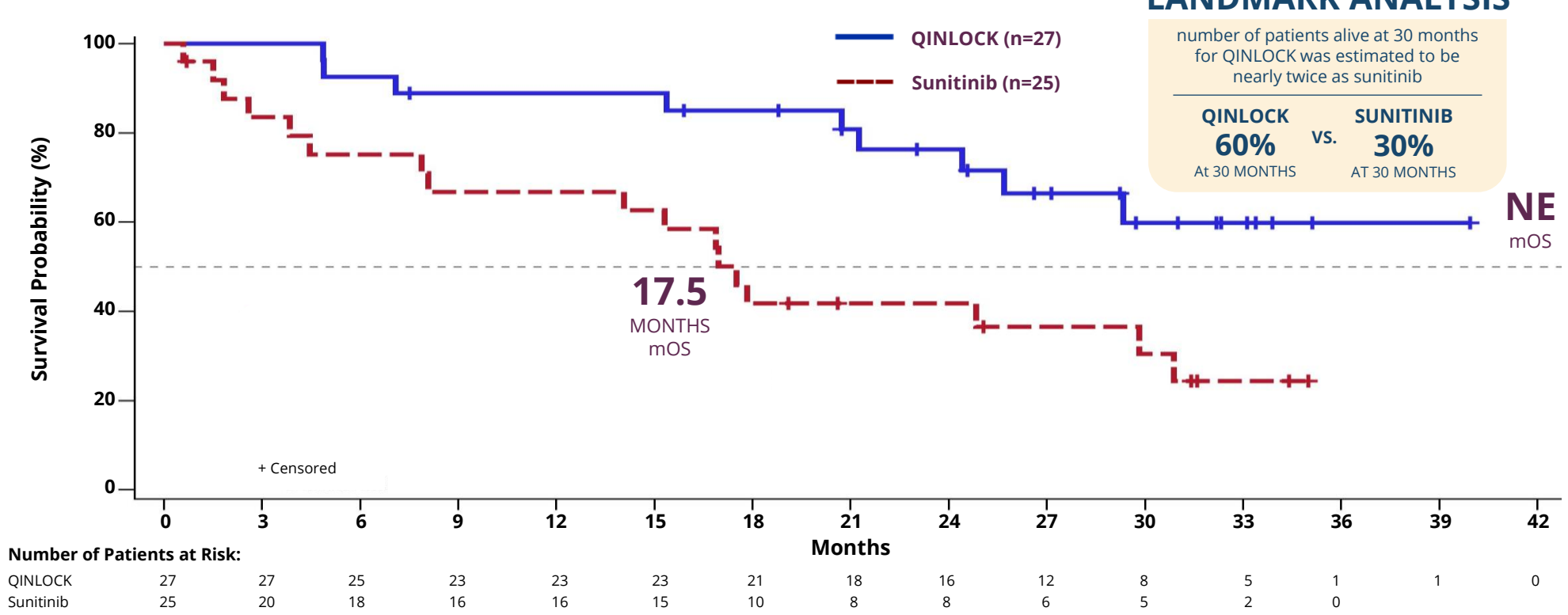


# SUBSTANTIAL OS FOR QINLOCK IN KIT EXON 11+17/18 PATIENTS<sup>1</sup>

## Overall Survival Analysis

KIT exon 11+17/18

SECONDARY ENDPOINT: OS



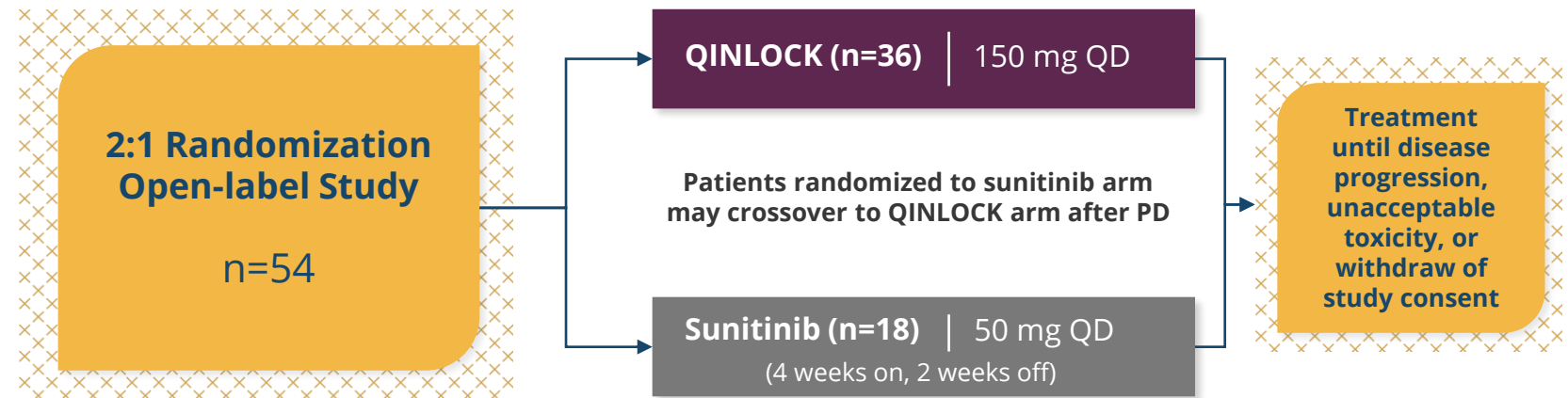
(median OS of NE months vs. 17.5 months; HR=0.34, 95% CI [0.15-0.76], nominal p value 0.0061)

## INCLUSION CRITERIA

### Patients with GIST previously treated with imatinib

- 1 prior line of imatinib
- KIT exon 11 + (17 and/or 18) via ctDNA at prescreening
  - KIT exon 9, 13, and/or 14 are excluded
  - Other co-mutations are allowed
- Measurable disease per mRECIST
- ECOG performance status  $\leq 2$

## PLANNED PHASE 3, RANDOMIZED, MULTICENTER, OPEN-LABEL STUDY



### Primary Endpoint

- PFS by IRR using mRECIST

### Key Secondary Endpoints

- ORR by IRR using mRECIST
- OS

## Strong Scientific Rationale and Compelling Efficacy Results for QINLOCK from ctDNA analysis

- Validates preclinical evidence and KOL's expectations of differential activity of each drug
- Dramatic and consistent clinical benefit of QINLOCK shown across all efficacy endpoints
- Conviction about results reinforced by PFS hazard ratio, confidence intervals, and nominal p-value

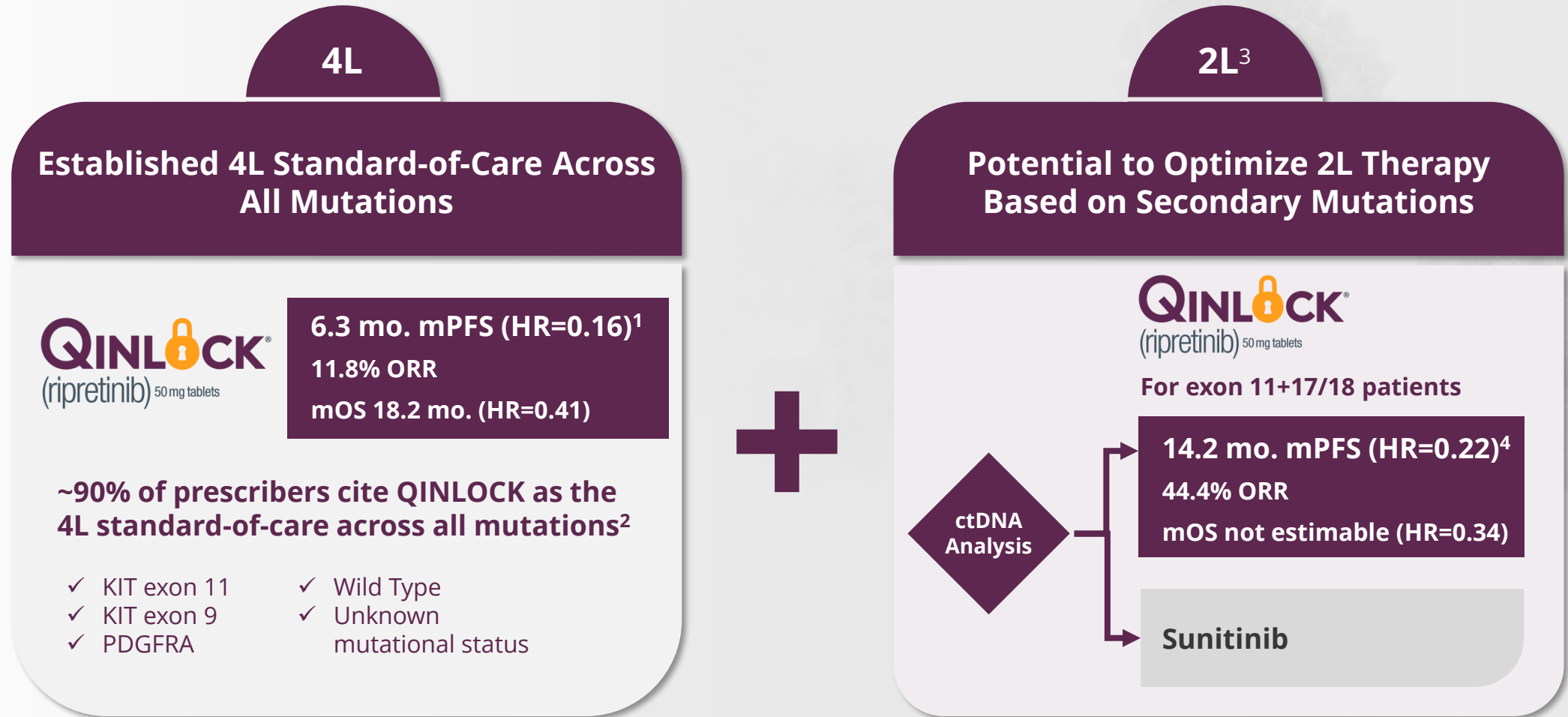
## Consistency between INTRIGUE and INSIGHT Trial Designs

- Assumptions based on contemporary data from INTRIGUE
- INSIGHT patient population is the same size as the INTRIGUE ctDNA subgroup
- Dosing regimens, outcome measures and other material features are identical in INSIGHT and INTRIGUE

## Confidence in Study Execution

- Significant investigator interest in using precision medicine to improve outcomes in 2L GIST
- Patient focused design with 2:1 randomization to QINLOCK and crossover to QINLOCK
- Design based on feedback from KOLs and FDA
- Deciphera is the most experienced company at running global GIST trials (over 750+ GIST patients)

