



## COMPANY PRESENTATION

June 2020



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# We are building a leading genetic disease company

## Core attributes...

1. Distinctive early stage asset selection
2. Experienced, product-focused R&D team
3. Efficient corporate structure
4. The willingness and scale to fail
5. Focus at the level of individual diseases and assets

## ...applied many times...



**+ 18 BridgeBio programs**

## ...a pipeline of potential blockbusters and synthetic blockbusters\*

- Two potential \$1B+ franchises in Phase 2 or later
- Two planned NDA submissions this year
- Several early-stage potentially large franchises
  - KRAS
  - GPX4
  - Congenital adrenal hyperplasia
  - Leber's hereditary optic neuropathy
- Multiple IND submissions planned in 2020
- Four new programs announced in January 2020

\*Blockbuster defined as program with \$1bn+ opportunity

# BridgeBio is led by a world-class team of experienced drug developers

We rely on some of the top R&D minds in this industry to select assets...

**Charles Homcy, MD**  
Chairman of Pharmaceuticals



**Frank McCormick, PhD, FRS**  
Chairman of Oncology



**Richard Scheller, PhD**  
Chairman of R&D



...and put them in the hands of one of the most productive groups of R&D operators in the industry

**Uma Sinha, PhD**  
Chief Scientific Officer



**Eli Wallace, PhD**  
Chief Scientific Officer in Residence, Oncology



**Robert Zamboni, PhD**  
Chemistry

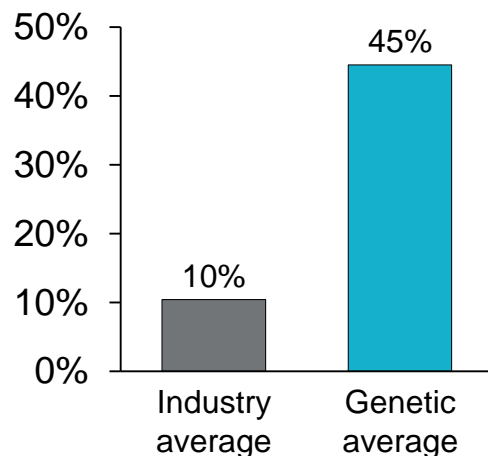


Together, our R&D team is responsible for 100+ INDs and 20+ approved products

# We believe genetic disease drug discovery is lower risk, faster, with potentially higher returns than traditional drug discovery

**>4x** Higher cumulative probability of success

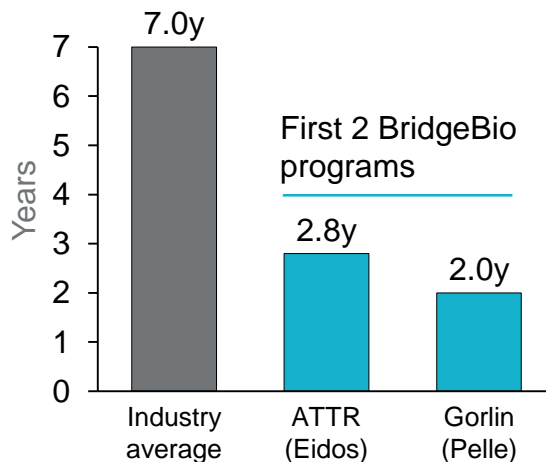
Probability of success from Ph1 to launch



Sources: Hay et al., Nature Biotechnology, "Clinical Development Success Rates for Investigational Drugs", 2014

**>65%** Faster time to Phase 3\*

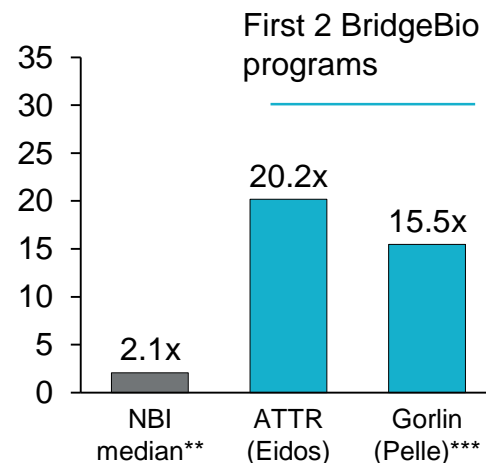
Time from lead optimization to Ph3



Sources: Paul et al., Nat Rev Drug Disc, "How to improve R&D productivity: the pharmaceutical industry's grand challenge.", 2010

**>8x** Better return on investment\*

Total return on investment  
[Enterprise value]/[APIC - cash on hand]\*



\*As of 2/28/2020 close

\*\*Includes all NBI constituents with market value <\$20bn

\*\*\*Calculated as total consideration from LEO Pharma transaction divided by total burn to date

Sources: FactSet

**Targeting genetic disease has higher average probability of success and BridgeBio has demonstrated higher ROI and shorter development time in its first 2 programs**



\*For first two BridgeBio programs

# Assessing BridgeBio















































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	Criteria	Relevance
1	High probability of success	<ul style="list-style-type: none"><li>• Historically higher probability of success for genetic disease drugs</li><li>• BridgeBio's early programs have outperformed historical probabilities</li></ul>
2	Number of programs	<ul style="list-style-type: none"><li>• We find great science and unlock its potential for patients</li><li>• Always searching for the next PellePharm or Eidos</li><li>• Scale allows for objective assessment and failure</li></ul>
3	Capital efficiency	<ul style="list-style-type: none"><li>• Generate value by making each program ROI-positive</li><li>• Driven by judicious use of capital at the high-risk preclinical stages</li></ul>

# Our pipeline of 20+ development programs spans multiple therapeutic areas and drug modalities

 Small molecule
  Topical small molecule
  Biologics
  Gene therapy

 = Key value drivers over the next 18 months

Portfolio segment	Program <sup>1</sup>	Drug mechanism	Diseases	Patient pop. (US+EU)	Modality	Pre-Clinical		Clinical		
						Discovery	IND-enabling	Phase1	Phase 2	Phase 3
<b>Mendelian</b> 	<b>AG10</b>	TTR stabilizer	ATTR-CM	>400K						
	<b>BBP-870</b>	cPMP replacement	MoCD type A	100						<b>NDA</b>
	<b>Infigratinib</b>	Low-dose FGFR1-3i	Achondroplasia <sup>3</sup>	55K						
	<b>Encaleret</b>	CaSR antagonist	ADH1 / HP	12K / 200K						
	<b>Zuretinol</b>	Synthetic retinoid	IRD (RPE65 or LRAT)	3K						
	<b>BBP-418</b>	Glycosylation substrate	LGMD2i	7K						
	<b>BBP-711</b>	GO1 inhibitor	PH1 / FSF	5K / 1.5M						
	<b>BBP-671</b>	PanK activator	PKAN / OA	7K						
	<b>BBP-761</b>	Succinate prodrug	LHON	20K						
	<b>BBP-472</b>	PI3Kβi	PTEN autism	120K						
<b>Genetic Dermatology</b> 	<b>Patidegib<sup>2</sup></b>	Topical SMOi	Gorlin / BCC	120K						
	<b>BBP-589</b>	Recombinant COL7	RDEB	1.5K						
	<b>BBP-681</b>	Topical PI3Kαi	VM / LM	117K						
	<b>BBP-561</b>	Topical KLK 5/7i	Netherton	11K						
<b>Targeted Oncology</b> 	<b>Infigratinib</b>	FGFR1-3i	FGFR+ tumors	37K						
	<b>BBP-398</b>	SHP2i	Multiple tumors	>500K						
	<b>BBP-454</b>	Pan-mutant KRASi	KRAS+ tumors	>500K						
	<b>BBP-954</b>	GPX4i	Multiple tumors	>500K						
<b>Gene Therapy</b> 	<b>BBP-631</b>	21-OH gene therapy	CAH	>75K						
	<b>BBP-812</b>	ASPA gene therapy	Canavan	1K						
	<b>BBP-815</b>	TMC1 gene therapy	Genetic hearing loss	10K						

<sup>1</sup> Each of our programs is housed in a separate subsidiary; <sup>2</sup>We are party to an option agreement pursuant to which LEO Pharma A/S has been granted an exclusive, irrevocable option to acquire PellePharm, including the BBP-009 program. If the option is exercised by LEO Pharma A/S, we will no longer have rights to develop and commercialize BBP-009. <sup>3</sup>Protocol accepted by Australian local ethics committee, IND submission to FDA expected 2020.

