

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

April 18, 2023



# OPENING REMARKS



**Steve Hoerter**

*President and Chief Executive Officer*



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from the market, if we fail to comply with all regulatory requirements, our assumptions in connection with the market opportunity for the INSIGHT trial patient population including the aggregate potential revenue opportunity for QINLOCK, our ability to complete, and the costs and timing of completing, the development and commercialization of our drug and drug candidates, our success in enrolling patients in clinical trials, including in our clinical trials of vimseltinib or DCC-3116, the potential for serious adverse events or unacceptable side effects to be identified during the development of our drug or drug candidates, our ability to obtain or, if granted, retain orphan drug exclusivity for our drug or drug candidates; our 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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# AACR ANNUAL MEETING 2023 INVESTOR EVENT AGENDA

**Opening Remarks**

**Steve Hoerter**

*President and Chief Executive Officer*

**Our Switch-Control Platform**

**Dan Flynn, Ph.D.**

*Chief Scientific Officer and Founder*

**Pan-RAF (DCC-3084)**

**Stacie Bulfer, Ph.D.**

*Sr. Director, Biological Sciences*

**ULK (DCC-3116)**

**Madhumita Bogdan, Ph.D.**

*Sr. Principal Investigator, Biological Sciences*

**Pan-KIT (DCC-3009)**

**Bryan Smith, Ph.D.**

*Vice President, Biological Sciences*

**GCN2 (DP-9149)**

**Gada Al-Ani, Ph.D.**

*Sr. Principal Investigator, Biological Sciences*

**Closing Remarks**

**Steve Hoerter**

*President and Chief Executive Officer*

**Q&A**



# 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® (ripretinib) and Vimseltinib

**Two Phase 3 Programs**

**MOTION Top-line 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

## STRATEGIC PRIORITIES FOR 2023

**QINLOCK**<sup>®</sup> (ripretinib)

- 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 and with ripretinib

**DCC-3084**

- Submit IND to FDA

**Proprietary Drug Discovery Platform**

- Nominate development candidate for pan-KIT inhibitor (DCC-3009)

# OUR SWITCH-CONTROL PLATFORM



**Dan Flynn, Ph.D.**

*Chief Scientific Officer and Founder*



# DECIPHERA IS A LEADER IN KINASE BIOLOGY



**Two Decades** of  
Pioneering Research  
in Kinase Biology

**Novel Library**  
of Switch Control  
Inhibitors

**deciphera**<sup>®</sup>

**Proven Track Record**  
of Advancing Novel Drug  
Candidates from Research  
to the Clinic and to Patients

**Focused Investment**  
in Next Gen Research  
Programs to Provide First-  
or Best-in-Class Treatments



# SOLVING THE LIMITATIONS OF CLASSICAL KINASE INHIBITORS



**High Kinome Selectivity**

**Ability to Target Broad Spectrum of Kinase Mutations**

**Hinders Development of Mutational Resistance**

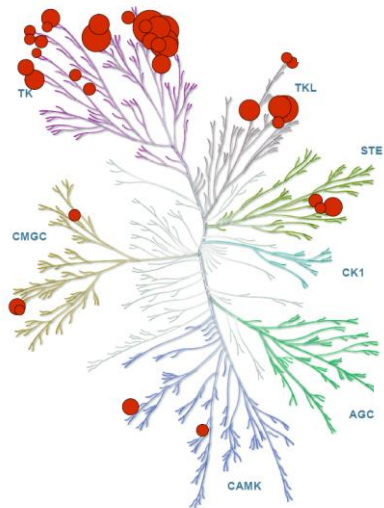
**Extended Residency Times** (Measured in Hours, Not Minutes)

**High Cellular Potency** (Cellular ATP Levels do not Compete)

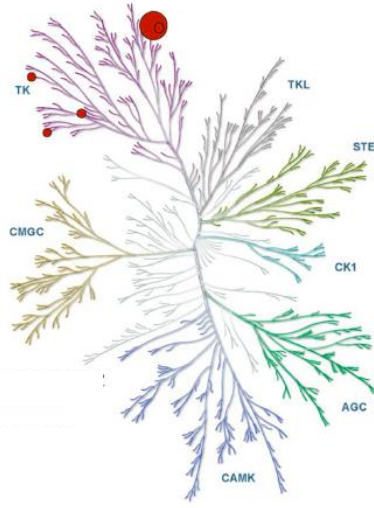
**Alternative Manipulation of Switches to Activate Kinases**

# SWITCH CONTROL PLATFORM ALLOWS FOR DESIGN OF HIGHLY SELECTIVE DRUG CANDIDATES

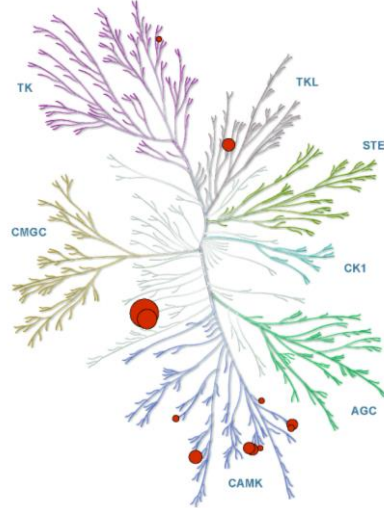
**QINLOCK**  
KIT Inhibitor



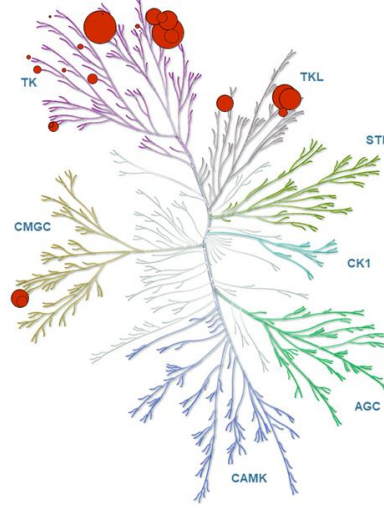
**VIMSELTINIB**  
CSF1R Inhibitor



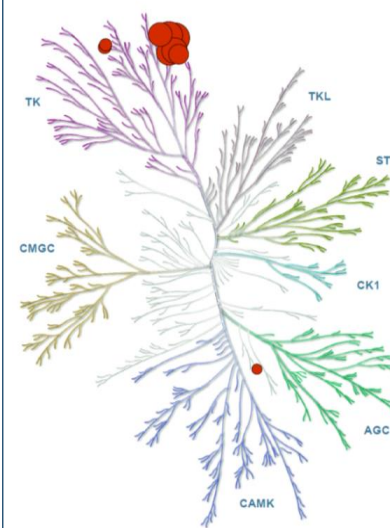
**DCC-3116**  
ULK Inhibitor



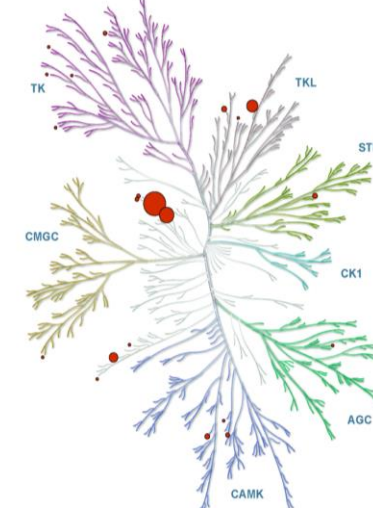
**DCC-3084**  
Pan-RAF Inhibitor



**DCC-3009**  
Pan-KIT Inhibitor

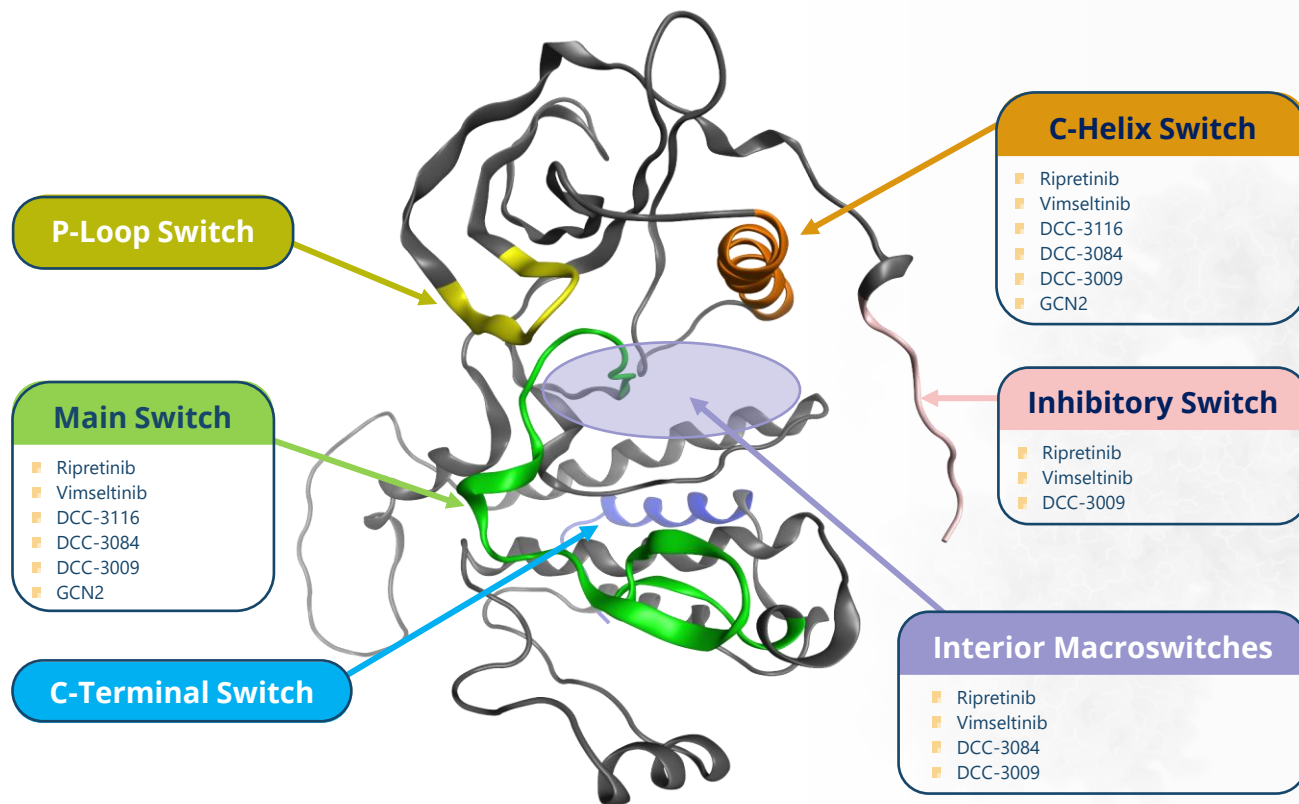


**DP-9149**  
GCN2 Activator



## DESIGNING MOLECULES TO INTERACT WITH THE KINASE SWITCH REGION

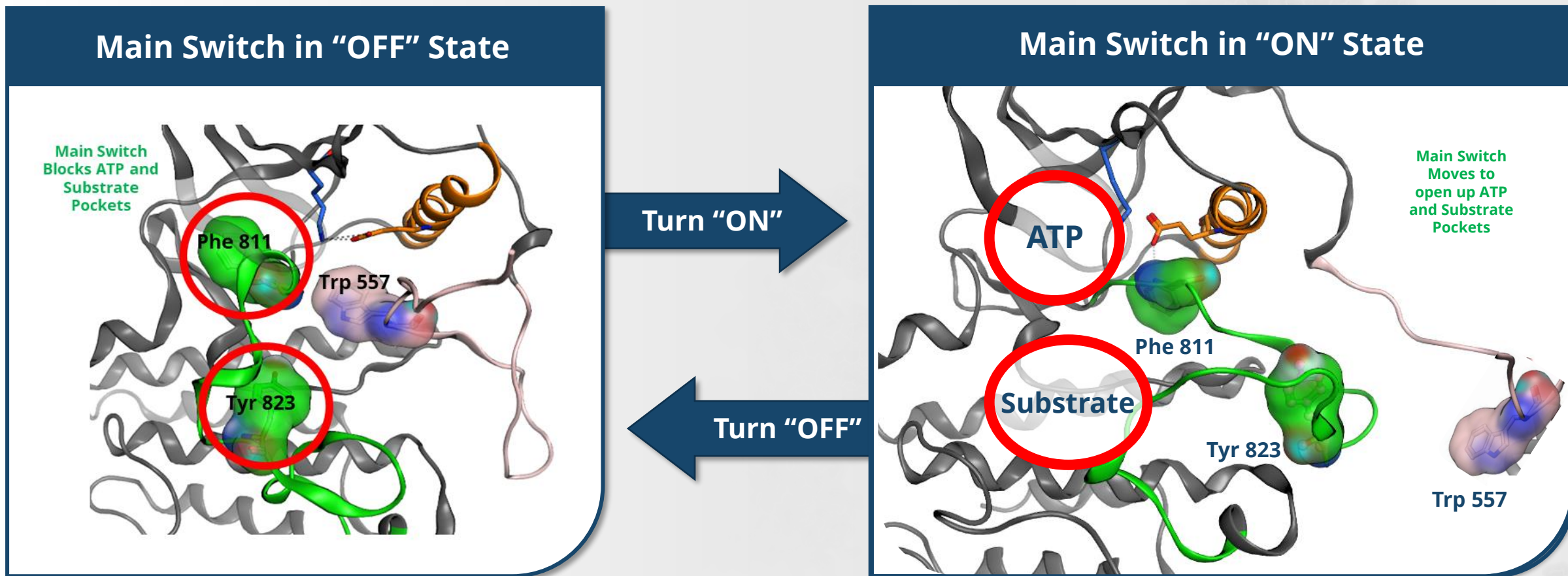
## Kinase Switch Regions for Regulation and Activation



Notes: GCN2=general control nonderepressible 2.

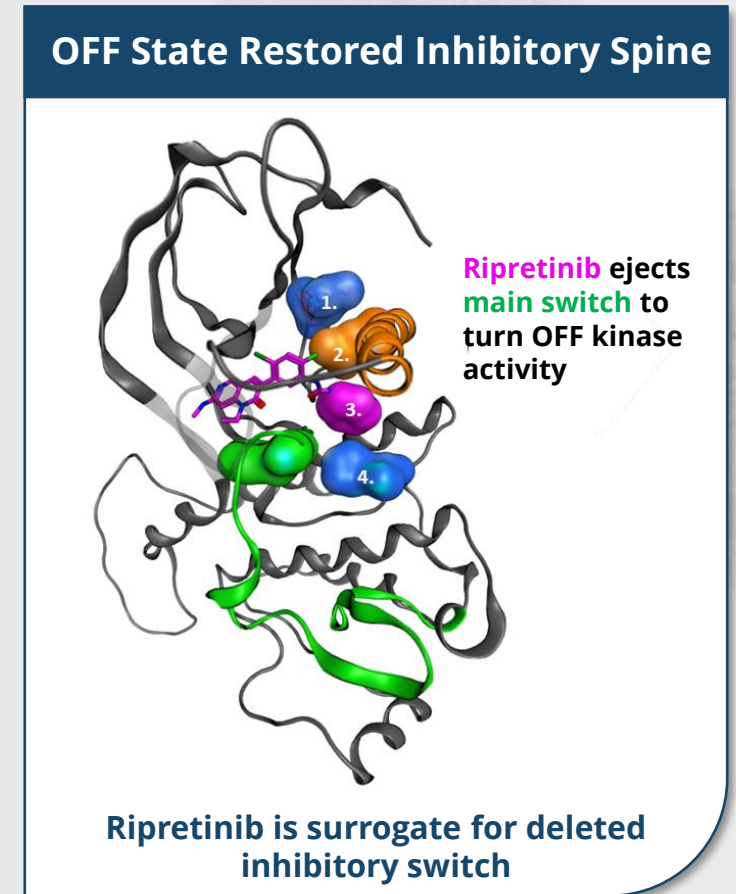
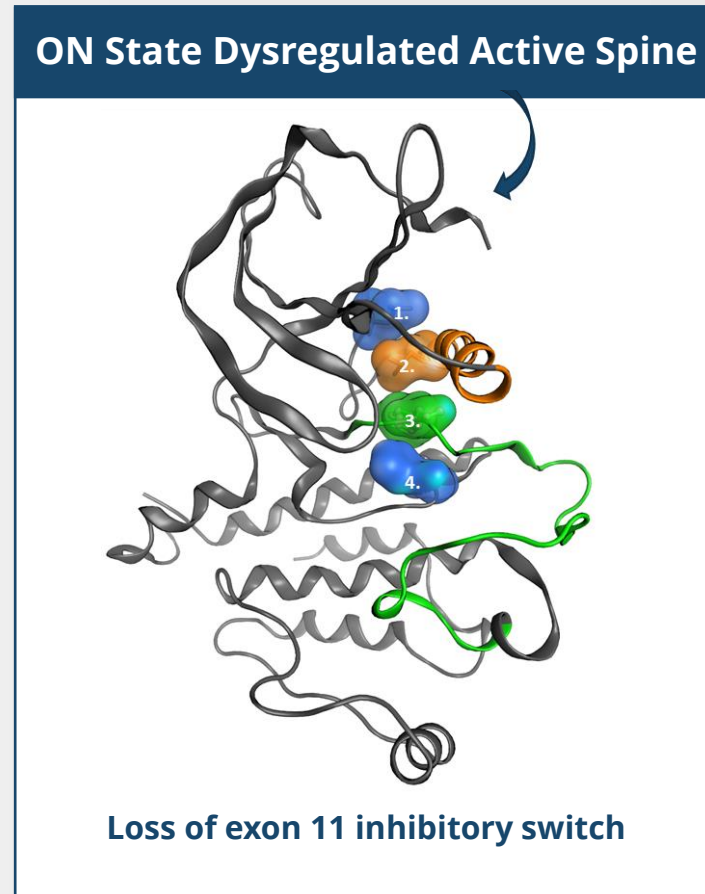
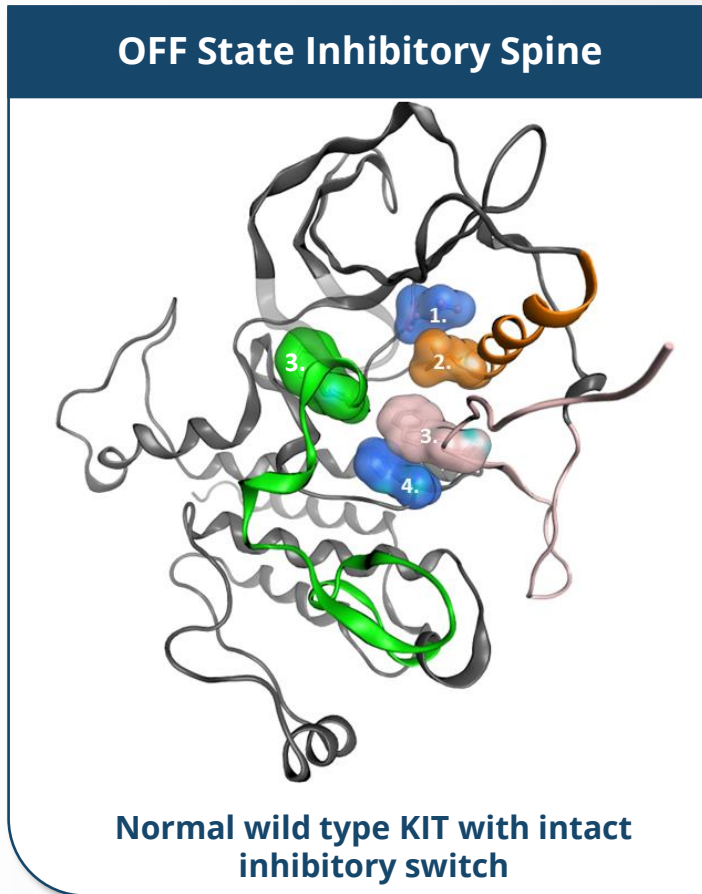
- Kinases are regulated by changes in their shapes controlled by various switch regions
- Unlike classical approaches to kinase inhibition, Deciphera's approach does not focus on binding into a pocket
- Deciphera's candidates bind to Switch Control Amino Acids to prevent kinase activation
- We take advantage of variation in the Switch Control Amino Acid environment to design highly specific molecules