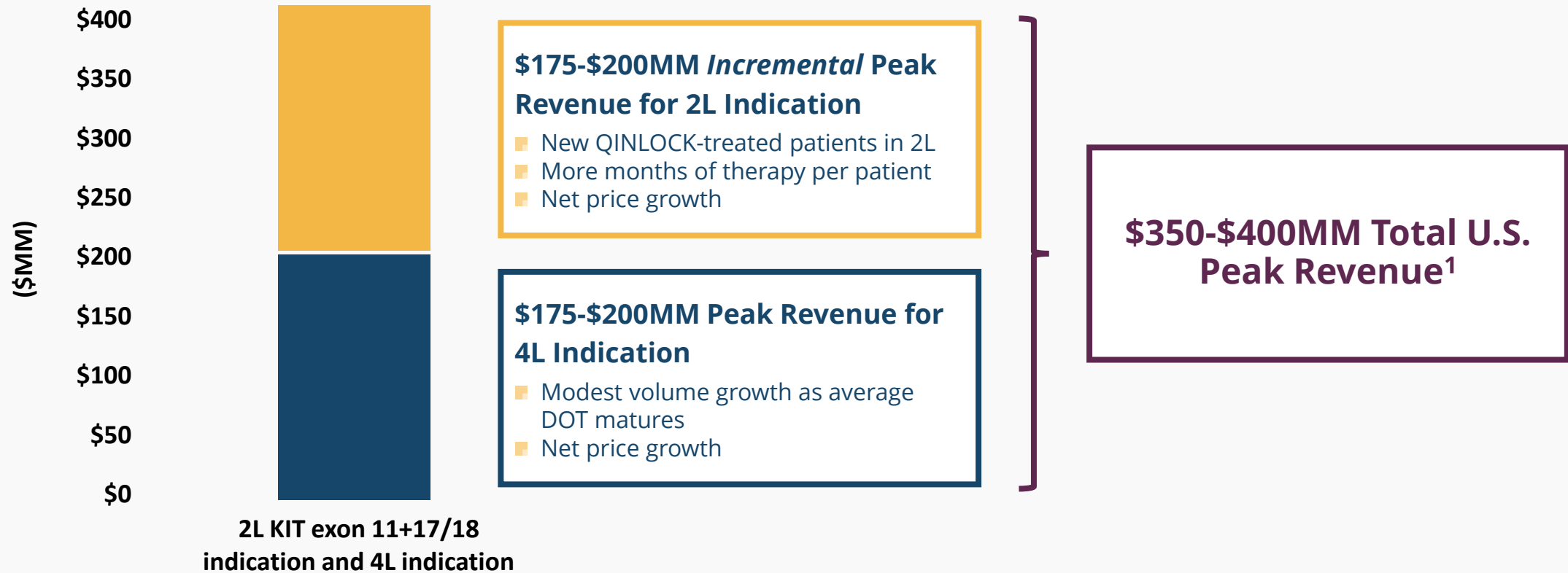
# OPPORTUNITY TO ADVANCE THE STANDARD OF CARE ACROSS MULTIPLE LINES OF THERAPY





# A 2L KIT EXON 11+17/18 INDICATION ESTIMATED TO DOUBLE QINLOCK U.S. PEAK REVENUE POTENTIAL<sup>1</sup>

## QINLOCK Estimated U.S. Peak Revenue (\$MM)<sup>1</sup>





# EXPLORATORY ANALYSIS OF INTRIGUE STUDY IN 2L GIST COMPELLING EFFICACY RESULTS IN KIT EXON 11+17/18 PATIENTS

## OBJECTIVE RESPONSE RATE<sup>1</sup>

**QINLOCK** vs. **SUNITINIB**  
**44.4%**<sup>2</sup> vs. **0%**

## MEDIAN PROGRESSION- FREE SURVIVAL<sup>1,3</sup>

**QINLOCK** vs. **SUNITINIB**  
**14.2** vs. **1.5**  
MONTHS MONTHS

## MEDIAN OVERALL SURVIVAL<sup>4</sup>

**QINLOCK** vs. **SUNITINIB**  
**Not** vs. **17.5**  
**Estimable** MONTHS

**INSIGHT PIVOTAL PHASE 3 STUDY  
EXPECTED TO INITIATE IN 2H 2023**

**QINLOCK PEAK U.S. REVENUE POTENTIAL  
ESTIMATED TO DOUBLE WITH  
2L KIT EXON 11+17/18 INDICATION<sup>5</sup>**



**Notes:** Data presented at the ASCO Plenary Series Session 2023; Full prescribing information is available at [www.QINLOCK.com](http://www.QINLOCK.com); Deciphera Data on File; 2L=second-line; KIT=KIT proto-oncogene receptor tyrosine kinase; ORR=objective response rate; OS=overall survival; PFS=progression-free survival; (1) data cut off date of September 1, 2021; (2) ORR was confirmed with follow-up imaging; (3) determined using modified Response Evaluation Criteria in Solid Tumors (RECIST) 1.1 criteria; (4) the data cut off date for the second interim analysis for overall survival was September 1, 2022; (5) These estimates are based on management's current expectations and assumptions, including, without limitation, estimates of net price growth over time, adoption of ctDNA testing for GIST patients, estimates of on-label adoption, the potential for unpromoted off-label usage and reasonable expectations of the potential impact of the Inflation Reduction Act (the full impact of which is still under review) and an assumption of a second-line approval in GIST patients with mutations in KIT exon 11 + 17/18; estimates are inherently uncertain and are subject to a wide variety of assumptions, risks and uncertainties that can cause actual results to differ materially.

# VIMSELTINIB

## TOP-LINE RESULTS FROM MOTION PHASE 3 STUDY EXPECTED IN 4Q 2023

- **Vimseltinib** is an oral, switch-control TKI specifically designed to selectively and potently inhibit CSF1R
- Positive Phase 1/2 data in TCGT strongly supports ongoing MOTION Phase 3 study<sup>1</sup>
- +\$850MM TGCT market in U.S. with 90% of prescribers already targeted with GIST franchise<sup>2</sup>

Expected 2023 Milestones<sup>3</sup>**Completed**  
(1Q 2023)

Complete enrollment in the MOTION Phase 3 study

**4Q 2023**

Announce top-line results from MOTION Phase 3 study

**2H 2023**

Present updated Phase 1/2 data in TGCT patients

# VIMSELTINIB | ONGOING PHASE 1/2 STUDY OF PATIENTS WITH TGCT

## AN INTERNATIONAL, MULTICENTER, OPEN-LABEL PHASE 1/2 STUDY

### PHASE 1 (DOSE ESCALATION)

- A pharmacologically guided 3 + 3 design, to determine the recommended Phase 2 dose (RP2D) and the maximum tolerated dose
- Enrollment in Phase 1 dose escalation is complete

#### COHORT 5 (n=8)

**Loading Dose**  
30 mg QD x 5 days

**Dose**  
30 mg twice weekly

#### COHORT 8 (n=12)

**Loading Dose**  
30 mg QD x 3 days

**Dose**  
10 mg QD

#### COHORT 9 (n=12)

**Loading Dose**  
20 mg QD x 3 days

**Dose**  
6 mg QD

### PHASE 2 (EXPANSION)

- Study to evaluate the safety, tolerability, and preliminary efficacy in two TGCT expansion cohorts
- Recommended Phase 2 dose of 30 mg twice weekly with no loading dose



#### COHORT A (n=46)

TGCT patients with no prior anti-CSF1/CSF1R therapy (previous therapy with imatinib or nilotinib is allowed)

#### PHASE 2 (n=58)

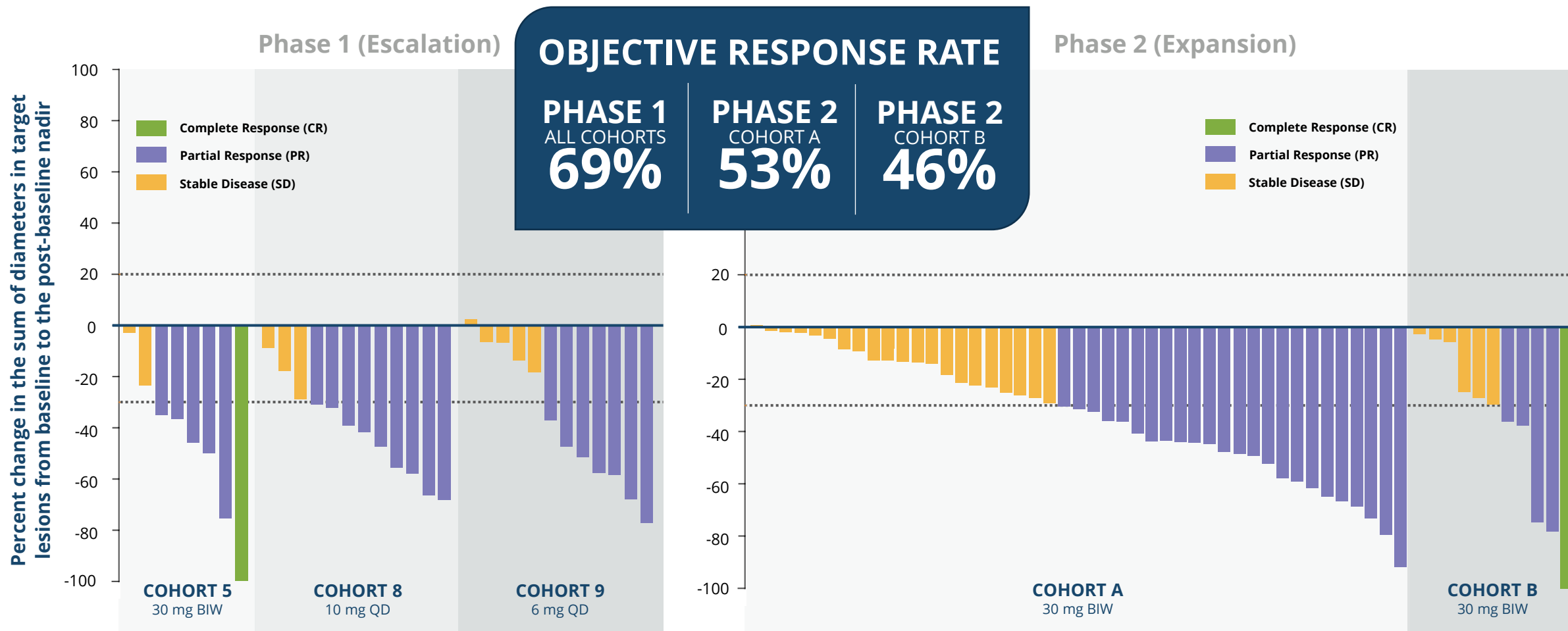
#### COHORT B (n=12)