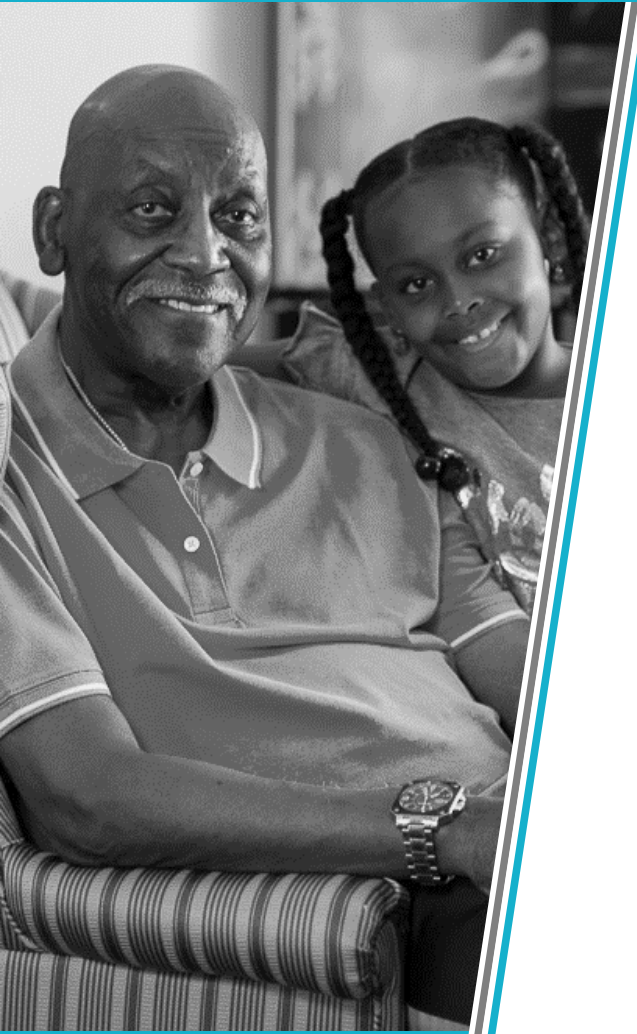


# Four key value drivers over the next 18 months

Program	Population (US+EU)	Status	Upcoming event(s)
<b>AG10: TTR stabilizer for ATTR</b> <ul style="list-style-type: none"> <li>Most potent TTR stabilizer; MOA mimics protective genetic variant</li> <li>Data to date suggest potential best-in-class clinical profile</li> </ul>	<b>&gt;400K</b>	Enrolling ATTR-CM Ph3	<ul style="list-style-type: none"> <li>Complete enrollment 1H21</li> <li>Data 1H22</li> </ul>
<b>Low-dose infigratinib (FGFRi) for achondroplasia</b> <ul style="list-style-type: none"> <li>Only agent designed to directly target genetic cause of ACH</li> <li>Differentiated pre-clinical data on cranial and spinal defects</li> </ul>	<b>55K</b>	Enrolling Ph2 study	<ul style="list-style-type: none"> <li>Dose first child 2020</li> <li>Data 2021</li> </ul>
<b>Gene therapy for congenital adrenal hyperplasia (BBP-631)</b> <ul style="list-style-type: none"> <li>One of largest potential gene therapy markets</li> <li>Only approach capable driving endogenous cortisol production</li> </ul>	<b>&gt;75K</b>	GLP tox ongoing	<ul style="list-style-type: none"> <li>File IND 2020</li> <li>Data 2021</li> </ul>
<b>Encaleret: CaSR antagonist for autosomal dominant hypocalcemia type 1 (ADH1)</b> <ul style="list-style-type: none"> <li>Directly targets ADH1 genetic driver; potentially first-in-class</li> </ul>	<b>12K</b>	Ph2-ready	<ul style="list-style-type: none"> <li>Dose first patient 2020</li> <li>Data 2021</li> </ul>



# AG10 for TTR amyloidosis (Eidos)

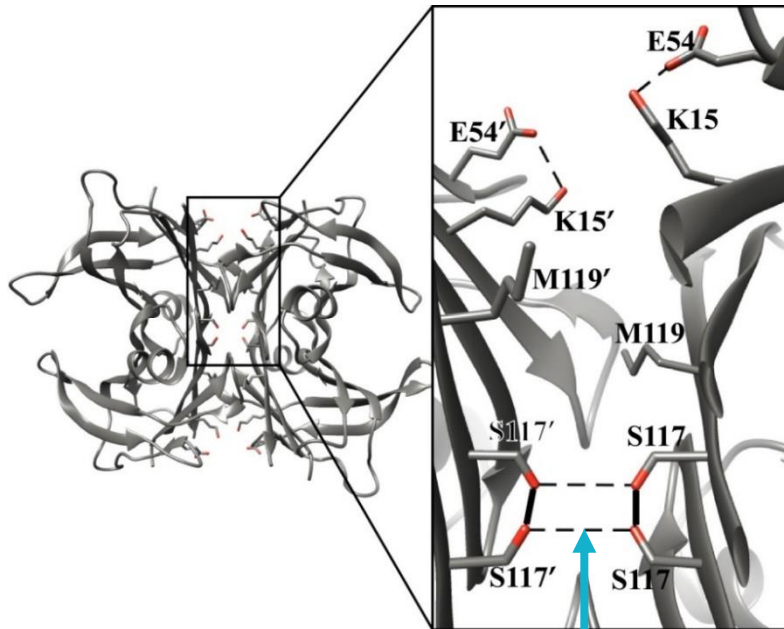


- **Addressing large and growing need in ATTR**, a fatal disease affecting >400K patients
- **Targeting the disease at its source** by stabilizing TTR, a genetic and clinically validated mechanism
- **Advancing AG10, a potential best-in-class drug** that mimics naturally occurring rescue mutation
- Phase 2 open label extension study suggests potential to **reduce mortality and cardiovascular hospitalizations** at 15 months
- **Executing Phase 3 study in ATTR-CM** with top-line data expected in 2022