# DUAL SWITCH KIT RECEPTOR TYROSINE KINASE ORCHESTRATES SHAPE CHANGES THAT REGULATE KINASE ACTIVITY



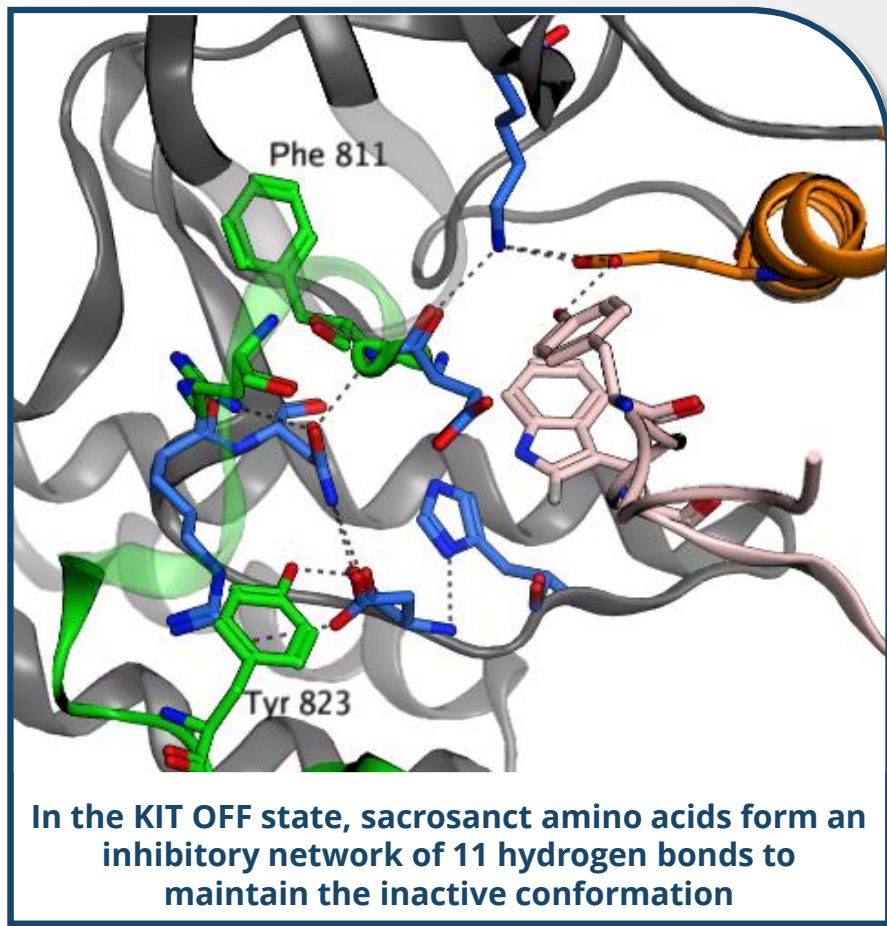
# RIPRETINIB SOLVES FOR LOSS OF KIT INHIBITORY SWITCH IN GIST

## Restoration of the Inhibitory Spine

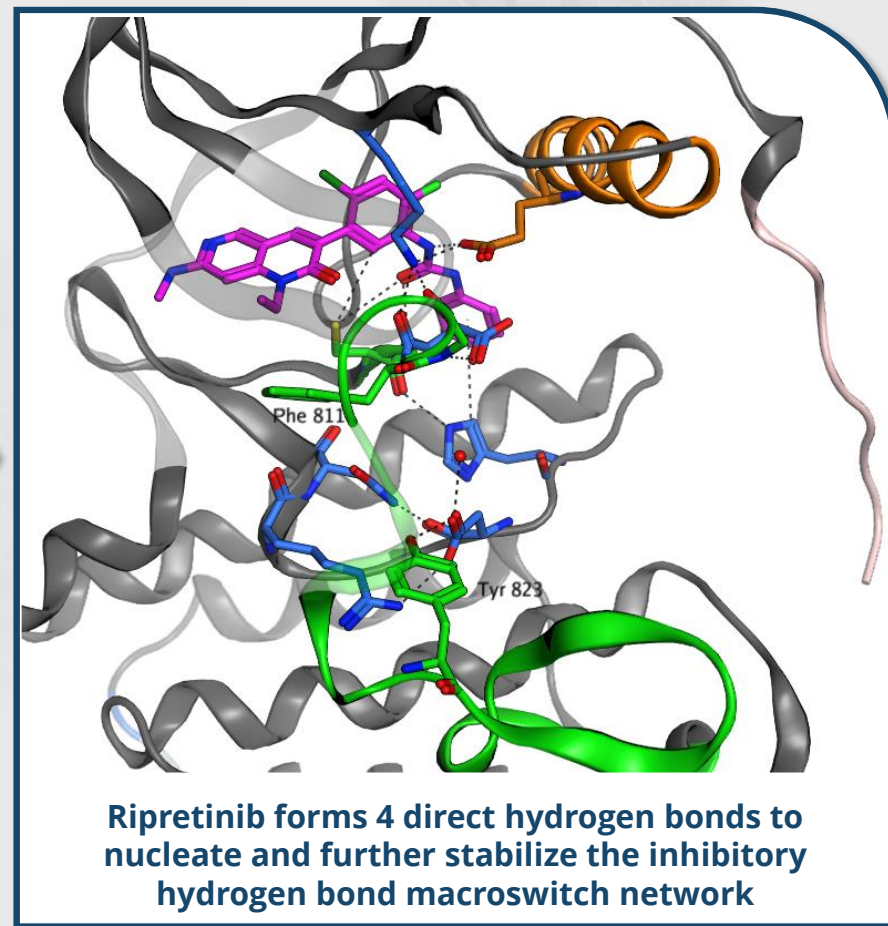


# RIPRETINIB STABILIZES THE INHIBITORY HYDROGEN BOND MACROSWITCH

## Binding to Sacrosanct Amino Acids

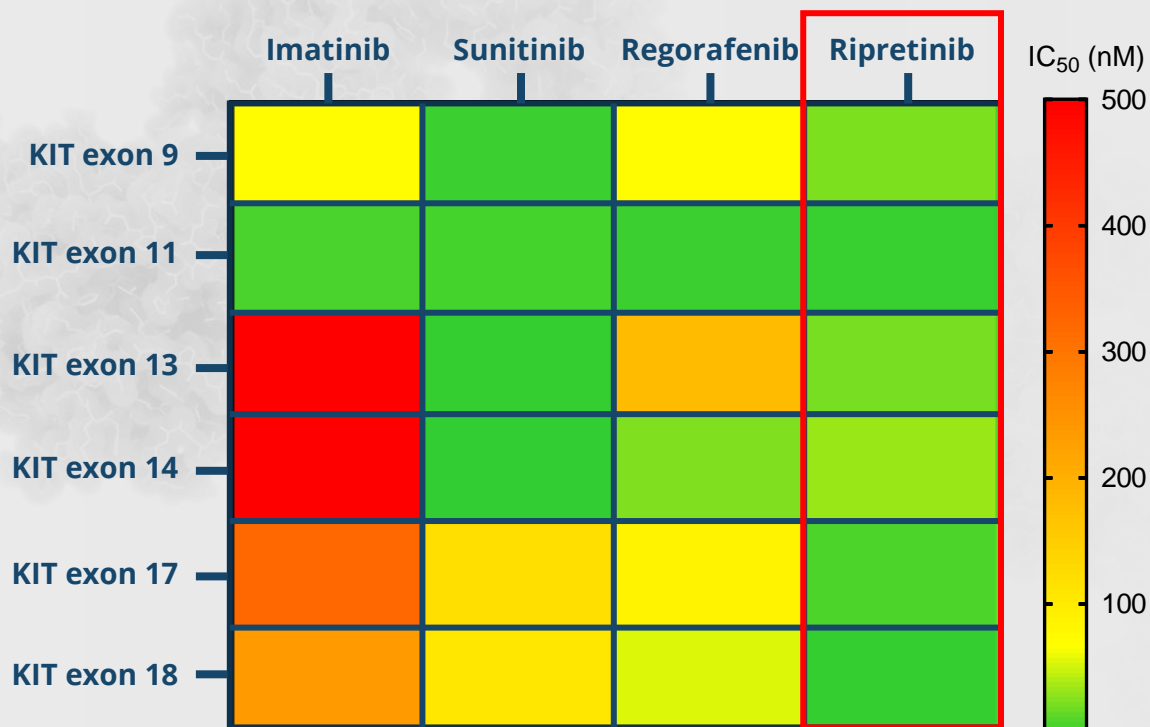


Ripretinib stabilizes main switch in the OFF state to block ATP and substrate pockets

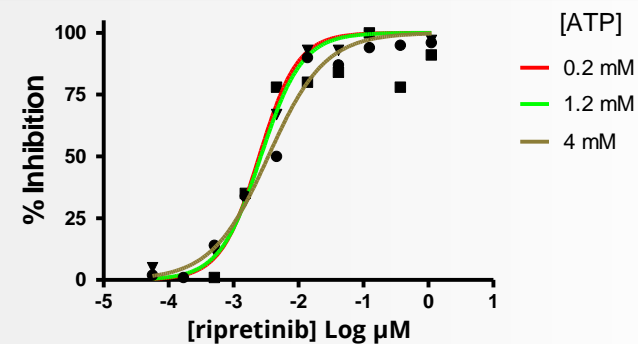


# DIFFERENTIATION FROM CLASSICAL INHIBITORS

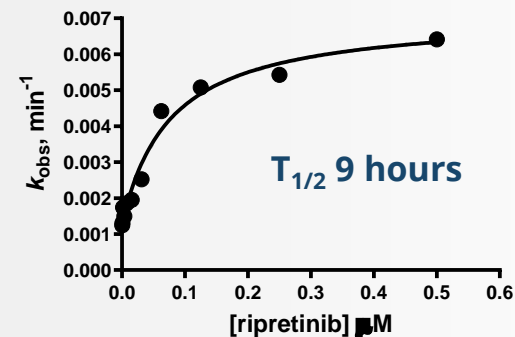
## Ripretinib Inhibits KIT Mutations Across Exons 9, 11, 13, 14, 17, and 18



## Ripretinib KIT Inhibition is Resilient to 4 mM ATP Concentration

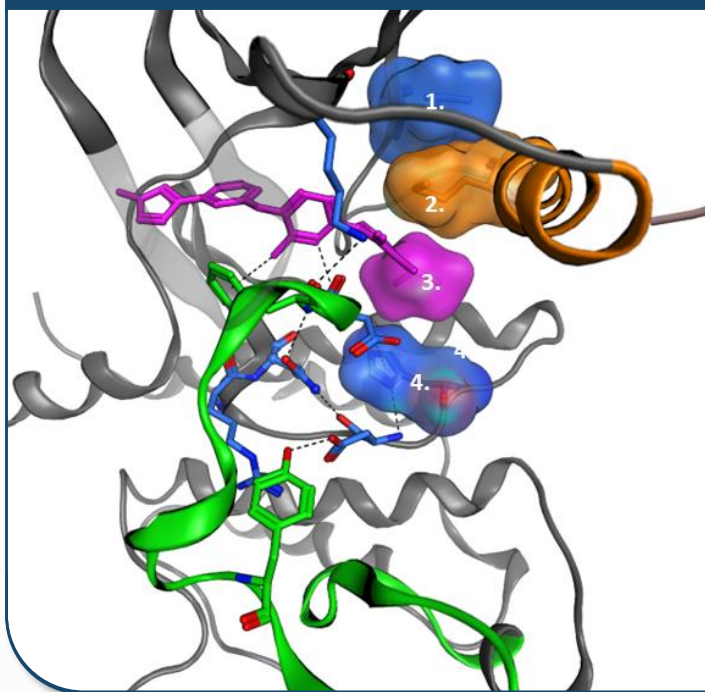


## Ripretinib Off-rate Analysis

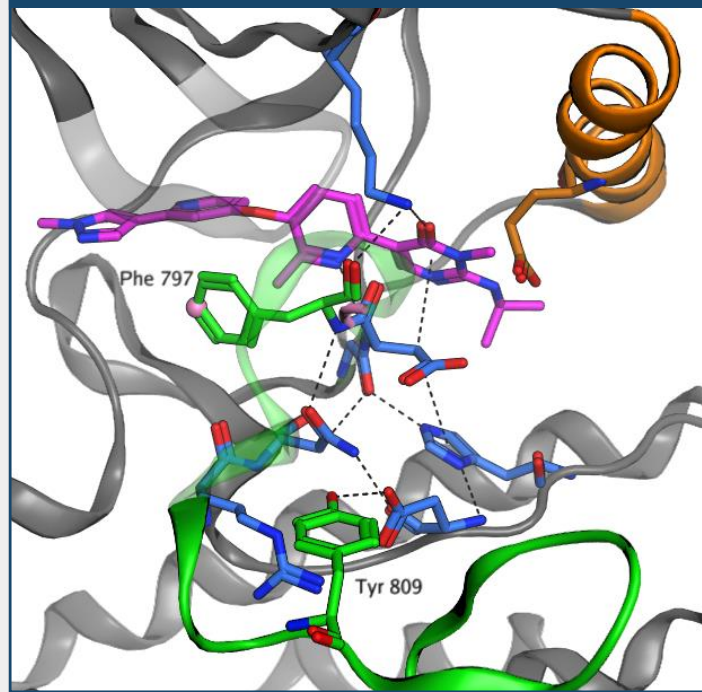


# CSF1R TYROSINE KINASE SWITCHES ARE SIMILAR TO KIT

**Vimseltinib Stabilizes Inhibitory Spine  
Macroswitch, Ejecting Main Switch  
to the OFF State**

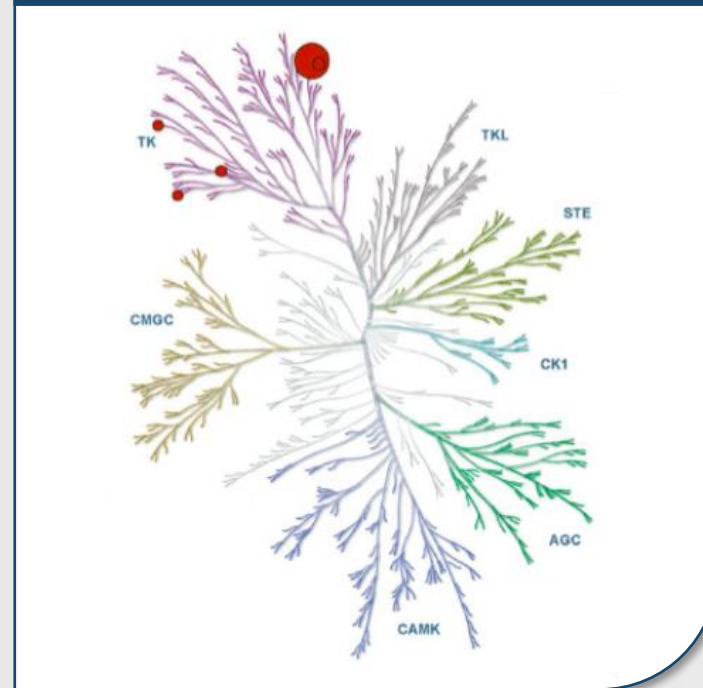


**Vimseltinib Nucleates Hydrogen  
Bond Macroswitch and Stabilizes  
Main Switch to the OFF State**



## Vimseltinib

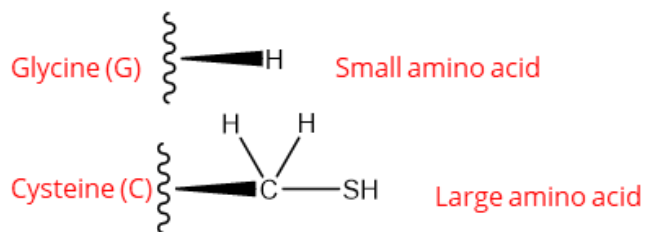
- High Target Selectivity
- Noncompetitive with ATP Concentrations
- Long Residency Time.  $T_{1/2}$  3 hours





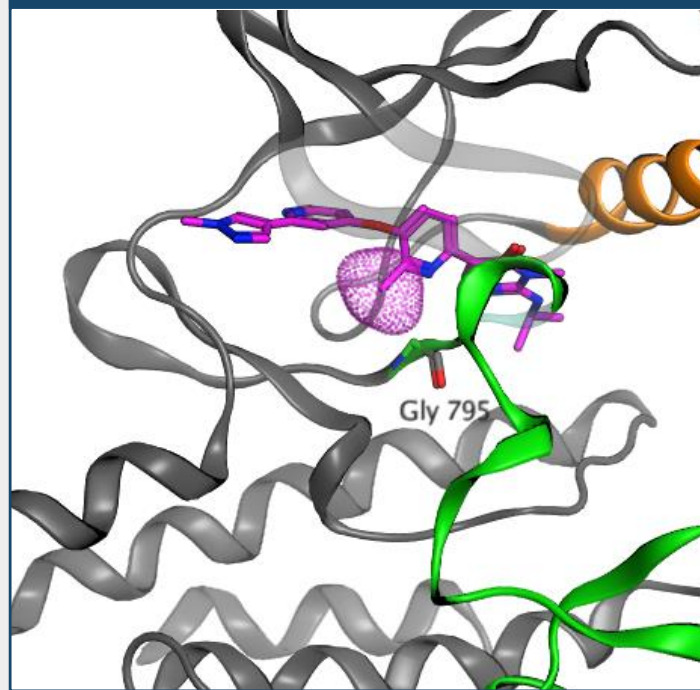
# UNIQUE RESIDUES IN CSF1R SWITCH ENABLE HIGH INHIBITOR SELECTIVITY

CSF1R has an Unusual Amino Acid Sequence in the Switch that was Mined for Selectivity

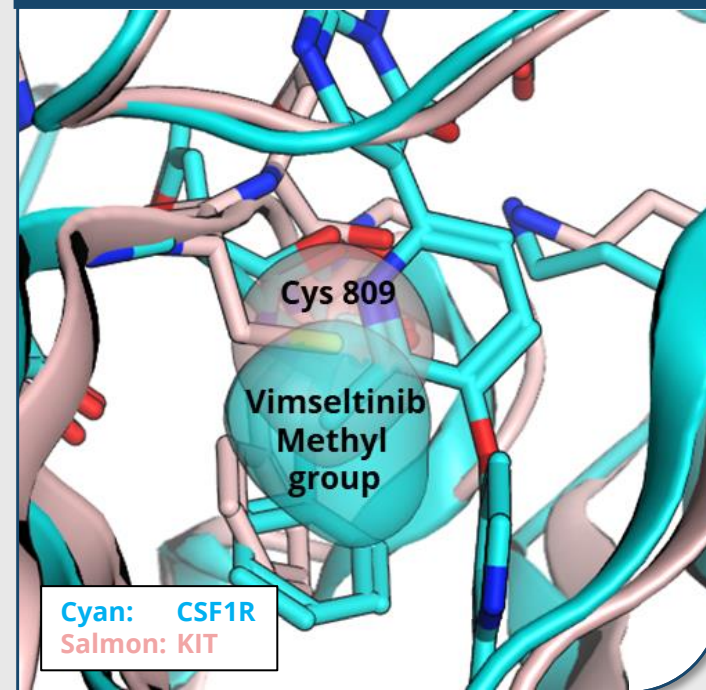


Kinase	Main Switch Region	IC <sub>50</sub> (nM)
CSF1R	-G-D-F-G-	3.0
KIT	-C-D-F-G-	1,600
FLT3	-C-D-F-G-	>3300
PDGFRA	-C-D-F-G-	>3300
PDGFRB	--C-D-F-G-	>3300

2-methyl Group of Vimseltinib Occupies Switch "Glycine 795 Hole" Not Available in other RTK Family Members

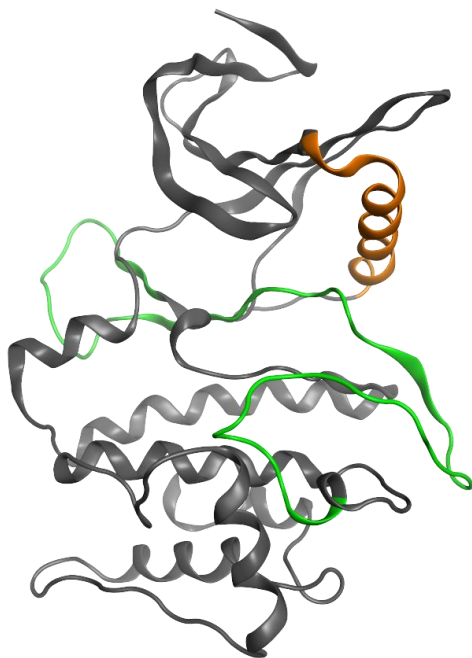


CSF1R Accommodates Vimseltinib at the Switch "Glycine 795 Hole" Whereas KIT does not Accommodate Due to Large Cys 809

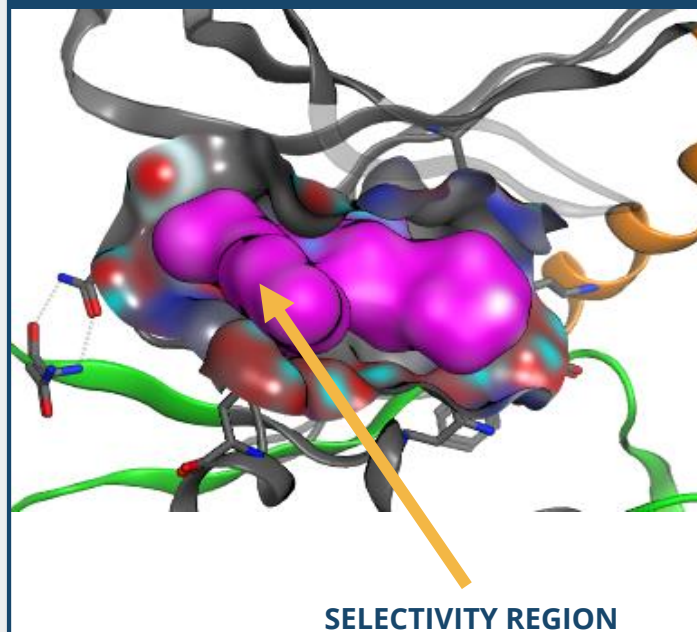


# ULK SERINE KINASE TYPE I SWITCH CONTROL INHIBITOR

## ULK has Unusual Main Switch

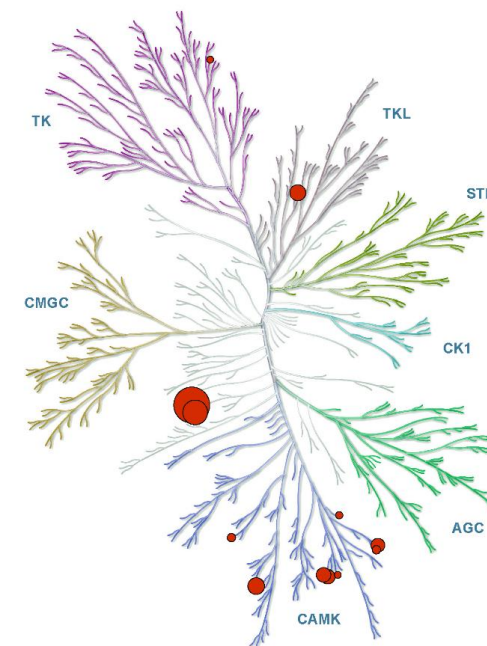


## Unique Selectivity Region Created by ULK Switch



## DCC-3116

- Highly Potent
- Highly Selective
- Extended Residency Time.  $T_{1/2}$  5 hours



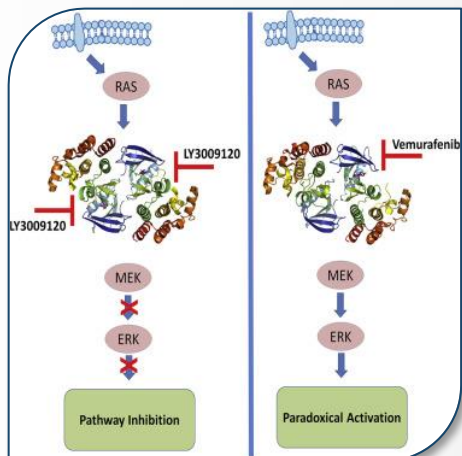
# DECIPHERA'S PIONEERING RESEARCH IDENTIFIED THE FIRST PAN-RAF DIMER INHIBITOR

## Cancer Cell

Inhibition of RAF Isoforms and Active Dimers by LY3009120 Leads to Anti-tumor Activities in RAS or BRAF Mutant Cancers

**Authors:** Sheng-Bin Peng, James R. Henry, Michael D. Kaufman, ..., Gregory D. Plowman, James J. Starling, and Daniel L. Flynn

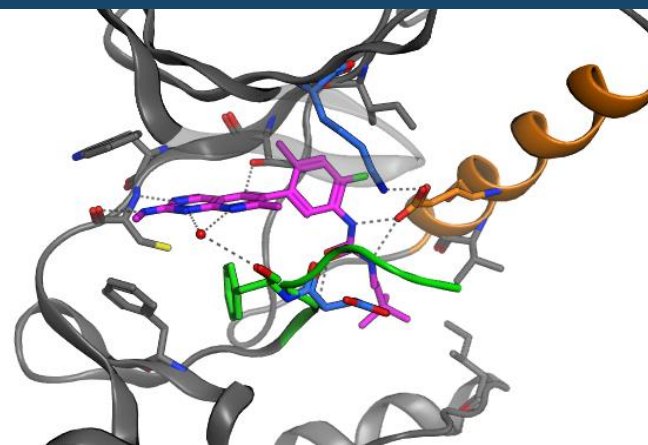
### Graphical Abstract:



### In Brief:

Peng et al. show that LY3009120 inhibits all RAF isoforms and inhibits BRAF and CRAF homodimers and heterodimer. Moreover, LY3009120 induces minimal paradoxical activation in BRAF wild type cells. Importantly, LY3009120 exhibits anti-tumor activities in models carrying oncogenic KRAS, NRAS, or BRAF mutations.