TGCT patients with prior anti-CSF1/CSF1R therapy (previous therapy with imatinib or nilotinib alone would not be eligible)

Enrollment Ongoing in Cohort B

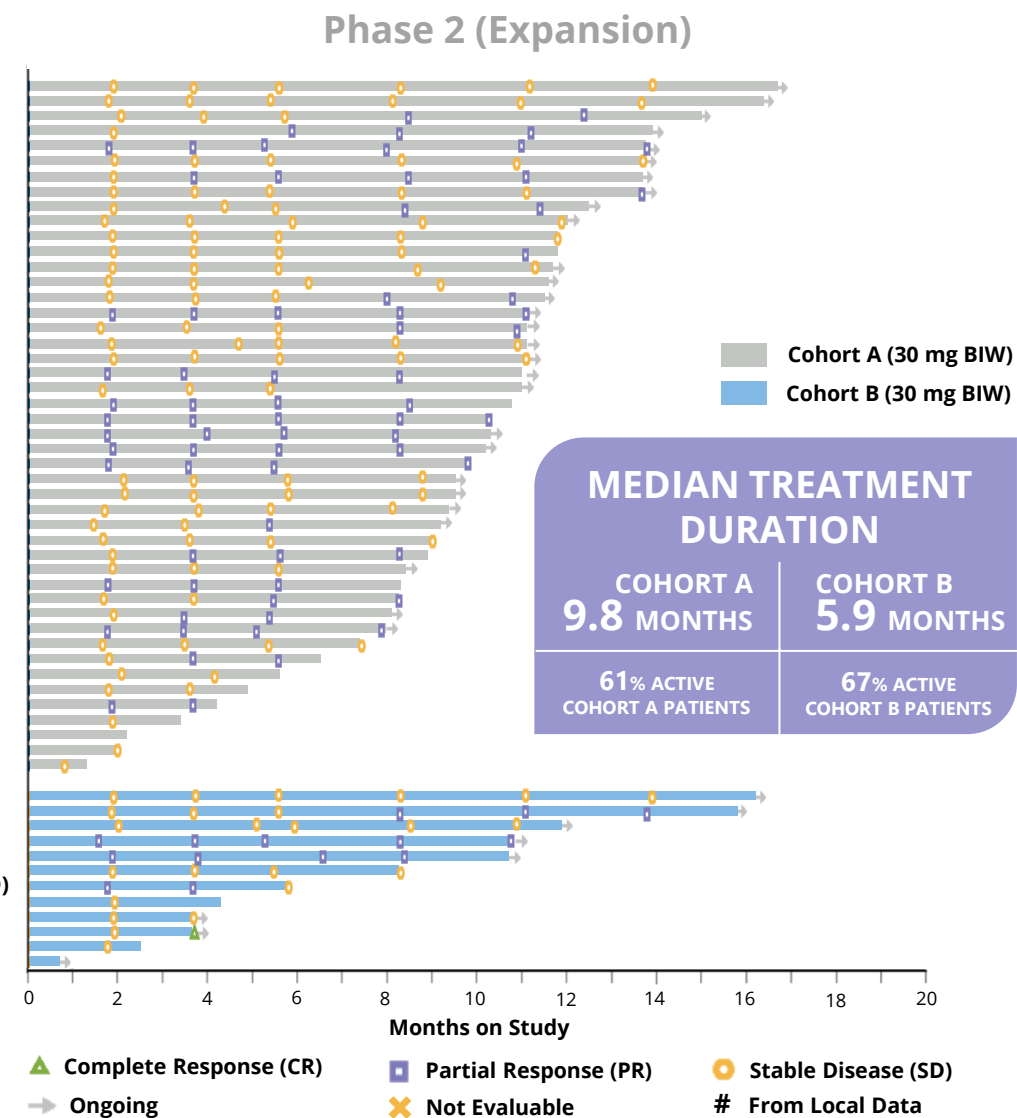
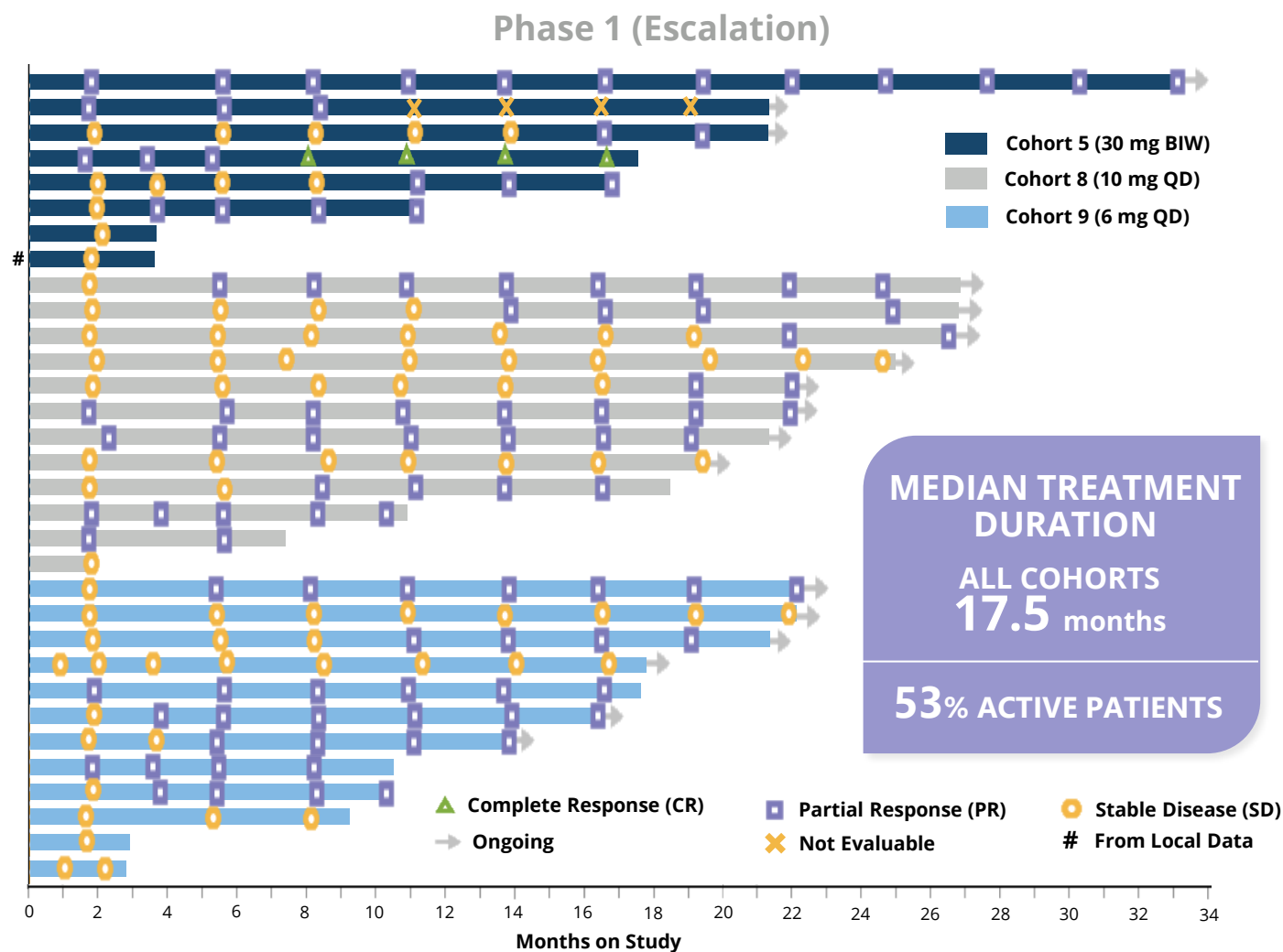