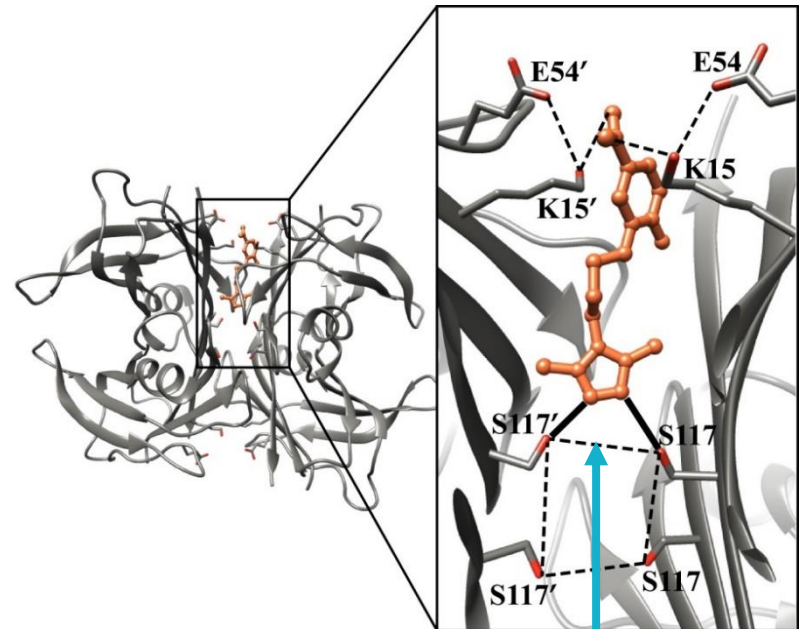
Art, ATTR-CM patient

# AG10 structurally mimics disease-protective mutation by hyper-stabilizing TTR

Disease-protective T119M mutation



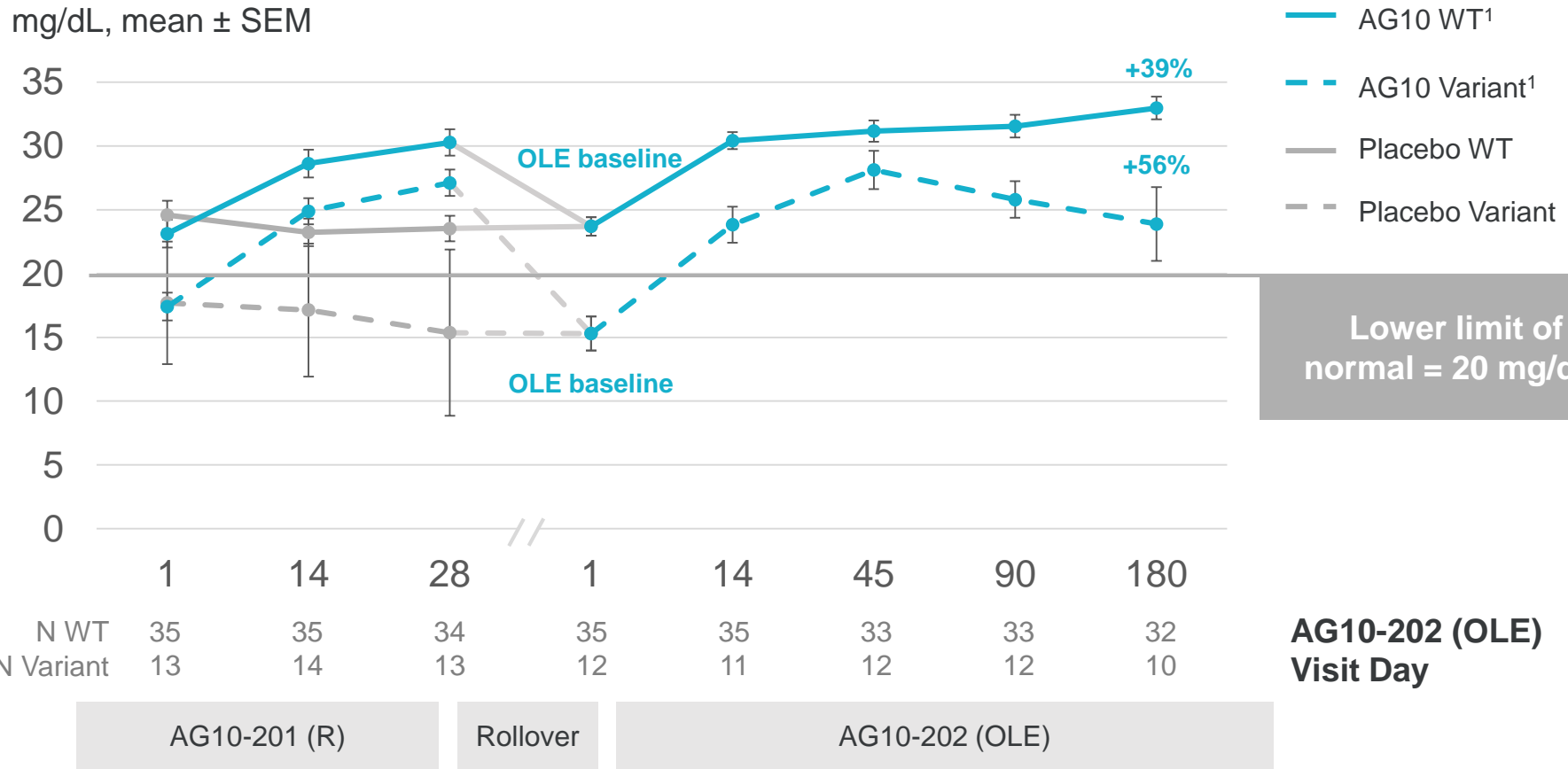
AG10-bound TTR



**Strong inter-monomer H-bonds observed via X-ray crystallography**  
**Unique binding mode vs other stabilizers**

# Serum TTR levels, a prognostic indicator of survival, increased upon AG10 treatment and were maintained throughout Ph 2 study

**Serum TTR concentration**  
mg/dL, mean  $\pm$  SEM



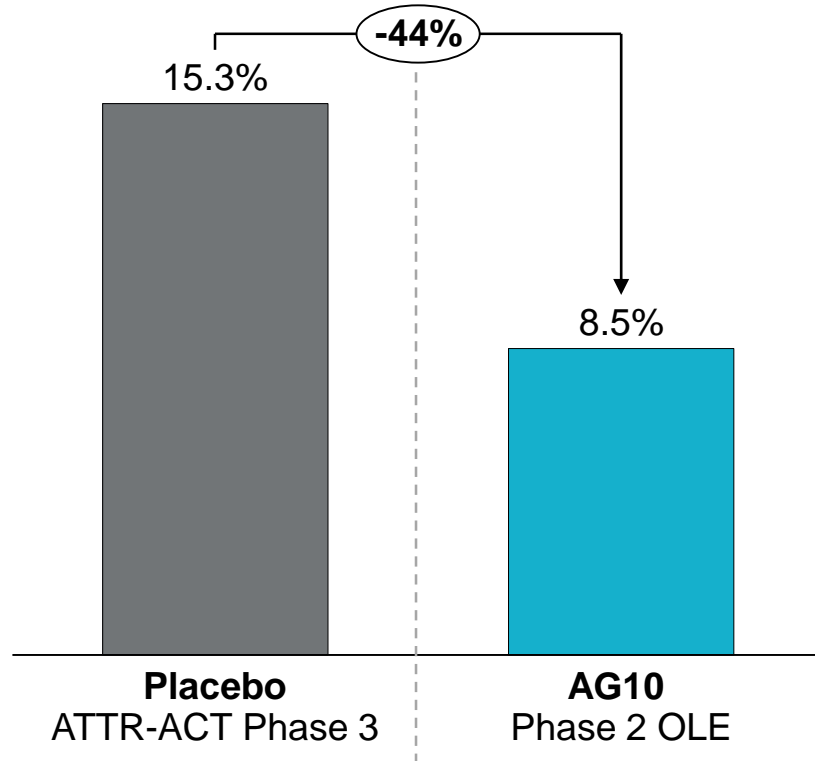
<sup>1</sup> 400mg and 800mg BID AG10 groups pooled during randomized portion

<sup>2</sup> Defined as the lower limit of the reference interval for the serum prealbumin (TTR) clinical laboratory assay

# Deaths and CV hospitalizations reported in AG10 Phase 2 OLE were lower than in placebo-treated ATTR-ACT participants

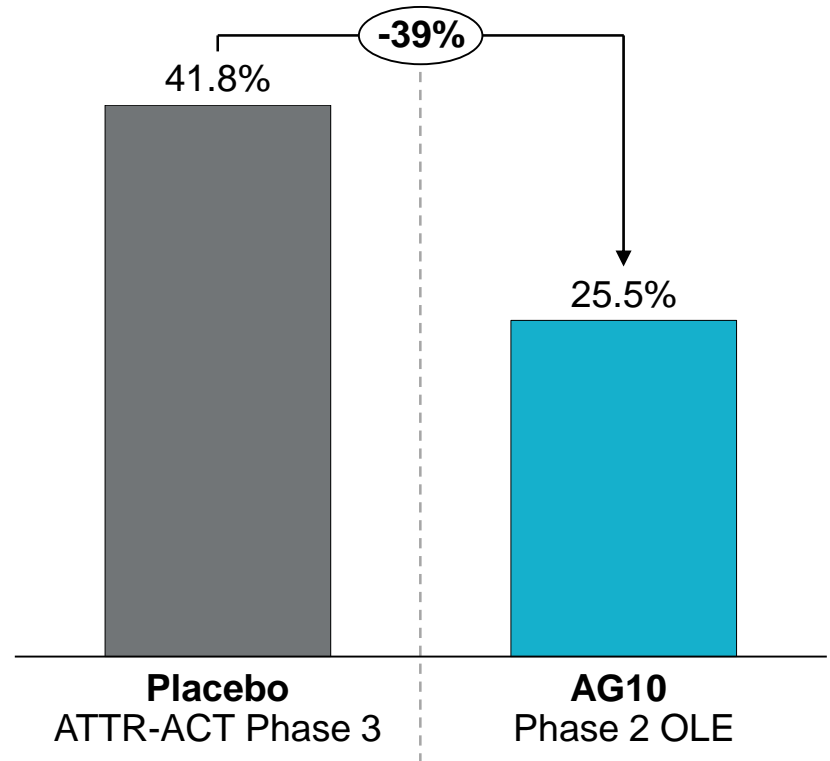
## All-cause mortality at 15 months

Participants died or receiving transplant (%)



## Cardiovascular hospitalizations at 15 months

Participants with  $\geq 1$  CV hospitalization (%)



**Phase 3 ATTRibute study expected to complete enrollment in 1H21**

<sup>1</sup> Based on routine adverse event reporting

Note: These data are based on a cross-trial comparison and not a randomized clinical trial. As a result, the values shown may not be directly comparable

Source: Judge, DP et al. American Heart Association Scientific Sessions 2019

# Low-dose FGFR inhibitor (infigratinib) for achondroplasia



## Achondroplasia overview:

- **Prevalence:** 55,000 (US+EU) – one of the most common genetic conditions
- **Genetic driver:** FGFR3 activation
- **Pathophysiology:** Up regulation of STAT1 and MAPK in the growth plate cause cranial, spinal, and stature symptoms