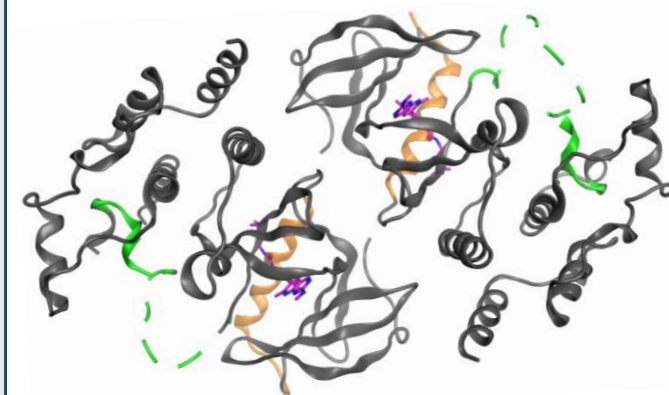
### Switch-Control Mechanism for Engineering a pan-RAF Dimer Inhibitor



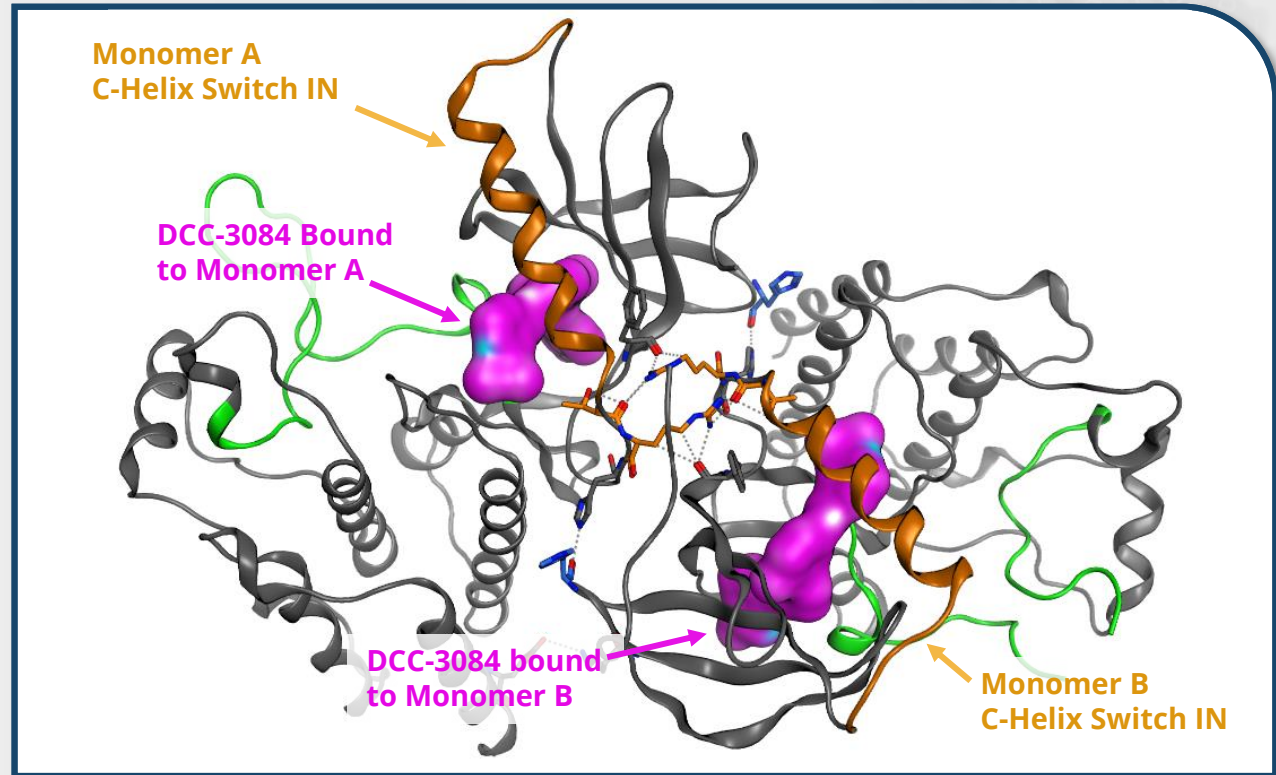
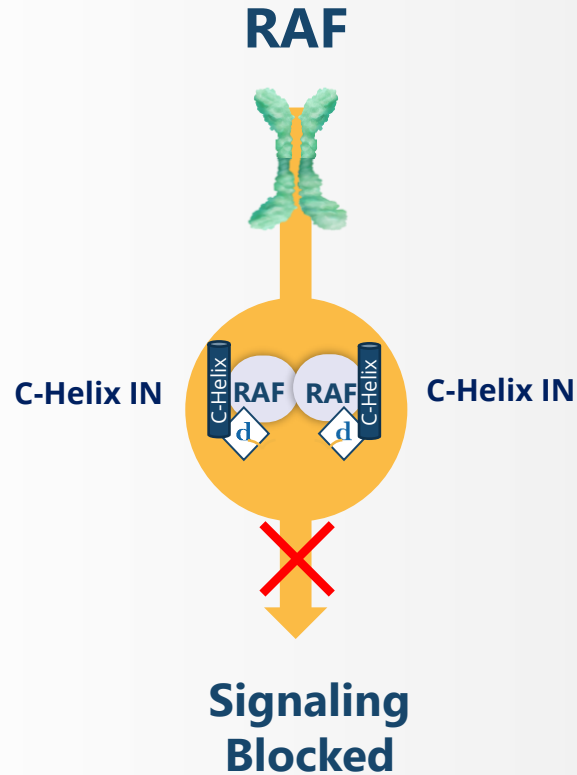
C-Helix Switch must be in the IN state

Main Switch must be in the DFG OUT state

### Note pan-RAF Inhibitor LY3009120 Bound into Both RAF Protomers



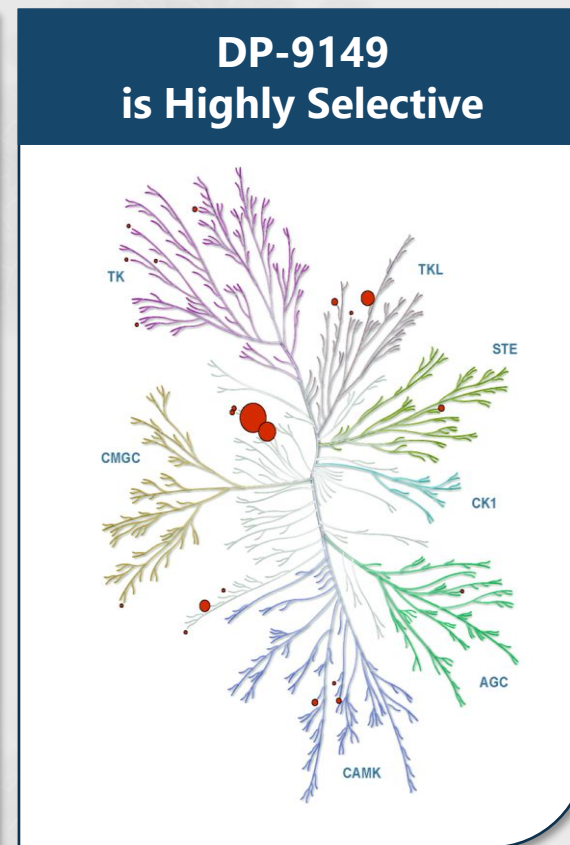
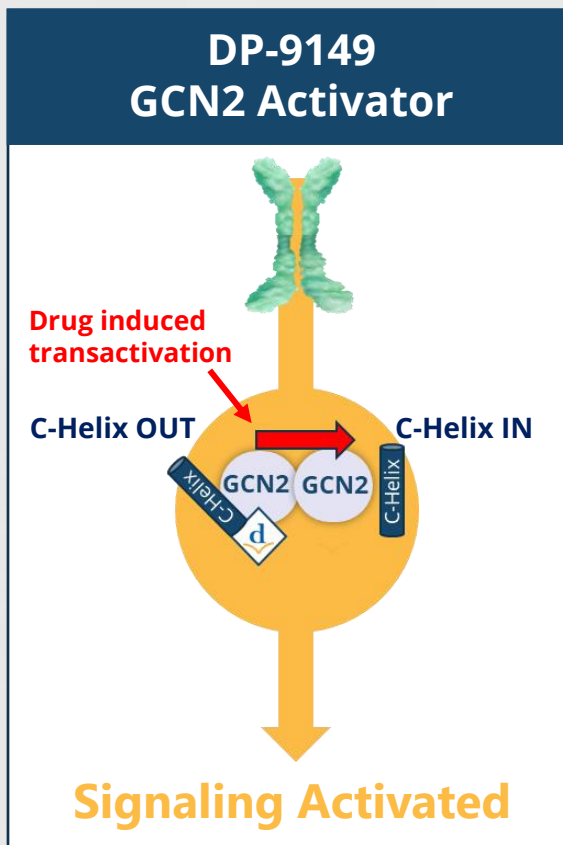
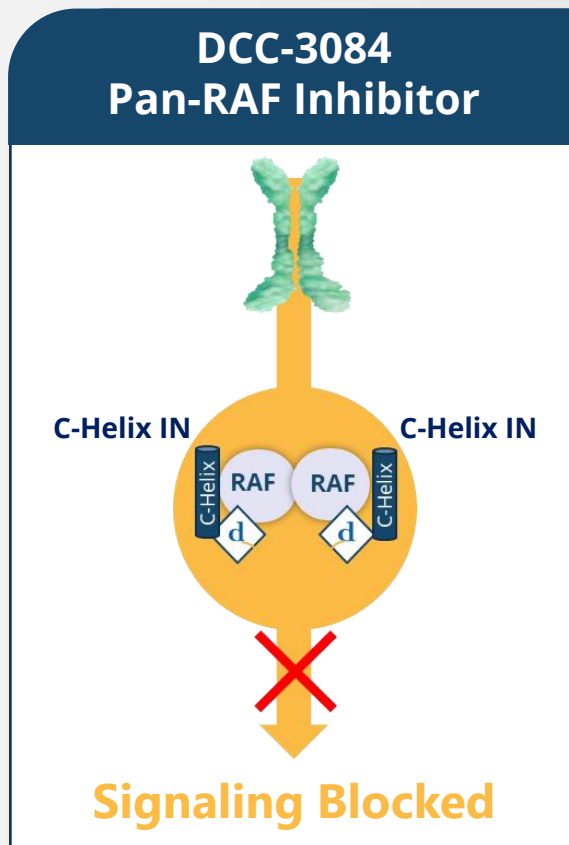
# OUR NEXT GENERATION PAN-RAF INHIBITOR DCC-3084 BINDS TO BOTH MONOMERS OF THE RAF DIMER



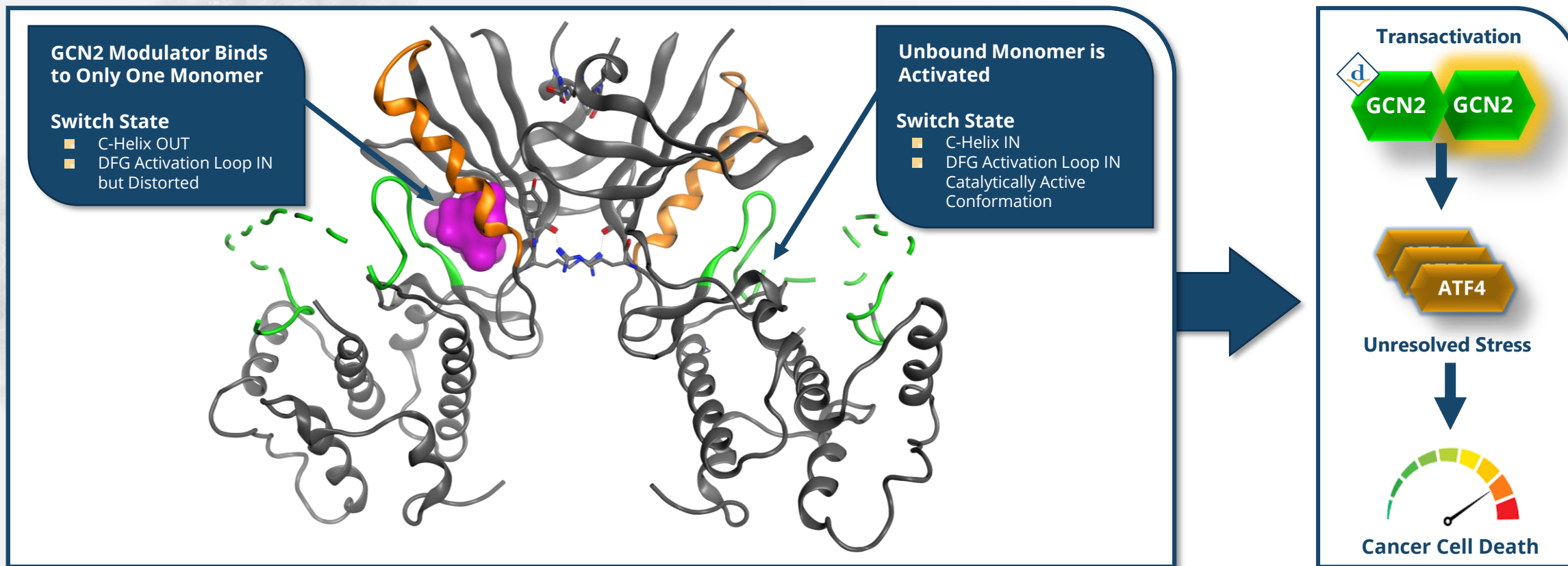
# GCN2 ACTIVATOR DP-9149 ENGINEERED BY FORCING C-HELIX SWITCH TO ADOPT THE OUT STATE

For **RAF inhibition**, DCC-3084 designed to induce a **C-Helix IN** state to facilitate **binding to BOTH monomers** and **block** dimer signaling....

For **GCN2 activation**, DP-9149 designed to induce a **C-Helix OUT** state to facilitate **binding to ONE monomer**, **transactivating** unoccupied monomer to signal.

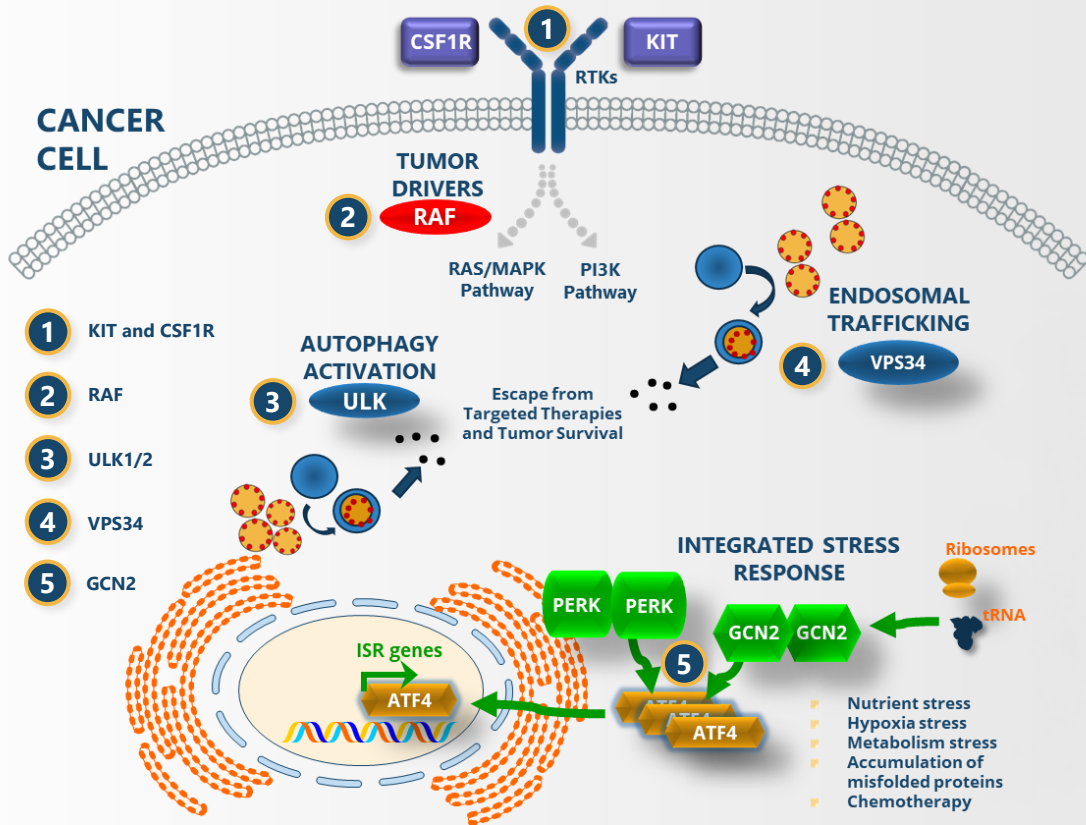


# SWITCH-CONTROL TRANSACTIVATION MECHANISM FOR GCN2



# TUMOR DRIVER STRESS CONDITIONS ACTIVATE CANCER ADAPTIVE STRESS RESPONSE PATHWAY SIGNALING

## Adaptive Stress Response Pathways



- **Cancer cells activate Adaptive Stress Response pathways** in order to enable their survival and continued proliferation under stressful conditions
- Kinases involved in Adaptive Stress Responses **resolve the stressors caused by tumor drivers**
- **Cancers can become addicted** to both tumor driver pathway and Adaptive Stress Response pathway signaling
- **Modulation of cancer Adaptive Stress Response pathways** are an important emerging field in targeted therapy

# 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 (Ripretinib)							
<b>DCC-3084</b> Pan-RAF Inhibitor	Solid Tumors and Hematologic Malignancies							
<b>DCC-3009</b> Pan-KIT Inhibitor	GIST							
<b>Additional Programs</b>	GCN2							
	VPS34 <sup>5</sup>							



**Notes:** BRAF=proto-oncogene b-RAF; CSF1R=colony-stimulating factor 1 receptor; EGFR=epidermal growth factor receptor; GCN2=general control nonderepressible 2; GIST=gastrointestinal stromal tumor; KIT=KIT proto-oncogene receptor tyrosine kinase; MAPK=mitogen-activated protein kinase; RAF=rapidly accelerated fibrosarcoma; RAS=rat sarcoma gene; TGCT=tenosynovial giant cell tumor; ULK=unc-51-like autophagy-activating kinase; (1) Exclusive development and commercialization license with Zai Lab in Greater China for QINLOCK; (2) The patient population for the planned INSIGHT study consists of second-line GIST patients with mutations in KIT exon 11 and 17 and/or 18 and the absence of mutations in KIT exon 9, 13, and/or 14 (also referred to as KIT exon 11 + 17/18 patients); (3) QINLOCK is approved for 4th line GIST in the United States, Australia, Canada, China, the European Union, Hong Kong, Israel, Macau, New Zealand, Switzerland, Taiwan, and the United Kingdom; (4) 2023 Corporate Goal; (5) Agreement with Sprint Bioscience for exclusive in-license worldwide rights to a research-stage program targeting VPS34.



# DCC-3084 (PAN-RAF INHIBITOR)

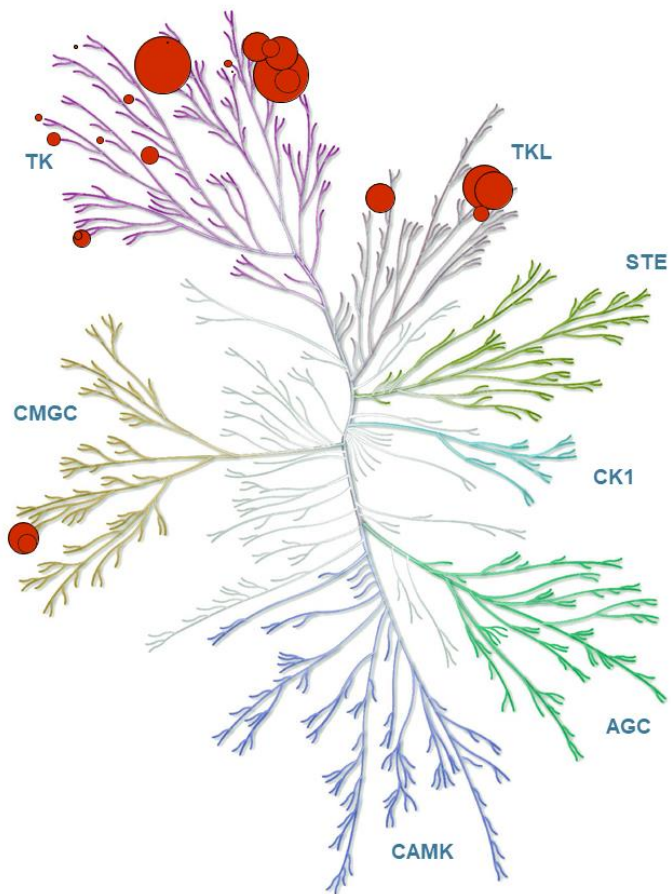


**Stacie Bulfer, Ph.D.**  
*Sr. Director, Biological Sciences*



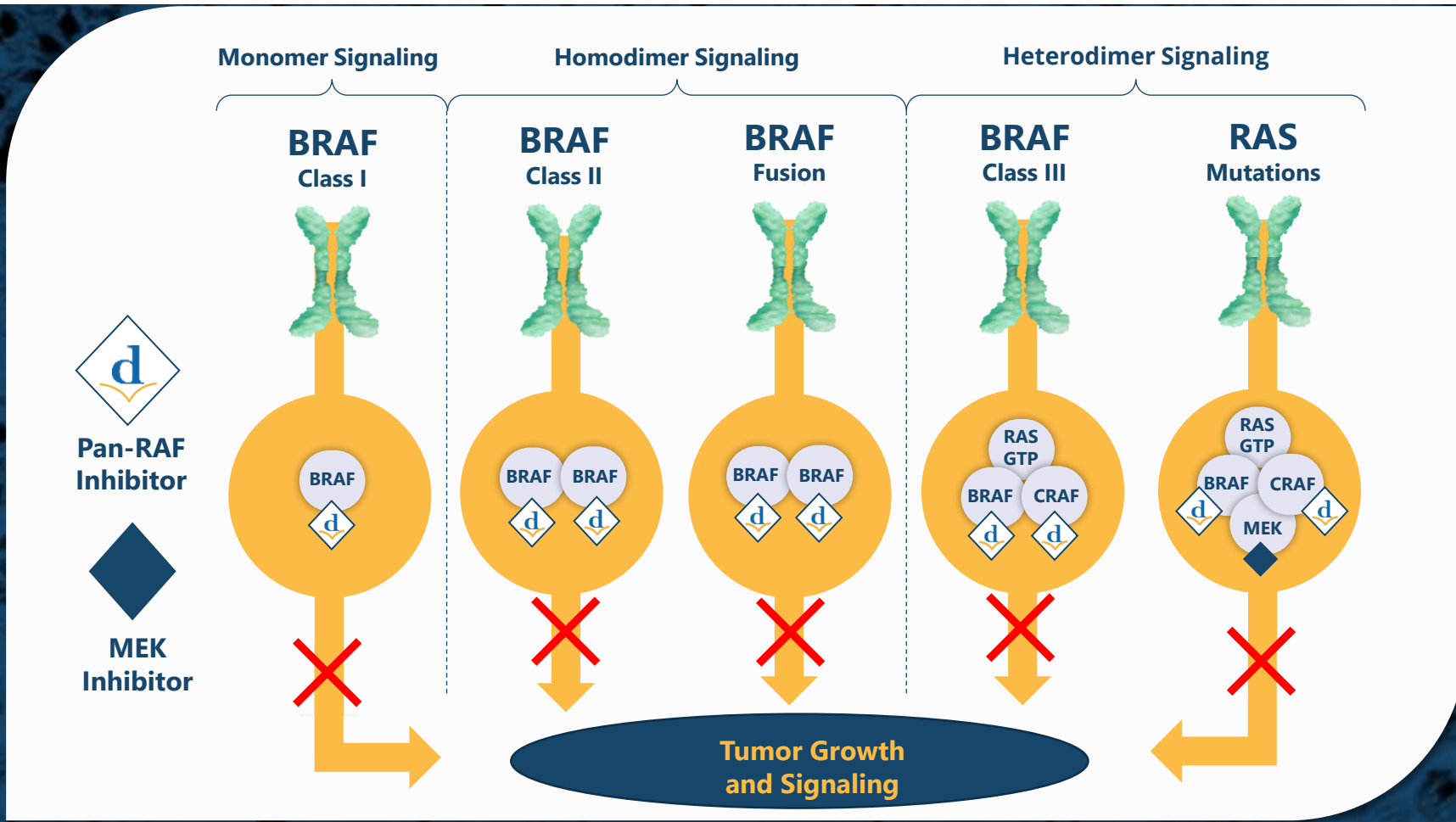
Notes: RAF=rapidly accelerated fibrosarcoma.

# DCC-3084 IS A POTENT AND SELECTIVE PAN-RAF INHIBITOR



- DCC-3084 is a **potential best-in-class pan-RAF inhibitor** engineered using Deciphera's proprietary switch-control platform
- **Potent and selective inhibitor of BRAF and CRAF kinases**, shown preclinically to target all relevant aberrant signaling mechanisms (monomers, homodimers, heterodimers)
- **High permeability, CNS penetrance**, and **solubility** at gastric pH to facilitate tumor access
- **Long residency time, low efflux**, and **transporter inhibition** to enable durable efficacy
- **Strong pre-clinical data** supports single agent use in RAF and RAS mutant cancers, and deeper responses in combination with MEK inhibitors

# POTENTIAL BEST-IN-CLASS BRAF/BRAF HOMODIMER AND BRAF/CRAF HETERODIMER INHIBITOR



Notes: BRAF=proto-oncogene b-RAF; CRAF=proto-oncogene c-RAF; GTP=guanosine triphosphate; MEK=mitogen-activated extracellular signal-regulated kinase; RAS=rat sarcoma gene.