# ENCOURAGING ANTI-TUMOR ACTIVITY REGARDLESS OF PRIOR CSF1R THERAPY



# VIMSELTINIB | ONGOING PHASE 1/2 STUDY OF PATIENTS WITH TGCT | PHASE 2 EXPANSION DATA

## INCREASING DURATION OF THERAPY AND DURABLE RESPONSES



# VIMSELTINIB | ONGOING PHASE 1/2 STUDY OF PATIENTS WITH TGCT

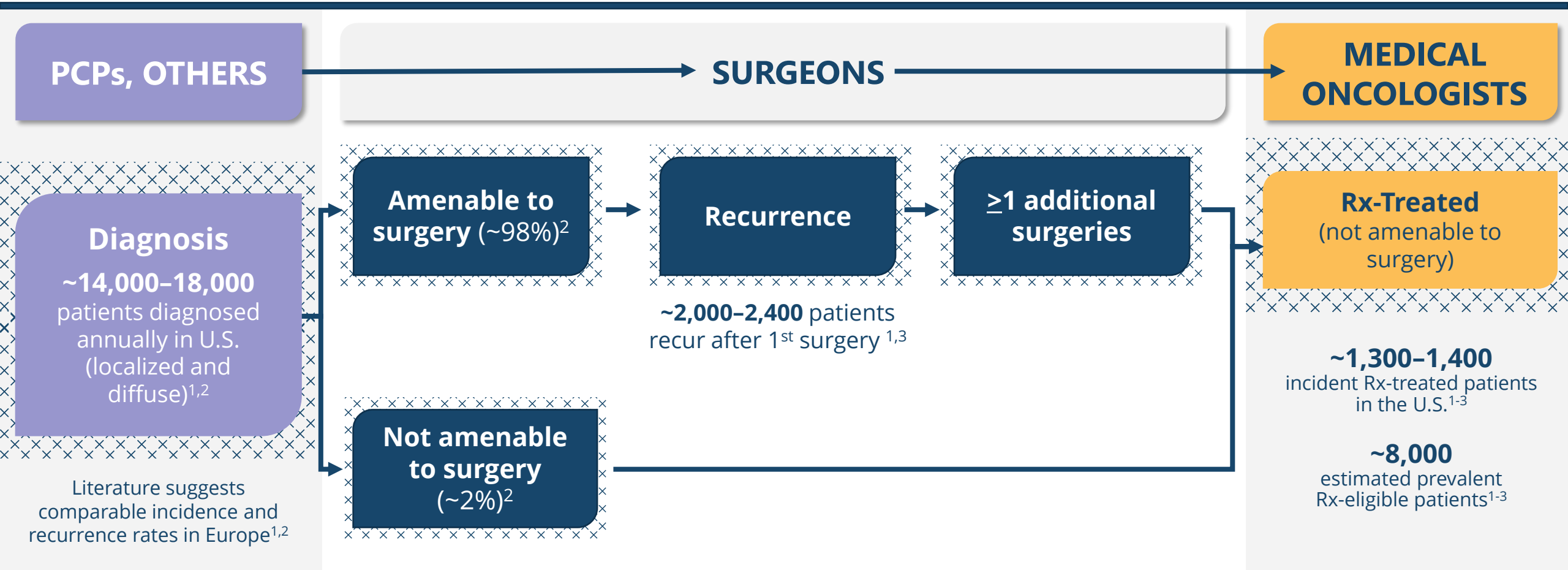
## WELL-TOLERATED IN TGCT PATIENTS

### TEAEs in ≥15% of Patients Receiving Vimseltinib

Preferred term	Phase 1 All Patients <sup>1</sup> (n = 32)		Phase 2 All Patients <sup>1</sup> (n = 58)		Phase 1/2 Combined All Patients (n = 90)	
	All grades	Grade 3/4	All grades	Grade 3/4	All grades	Grade 3/4
Blood CPK increased	20 (63%)	10 (31%)	34 (59%)	22 (38%)	54 (60%)	32 (36%)
Periorbital edema	17 (53%)	0	22 (38%)	0	39 (43%)	0
Fatigue	16 (50%)	0	16 (28%)	0	32 (36%)	0
AST increased	11 (34%)	4 (13%)	10 (17%)	0	21 (17%)	4 (4%)
Arthralgia	10 (31%)	1 (3%)	13 (22%)	1 (2%)	23 (26%)	2 (2%)
Face oedema	9 (28%)	0	10 (17%)	0	19 (21%)	0
Myalgia	9 (28%)	1 (3%)	15 (26%)	0	24 (27%)	1 (1%)
Oedema peripheral	9 (28%)	0	9 (16%)	0	18 (20%)	0
Pruritus	9 (28%)	0	0	0	9 (10%)	0
Headache	8 (25%)	0	27 (47%)	0	35 (39%)	0
ALT increased	7 (22%)	1 (3%)	0	0	7 (8%)	1 (1%)
Diarrhea	7 (22%)	1 (3%)	9 (16%)	0	16 (18%)	1 (1%)
Lipase increased	7 (22%)	3 (9%)	0	0	7 (7%)	3 (3%)
Generalized oedema	7 (22%)	0	0	0	7 (7%)	0
Hypertension	6 (19%)	2 (6%)	0	0	6 (7%)	2 (2%)
Nausea	6 (19%)	0	19 (33%)	0	25 (28%)	0
Rash	6 (19%)	0	0	0	6 (7%)	0
Amylase increased	5 (16%)	2 (6%)	0	0	5 (6%)	2 (2%)
Constipation	5 (16%)	0	0	0	5 (6%)	0
Dry skin	5 (16%)	0	0	0	5 (6%)	0
Paresthesia	5 (16%)	0	0	0	5 (6%)	0
Rash maculopapular	5 (16%)	0	13 (22%)	1 (2%)	18 (20%)	1 (1%)
Asthenia	0	0	15 (26%)	1 (2%)	15 (17%)	1 (1%)

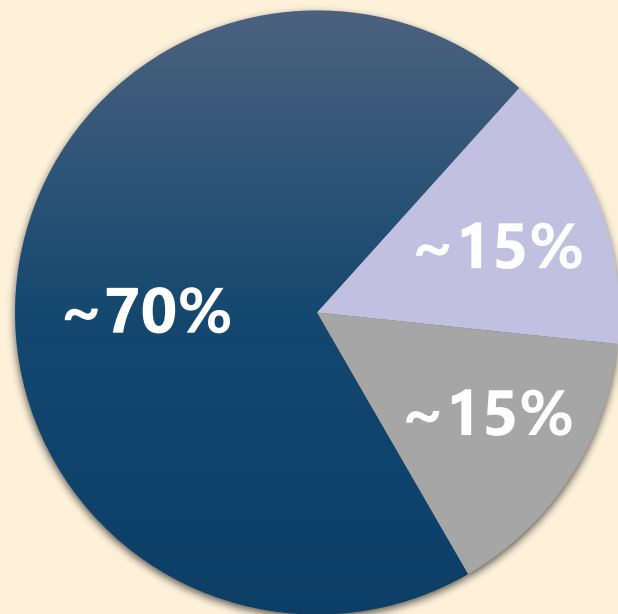
**Notes:** Data presented at the ESMO Congress 2022; results are reported for patients with TGCT with a data cutoff of May 6, 2022; Data are presented as n (%) unless otherwise noted; percentages are rounded; ALT=alanine aminotransferase; AST=aspartate aminotransferase; CPK=creatinine phosphokinase; TEAE=treatment-emergent adverse event; (1) TEAE cutoff of ≥15% based on all grades for total Phase 1 and Phase 2.

# PATIENT JOURNEY OF TGCT PATIENTS NOT AMENABLE TO SURGERY



# VIMSELTINIB | TENOSYNOVIAL GIANT CELL TUMOR (TGCT) TGCT MARKET LANDSCAPE OVERVIEW

## U.S. TGCT Market Landscape: Imatinib is the Leading TKI Prescribed<sup>1</sup>



■ Imatinib    ■ Pexidartinib    ■ Other TKI  
(sunitinib or nilotinib)

**Avg. Duration of Therapy**  
Imatinib: ~18 months, Pexidartinib: ~8 months<sup>2</sup>

## Existing Product Profiles and Unmet Need

### Imatinib

- Not FDA or EMA approved for TGCT
- Weak CSF1R inhibitor
- Guideline listed based on retrospective data showing 19% ORR<sup>3,4</sup>

### Pexidartinib

- The only FDA approved agent for TGCT, not approved by EMA
- Inhibitor of CSF1R, KIT, FLT3, and PDGFRA/B
- Boxed warning for hepatotoxicity, REMS, intensive liver monitoring

### High Unmet Need

- Lifelong condition with significant morbidity
- HCPs and patients cite desire for effective therapy without having to sacrifice safety and tolerability<sup>5</sup>



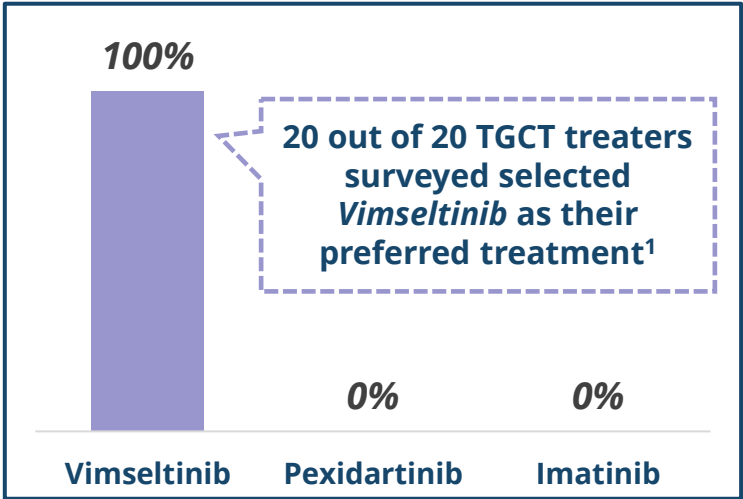
# MARKET RESEARCH HIGHLIGHTS THE POTENTIAL FOR VIMSELTINIB TO DELIVER A BEST-IN-CLASS PROFILE AND ESTABLISH A NEW STANDARD OF CARE IN TGCT

## Relative Scoring of Key Product Attributes

Clinical Attribute		Vimseletinib	Pexidartinib	Imatinib
Efficacy	<b>Tumor Response</b> (Objective Response, CBR)			
	<b>PROs</b> (Improvement in Pain & Stiffness)			Limited Data
Safety	<b>Grade 3/4 AEs</b>			
	<b>Hepatotoxicity</b>			Not Reported in TGCT
	<b>Discontinuation Rates</b> (Due to any TEAEs)			

Highly Compelling     Moderately Compelling     Less Compelling

## Preferred Systemic Treatment For TGCT



**Clinical Profile:** "This is very impressive data. Well over half the patients responded to the medication with excellent outcomes. Pain measurements and mobility scores are quite remarkable compared to anything currently available" – Onc

**Efficacy:** "It's great to see that the best overall response numbers improve over long-term. In fact, this would probably lead me to keep some patients on it longer than I usually would." – Onc

**Treatment Choice:** "I would give [vimseletinib] to all my future TGCT patients" – Onc

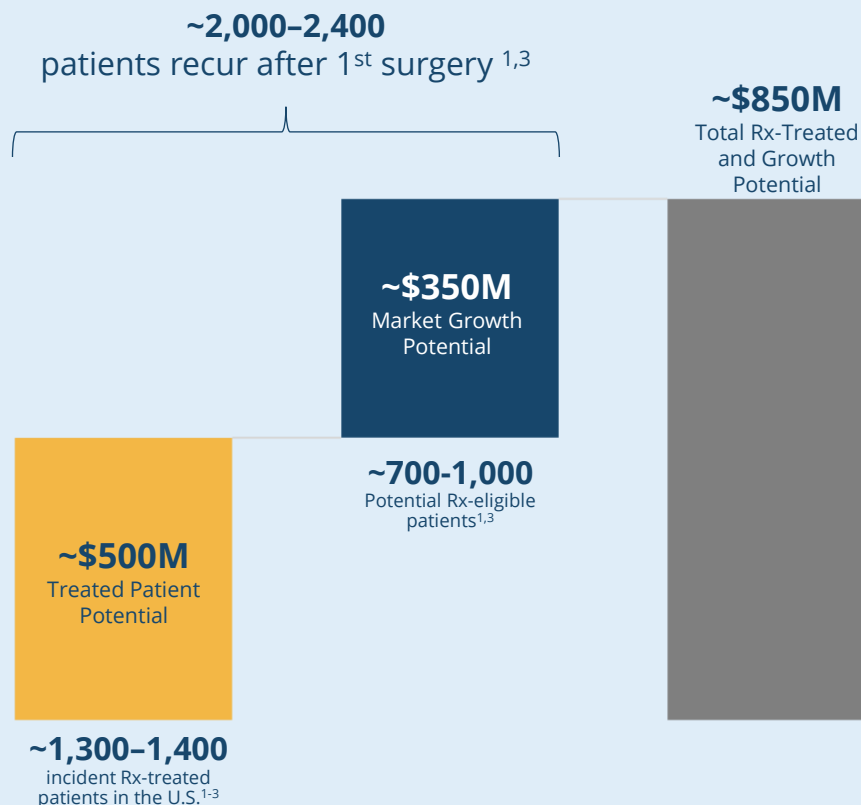
### TGCT Treater Sentiments on Vimseletinib Profile



**Notes:** Qualitative market research conducted by Deciphera in Aug 2022 comparing target product profiles of vimseletinib (blinded), pexidartinib, and imatinib based on USPIs and published/presented literature for each product's efficacy and safety in TGCT diagnosed patients (n=20 HCPs). Hepatotoxicity as defined by increased AST/ALT rates. No head-to-head/comparative studies have been conducted. CBR = Clinical Benefit Rate, PROs = Patient Reported Outcomes, AEs = Adverse Events, TEAEs = Treatment-Emergent Adverse Events. (1) HCP asked to select their preferred (only 1) product to systemically treat TGCT patients based on current clinical profiles.