## Features of a potential best-in-class medicine for achondroplasia:

- **Direct targeting of FGFR3** and normalization both STAT1 and MAPK signaling pathways
- **Potential to address all drivers of symptoms**, including cranial, spinal and stature issues
- **Oral dosing**, the most convenient solution for children with achondroplasia and their families

Claudia, child with achondroplasia

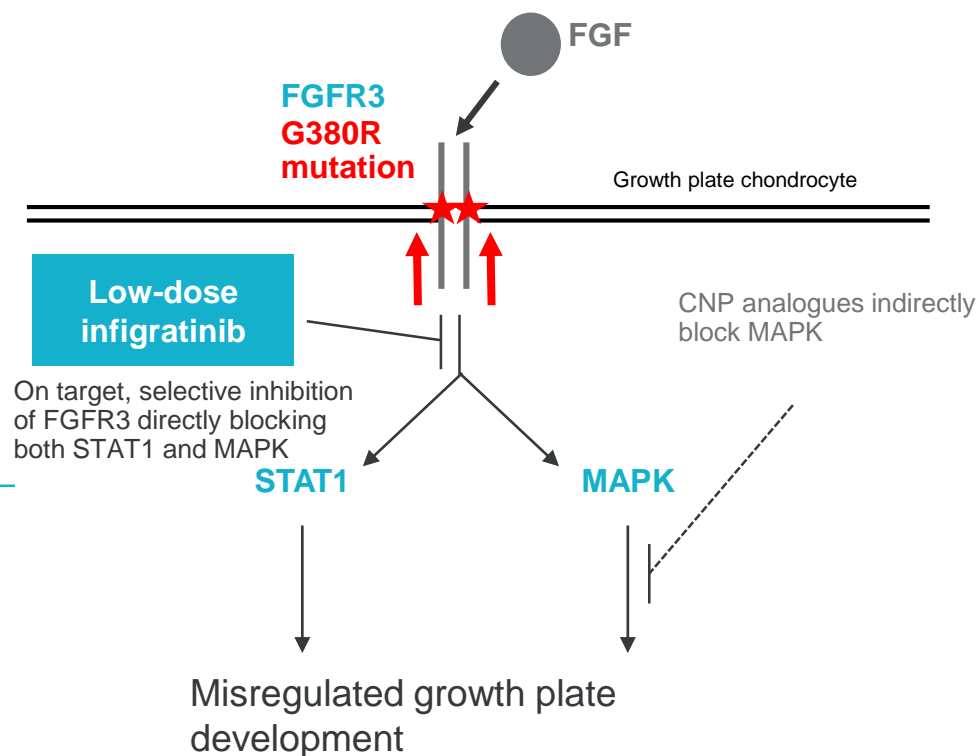
# Potential best-in-class approach to treating achondroplasia directly at its genetic source

## ACH FGFR3 gain-of-function mutation causes:

- 2-3x over activation of the receptor
- Up-regulation of downstream pathways STAT1 and MAPK
- Aberrant growth plate development causes cranial, spinal, and stature symptoms

## Low-dose infigratinib has the potential to:

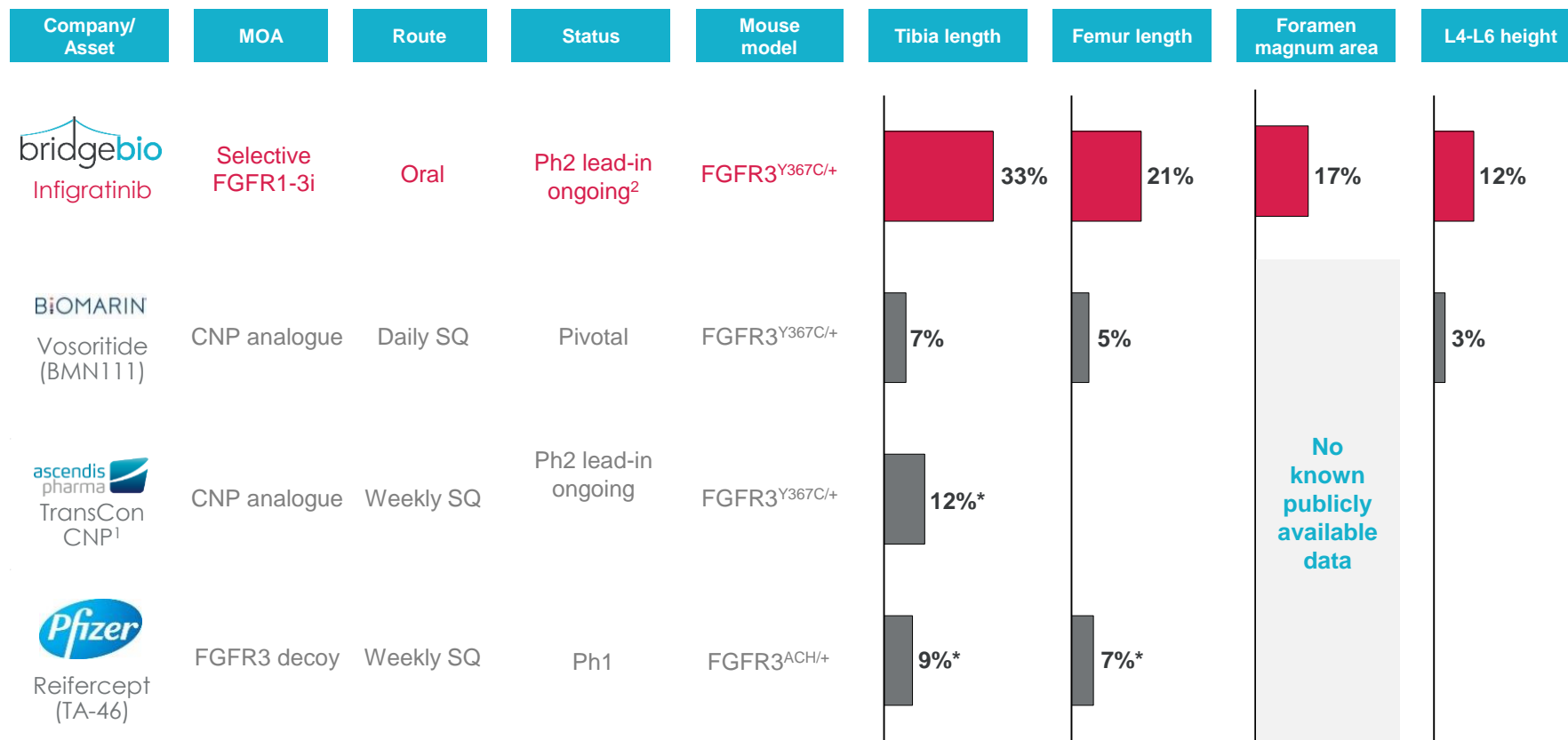
- Directly inhibit the causal gain-of-function mutation in FGFR3
- Normalize both the STAT1 and MAPK signaling pathways
- Demonstrate clear macro and microscopic improvements on foramen magnum, intervertebral discs, and long bones in validated preclinical model



# Low-dose infigratinib showed potential best in-class preclinical profile in validated achondroplasia mouse model

## Preclinical data from infigratinib and other investigational achondroplasia therapies

Percent increase compared to non-treated mouse



Source: Komla-Ebri et al. J Clin Inv 2016, Lorget et al. Am J Hum Genet 2012, Garcia et al. Science Trans Med 2013, Breinholt ENDO 2017

Note: subcutaneous doses, percent increase compared to vehicle treated FGFR3<sup>Y367C/+</sup>, FGFR3<sup>ACH/+</sup> mouse as noted in "Mouse model" columns  
Infigratinib treatment with 2mg/kg subcutaneous dose

<sup>1</sup>Based on vosoritide continuous infusion; \*Value estimated using Digitizelt. <sup>2</sup>Protocol submitted to Australian local ethics committed, IND submission to FDA expected 2020.