# KEY PROPERTIES FOR A BEST-IN-CLASS PAN-RAF INHIBITOR

## Potency & Selectivity

- BRAF/CRAF inhibition of signaling via monomers, homodimers, and heterodimers
- Long on-target residency time
- Limited inhibition of off-target kinases

## Pharmaceutical Properties

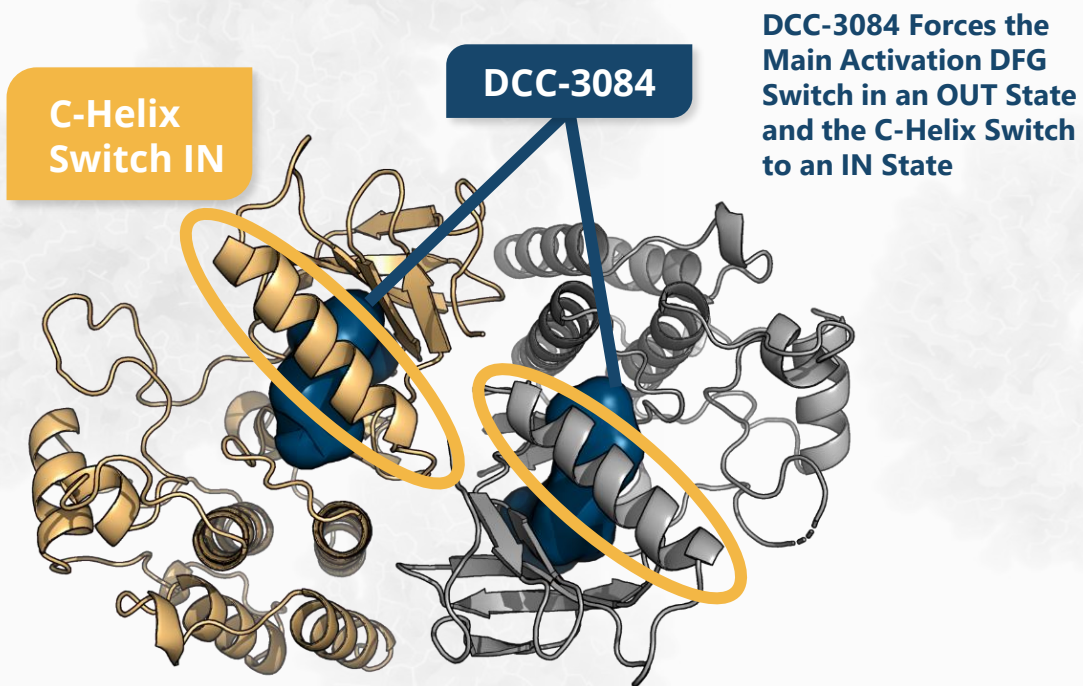
- High permeability, low efflux and inhibition of resistance transporters to maximize efficacy
- Improved solubility to enhance target inhibition

## Tissue Distribution

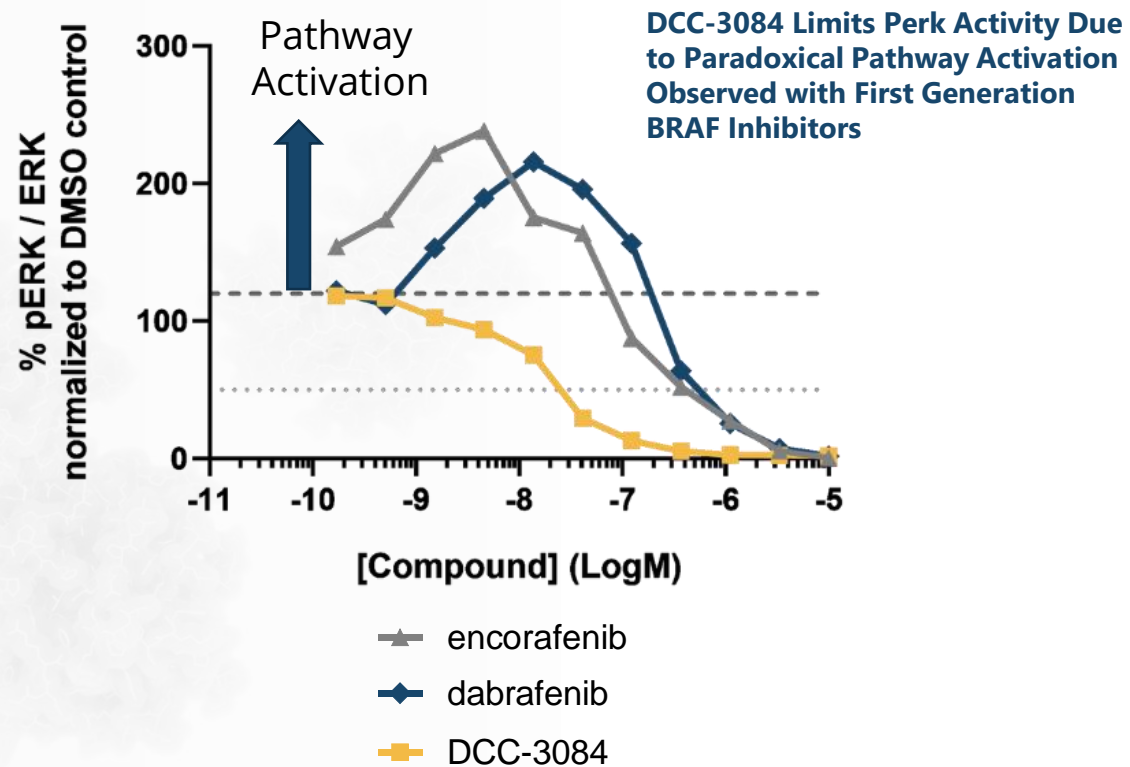
- High accumulation in tumor cells
- CNS penetration for primary and secondary brain tumors

# DCC-3084 LIMITS PARADOXICAL STIMULATION BY BINDING INTO BOTH MONOMERS USING SWITCH CONTROL APPROACH

## DCC-3084 Binds Both Monomers of a RAF Dimer



## HCT-116: KRAS G13D Colorectal Cell Lines



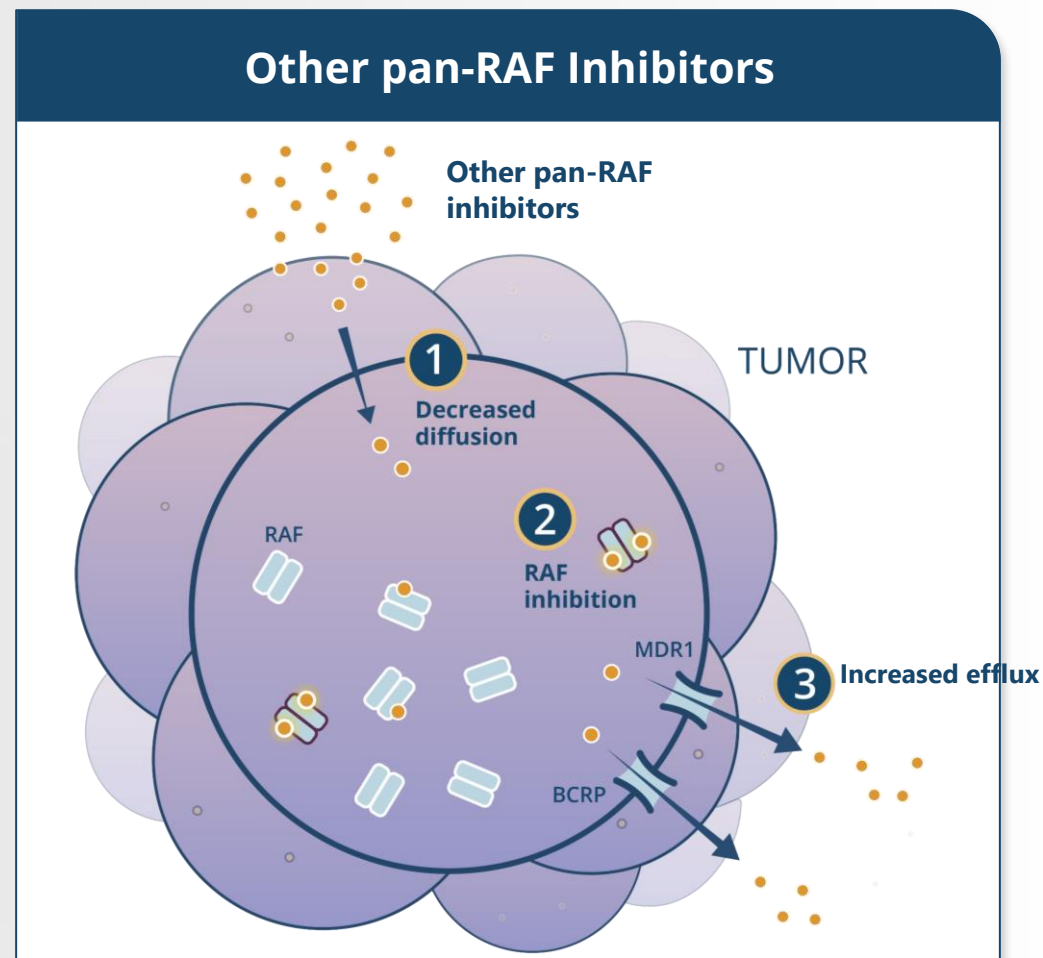
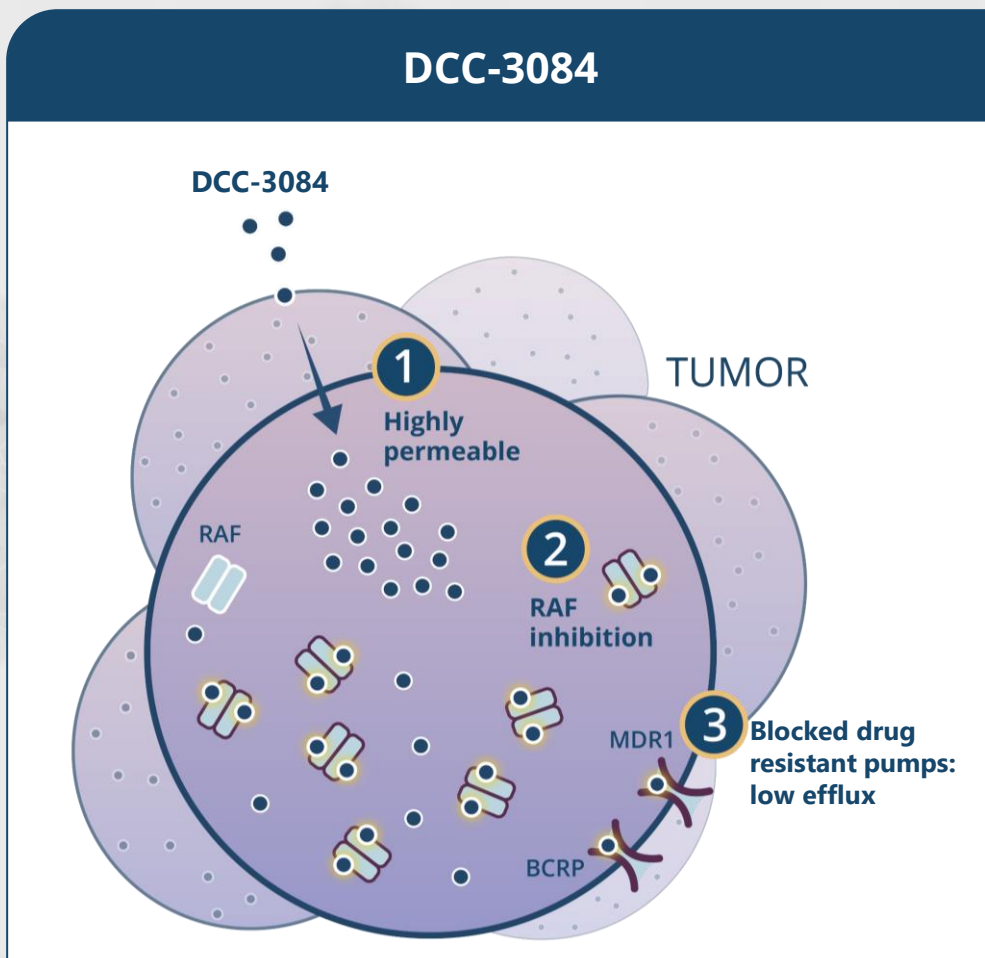
# DCC-3084 EXHIBITS OVERALL BEST-IN-CLASS INHIBITION OF CLASS I, II, AND III BRAF-MUTANTS AND RAF FUSION CELL LINES

Inhibitor	Class I		Class II		Fusion	Class III + NRAS	IC <sub>50</sub> (nM)
	A375	HT-29	BxPC-3	H2405	WM3928	WM3629	
<b>DCC-3084</b>	<b>54</b>	<b>13</b>	<b>61</b>	<b>74</b>	<b>42</b>	<b>3</b>	
tovorafenib	3,000	5,270	1,100	603	669	305	
naporafenib	438	228	19	465	90	3	
belvarafenib	144	128	59	149	14	2	
exarafenib	170	101	254	549	98	17	
JZP815	141	47	200	47	133	2	



Notes: Data presented at the AACR Annual Meeting 2023; BRAF=proto-oncogene b-RAF; NRAS=neuroblastoma RAS viral oncogene homolog; RAF=rapidly accelerated fibrosarcoma serine/threonine protein kinase.

# DCC-3084 HAS EXCELLENT PERMEABILITY, LOW EFFLUX AND IS A STRONG INHIBITOR OF THE MDR1 AND BCRP DRUG RESISTANCE TRANSPORTERS



# DCC-3084 SHOWED OPTIMIZED PHARMACEUTICAL PROPERTIES FOR ORAL ADMINISTRATION

- DCC-3084 has **good solubility at gastric pH** to allow for oral absorption
- DCC-3084 has **high cellular permeability** and **low efflux** to aid accumulation in tumor tissue
- Inhibition of **drug resistant transporters** enables durable efficacy
- DCC-3084 does **not inhibit human liver cytochrome P450** isoforms (CYPs).

Pharmaceutical Property	Result
Solubility, pH 1.6	408 $\mu$ M
Caco2 Cell Permeability	$10 \times 10^{-6}$ cm/s
Caco2 Efflux Ratio	0.9
MDCK1-MDR1 Permeability	$21 \times 10^{-6}$ cm/s
MDCK1-MDR1 Efflux Ratio	0.9
MDCKII - BCRP Permeability	$33 \times 10^{-6}$ cm/s
MDCKII - BCRP Efflux Ratio	0.8
MDR1 Inhibition	IC <sub>50</sub> = 79 nM
BCRP Inhibition	IC <sub>50</sub> = 74 nM
CYP inhibition (1A2, 2D6, 3A4-M)	>50,000 nM
CYP inhibition (3A4-T, 2B6)	>9,000 nM
CYP inhibition (2C19)	>5,000 nM
CYP inhibition (2C8, 2C9)	>2,000 nM



# DCC-3084 EXHIBITS STRONG ACCUMULATION IN TUMORS AND SUPERIOR CNS PENETRATION

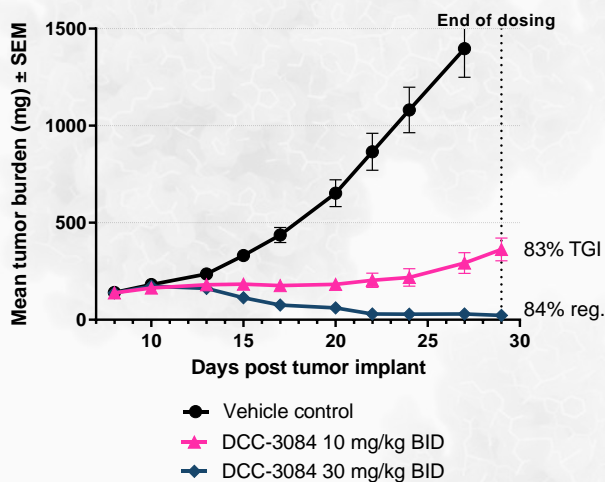
- DCC-3084 accumulated in tumor tissue at a ratio between **1.7x and 1.9x (tumor/plasma)**
- DCC-3084 had **higher CNS penetration** enabled by inhibition of efflux transporters
- Enables potential for use in **brain metastases** (i.e. lung and melanoma) or **primary brain cancer**, areas with high unmet medical needs

Inhibitor	AUC [brain] / AUC [plasma]	Kp <sub>u/u</sub>	Classification
<b>DCC-3084</b>	<b>0.49</b>	<b>0.30</b>	<b>Moderate</b>
tovorafenib	0.33	0.05	Low
naporafenib	0.11	0.05	Low
belvarafenib	1.74	0.87	High
exarafenib	0.02	0.01	Low

# DCC-3084 PRODUCES TUMOR REGRESSIONS IN BRAF MUTANT CANCER MODELS AS A SINGLE AGENT

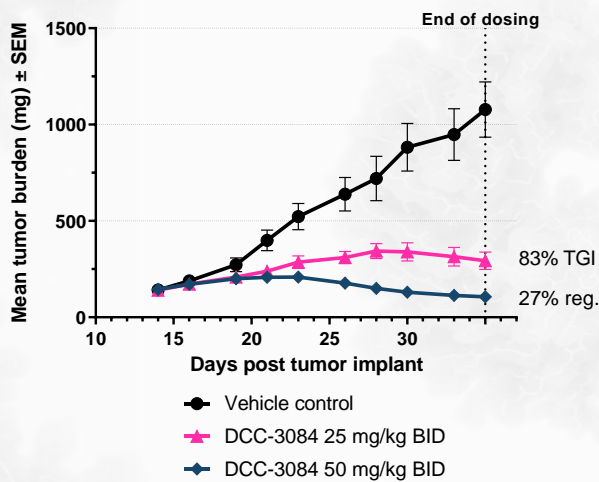
## BRAF Class I

**A375:** BRAF Mutant Melanoma Model



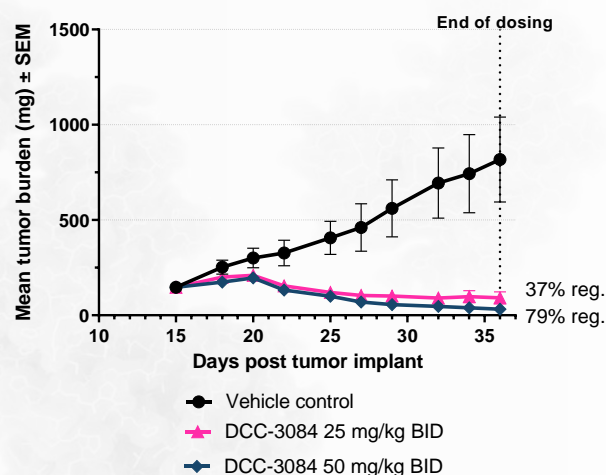
## BRAF Class II

**BxPC-3:** BRAF Mutant Pancreatic Model



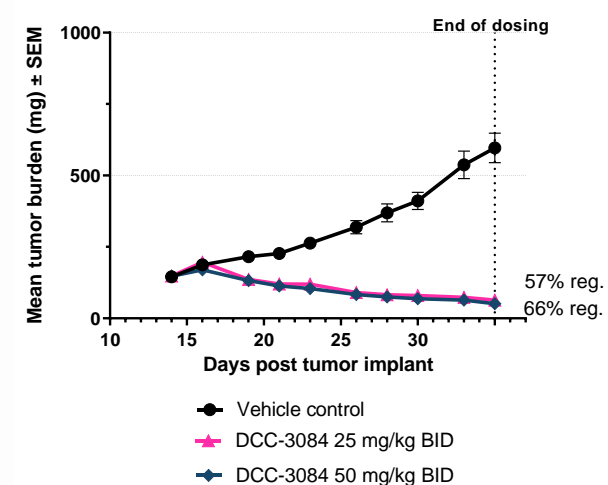
## BRAF Fusion

**WM3928:** SKAP2-BRAF Fusion Melanoma Model



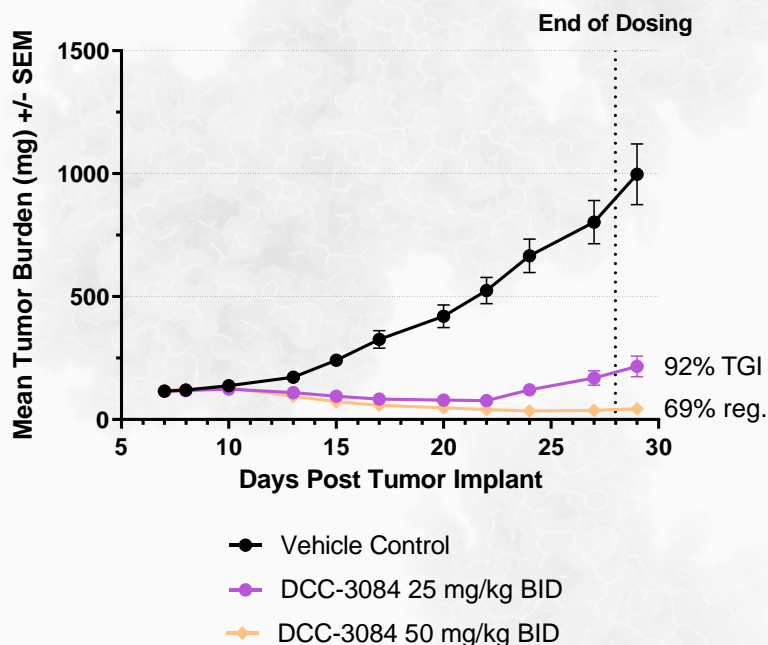
## BRAF Class III

**WM3629:** BRAF plus NRAS G12D Melanoma Model

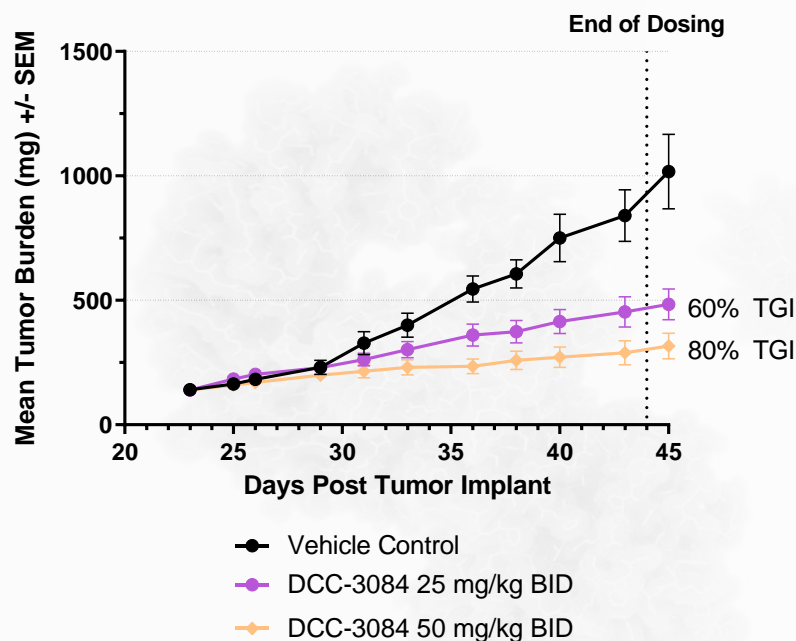


# DCC-3084 PRODUCES SINGLE AGENT TUMOR REGRESSION OR TUMOR GROWTH INHIBITION IN MUTANT RAS MODELS DRIVEN BY BRAF/CRAF

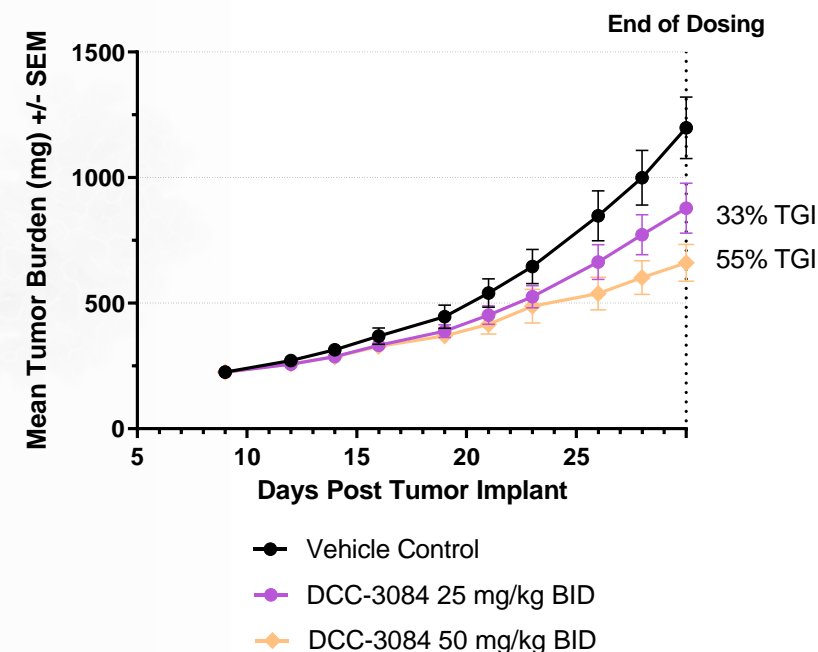
## Calu-6: KRAS Q61K Lung Cancer



## H358: KRAS G12C Lung Cancer

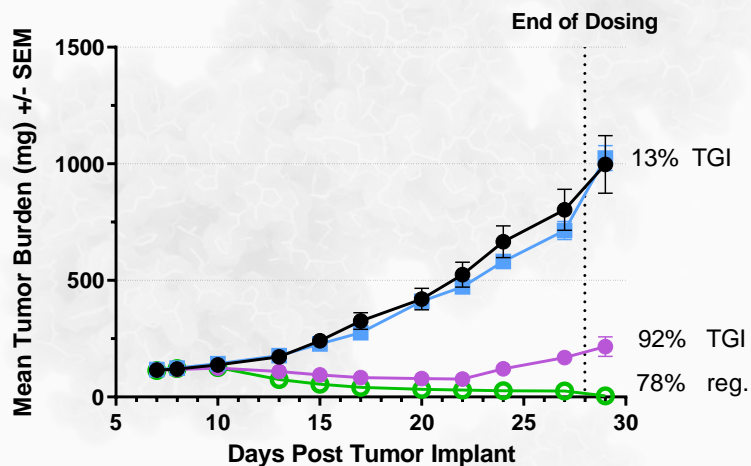


## HPAF-II: KRAS G12D Pancreatic Cancer



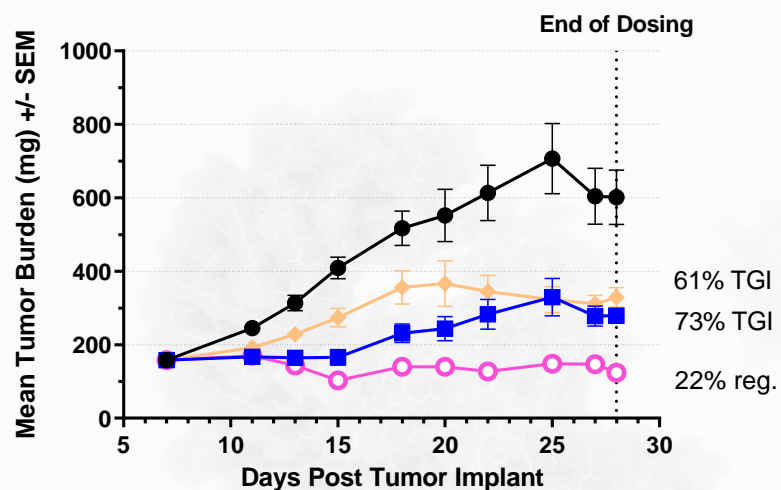
# DCC-3084 PRODUCES DEEPER TUMOR REGRESSION IN KRAS MUTANT CANCER MODELS IN COMBINATION WITH MEK INHIBITORS