# SIGNIFICANT OPPORTUNITY TO BENEFIT PATIENTS WITH TGCT GLOBALLY

## U.S. Total Addressable Market Based on Incident Population



+

## U.S. Prevalent Population



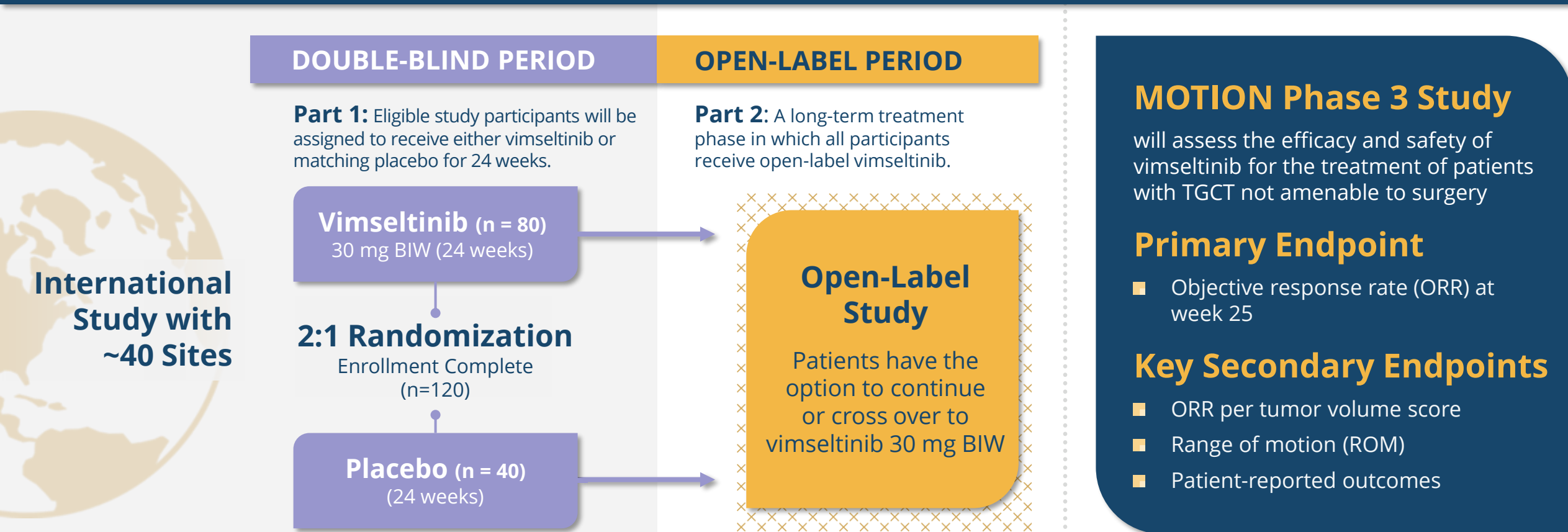
+

## E.U. Opportunity



- Comparable incidence and recurrence rates in Europe <sup>1,2</sup>
- No approved therapies for TGCT

## Top-line Results Expected in 4Q 2023



# DCC-3116

# HIGHLY SELECTIVE SWITCH-CONTROL INHIBITOR OF THE ULK KINASE

- **DCC-3116** is a potential first-in-class small molecule designed to inhibit cancer autophagy by targeting the ULK kinase
- The combination dose-escalation portion of the **DCC-3116** Phase 1 study is underway
- Pfizer supply agreement to support a new combination study evaluating **DCC-3116** + encorafenib/cetuximab in CRC

## Expected 2023 Milestones<sup>1</sup>

Present preclinical data  
on new combinations

AACR 2023

Present updated Phase 1 single  
agent and initial combination  
dose escalation data

2H 2023

Initiate escalation cohort for  
encorafenib/cetuximab

2H 2023

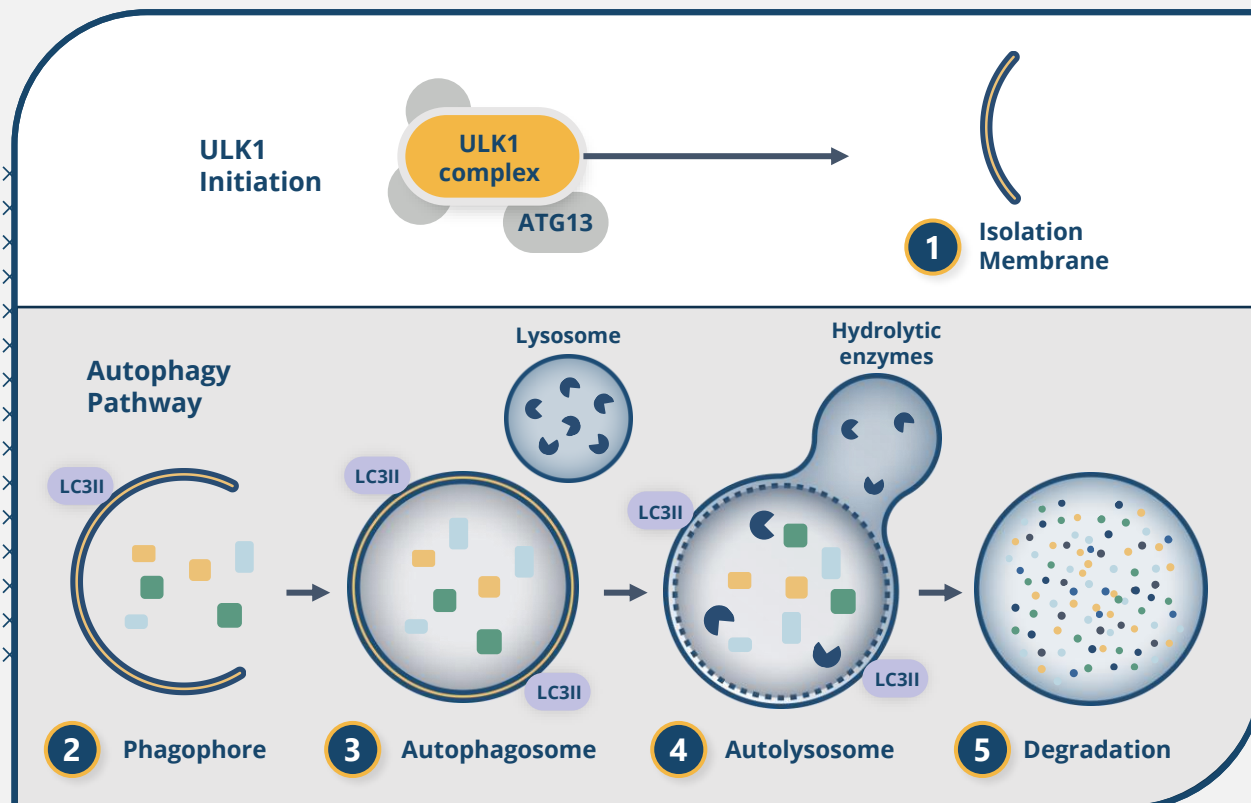
Initiate MEK/G12C  
expansion cohort(s)

2H 2023



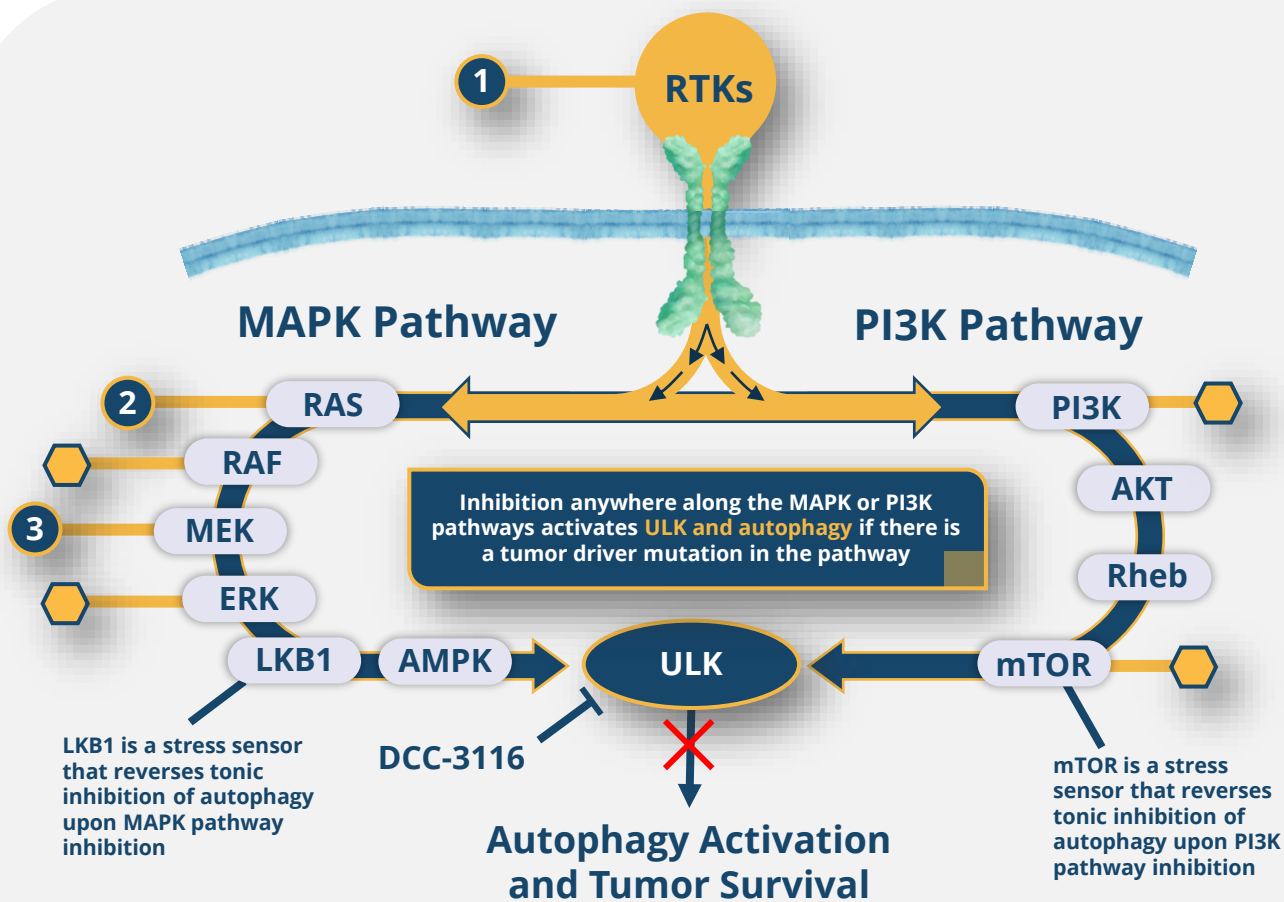
# AUTOPHAGY: A BROAD RESISTANCE MECHANISM IN CANCER