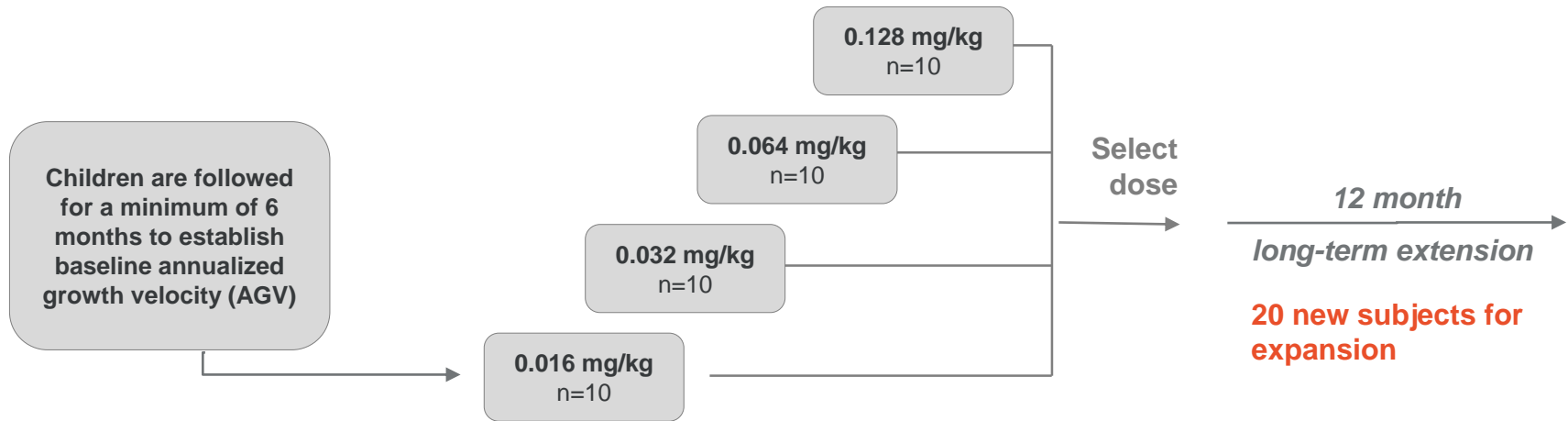


# The PROPEL clinical program is enrolling with data expected in 2021

Observational run-in

Ph2 Dose-finding (n=40)

Expansion (n=20)



## Key inclusion criteria

- Children 2.5 – 10 years old
- Clinical and molecular ACH diagnosis

## Primary objectives

- Baseline annualized growth velocity (AGV)

## Primary objectives

- Identify safe therapeutic dose for expansion / pivotal study
- Safety and tolerability
- Change from baseline in AGV

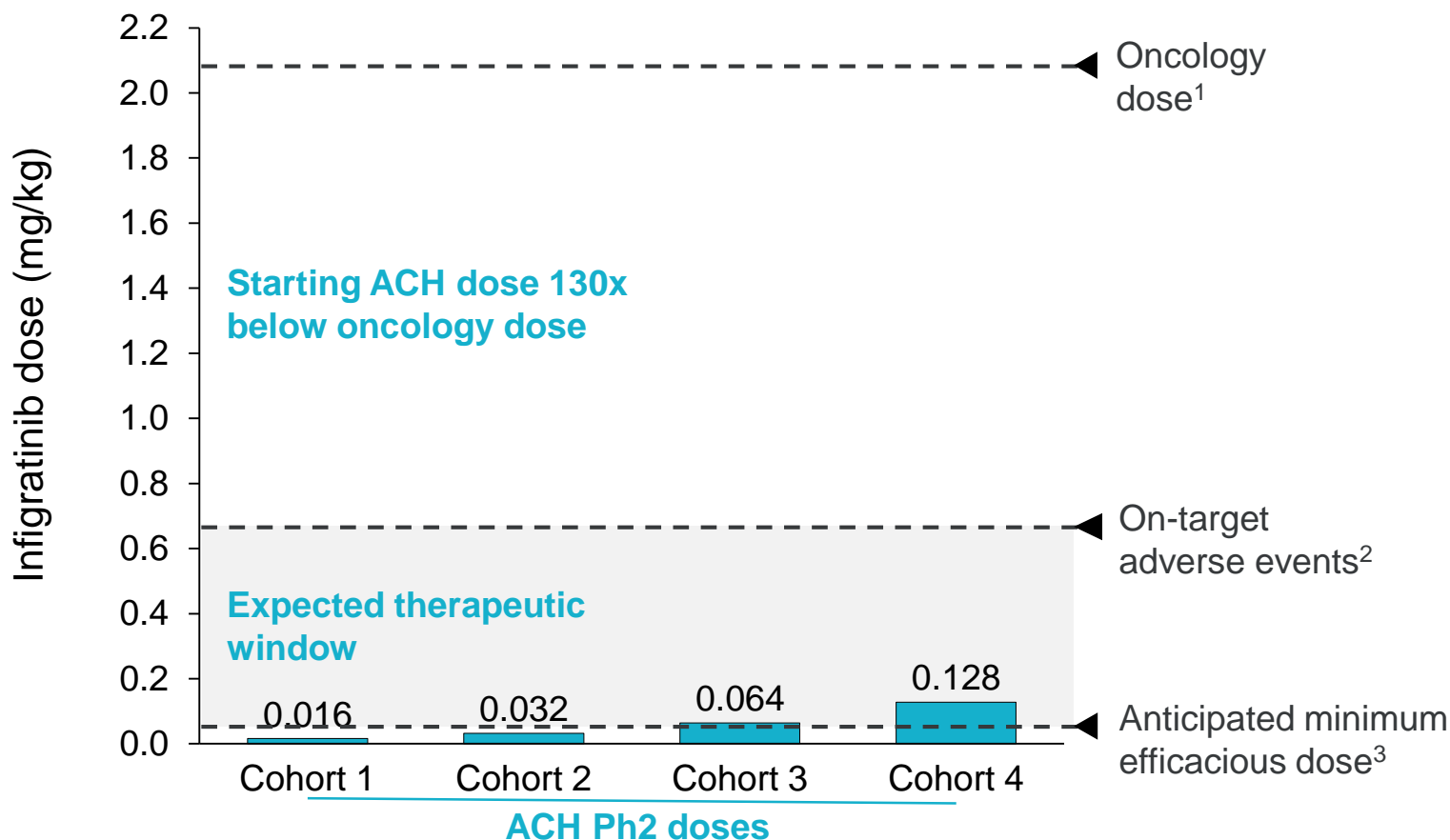
## Primary objectives

- Long-term safety and efficacy

# We have a wide anticipated therapeutic index in achondroplasia

Infigratinib has been tested in >700 humans in our oncology program, providing significant data on PK, tolerability and safety

Most common and dose-limiting side effect is phosphorus elevation (on-target through FGFR1 inhibition), which occurs significantly above our planned achondroplasia doses



<sup>1</sup>Based on 125mg dose and 60kg adult; <sup>2</sup>Based on estimated TD<sub>50</sub> at 40mg and 60kg adult; <sup>3</sup>Based on PK modeling and allometric scaling from animal models

# Gene therapy for congenital adrenal hyperplasia (CAH)



## Program overview:

- **Prevalence:** 75,000 (US+EU) – One of the largest known AAV gene therapy markets
- **Genetic driver:** 21-hydroxylase inactivation
- **Pathophysiology:** Inability to produce cortisol causes need for supraphysiologic doses of synthetic steroids, 3x increase mortality risk, hirsutism, Cushingoid symptoms

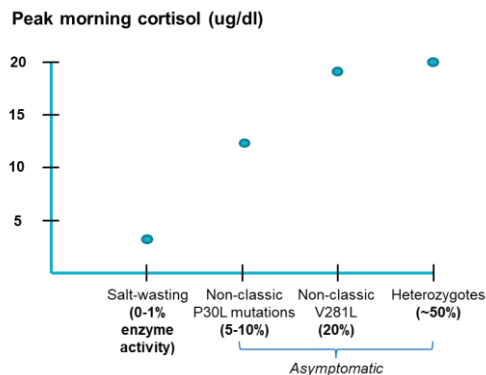
## We believe CAH is an ideal indication for AAV gene therapy:

- **Low threshold to correct phenotype**, validated by human clinical genetics
- **Only approach designed to induce endogenous cortisol production**, potentially allowing steroid withdrawal
- **Durable transgene delivery to the adrenal gland of NHP** with IV dosing of our construct
- **Preliminary Ph1/2 data anticipated in 2021**

Maris, child with CAH

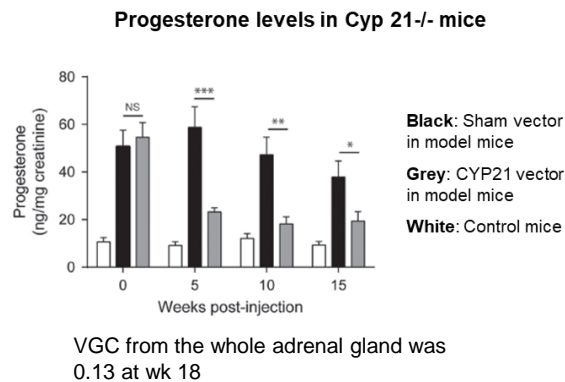
# CAH: NHP study showed durable transgene expression; 5-10% of WT enzyme may be sufficient for clinical impact