## Calu-6: KRAS Q61K Lung Cancer



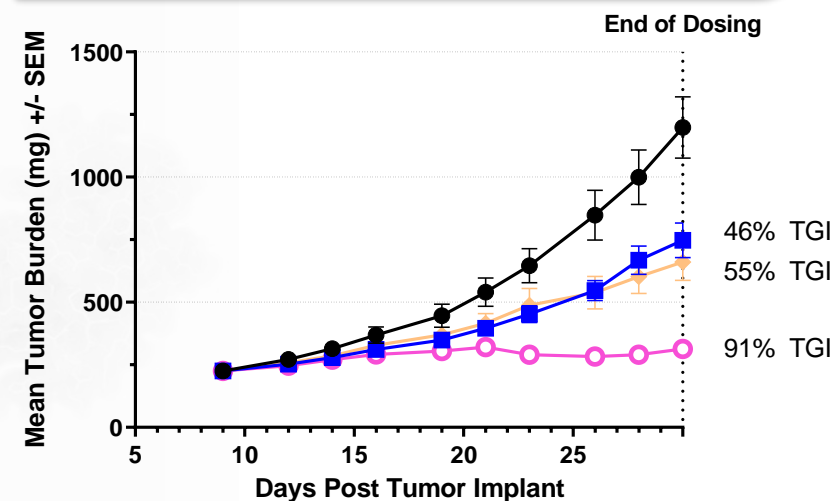
- Vehicle Control
- cobimetinib 1 mg/kg QD
- DCC-3084 25 mg/kg BID
- DCC-3084 25 mg/kg BID + cobimetinib 1 mg/kg QD

## H358: KRAS G12C Lung Cancer



- Vehicle Control
- binimetinib 5 mg/kg QD
- DCC-3084 50 mg/kg BID
- DCC-3084 50 mg/kg BID + binimetinib 5 mg/kg QD

## HPAF-II: KRAS G12D Pancreatic Cancer



- Vehicle Control
- binimetinib 5 mg/kg QD
- DCC-3084 50 mg/kg BID
- DCC-3084 50 mg/kg BID + binimetinib 5 mg/kg QD

# DCC-3084 IS A POTENTIAL BEST-IN-CLASS PAN-RAF INHIBITOR

- DCC-3084 is a potent and selective inhibitor of BRAF and CRAF kinases, shown preclinically to target all relevant aberrant signaling mechanisms (monomers, homodimers, heterodimers)
- DCC-3084 exhibits high permeability, good central nervous system penetrance, and tumor tissue accumulation
- DCC-3084 exhibits long residency time, low efflux, and transporter inhibition to enable durable efficacy
- Strong pre-clinical data in cancers driven by RAF or RAS mutations supports exploration of single agent and combination opportunities

 **IND Submission Expected in 2H 2023**

# DCC-3116 (ULK INHIBITOR)



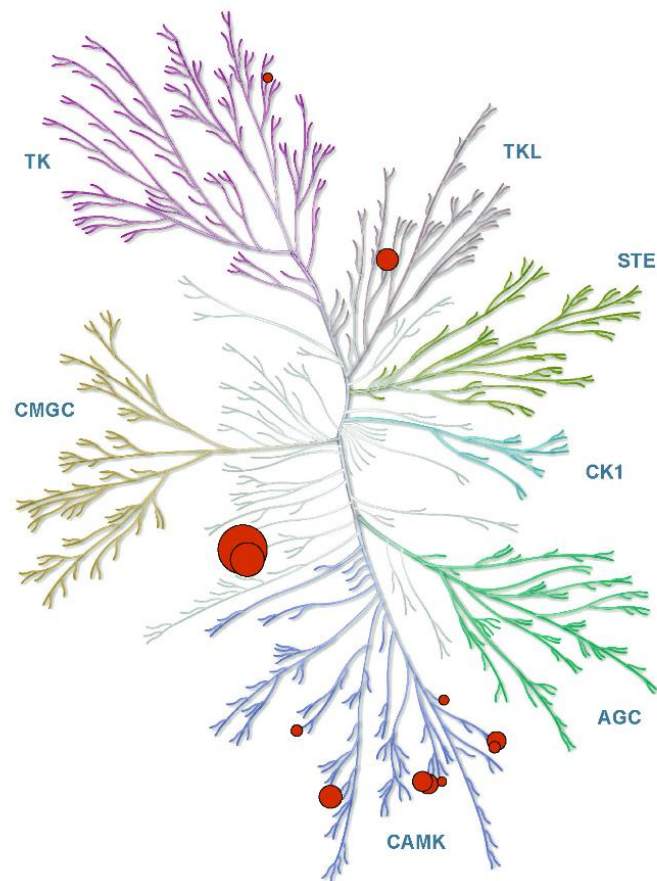
**Madhumita Bogdan**

*Sr. Principal Investigator, Biological Sciences*



**Notes:** ULK=unc-51-like autophagy-activating kinase.

# POTENT AND SELECTIVE ULK INHIBITOR DESIGNED TO INHIBIT AUTOPHAGY



## First-in-Class Switch-Control ULK Kinase Inhibitor

- Potent and selective inhibitor of ULK, the initiating factor in autophagy
- Strong preclinical data in combination with RTK/RAS/MAPK inhibitors
- Potential backbone combination agent across >70% of cancers

## Highly Potent (Cellular IC<sub>50</sub> values for ULK inhibition)

- ULK1 6 nM
- ULK2 9 nM

## Highly Selective

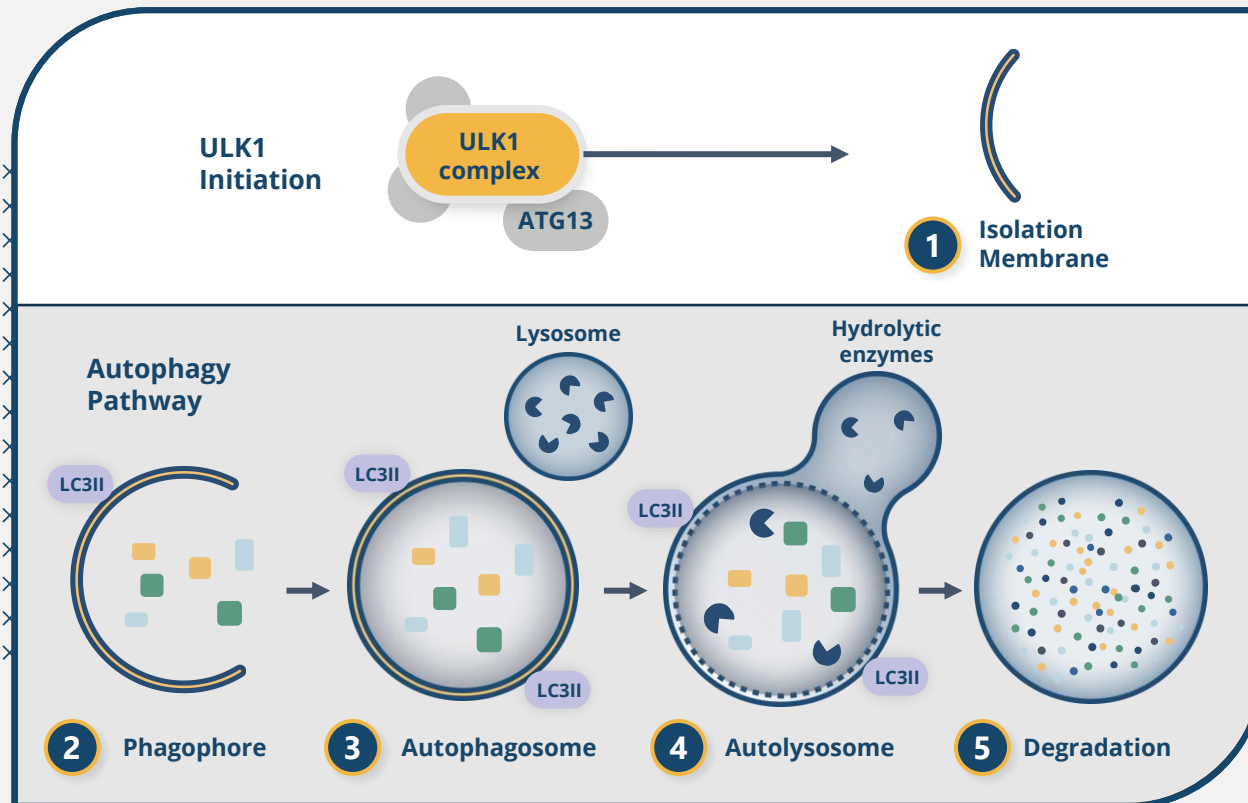
- No off-target kinases within 30-fold of ULK1
- Only 5 kinases within 100-fold of ULK1

## Designed to Avoid CNS Exposure

- Low brain/plasma ratio (4.3%) to avoid CNS autophagy

# AUTOPHAGY: A BROAD RESISTANCE MECHANISM IN CANCER

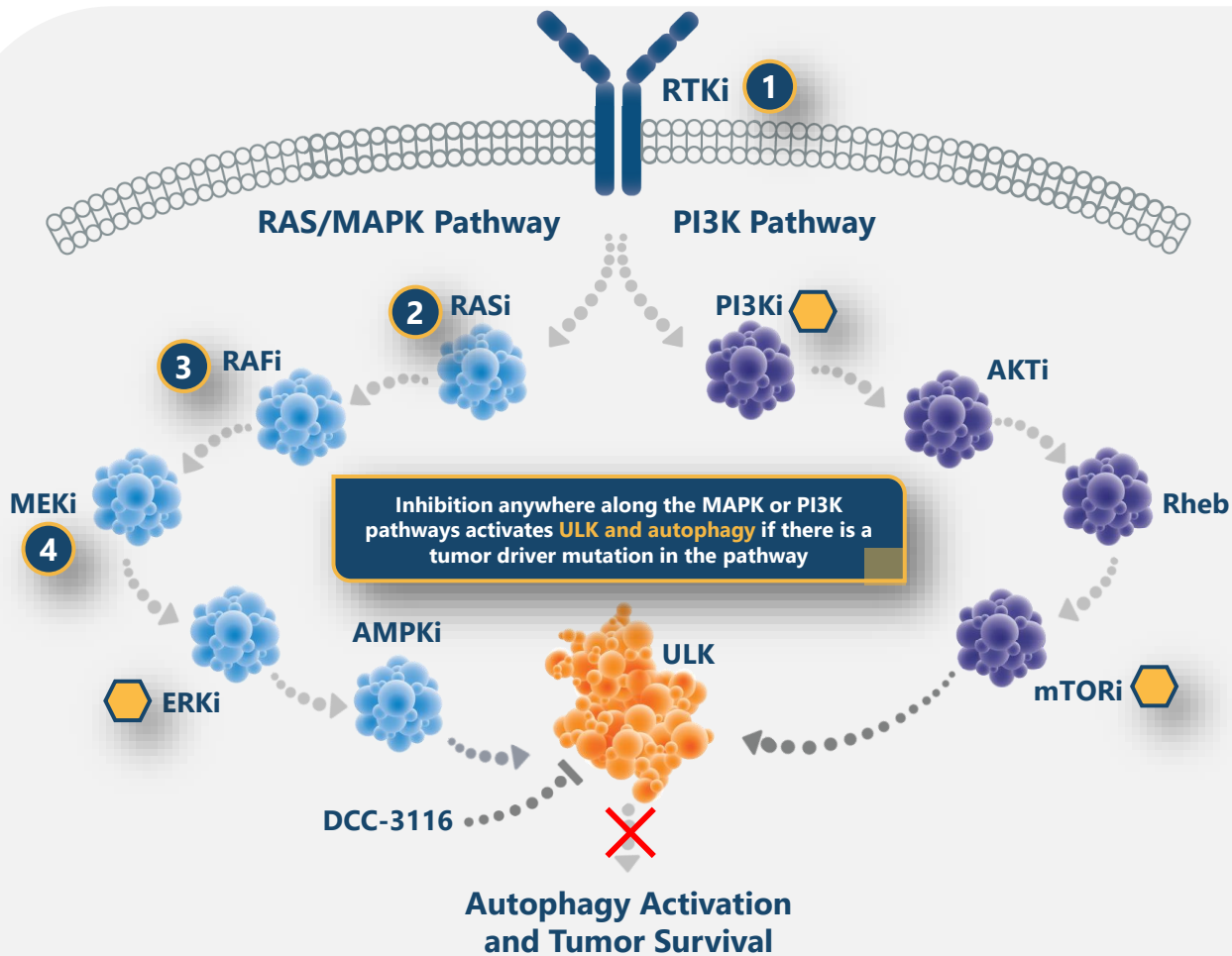
## ULK: Initiating Factor for Autophagy



- 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



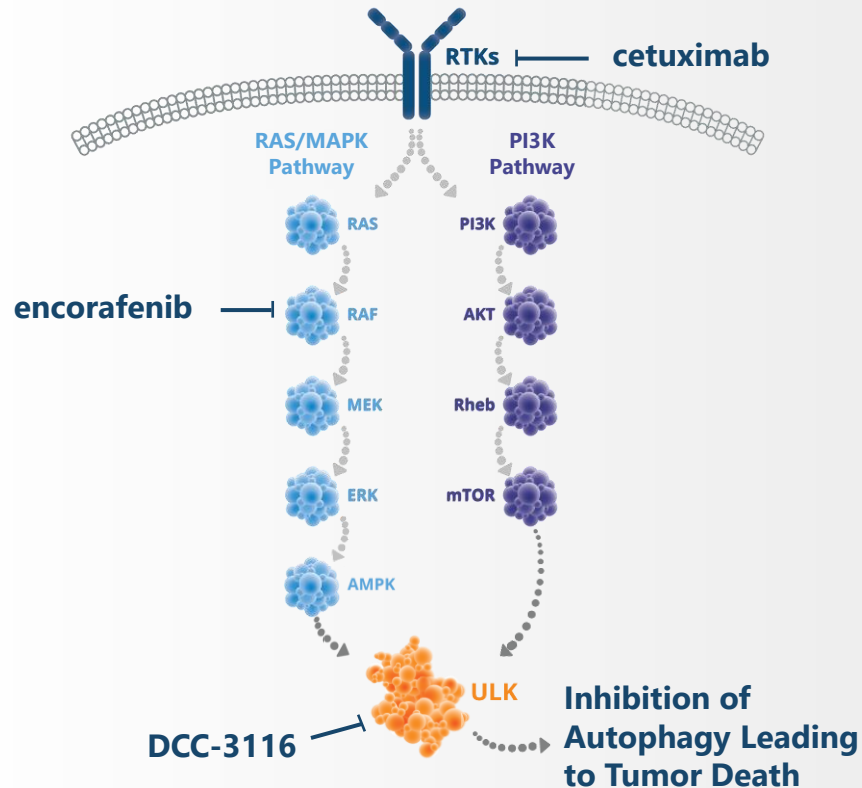
# CENTRAL ROLE FOR AUTOPHAGY IN THE RAS/MAPK AND PI3K PATHWAYS



## GROWING PRECLINICAL VALIDATION FOR ROLE OF AUTOPHAGY IN CANCER

- 1 DCC-3116 In Combination with RTK Inhibition**
  - DCC-3116 exhibits synergy with ripretinib, osimertinib, and afatinib, resulting in tumor regression in EGFR-mutant NSCLC and GIST *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 RAF Inhibition**
  - DCC-3116 exhibits synergy in combination with encorafenib in BRAFm CRC *in vivo*
- 4 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**

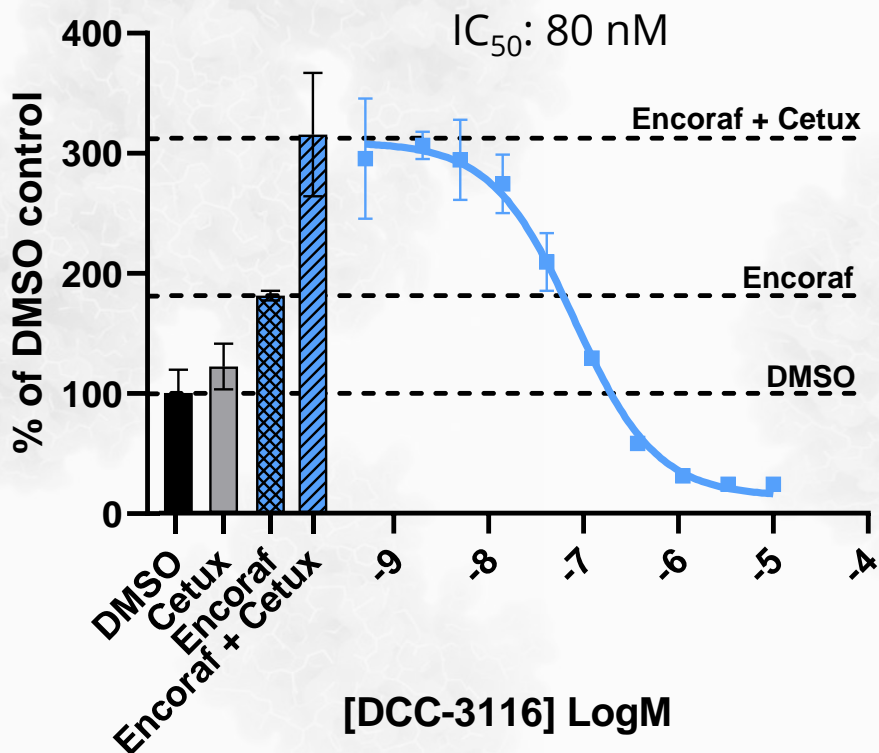
# DCC-3116 SYNERGIZES WITH ENCORAFENIB AND CETUXIMAB IN BRAF<sup>V600E</sup> MUTANT COLORECTAL CANCER MODELS



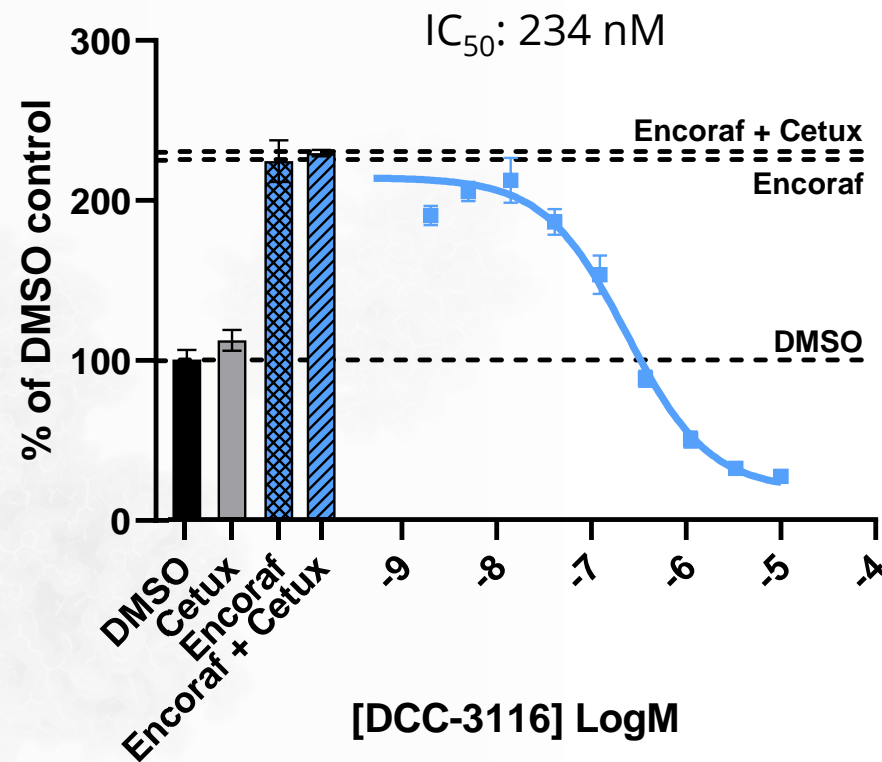
- BRAF<sup>V600E</sup> mutation occurs in ~10% of colorectal cancer patients and approved treatments include encorafenib (BRAFi) and cetuximab (EGFRi)
- Inhibition of mutant BRAF and EGFR activates autophagy and promotes cancer cell survival
- Drug resistance develops through RTK/MAPK resistant mutations and/or adaptive stress response pathways including autophagy
- Preclinically, DCC-3116 synergizes with encorafenib and cetuximab to increase tumor growth inhibition or tumor regressions by reducing autophagy through inhibition of the ULK kinase

# DCC-3116 INHIBITS CETUXIMAB- AND ENCORAFENIB-INDUCED pATG13 IN COLORECTAL CANCER CELL LINES

**HT-29: pATG13 ELISA**

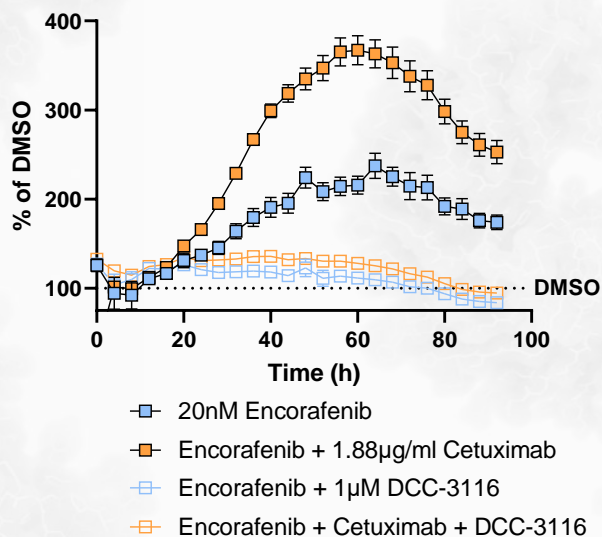
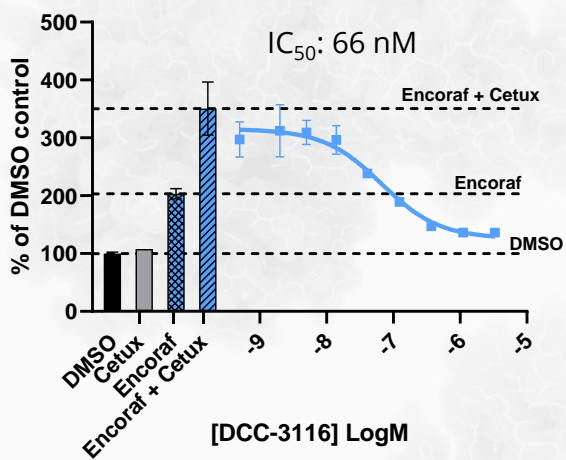