## ULK: Initiating Factor for Autophagy



- Autophagy is a catabolic process in which cells recycle components to generate energy
- RTK-, RAS-, and RAF-mutant cancer cells activate autophagy in order to survive stresses or damage **due to anti-cancer therapeutic intervention** with MAPK and PI3K pathway inhibitors
- The **ULK kinase initiates the autophagy pathway** and provides a potential targeted approach to selectively inhibit autophagy in these cancers

# CENTRAL ROLE FOR AUTOPHAGY IN THE RAS/MAPK AND PI3K PATHWAYS

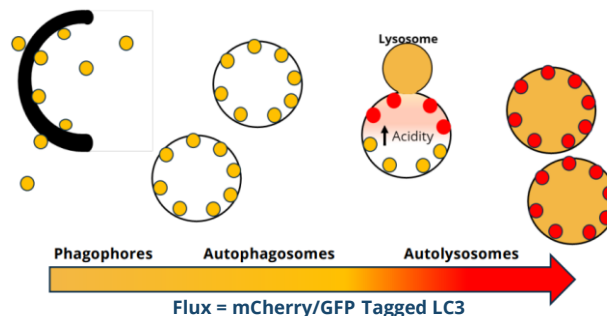


## GROWING PRECLINICAL VALIDATION FOR ROLE OF AUTOPHAGY IN CANCER

- 1 DCC-3116 In Combination with RTK Inhibition**
    - DCC-3116 exhibits synergy with osimertinib and afatinib resulting in tumor regression in EGFR-mutant NSCLC *in vivo*
  - 2 DCC-3116 In Combination with KRAS<sup>G12C</sup> Inhibition**
    - DCC-3116 exhibits synergy with sotorasib and adagrasib resulting in tumor regression in KRAS<sup>G12C</sup>-mutant NSCLC *in vivo*
  - 3 DCC-3116 In Combination with MEK Inhibition**
    - DCC-3116 exhibits synergy in combination with trametinib and inhibited pancreatic, lung, and melanoma xenograft tumor growth
- Other targets where therapeutic intervention activates ULK and autophagy**

# DCC-3116 OBSERVED PRECLINICALLY TO DURABLY AND POTENTLY INHIBIT AUTOPHAGY INDUCED BY MULTIPLE PATHWAY INHIBITORS

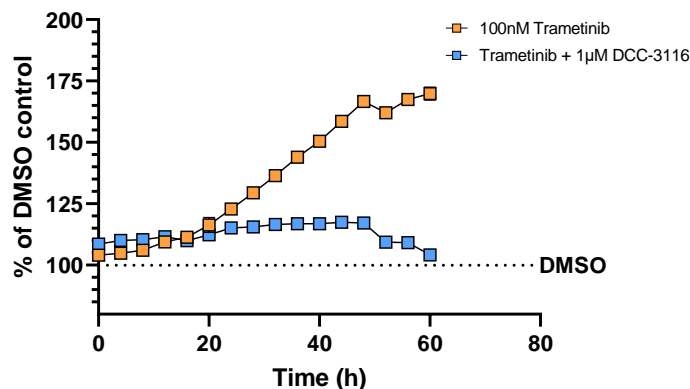
## AUTOPHAGIC FLUX MATURATION



- RTK/RAS/MAPK induces significant autophagy flux
- DCC-3116 can sustainably inhibit this induction

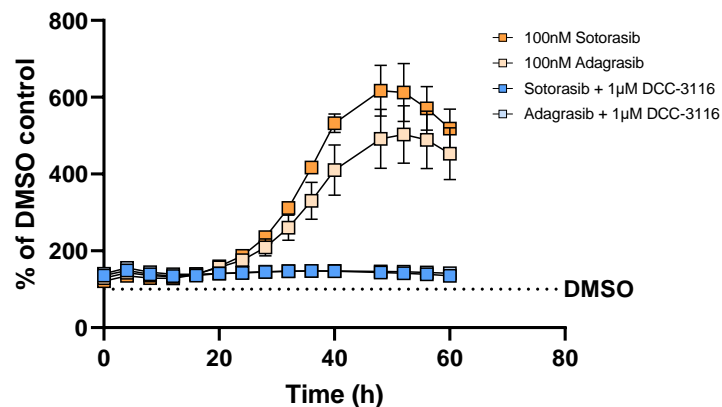
### DCC-3116 + Trametinib

PDAC: Trametinib-induced Autophagy Induction Over Time (mCherry/GFP Tagged LC3)<sup>1</sup>



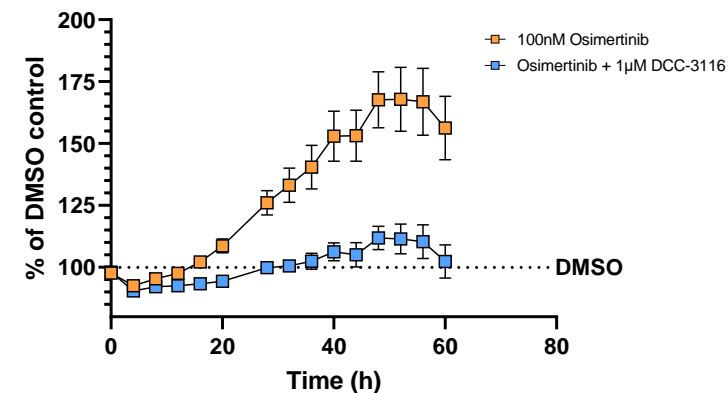
### DCC-3116 + KRAS<sup>G12C</sup> Inhibitor

NSCLC: Sotorasib vs. Adagrasib-induced Autophagy Induction Over Time (mCherry/GFP Tagged LC3)<sup>2</sup>

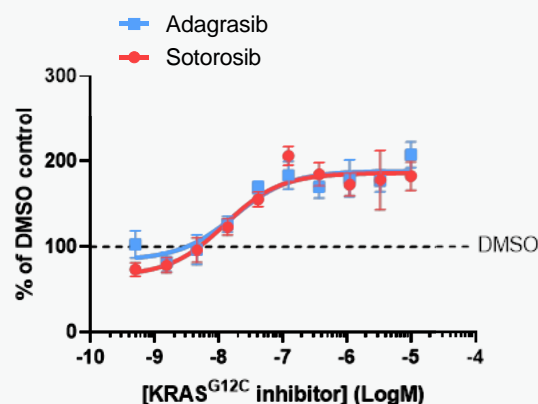
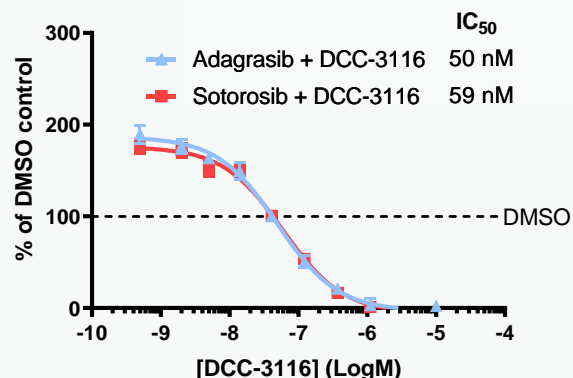
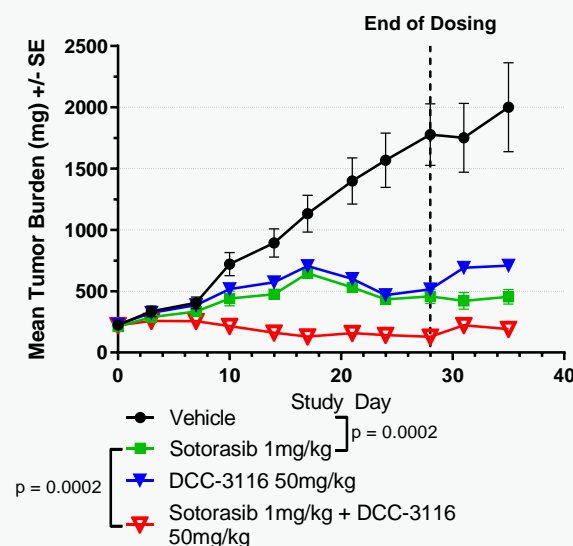
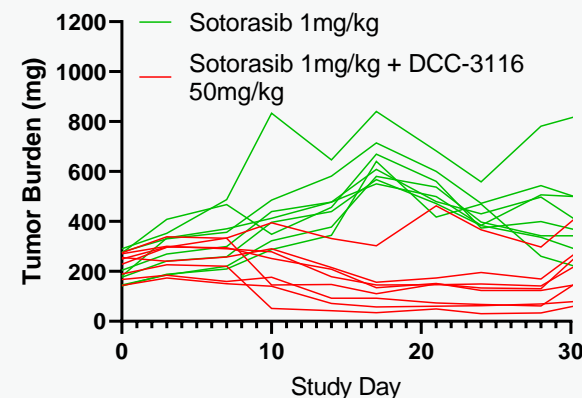


### DCC-3116 + EGFR Inhibitor

NSCLC: Osimertinib-induced Autophagy Induction Over Time (mCherry/GFP Tagged LC3)<sup>1</sup>