## Genotype-phenotype studies show that >5-10% of enzyme activity results in nonclassical CAH



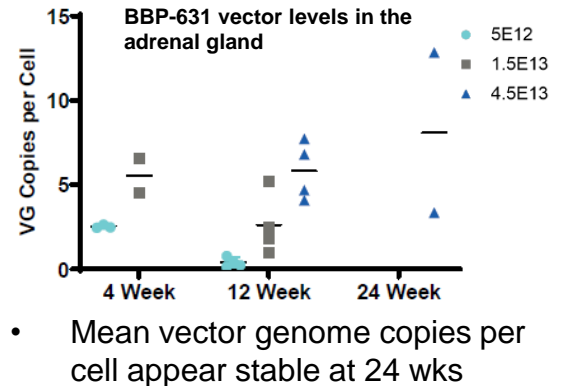
- Due to the high enzymatic efficiency/selectivity of 21-OHase, **only a small amount of enzyme is required to rescue the phenotype**

## Mouse studies show a VGC of only 0.13 at 18 wks was sufficient for phenotypic correction

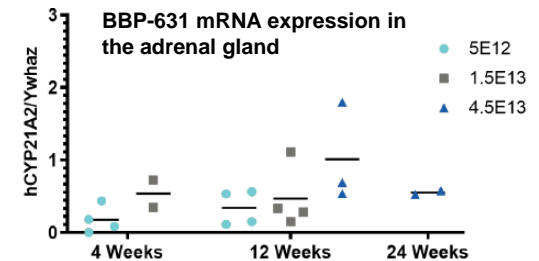


- At 15 weeks in treated mice, **progesterone** (the key substrate of 21OHase in mice) was **significantly reduced vs untreated mice**

## NHP studies show sustained VGC and RNA out to 6 months



- Mean vector genome copies per cell appear stable at 24 wks



- Transgene expression is dose-dependent and stable out at 24 wks

# Encaleret for disorders of calcium homeostasis, including autosomal dominant hypocalcemia type 1 (ADH1)



## Targets hypocalcemia/hypercalciuria by selectively antagonizing the calcium-sensing receptor (CaSR)

- Opportunity identified in collaboration with global experts at the NIH

## Potential 1st in class CaSR antagonist with differentiated profile for ADH1 and hypoparathyroidism

- Initial development in genetically-defined population of ADH1, driven by CaSR activating mutations (~12K carriers in US)
- Potential for expansion into post-surgical chronic hypoparathyroidism (~200K patients in US & EU)

## Prior clinical experience enables accelerated development

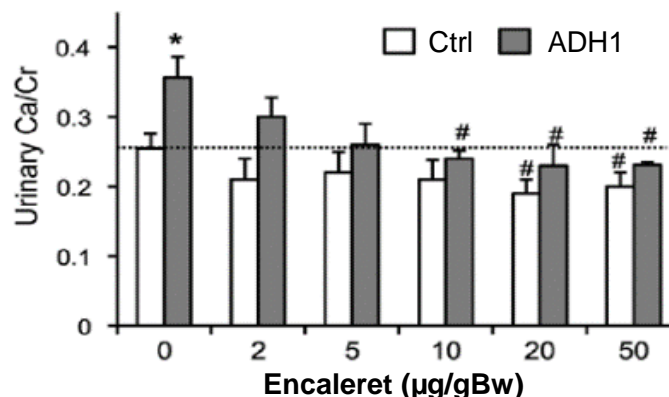
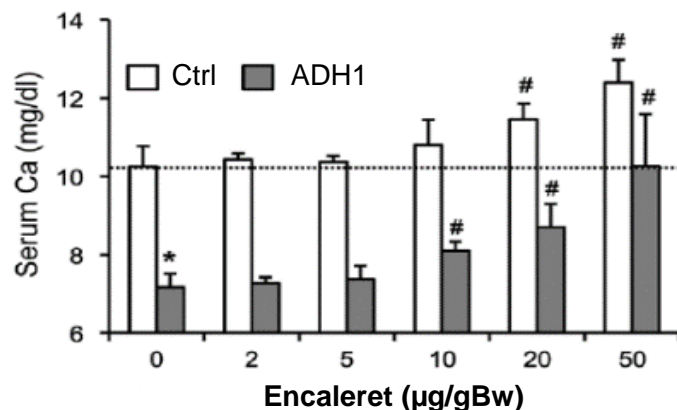
- Well tolerated in >1,200 human subjects and increased serum calcium in a dose-dependent manner
- Phase 2 study in ADH1 planned to initiate in 2020 with proof-of-concept data anticipated in 2021

# Encaleret targets ADH1 at its source by normalizing hyper-active calcium sensing receptor

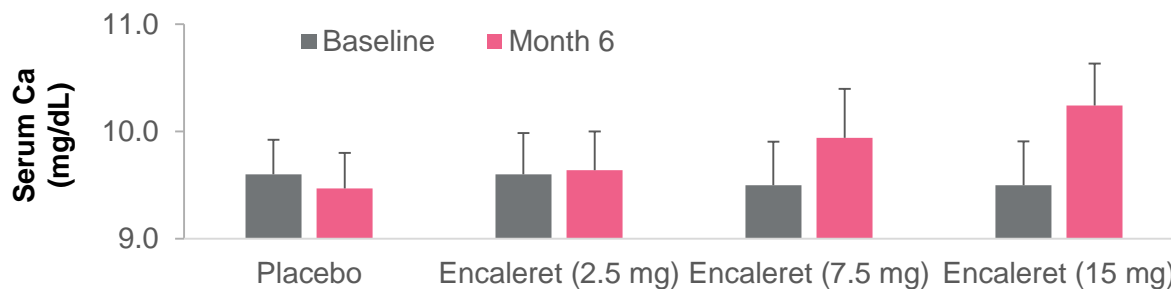
## Rationale for calcilytic use in ADH1

- ADH1 is caused by activating mutations in the CaSR leading to hypocalcemia and hypercalciuria
- Prior generation calcilytic partially addressed ADH1 phenotype despite limited exposure<sup>1</sup>