**Colo-205: pATG13 ELISA**

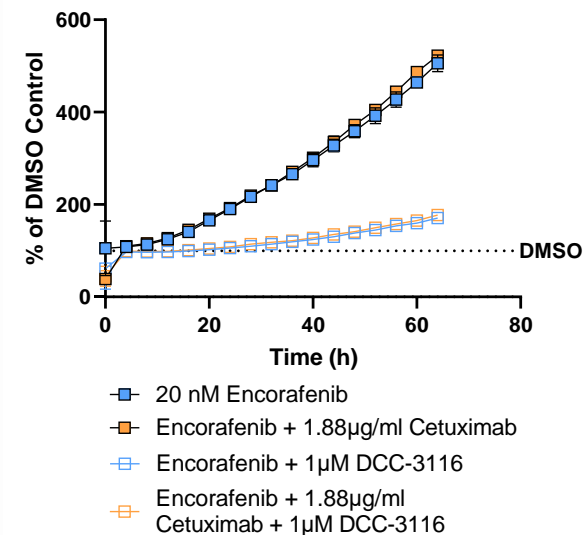
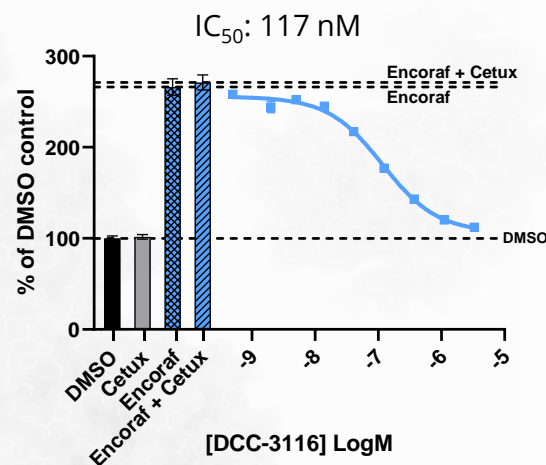


# DCC-3116 INHIBITS CETUXIMAB- AND ENCORAFENIB-INDUCED AUTOPHAGIC FLUX IN COLORECTAL CANCER CELL LINES

## HT-29: BRAF<sup>V600E</sup> Colorectal Cancer Model

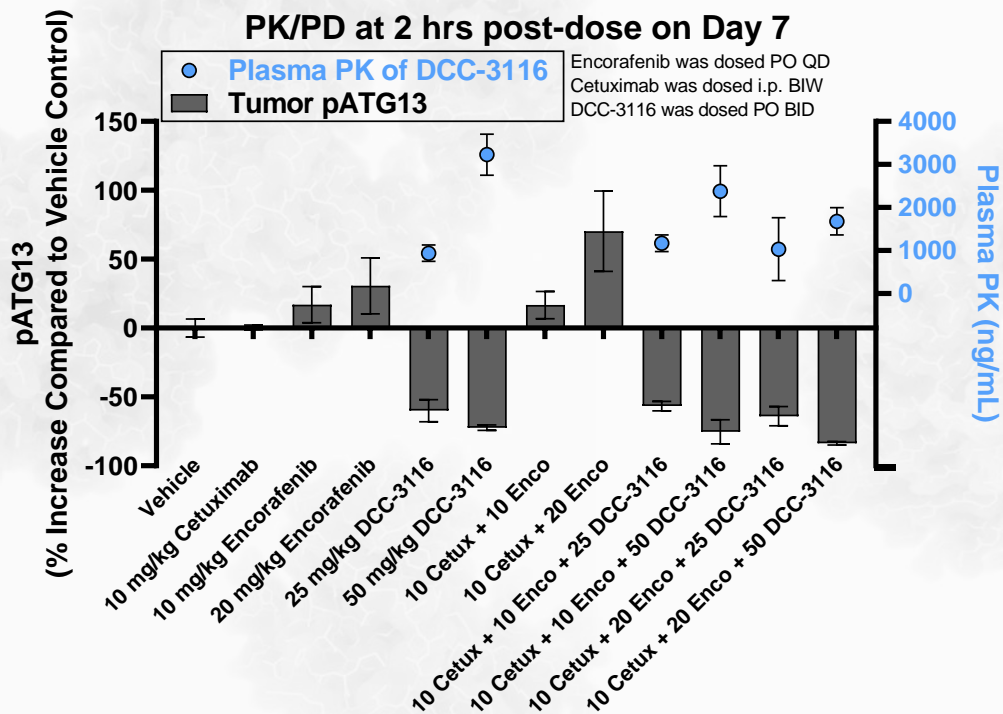


## Colo-205: BRAF<sup>V600E</sup> Colorectal Cancer Model

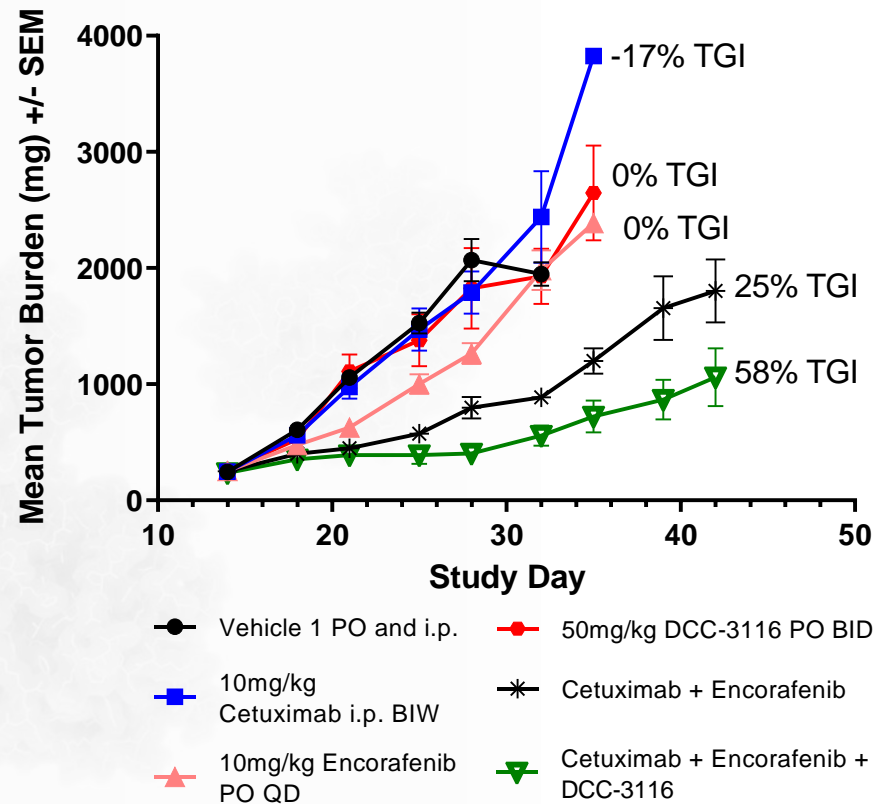


# DCC-3116 INCREASES TUMOR GROWTH INHIBITION IN COMBINATION WITH ENCORAFENIB AND CETUXIMAB *IN VIVO*

## HT-29: DCC-3116 Exposure and Target Engagement



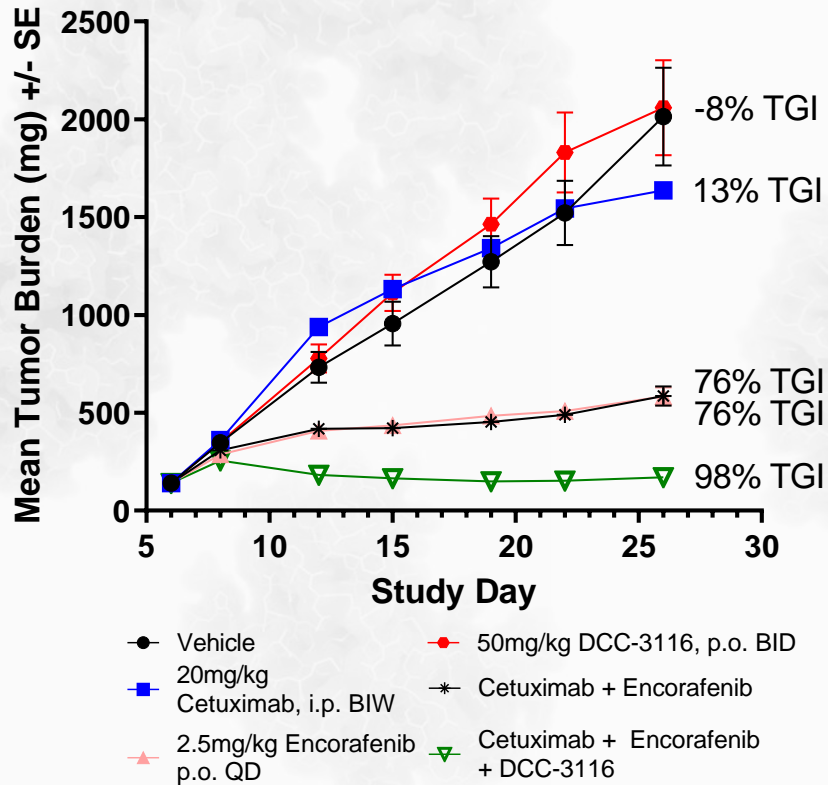
## HT-29: BRAF<sup>V600E</sup> Colorectal Cancer Model



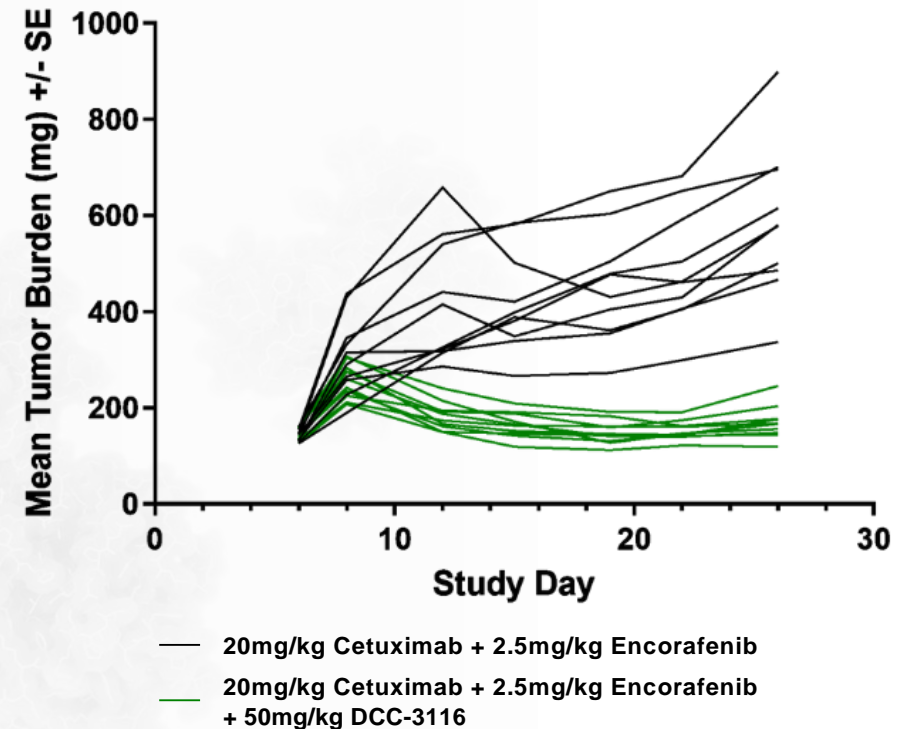
**Notes:** Data presented at the AACR Annual Meeting 2023; % reg is the percent of mice that had regressions; %TGI and %Reg were calculated at the last day of dosing; BID=twice daily; BIW=2 times a week; BRAF=proto-oncogene b-RAF; pATG13=phosphorylated ATG13; PD=pharmacodynamics; PK=pharmacokinetics; PO=orally; QD=once daily; Reg=regression; TGI=tumor growth inhibition.

# DCC-3116 INDUCES TUMOR REGRESSIONS IN COMBINATION WITH ENCORA FENIB AND CETUXIMAB *IN VIVO*

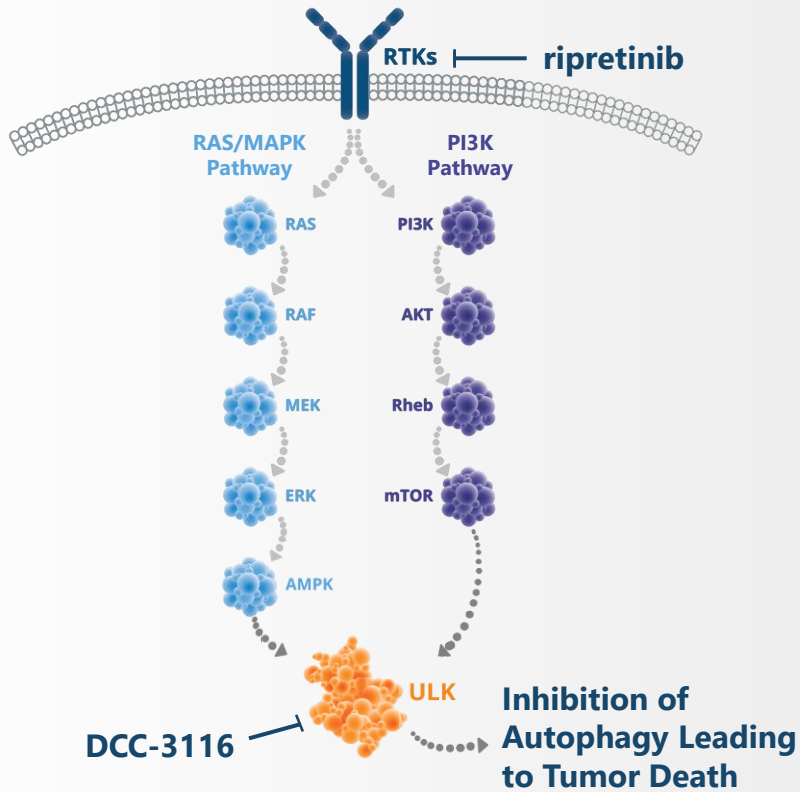
## Colo-205: BRAF<sup>V600E</sup> Colorectal Cancer Model



## Colo-205: BRAF<sup>V600E</sup> Colorectal Cancer Model



# DCC-3116 SYNERGIZES WITH RIPRETINIB IN GIST CANCER MODELS



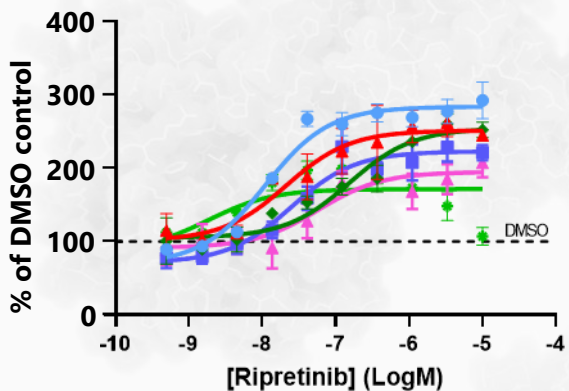
- Most gastrointestinal stromal tumors (GIST) are driven by mutations in KIT kinase and approved treatments include imatinib, sunitinib, regorafenib, and ripretinib
- Inhibition of mutant KIT activates autophagy and promotes cancer cell survival
- Drug resistance generally develops through secondary mutations in KIT as well as through the adaptive stress response pathway, including autophagy
- Preclinically, DCC-3116 synergizes with ripretinib to induce tumor regressions by reducing ULK-mediated autophagy

# DCC-3116 INHIBITS RIPRETINIB-INDUCED ULK ACTIVATION AND AUTOPHAGIC FLUX IN KIT-MUTATED GIST CELL LINES

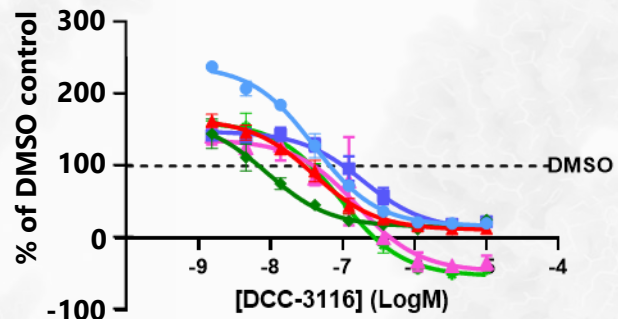
## GIST Mutated Cell Lines: Ripretinib

## GIST Mutated Cell Lines: 50 nM Ripretinib + DCC-3116

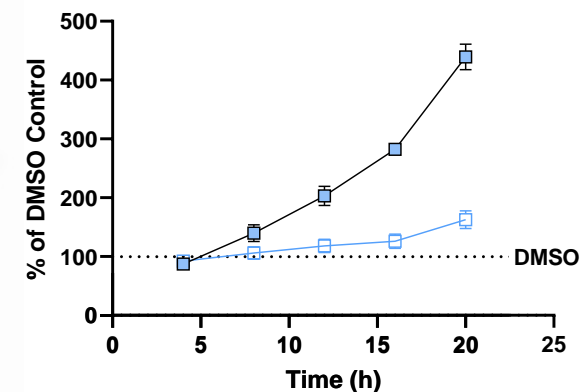
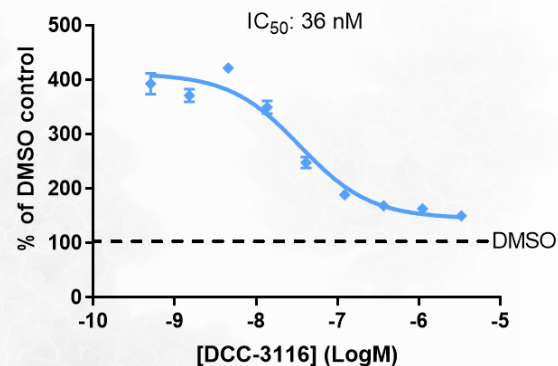
## GIST-T1: GIST Exon 11 Mutated Cell Line



● GIST-T1	■ GIST-882
▲ GIST-T1 Juke	◆ GIST-430
▼ GIST-T1 5R	◆ GIST-48



	IC <sub>50</sub> (nM)		IC <sub>50</sub> (nM)
● GIST-T1	40	■ GIST-882	191
▲ GIST-T1 Juke	40	◆ GIST-430	161
▼ GIST-T1 5R	9.0	◆ GIST-48	93

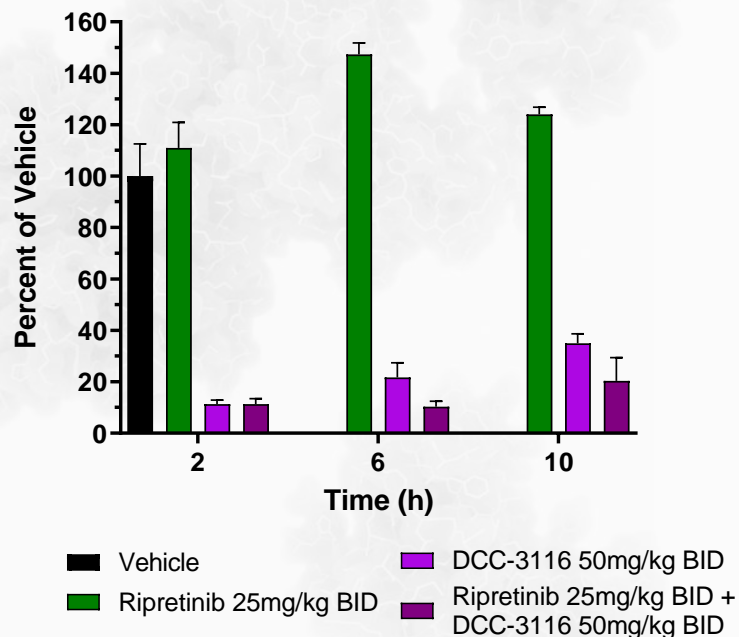


□ 50nM Ripretinib
○ Ripretinib + 1µM DCC-3116

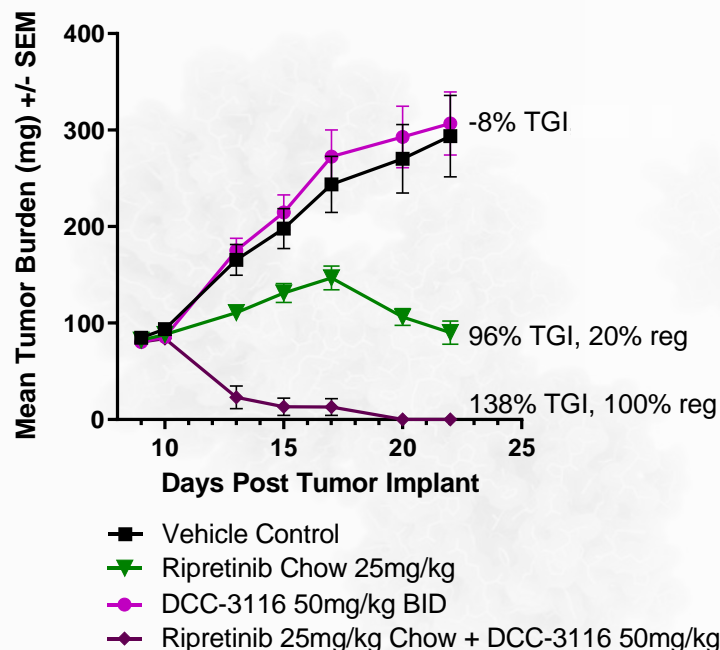


# DCC-3116 SHOWS 100% TUMOR REGRESSIONS IN COMBINATION WITH RIPRETINIB IN KIT EXON 11 MUTATED GIST XENOGRRAFT MODEL

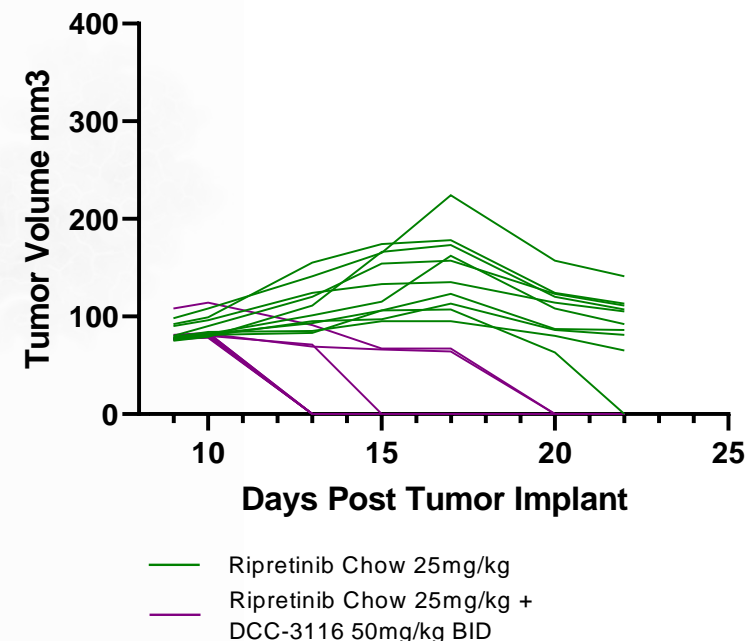
## GIST-T1: PK/PD



## GIST-T1: Tumor Growth Inhibition



## GIST-T1: Tumor Volume



# STRONG PRECLINICAL DATA SUPPORTS NEW CLINICAL COMBINATIONS

## DCC-3116 + Encorafenib + Cetuximab

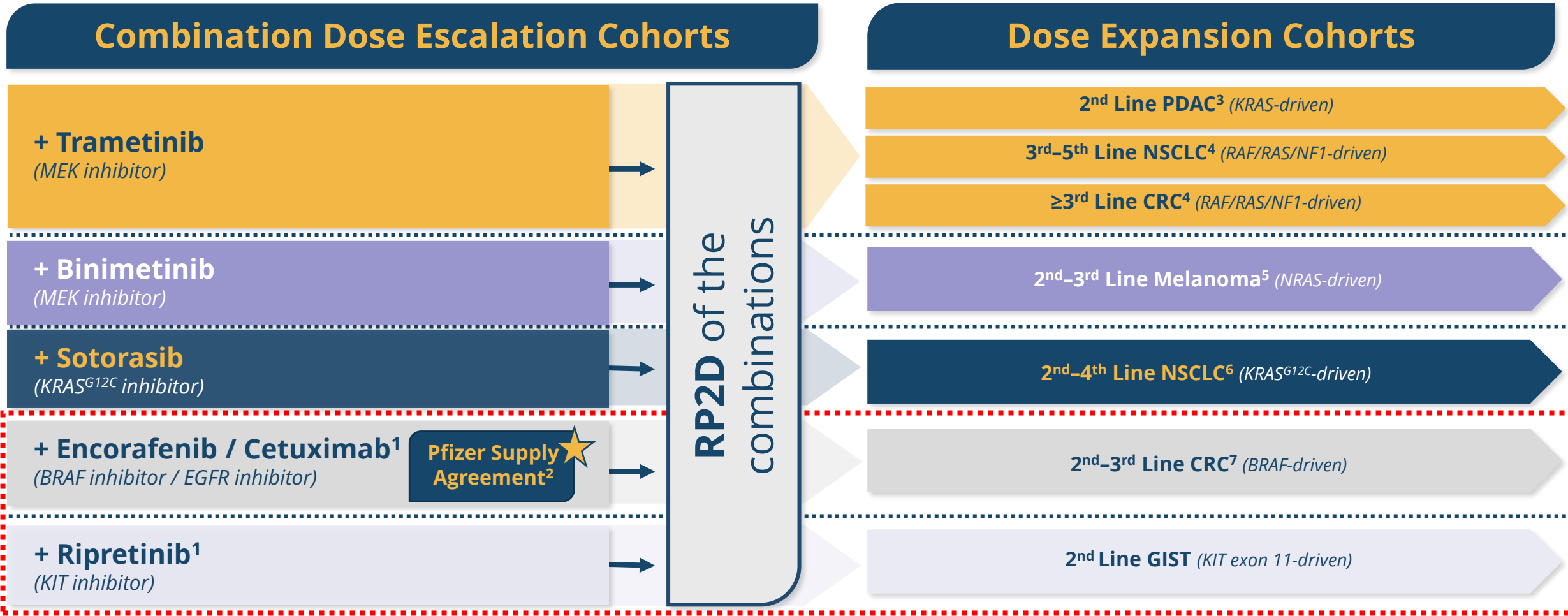
- DCC-3116 blocked BRAF<sup>V600E</sup> inhibitor and cetuximab-induced ULK activation and autophagic flux in preclinical models
- DCC-3116 exhibited combination efficacy in preclinical cancer models, leading to superior inhibition of tumor growth or to tumor regression