## DCC-3116 INHIBITS RAS PATHWAY INHIBITOR-INDUCED ULK ACTIVITY

DCC-3116 Reverses KRAS<sup>G12C</sup>  
Inhibitor-Induced ULK ActivationNSCLC: H358 pATG13 ELISA  
KRAS<sup>G12C</sup> Inhibitors Induce ULK ActivityNSCLC: H358 pATG13 ELISA  
DCC-3116 Inhibits KRAS<sup>G12C</sup>  
Inhibitor-Induced ULK ActivityDCC-3116 Demonstrated Deeper and Longer Regressions in  
Combination with SotorosibNSCLC: H358 Tumor Growth  
DCC-3116 + Sotorosib 1mg/kgNSCLC: H358 Tumor Growth  
DCC-3116 + Sotorosib 1mg/kg

# SUMMARY OF INITIAL SINGLE AGENT PHASE 1 STUDY RESULTS

- DCC-3116 was well tolerated at doses from 50 to 300 mg BID, which achieved exposure and ULK1/2 inhibition associated with anticancer efficacy with MEK inhibitors in preclinical studies
- Treatment-related TEAEs were mainly Grade 1/2, except for related asymptomatic and reversible Grade 3 ALT increases

**DCC-3116 EXPOSURE  
APPEARED TO INCREASE  
DOSE PROPORTIONALLY  
ACROSS 50 – 300 mg BID**

**ALL DOSES ACHIEVED  
EXPOSURE AND ULK1/2  
INHIBITION ASSOCIATED  
WITH EFFICACY IN  
PRECLINICAL STUDIES**

**NO DLTs OR  
TREATMENT-RELATED  
SAEs OBSERVED**

**MONOTHERAPY RESULTS  
DEMONSTRATED STABLE  
DISEASE AS BEST  
OVERALL RESPONSE**

NOV '22  
UPDATE

**MAXIMUM  
TOLERATED DOSE  
NOT REACHED**

**50 mg BID SELECTED AS STARTING  
DOSE FOR COMBINATION DOSE  
ESCALATION**

**FIRST PATIENT TREATED  
IN COMBINATION DOSE  
ESCALATION**

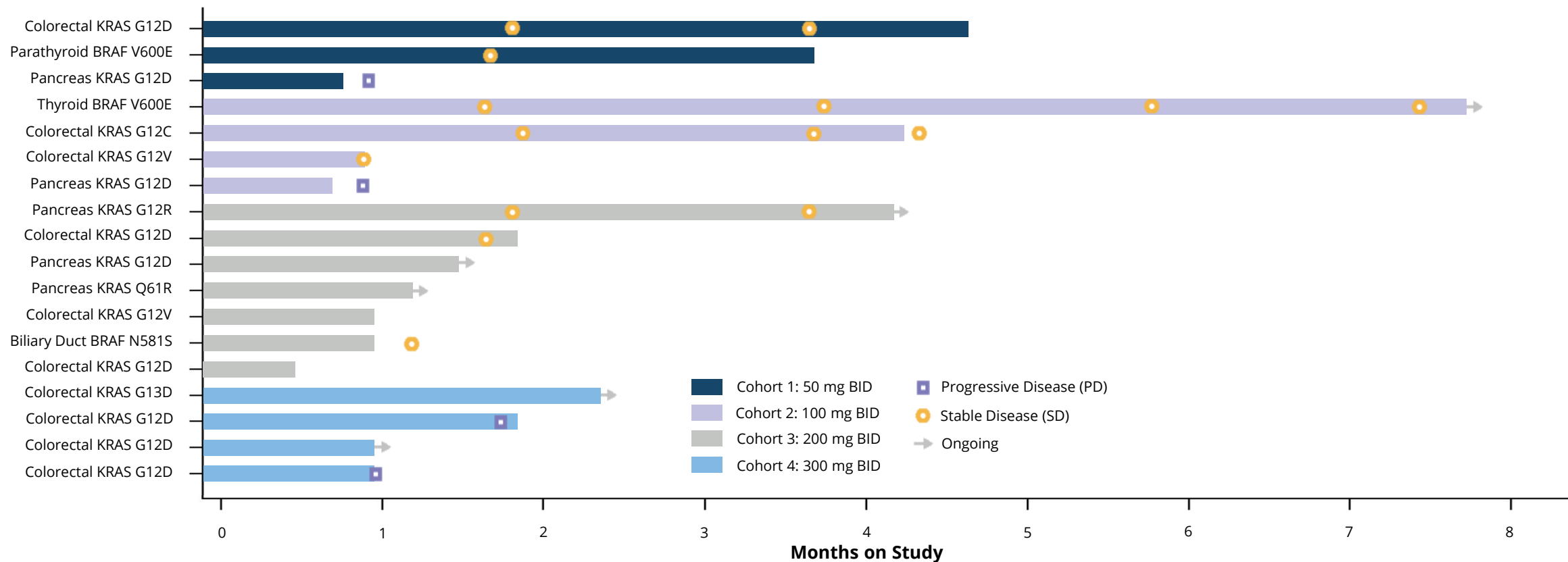


TEAEs REGARDLESS OF RELATEDNESS ( $\geq 15\%$  OF PARTICIPANTS)

Preferred term	DCC-3116 Monotherapy Cohorts								All Participants
	Cohort 1 50 mg BID (n = 3)		Cohort 2 100 mg BID (n = 4)		Cohort 3 200 mg BID (n = 7)		Cohort 4 300 mg BID (n = 4)		n (%) N = 18
	Grade 1/2	Grade 3	Grade 1/2	Grade 3	Grade 1/2	Grade 3	Grade 1/2	Grade 3	All grades
Fatigue	2	0	1	0	3	0	1	0	7 (39%)
Dehydration	0	0	0	0	2	0	2	0	4 (22%)
ALT increased	0	0	0	0	0	1	1	1	3 (17%)
Anaemia	0	2	0	1	0	0	0	0	3 (17%)
AST increased	0	0	0	0	2	0	1	0	3 (17%)
Decreased appetite	1	0	1	0	0	0	1	0	3 (17%)
Hyponatraemia	1	0	0	0	1	0	1	0	3 (17%)
Nausea	0	0	1	0	0	0	2	0	3 (17%)
Vomiting	1	0	1	0	1	0	0	0	3 (17%)

- No DLTs or treatment-related serious TEAEs were observed
- Most treatment-related TEAEs were Grade 1/2; no treatment-related Grade 4 TEAEs
- Two related asymptomatic, reversible Grade 3 ALT increased TEAEs led to dose interruption and reduction

## TREATMENT DURATION AND RECIST v1.1 RESPONSE ASSESSMENTS

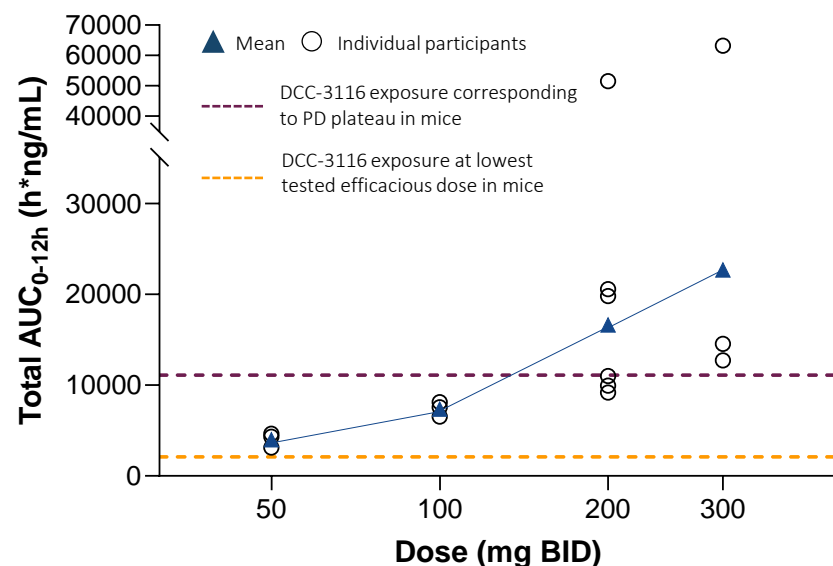


- Best overall response was stable disease
- Disease control rate at week 16 was 29% (4 of 14 response-evaluable participants)

# INITIAL PK/PD DATA AT ALL DOSE LEVELS IS CONSISTENT WITH PREDICTED ACTIVITY BASED ON PRECLINICAL STUDIES

## Pharmacokinetics

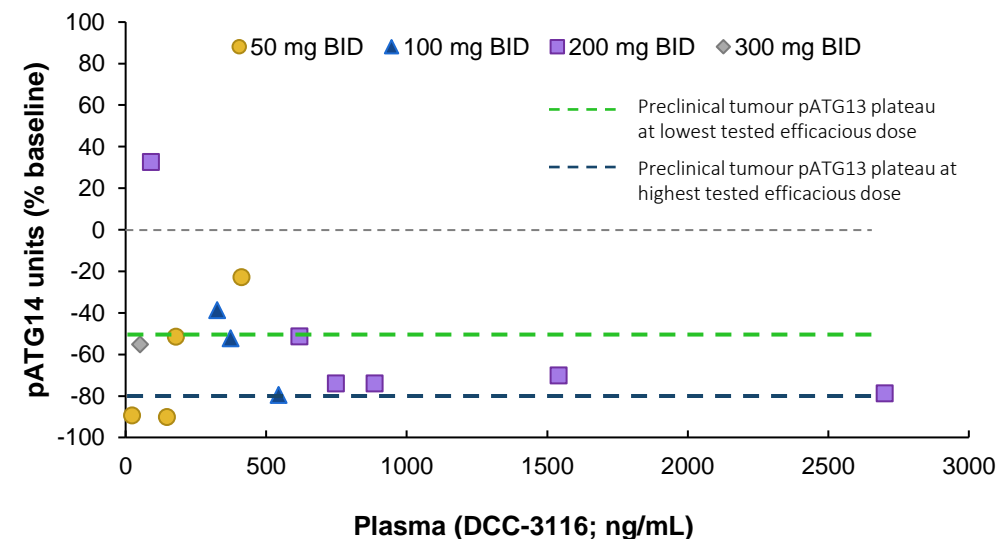
### Total Individual and Mean AUC<sub>0-12h</sub> vs. Dose



- DCC-3116 AUC appeared to increase proportionally to dose from 50 to 300 mg BID
- DCC-3116 AUC at all dose levels at or above AUC of lowest tested dose that was effective in preclinical studies