## Encaleret normalized serum and urine calcium in a mouse model of ADH1<sup>2</sup>

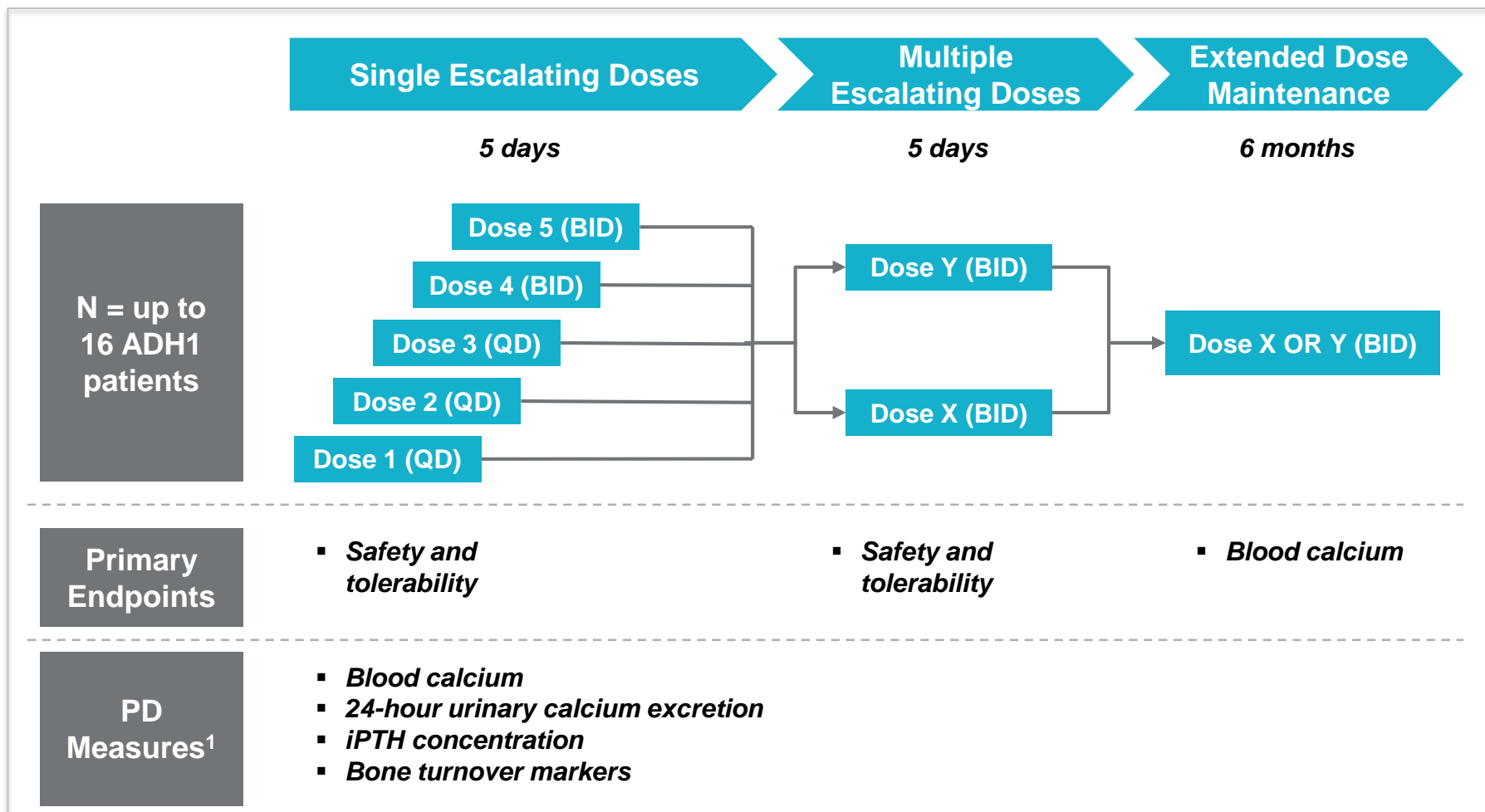


## Encaleret increased serum calcium in clinical trials in patients with osteoporosis<sup>3</sup>



Source: 1 Roberts, M.S., et al. J Bone & Min 2019; 2 Dong B., et al. J Bone & Min 2015; 3 Data on file

# Phase 2b, open-label dose-ranging study will evaluate safety, tolerability, and efficacy of encaleret in ADH1



Top-line, proof-of-concept results of encaleret in ADH1 are expected in 2021

<sup>1</sup> Pharmacodynamic measurements to be collected through duration of study.



# Early oncology portfolio



Basia,  
pancreatic  
cancer patient

## World-class oncology team drives our discovery and development

- **Eli Wallace**, CSO Oncology
- **Frank McCormick**, Chairman of Oncology
- **Richard Scheller**, Chairman of R&D



## Our KRAS platform has produced 3 pan-mutant programs:

- 1 – H95 approach, designed to block effector signaling
- 2 – KRAS:PI3K blocker approach, designed to block PI3K effector signaling
- 3 – C185 approach, designed to block KRAS prenylation and activation

## We are also prosecuting novel targets with extensive academic validation

- **SHP2i** for multiple tumors (10+ recent papers in *Nature*, *Science*, *Nature Medicine*)
- **GPX4i** for multiple tumors (10+ recent papers in *Nature*, *Cell*, *Science*, *Cancer Cell*)

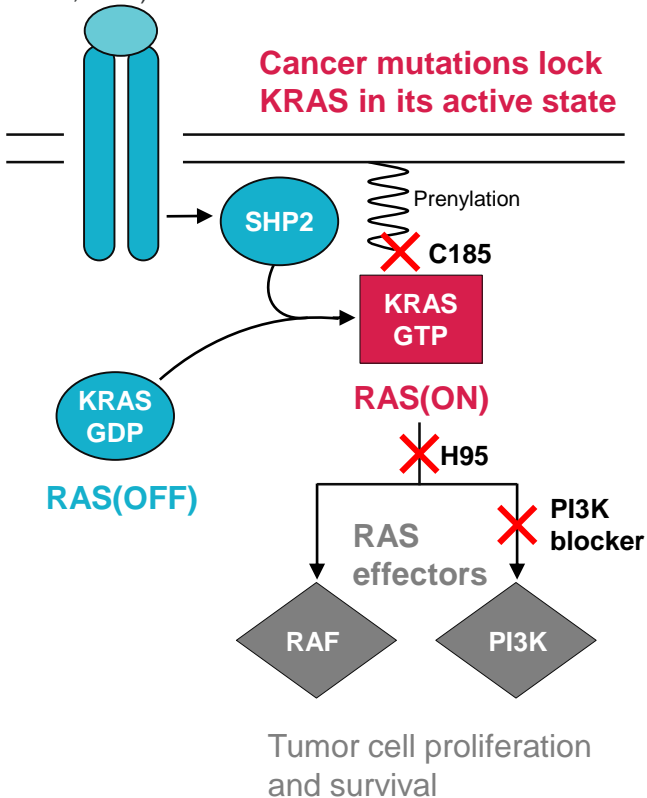
Program	MOA	Disease	Stage	Next anticipated update
Pan-mutant KRAS inhibitors	(1) H95 approach (2) PI3K blocker (3) C185 approach	KRAS+ cancer	Discovery	Clinical candidate nomination
SHP2 inhibitor	Allosteric inhibitor	Multiple tumors	Pre-IND	IND submission in 2020
GPX4 inhibitor	Covalent inhibitor	Multiple tumors	Discovery	Clinical candidate nomination

# KRAS: multiple shots on goal with our pan-mutant inhibitor programs – each with a unique MOA targeting a novel pocket

## KRAS pathway in cancer

Receptor tyrosine kinase signals (EGFR, ALK, TRK, RET)

**Cancer mutations lock KRAS in its active state**



## Program

## MOA

Targets  
KRAS  
GTP

Pan-  
mutant

Crystal  
structure

### Program 1: H95 targeting

- Directly binds activated KRAS through H95
- Inhibits KRAS from signaling through effectors



### Program 2: PI3K effector blocking

- Blocks specific interaction between KRAS and PI3Ka
- Blocks PI3K / AKT effector signaling



### Program 3: C185 targeting

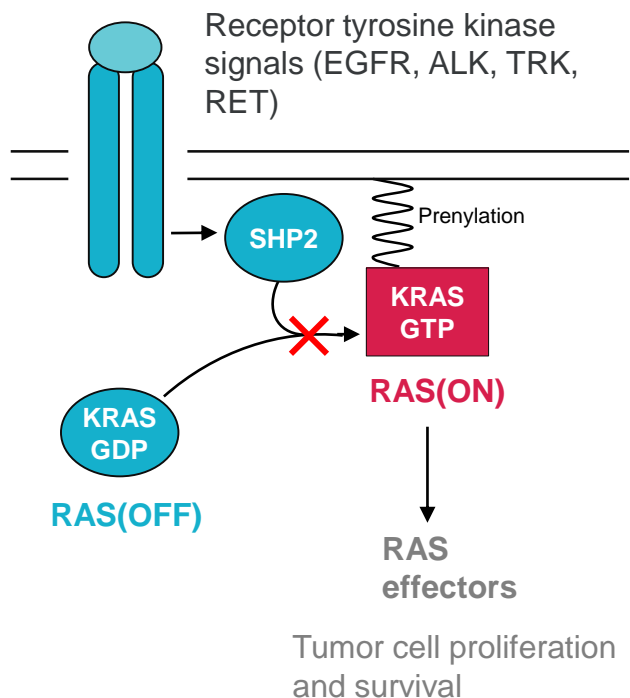
- Blocks KRAS from tethering
- Blocks conversion of inactive KRAS GDP to active KRAS GTP



**Our programs are designed to address all KRAS driver mutations, which occur in 30% of all cancers**

## SHP2: Our compound is expected to enter the clinic in 2020

- Our compound traps SHP2 in the inactive state, thereby blocking downstream MAPK signaling
- In collaboration with MD Anderson, optimized our SHP2i for use in combination (no QTC prolongation or hypertension)
- Well tolerated in 28d GLP-tox studies – MTD not reached in dogs (25mpk) or rats (100mpk)
- First SHP2 inhibitor clinical data, (RVMD Q1 2020) demonstrates monotherapy antitumor activity\*