## DCC-3116 + Ripretinib

- DCC-3116 blocked ripretinib-induced ULK activation and autophagic flux in preclinical models
- DCC-3116 exhibited combination efficacy in preclinical cancer models, leading to strong tumor regressions

 **Initiation of DCC-3116 dose escalation cohorts in combination with ripretinib and with encorafenib + cetuximab expected in 2H 2023**

# PHASE 1 COMBINATION COHORTS EVALUATING MULTIPLE COMBINATIONS



**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<sup>V600E</sup>.

# DCC-3009 (PAN-KIT INHIBITOR)



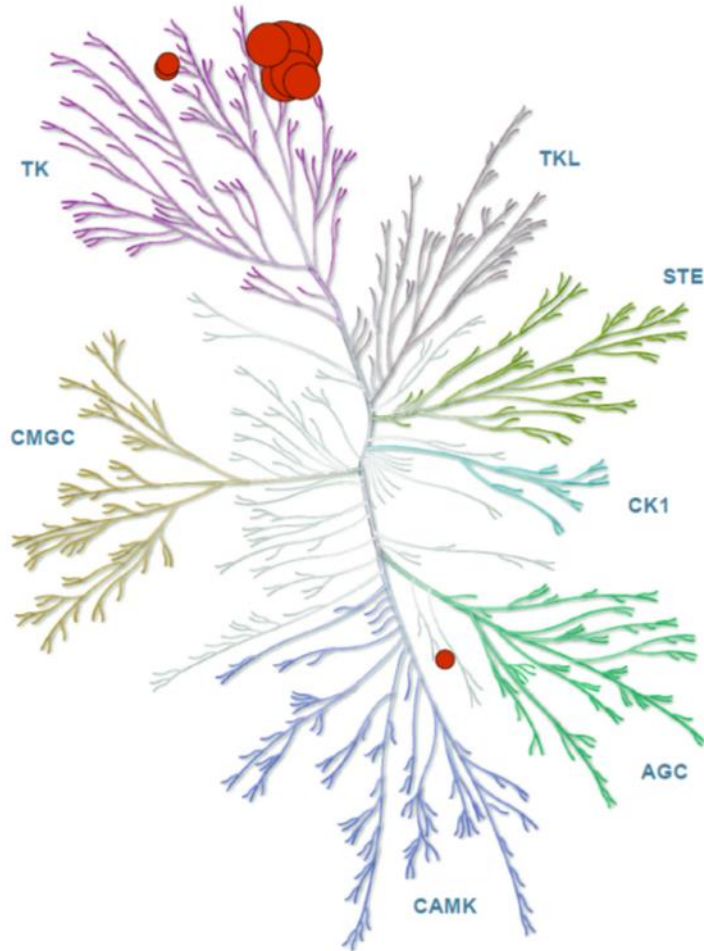
**Bryan Smith, Ph.D.**

*Vice President, Biological Sciences*



**Notes:** KIT=KIT proto-oncogene receptor tyrosine kinase.

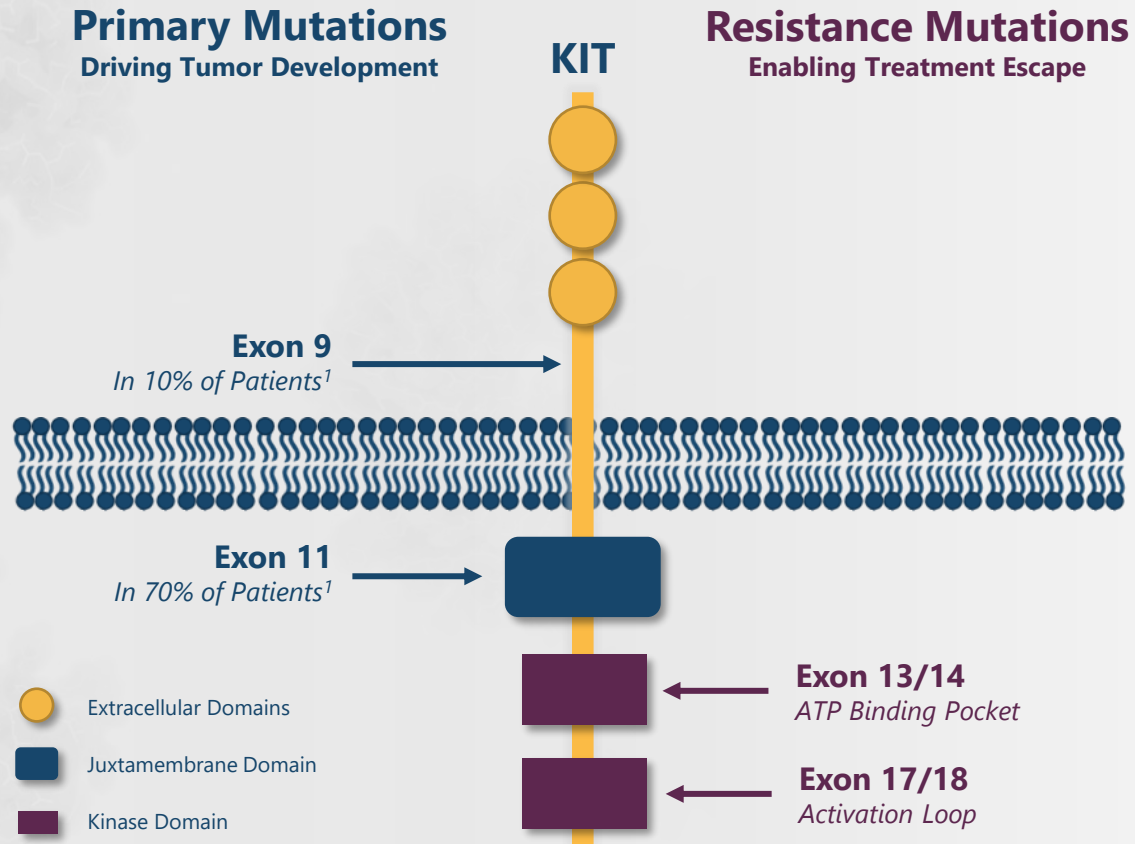
# DCC-3009 IS A POTENT AND SELECTIVE NEXT-GEN KIT INHIBITOR



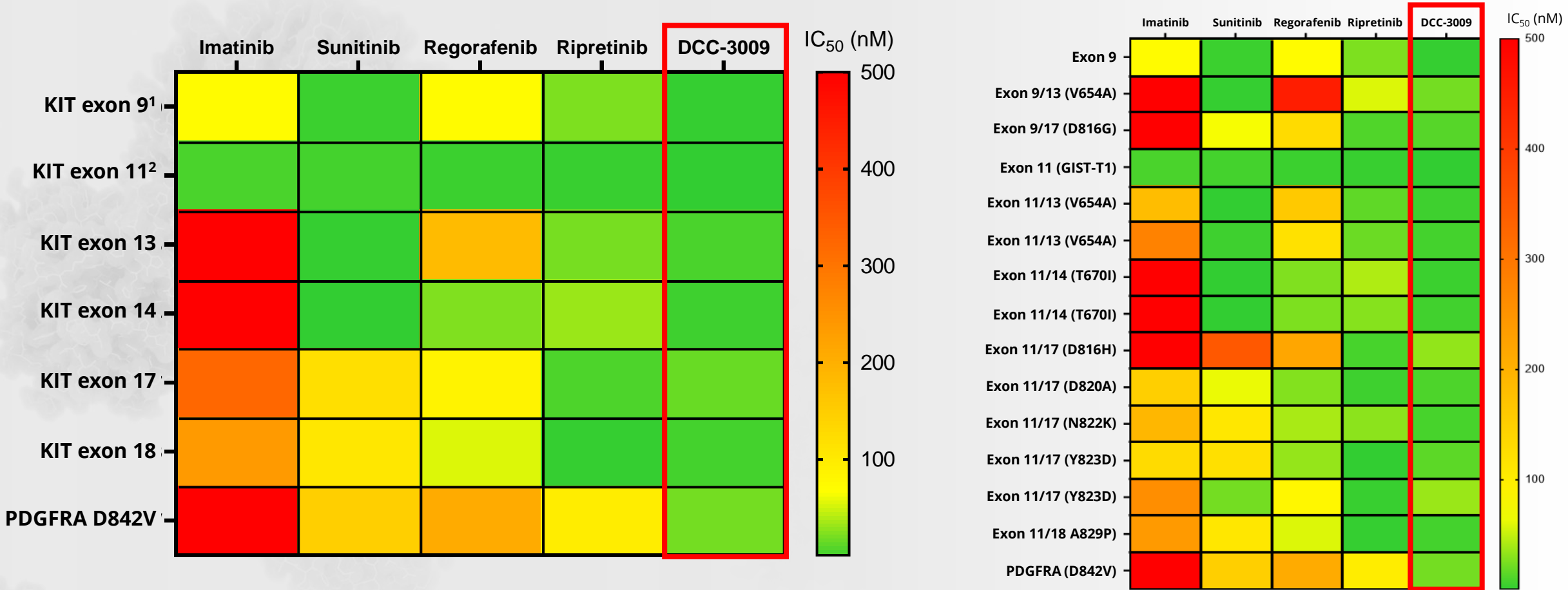
- DCC-3009 is a **potential best-in-class pan-KIT inhibitor** engineered using Deciphera's proprietary switch-control platform
- Unmet medical need remains for a **pan-KIT inhibitor** that can broadly and potently inhibit the **spectrum of KIT mutations** that drive GIST
- Potent inhibitor of primary KIT mutations in **exons 9 and 11 and secondary mutations across exons 13, 14, 17, and 18**
- Highly selective for KIT with **optimized pharmaceutical and ADME properties**
- **Strong pre-clinical efficacy data** in xenograft models driven by drug resistant KIT mutations

# GIST PROGRESSION DRIVEN BY SECONDARY RESISTANCE MUTATIONS IN KIT

## KIT-DRIVEN MUTATIONS



# DCC-3009 POTENTLY INHIBITS THE SPECTRUM OF KNOWN PRIMARY AND SECONDARY DRUG-RESISTANT MUTATIONS IN GIST

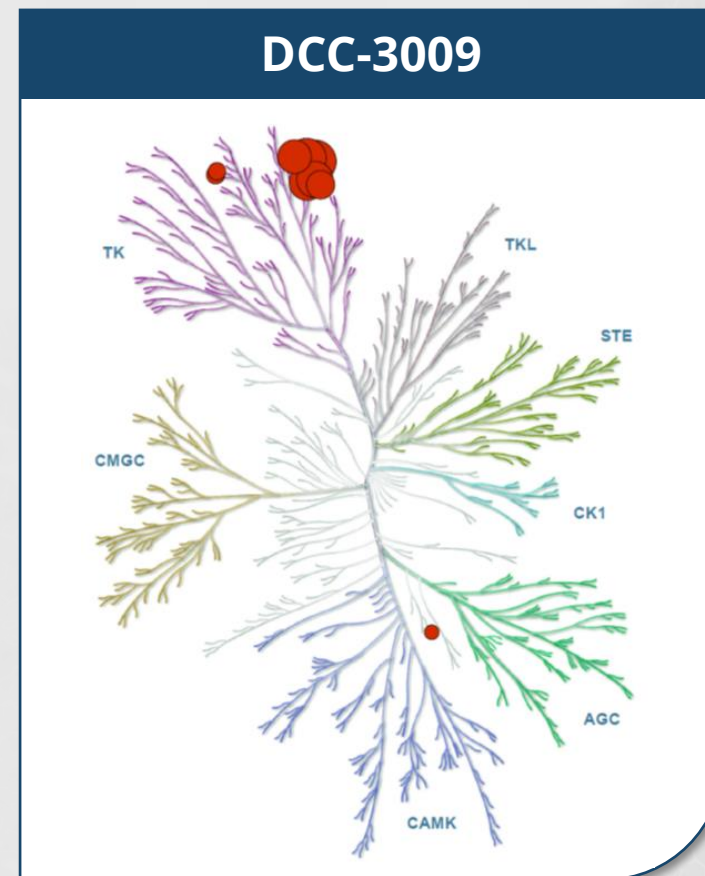
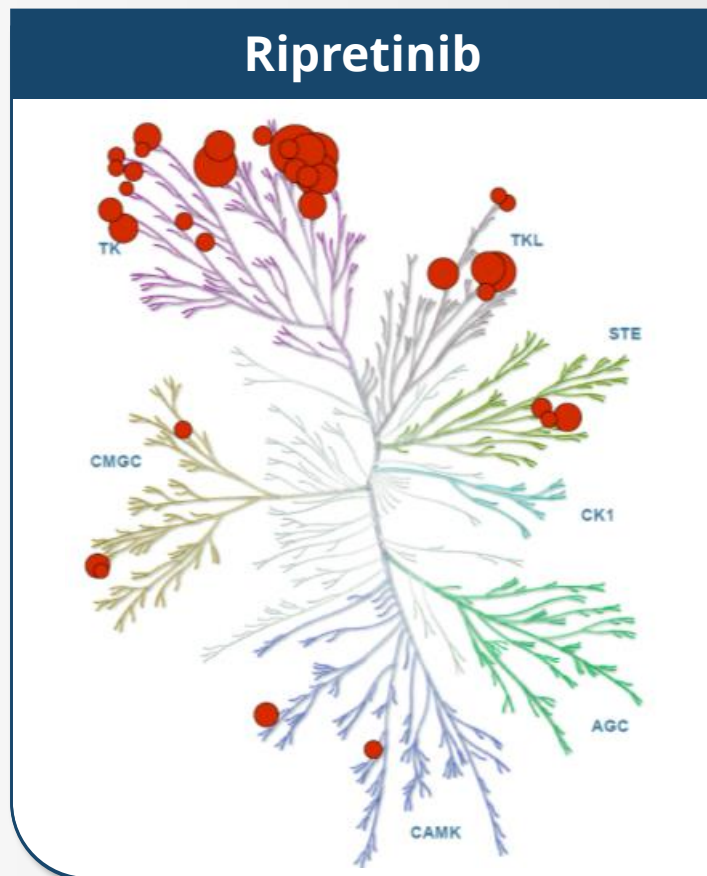


# DCC-3009 SHOWED OPTIMIZED PHARMACEUTICAL AND ADME PROPERTIES FOR ORAL ADMINISTRATION

Property	Result
Human Microsomal Stability	$t_{1/2} > 145$ min
Human Plasma Protein Binding	96.3% bound
Caco2 Permeability	$11 \times 10^{-6}$ cm/s
Caco2 Efflux Ratio	7.8
CYP Inhibition (3A4, 2D6, 2C9, 2C19, 1A2)	$IC_{50} > 10$ $\mu$ M
CYP3A4 time-dependent Inhibition	Negative
hERG inhibition	$IC_{50} > 20$ $\mu$ M
Ames test (3 strains)	Negative
Rat oral bioavailability	87%
Dog oral bioavailability	100%
Rat brain penetration $K_{pu/u}$	4%

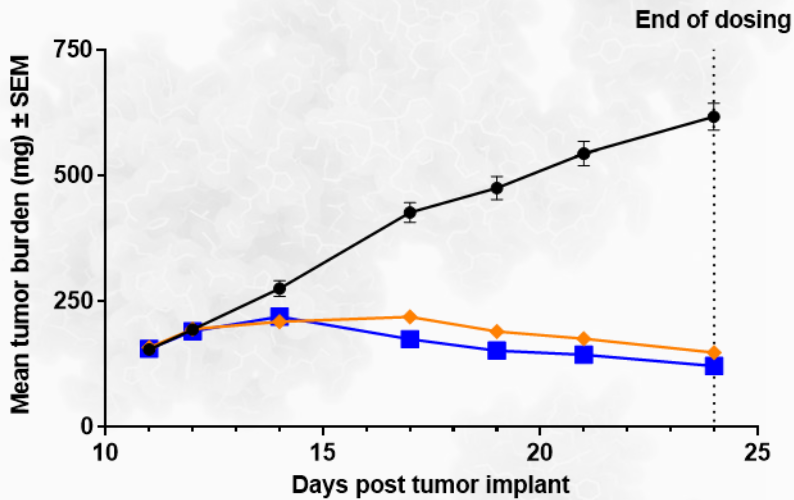


# DCC-3009 EXHIBITS A FAVORABLE KINOME SELECTIVITY PROFILE



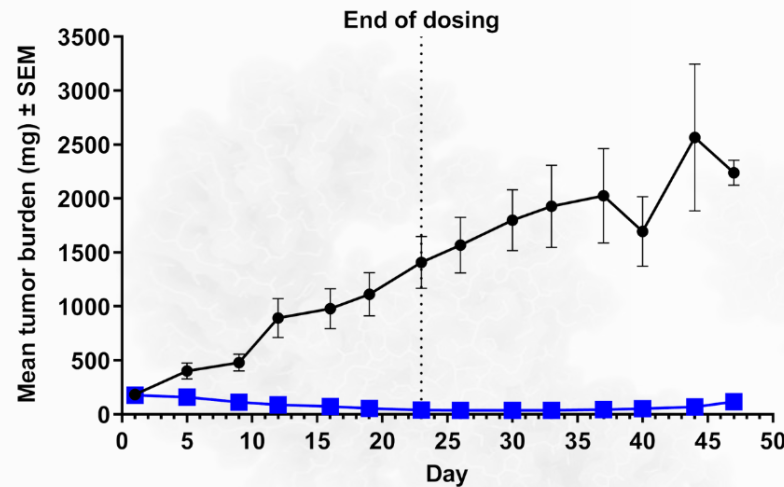
# DCC-3009 RESULTED IN TUMOR REGRESSIONS IN GIST XENOGRRAFT MODELS, INCLUDING KIT EXONS 9, 11, 13 AND 17 MUTATIONS

**V654A: BaF3 KIT Exon 9  
AY dup / Exon 13**



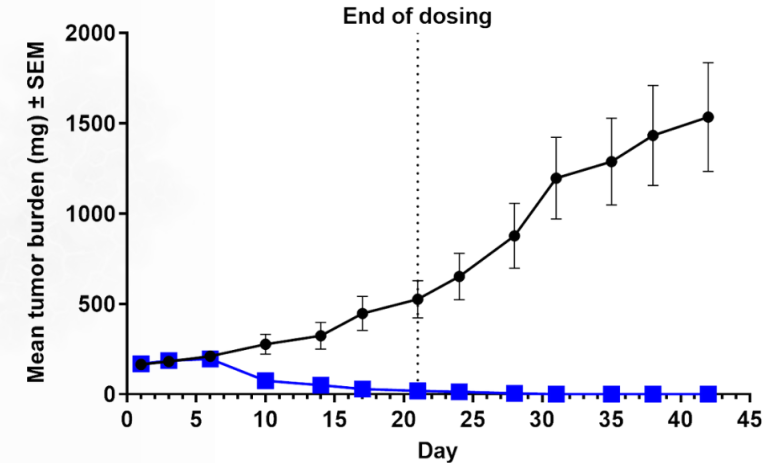
● Vehicle  
 ■ DCC-3009 50 mg/kg BID      22% regression  
 ◆ Sunitinib 20 mg/kg BID      6% regression

**V654A: GIST PDX KIT  
Exon 11 delWK / Exon 13**



● Vehicle  
 ■ DCC-3009 50 mg/kg BID      80% regression

**Y823D: GIST PDX KIT Exon 11  
delWK / Exon 17**



● Vehicle  
 ■ DCC-3009 50 mg/kg BID      99.7% regression

# DCC-3009 IS A POTENTIAL BEST-IN-CLASS PAN-KIT INHIBITOR

- DCC-3009 is a pan-KIT inhibitor exhibiting high potency for KIT mutants in pre-clinical models spanning exons 9, 11, 13, 14, 17, and 18
- *In vivo*, DCC-3009 exhibited tumor regressions in drug-resistant models with KIT exon 9/13, 11/13, and 11/17 mutations
- DCC-3009 is highly selective for KIT and has a high free fraction to enable exposures above levels needed to suppress the broad spectrum of KIT mutations in GIST
- DCC-3009 has optimized pharmaceutical and ADME properties for oral administration

★ **DCC-3009 IND expected in 1H 2024**

# DP-9149 (GCN2 ACTIVATOR)



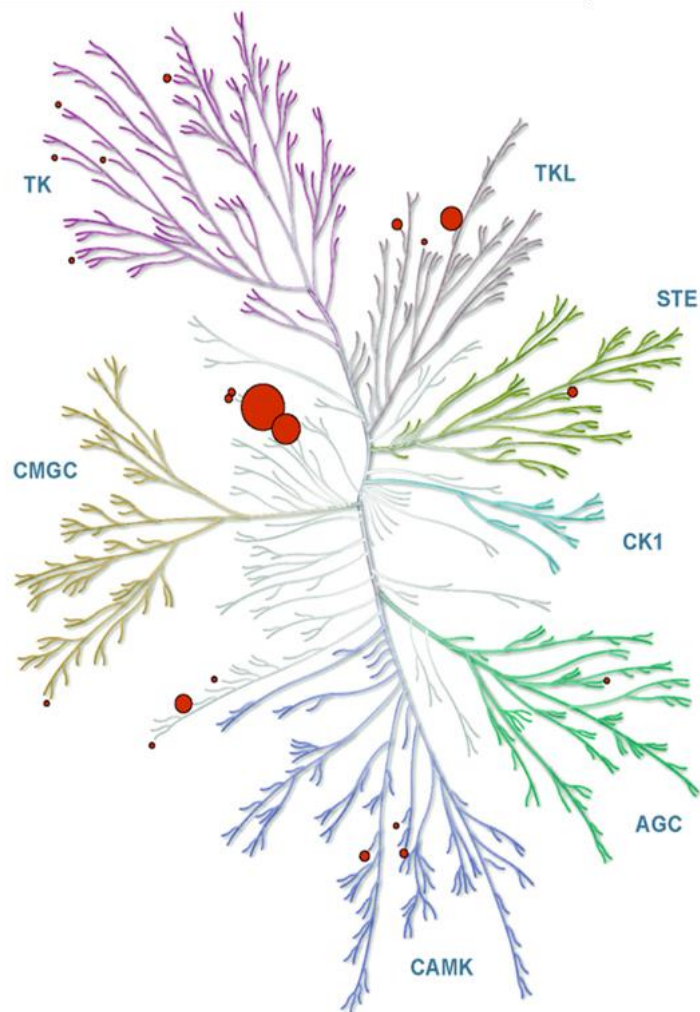
**Gada Al-Ani, Ph.D.**

*Sr. Principal Investigator, Biological Sciences*



Notes: GCN2=general control nonderepressible 2.