## Pharmacodynamics

### Inhibition of Phosphorylation of ULK1/2 Substrate ATG14 in PBMCs at Trough



- Decreases in phosphorylation of direct ULK1/2 substrates ATG14 and ATG13 both indicate inhibition of ULK1/2
- At all DCC-3116 dose levels, pATG14 in PBMCs was in range of preclinical pATG13 in tumors at doses that achieved anticancer effects with MEK inhibitor
- pATG14 inhibition in PBMCs reached maximum pATG13 inhibition observed preclinically in tumors

# PHASE 1 COMBINATION COHORTS EVALUATING MULTIPLE COMBINATIONS ALONG THE RAS/MAPK PATHWAY

## Combination Dose Escalation Cohorts

**+ Trametinib**  
(MEK inhibitor)

**+ Binimetinib**  
(MEK inhibitor)

**+ Sotorasib**  
(KRAS<sup>G12C</sup> inhibitor)

**+ Encorafenib / Cetuximab<sup>1</sup>**  
(BRAF inhibitor / EGFR inhibitor)

**Pfizer Supply Agreement<sup>2</sup>** ★

**+ QINLOCK<sup>1</sup>**  
(KIT inhibitor)

RP2D of the  
combinations

## Dose Expansion Cohorts

**DCC-3116 + Trametinib**

2<sup>nd</sup> Line PDAC<sup>3</sup> (KRAS-driven)

3<sup>rd</sup>–5<sup>th</sup> Line NSCLC<sup>4</sup> (RAF/RAS-driven)

≥3<sup>rd</sup> Line CRC<sup>4</sup> (RAF/RAS-driven)

**DCC-3116 + Binimetinib**

2<sup>nd</sup>–3<sup>rd</sup> Line Melanoma<sup>5</sup> (NRAS-driven)

**DCC-3116 + Sotorasib**

2<sup>nd</sup>–4<sup>th</sup> Line NSCLC<sup>6</sup> (KRAS<sup>G12C</sup>-driven)

**DCC-3116 + Encorafenib / Cetuximab**

2<sup>nd</sup>–3<sup>rd</sup> Line CRC<sup>7</sup> (BRAF-driven)

**DCC-3116 + QINLOCK**

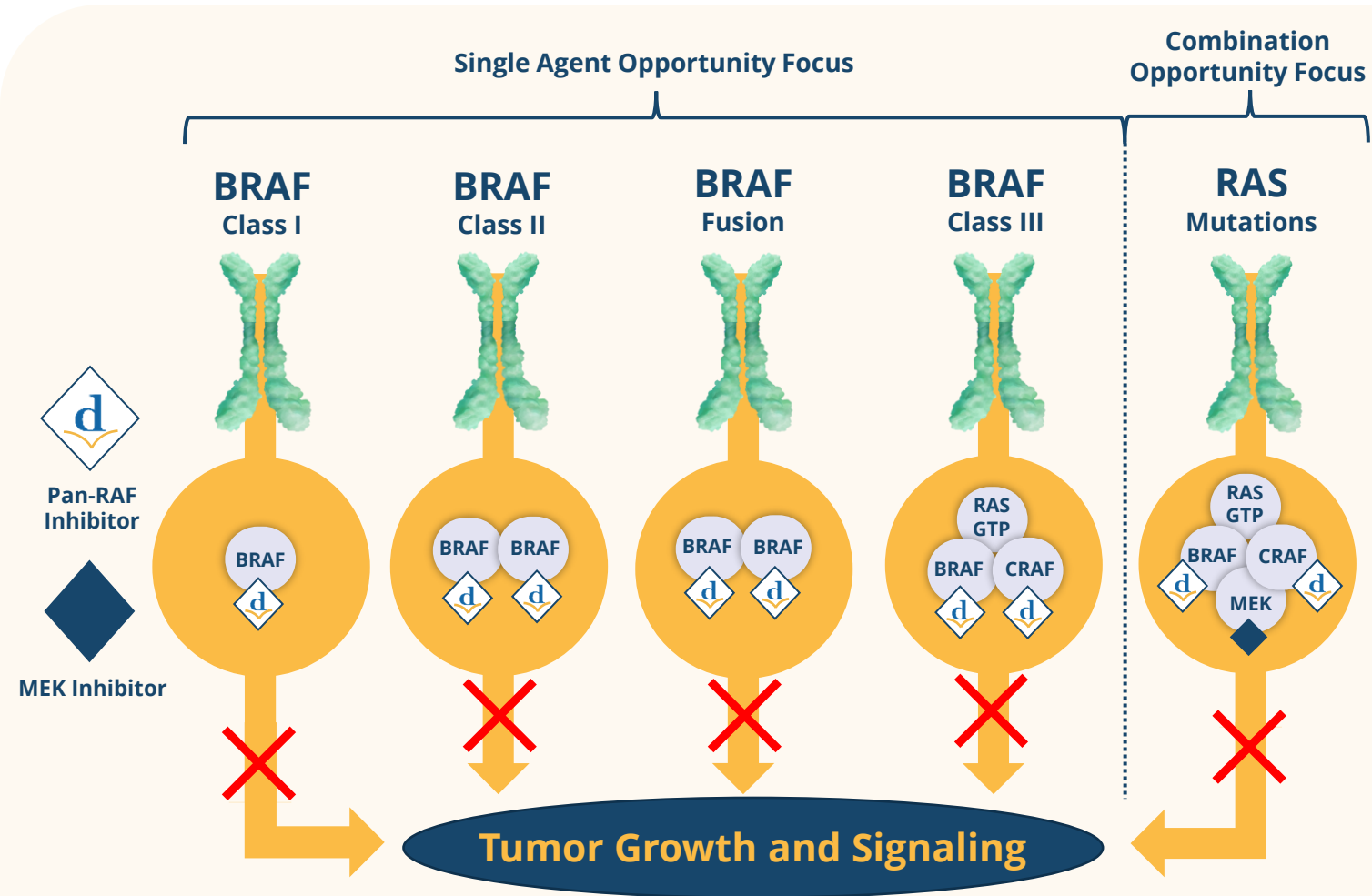
2<sup>nd</sup> Line GIST (KIT-driven)



**Notes:** CRC=colorectal cancer; G12C=single point mutation with a glycine-to-cysteine substitution at codon 12; KRAS=Kirsten rat sarcoma virus; MEK=MAPK/ERK kinase; MTD=maximum tolerated dose; NRAS=neuroblastoma RAS viral oncogene homolog; NSCLC=non-small-cell lung cancer; PDAC=pancreatic ductal adenocarcinoma; RAF=rapidly accelerated fibrosarcoma serine/threonine protein kinase; RAS=rat sarcoma gene; RP2D=recommended Phase 2 dose; (1) Corporate goal planned for 2H 2023; (2) Under the terms of the clinical trial collaboration and supply agreement with Pfizer, Inc., Deciphera will sponsor the trial and Pfizer will supply encorafenib at no cost; (3) with a documented mutation in KRAS; (4) with a documented mutation in KRAS, NRAS, NF1, or BRAF; (5) with a documented mutation in NRAS; (6) with a documented mutation in KRAS<sup>G12C</sup>; (7) with a documented mutation in BRAF.

# DCC-3084

# POTENTIAL BEST-IN-CLASS PAN-RAF INHIBITOR



- DCC-3084 is a potential best-in-class pan-RAF inhibitor
- Potent and selective inhibitor of BRAF and CRAF kinases targeting Class I, II, and III BRAF mutations as well as BRAF fusions and NRAS mutations
- DCC-3084 designed to be a best-in-class pan-RAF inhibitor based on differentiated pharmaceutical properties and *in vitro/in vivo* profile
- Strong pre-clinical data supports single agent and combination opportunities

**Nominated DCC-3084 as the clinical development candidate for the pan-RAF program**



# DRIVING INNOVATION THROUGH OUR PROVEN DISCOVERY ENGINE



Fueled by our **proprietary drug discovery platform**, we intend to advance new drug candidates into clinical development to continue to fulfill our mission to defeat cancer

## Expected 2023 Milestones

Nominate development candidate for pan-KIT Inhibitor

April 2023

Present data on the preclinical profile of DCC-3084

AACR 2023

Present new preclinical data from research programs

AACR 2023

Submit IND to FDA for DCC-3084

2H 2023

# EXPECTED 2023 MILESTONES

## QINLOCK

- ✓ Present additional data from Phase 3 INTRIGUE ctDNA analysis at an ASCO Plenary Session
- Initiate INSIGHT Phase 3 study in 2L KIT exon 11+17/18 GIST patients **(2H 2023)**
- Continue geographic expansion with launches in key European markets **(2023)**

## VIMSELTINIB

- ✓ Complete enrollment in the Phase 3 MOTION study
- Announce top-line results from MOTION study **(4Q 2023)**
- Present updated Phase 1/2 data in TGCT patients **(2H 2023)**

## DCC-3116

- Present updated Phase 1 single agent and initial combination dose escalation data **(2H 2023)**
- Initiate MEK/G12C expansion cohort(s); initiate escalation cohort for encorafenib/cetuximab **(2H 2023)**
- Present preclinical data on new combinations **(AACR 2023)**

## DCC-3084

- Submit IND to FDA **(2H 2023)**
- Present data on preclinical profile **(AACR 2023)**

## PROPRIETARY DRUG DISCOVERY PLATFORM

- Nominate development candidate for pan-KIT inhibitor **(April 2023)**
- Present new preclinical data from research programs **(AACR 2023)**



**Notes:** 2L=second-line; ASCO=American Society of Clinical Oncology; ctDNA=circulating tumor deoxyribonucleic acid; FDA=U.S. Food and Drug Administration; G12C=single point mutation with a glycine-to-cysteine substitution at codon 12; GIST=gastrointestinal stromal tumor; IND=Investigational New Drug Application; KIT=KIT proto-oncogene receptor tyrosine kinase; MEK=mitogen-activated extracellular signal-regulated kinase; TGCT= tenosynovial giant cell tumor.



## FINANCIAL HIGHLIGHTS

As of December 31, 2022

**Weighted-Average  
Shares  
Outstanding<sup>1</sup>**

**76.4MM**

*Weighted average shares includes outstanding common stock and common stock issuable upon exercise of prefunded warrants*

**Cash, Cash Equivalents  
& Marketable Securities**

**\$339MM**

**Cash Expected to Fund  
Operating Expenses  
and CapEx into 2026<sup>2</sup>**

**Public Offering:**  
(closed on January 24, 2023)

**8.0MM**  
(issued shares)

**\$143.7MM**  
(gross proceeds)

# THANK YOU



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