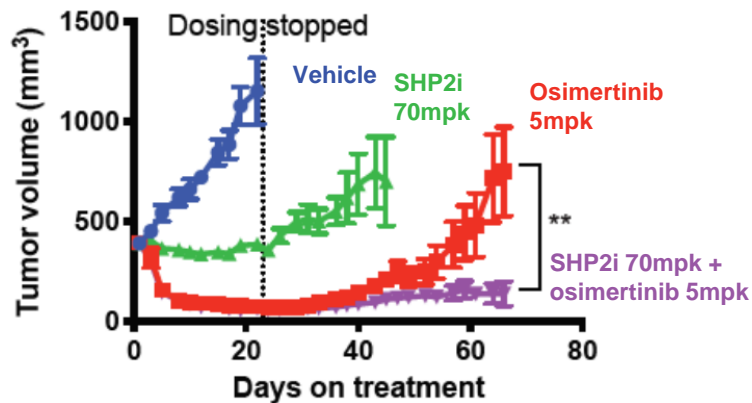
## Preclinical SHP2i data

<i>In vitro</i> properties	BBIO	RVMD*
pERK IC <sub>50</sub> (nM) cellular assay	<40	<40
hERG Patch clamp IC <sub>50</sub> (μM)	>100	?
<b>Monotherapy anti-tumor activity</b>		
KRASG12C xenograft	✓	✓
EGFR mutant xenograft	✓	✓
<b>Combination enhanced anti-tumor activity</b>		
G12Ci	✓(AMG 510)	✓(MRTX 849)
MEKi	✓(trametinib)	✓(cobimetinib)
EGFRi osimertinib	✓	✓
<b>Preclinical profile demonstrates activity in-line with SHP2i class and potential for better tolerability</b>		

# SHp2: Preclinical rationale for development in NSCLC

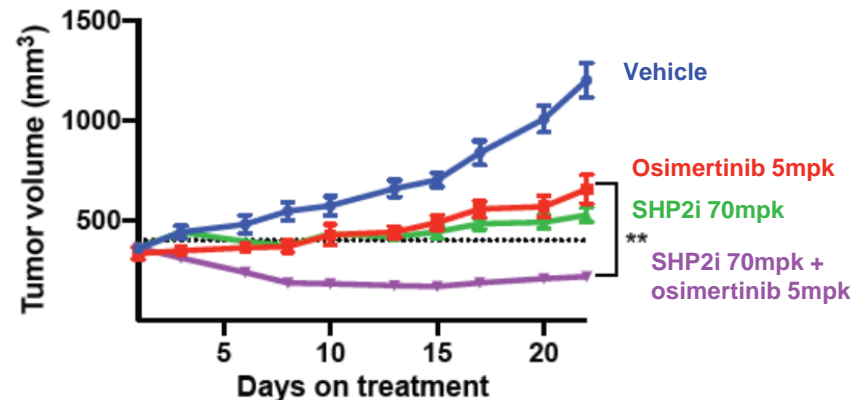
NSCLC: Deep and durable tumor regressions in combination with market-leading EGFRi osimertinib

## EGFR+ NSLC model (HCC827)



- Our compound + osimertinib deep tumor regression
- Effect was durable at least 40d after dosing stopped

## EGFR+, osimertinib-resistant NSLC model (HCC827-ER, METamp)

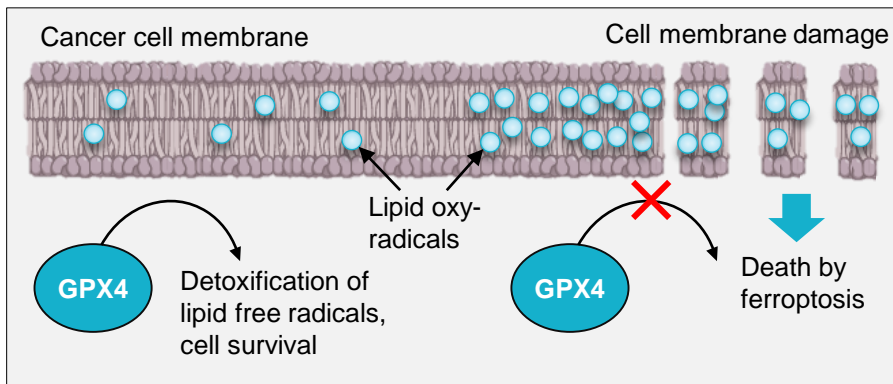


- Our compound + osimertinib produced regression in an osimertinib resistant model
- Provides rationale for testing in osimertinib failures

# GPX4: Potential first-in-class therapy for a novel cancer target

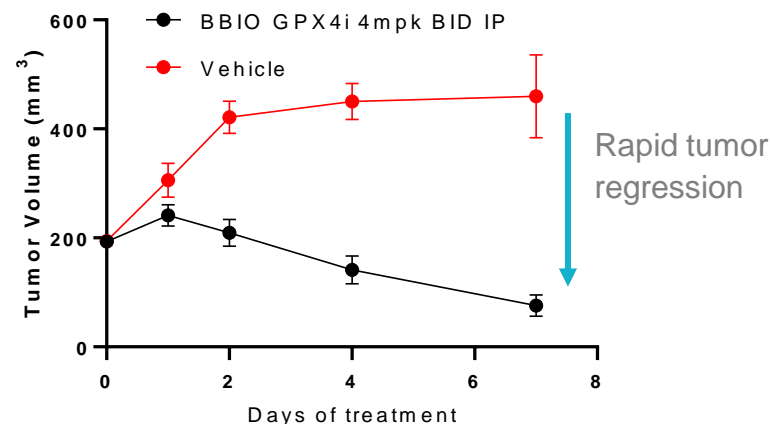
## GPX4 is the key negative regulator of ferroptosis

- GPX4 neutralizes toxic free radicals at the lipid membrane, protecting cells from death (ferroptosis)
- We are developing covalent inhibitors of GPX4 designed to induce ferroptosis in cancer cells
- Recent high profile publications provide preclinical in vivo rationale for monotherapy and combinations with IO, kinase inhibitors and chemotherapy



## In vivo monotherapy activity in RCC xeno model

Model: 786-O RCC xenograft (VHL LOF, p53 LOF)



Synergy with targeted therapies and immunotherapy using in vitro models

Optimization of oral lead compounds ongoing

# Three late-stage programs continue to progress toward the market

Program	2019	2020	2021
<b>Fosdenopterin:</b> cPMP replacement for MoCD type A	✓ Initiate rolling NDA submission	<input type="checkbox"/> Complete rolling NDA submission	<input type="checkbox"/> FDA approval / launch <input type="checkbox"/> Potential PRV sale
<b>Infigratinib:</b> FGFRi for 2L cholangiocarcinoma with FGFR2 fusion	✓ Complete enrollment in Ph2 pivotal study	<input type="checkbox"/> Complete NDA submission	<input type="checkbox"/> FDA approval / launch
<b>Topical patidegib:</b> SMOi for Gorlin syndrome	✓ Complete enrollment in Ph3 study	<input type="checkbox"/> Last patient last visit	<input type="checkbox"/> Topline data <input type="checkbox"/> Potential payment from Leo

We are building a track record of late-stage clinical and regulatory execution

# Multiple catalysts anticipated in 2020-2021

ESTIMATED

2020		2021
1H	2H	FY
<ul style="list-style-type: none"> <li>✓ New program announcements</li> <li>✓ FGFRi for cancer: FPI Ph3 adjuvant urothelial carcinoma study</li> <li>✓ FGFRi for cancer: FPI Ph2 FGFR fusion tumor agnostic Ph2 study</li> </ul>	<ul style="list-style-type: none"> <li>❑ Low-dose FGFRi for achondroplasia: Begin dosing Ph2</li> <li>❑ cPMP for MoCD type A: Complete NDA submission</li> <li>❑ CaSR antagonist for ADH1: Dose first patient in Ph2 study</li> <li>❑ FGFRi for cancer: Pivotal 2L CCA data</li> <li>❑ FGFRi for cancer: Submit NDA for 2L CCA</li> <li>❑ New IND filings</li> </ul>	<ul style="list-style-type: none"> <li>❑ TTR stabilizer for ATTR: Complete enrollment of ATTR-CM Ph3</li> <li>❑ Topical SMOi for Gorlin: Topline Ph3 data</li> <li>❑ Low-dose FGFRi for achondroplasia: Ph2 PoC data</li> <li>❑ CAH gene therapy: Ph1/2 PoC data</li> <li>❑ CaSR antagonist for ADH1: Ph2 POC data</li> <li>❑ FGFRi for cancer: 2L CCA approval and launch</li> <li>❑ cPMP for MoCD type A: Approval and launch</li> <li>❑ Recombinant COL7 for RDEB: Topline Ph1/2 data</li> </ul>

**\$928mn in cash and equivalents as of 1Q20 expected to provide runway into 2022**