# DP-9149 IS A POTENT AND SELECTIVE ACTIVATOR OF THE GCN2 KINASE



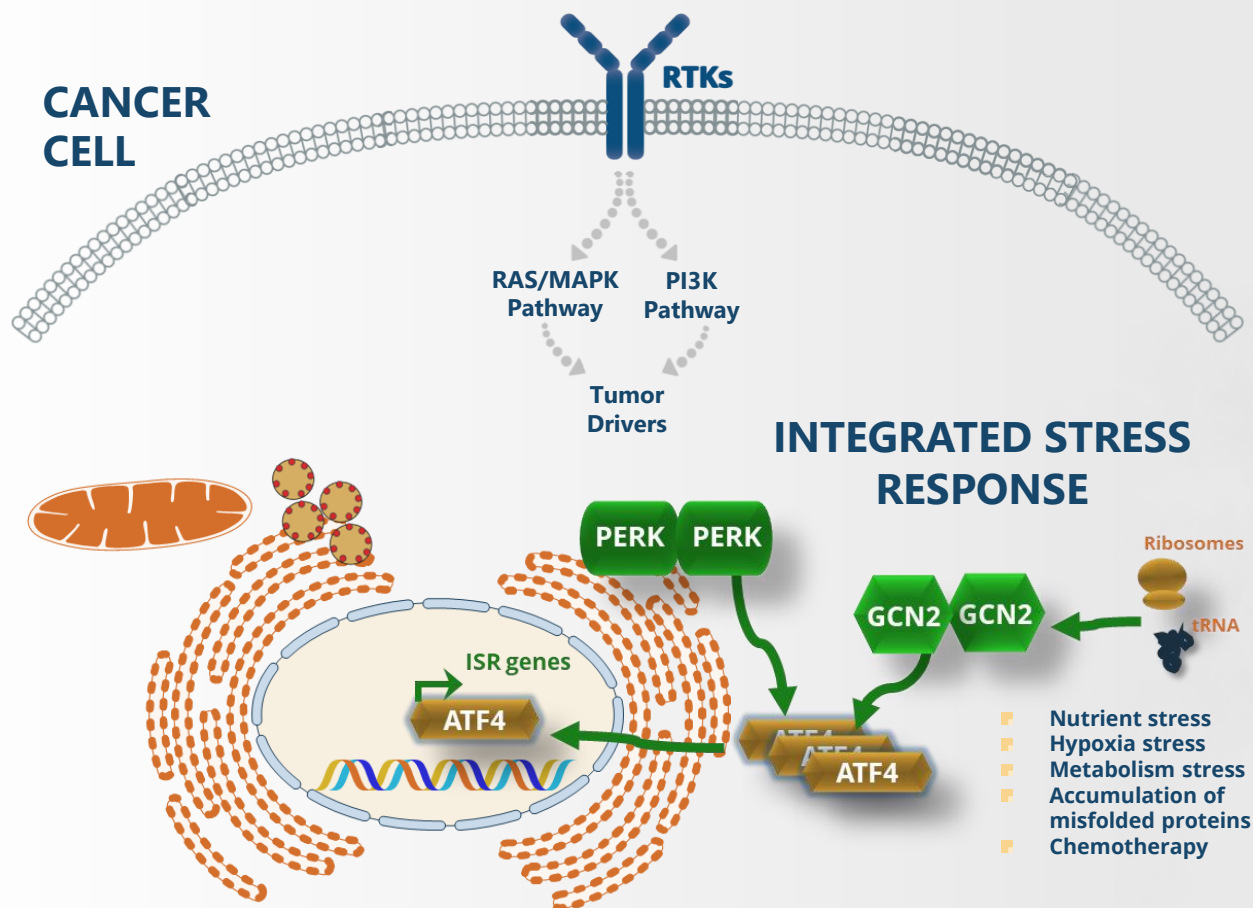
## Compelling Preclinical Data

- Potent and selective activator of GCN2 kinase
- Strong single agent activity in solid tumor models *in vivo*
- Tumor regressions in combination with standard of care agents *in vivo*

## Novel Mechanism of Action

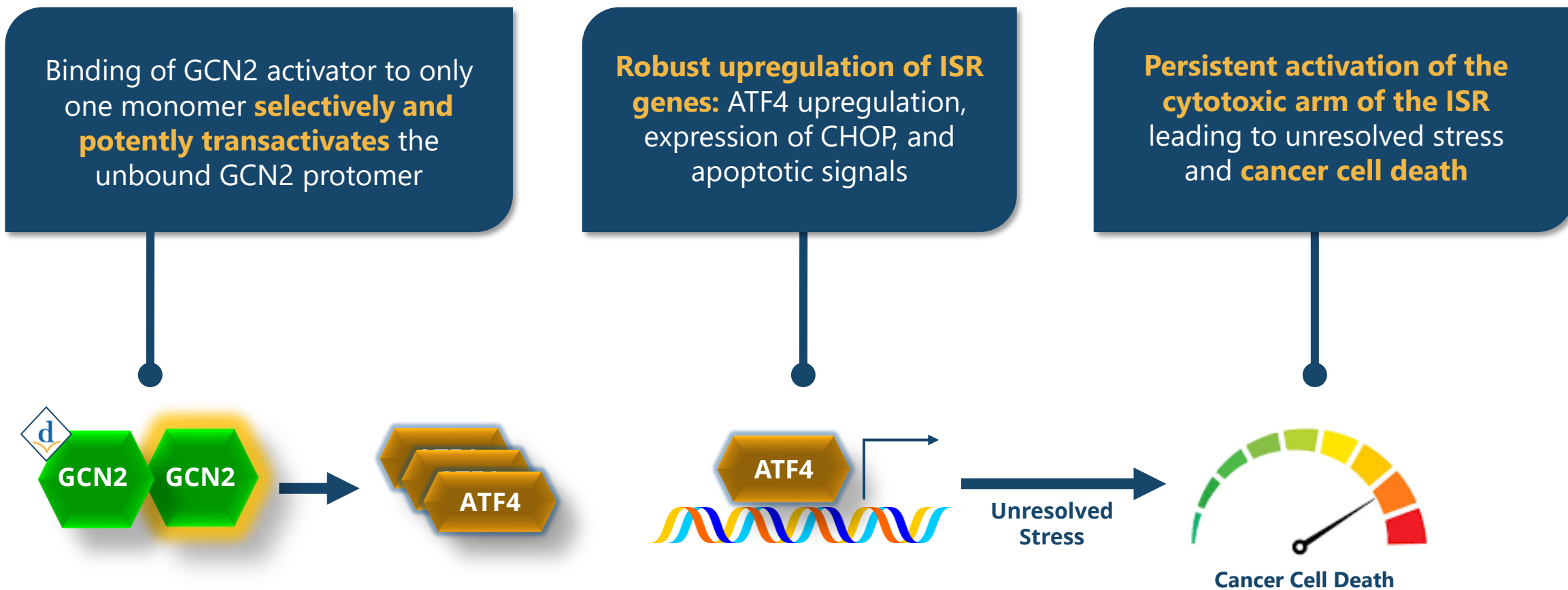
- Leveraging the cytotoxic arm of the Integrated Stress Response pathway enables the engagement of cancer cell death pathways
- GCN2 overexpression in solid tumors provides a favorable therapeutic window as evident by tolerability in preclinical models
- Synergizes with other stress-inducing therapies (anti-angiogenics/tumor driver-targeting agents) and effective in RAS/MAPK driven cancers

# THE INTEGRATED STRESS RESPONSE PATHWAY & GCN2 ACTIVATION



- The Integrated Stress Response (ISR) is a **major adaptive stress response pathway in cancer** and plays an important role in cell fate determination
- Oncogene addicted solid tumors are under high stress levels and are **dependent on a well-balanced ISR pathway** for accelerated growth
- Inhibition or stimulation of GCN2 in solid tumors can be pharmacologically leveraged to **induce anti-tumoral effects**
- Deciphera's GCN2 activator (DP-9149) has shown **anti-tumoral effects in solid tumors *in vitro* and *in vivo***

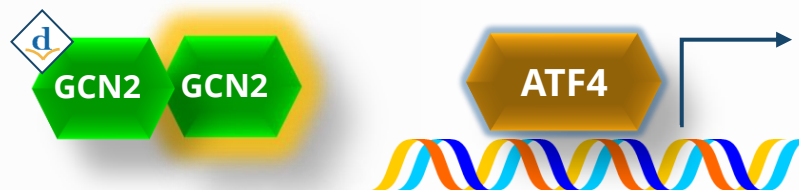
# GCN2 ACTIVATOR UPREGULATES THE ISR TO PROMOTE CANCER CELL DEATH



# GCN2 ACTIVATOR INDUCES CELL DEATH AS A SINGLE AGENT AND PROMOTES TUMOR REGRESSION IN COMBINATION

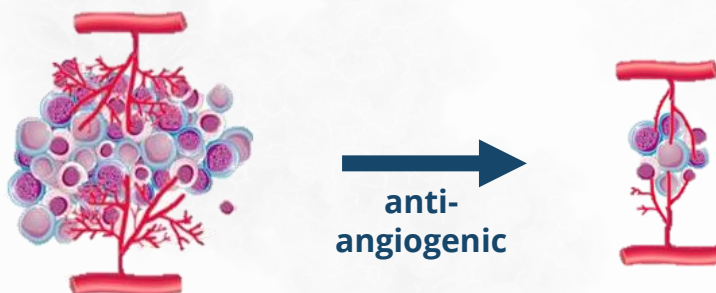
## Single Agent Activity

Oncogene-driven cancer cells are vulnerable to activation of cytotoxic arm of the ISR



## Combination Opportunities

Therapy induced cytotoxicity (e.g. anti-angiogenics, MAPKi) further sensitizes cancer cells to ISR pathway activation



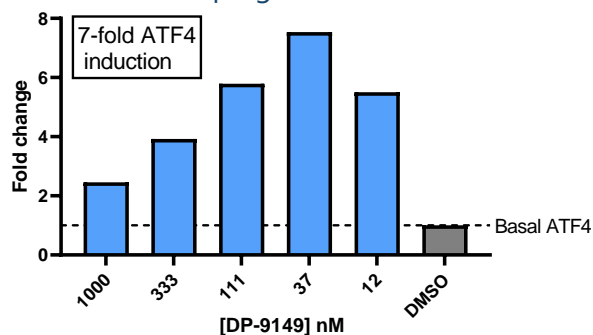
**Deeper Response and Tumor Regression**  
Induced by Combination Therapy



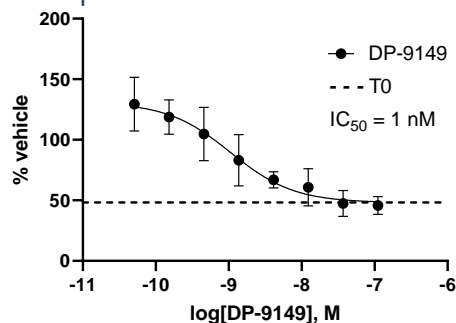
# DP-9149 SELECTIVELY AND POTENTLY ACTIVATES GCN2 AND HAS AN OPTIMIZED PHARMACEUTICAL AND SELECTIVITY PROFILE

## DP-9149 Upregulates the ISR Pathway and Potently Inhibits Cell Growth as a Single Agent

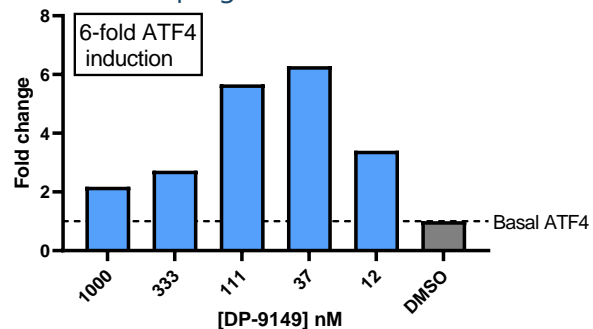
**786-O: Renal Cell Carcinoma**  
ATF4 Upregulation



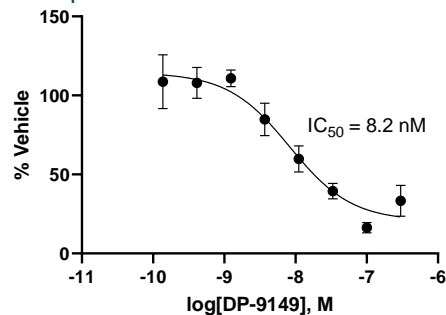
**786-O: Renal Cell Carcinoma**  
Spheroid Growth Inhibition



**LoVo: KRAS G13D Colorectal**  
ATF4 Upregulation



**LoVo: KRAS G13D Colorectal**  
Spheroid Growth Inhibition



## DP-9149 was Designed as a Potent and Selective Activator of GCN2

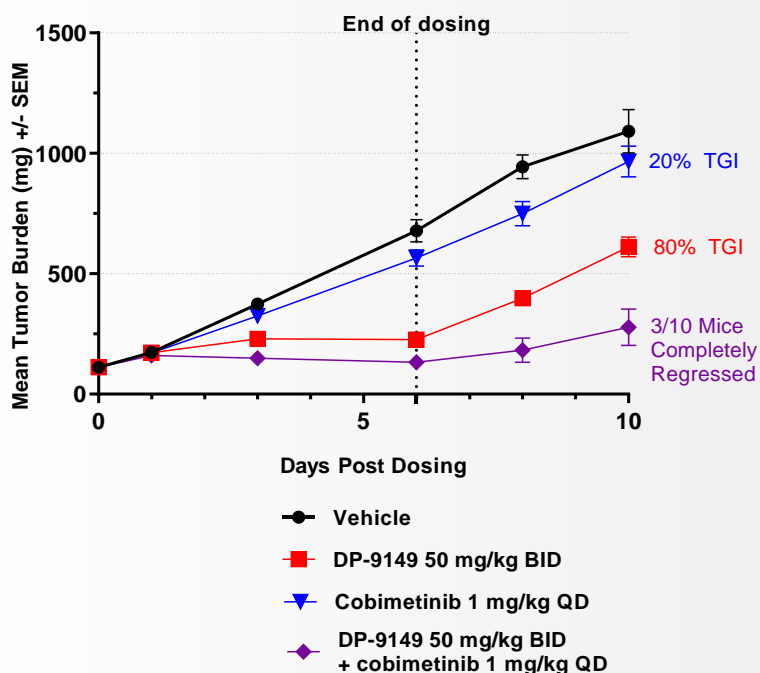
	Assay	DP-9149
Enzymatic Assays	GCN2 recombinant enzyme activation versus control	<b>2.5-fold activation</b>
Cellular Assays	ATF4 stimulation versus control 786-O (Renal; VHL-mut)	<b>7-fold activation</b>
	ATF4 Stimulation versus control LoVo (Colorectal; KRAS G13D)	<b>6-fold activation</b>
	Spheroid growth inhibition 786-O (Renal; VHL-mut)	<b>IC<sub>50</sub> = 1 nM</b>
Off-Target Profile	Spheroid growth inhibition LoVo (Colorectal; KRAS G13D)	<b>IC<sub>50</sub> = 8.2 nM</b>
	Kinome selectivity and safety (Cerep)	<b>High selectivity</b>
<i>In Vivo</i>	PK/PD	<b>Target engagement achieved</b>



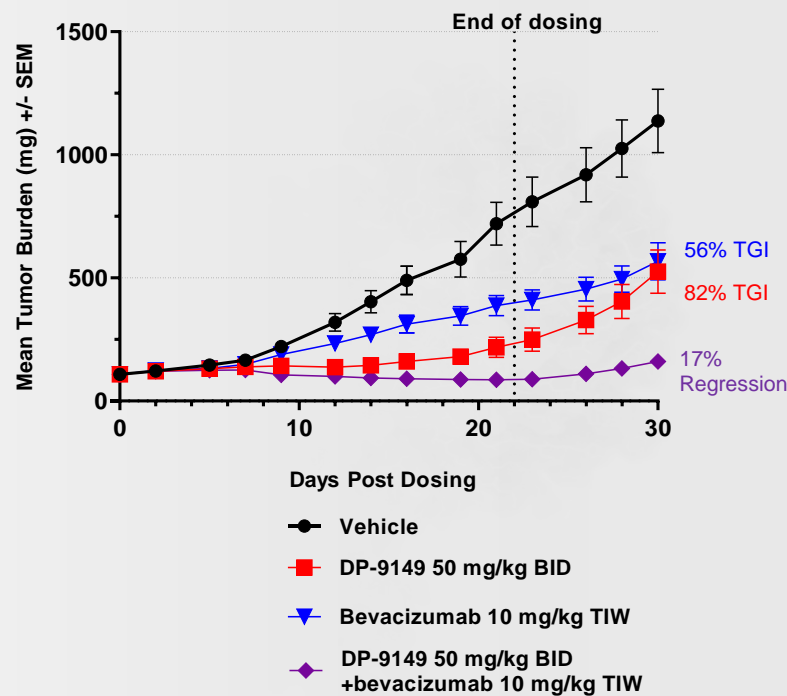
Notes: Data presented at the AACR Annual Meeting 2023; ATF4=activating transcription factor; DMSO=dimethyl sulfoxide; GCN2=general control nonderepressible 2; ISR=Integrated Stress Response; KRAS=Kirsten rat sarcoma virus; PD=pharmacodynamic; PK=pharmacokinetic; VHL=Von Hippel-Lindau.

# DP-9149 RESULTS IN TUMOR GROWTH INHIBITION AS A SINGLE AGENT AND TUMOR REGRESSIONS IN COMBINATION *IN VIVO*

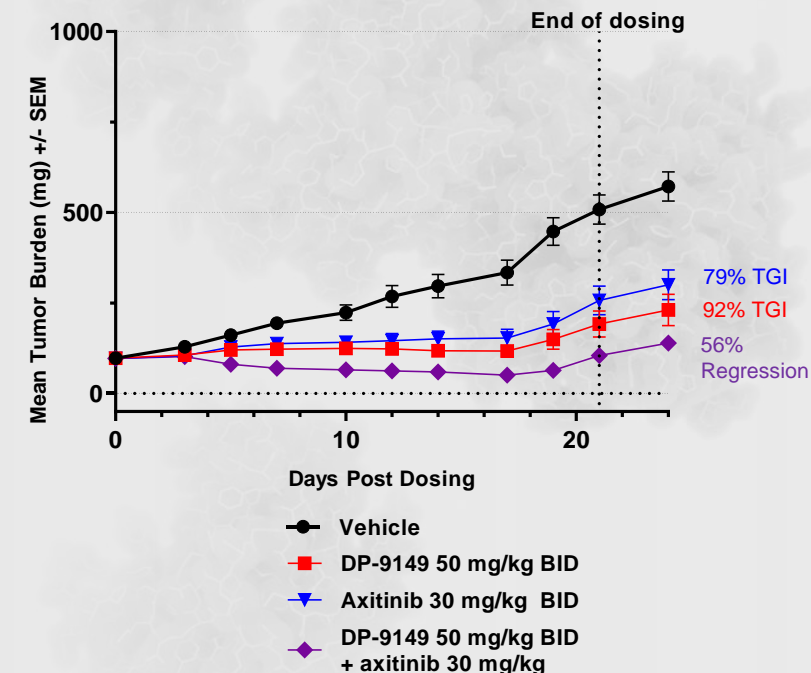
## HT-1080: NRAS Fibrosarcoma Model DP-9149 + Cobimetinib



## LoVo: KRAS G13D CRC Model DP-9149 + Bevacizumab



## 786-O: VHL Mutant RCC Model DP-9149 + Axitinib



Notes: Data presented at the AACR Annual Meeting 2023; HT-1080 TGI was calculated on Day 6; LoVo TGI was calculated on Day 21; 786-8 TGI was calculated on Day 19; BID=twice daily; CRC=colorectal cancer; GCN2=general control nonrepressible 2; QD=once a day; BID= twice a day; RCC=renal cell carcinoma; TGI=tumor growth inhibition; TIW=3 times a week.

# DP-9149 IS A NOVEL GCN2 ACTIVATOR WITH STRONG PRECLINICAL DATA

- The Integrated Stress Response is a novel Adaptive Stress Response mechanism in oncogene addicted solid tumors targetable through activation of GCN2
- DP-9149 was designed as a potent and selective activator of GCN2 with an optimized pharmaceutical and selectivity profile
- DP-9149 Exhibited Robust Activity in RAS mutant cancers and in VHL-mutant renal cell cancers as a single agent and in combination with standard-of-care agents *in vivo*
- Upregulating the ISR by activation of GCN2 through DP-9149 represents a novel anti-tumor approach in solid tumors *in vitro* and *in vivo* both as a single agent and in combination

 **DP-9149 is currently undergoing further preclinical studies**

# CLOSING REMARKS



**Steve Hoerter**

*President and Chief Executive Officer*

# 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 preclinical data on new combinations
- 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)**

## DCC-3084

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

## PROPRIETARY DRUG DISCOVERY PLATFORM

- ✓ Nominate development candidate for pan-KIT inhibitor (DCC-3009 pan-KIT inhibitor)
- ✓ Present new preclinical data from research programs



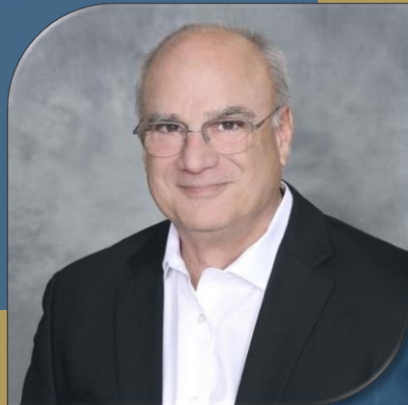
**Notes:** 2L=second-line; ASCO=American Society of Clinical Oncology; ctDNA=circulating tumor deoxyribonucleic acid; FDA=U.S. Food and Drug Administration; G12C=single point mutation with a glycine-to-cysteine substitution at codon 12; GIST=gastrointestinal stromal tumor; IND=Investigational New Drug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



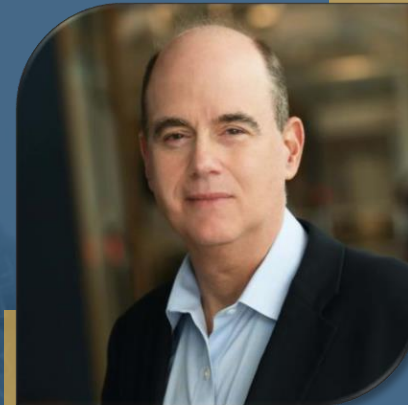
DECIPHERA  
Q&A



**Steve Hoerter**  
*Chief Executive Officer*



**Dan Flynn**  
*Chief Scientific Officer*



**Matt Sherman**  
*Chief Medical Officer*



**Tucker Kelly**  
*Chief Financial Officer*



**Dan Martin**  
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**Madhumita Bogdan**  
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**Bryan Smith**  
*Vice President,  
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THANK YOU

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