

# SPRING BANK

Driven by a novel pharmaceutical  
..... platform focused on .....

**SELECTIVE IMMUNOMODULATION**



# Forward Looking Statements

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This presentation includes forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995. Forward-looking statements include, among other things, statements, other than historical facts, regarding: the progress, scope, duration or results of clinical trials and preclinical studies of inarigivir soproxil (“inarigivir”), SB 9225, SB 11285 or any of our other product candidates or programs, such as the size, design, population, conduct, cost, objective or endpoints of any clinical trial, or the timing for initiation or completion of or availability of results from any clinical trial (including our Phase 2 clinical trial of inarigivir in patients with chronic Hepatitis B virus); the potential benefits that may be derived from any of our product candidates; our future operations, financial position, revenues, costs, expenses, uses of cash, capital requirements or our need for additional financing; or our strategies, goals, milestones, prospects, beliefs, intentions, plans, expectations, forecasts or objectives. Words such as “anticipates,” “believes,” “plans,” “expects,” “projects,” “future,” “intends,” “may,” “will,” “should,” “could,” “estimates,” “predicts,” “potential,” “continue,” “guidance,” and similar expressions sometimes identify forward-looking statements. Any forward-looking statement involves known and unknown risks, uncertainties and other factors that may cause our actual results, levels of activity, performance or achievements to differ materially from those expressed or implied by such forward-looking statement, and, therefore, you are cautioned not to place undue reliance on any forward-looking statement. These factors include, but are not limited to: whether our cash resources will be sufficient to fund our continuing operations for the period anticipated; the components, timing, costs and results of our clinical trials, preclinical studies and other

development activities involving our product candidates; whether certain top-line results from our clinical trials materially change as more information becomes available; whether results obtained in preclinical studies and clinical trials will be indicative of results obtained in future clinical trials; whether inarigivir, SB 9225, SB 11285 and any of our other product candidates will advance through the clinical trial process on a timely basis and receive approval from the United States Food and Drug Administration or equivalent foreign regulatory agencies; and whether, if inarigivir, SB 9225, SB 11285 or any of our other product candidates obtain regulatory approval, it will be successfully distributed and marketed. These and other risks and uncertainties that we face are described in our most recent Annual Report on Form 10-K, filed with the Securities and Exchange Commission (SEC) on March 11, 2019, and in other filings that we make with the SEC from time to time.

All forward-looking statements speak only as of March 11, 2019 and should not be relied upon as representing our views as of any other date. We specifically disclaim any obligation to update any forward-looking statement, except as required by applicable law. All trademarks, service marks, trade names, logos and brand names identified in this presentation are the properties of their respective owners.

This presentation also contains estimates and other statistical data generated by independent parties and by us relating to market size and statistics. These estimates involve a number of assumptions and limitations, and you are cautioned not to give undue weight to such estimates.

# Spring Bank (NASDAQ: SBPH) Investment Opportunity

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- **Expanding into the broadest clinical development program in HBV in 2019**
  - Recently-issued FDA Draft Guidance provides a clear development pathway opportunity for inarigivir & SB 9225
- **SB 9225 (inarigivir + tenofovir disoproxil fumarate) progressing towards Phase III initiation in 2020**
- **Gilead clinical collaboration currently in Phase 2 with multiple cohorts**
  - Inarigivir is part of an expanding HBV development strategy with Gilead
- **SB 11285 on track to be the first IV administered STING agonist to enter the clinic in 2019**
- **Currently funded into Q2 2021 with over \$64M\* and numerous data readouts in the next 12–18 months**

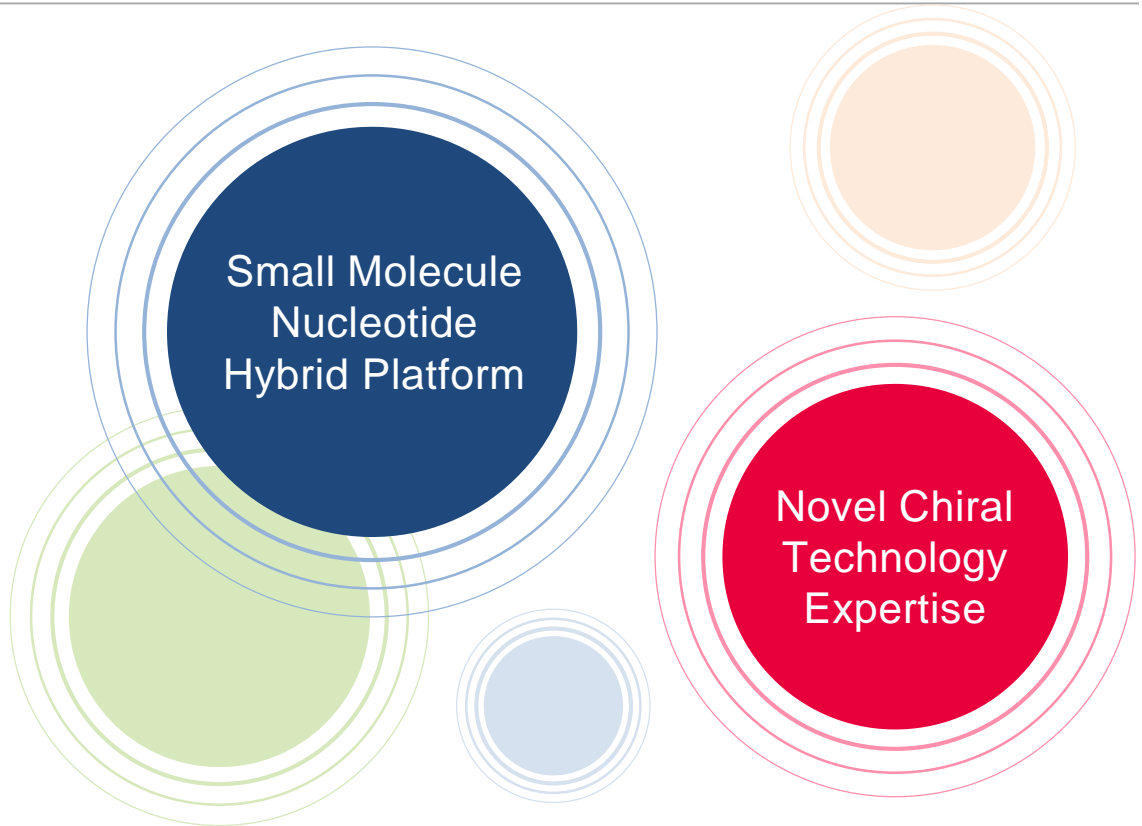
\*As of December 31, 2018.

# SBPH Corporate Focus and Strategy

Platform focused on immunomodulatory targets based on endogenous nucleotide ligands

Rapid evolution of nucleotide scaffolds into development candidate small molecule nucleotide hybrids

Reduces discovery cycle and potentially shortens development time



# Differentiated Pipeline Designed To Meet Significant Unmet Needs

Therapeutic Areas	Compound	Discovery/Lead Optimization	Preclinical	Phase 1	Phase 2	Phase 3
HBV	<b>Inarigivir</b>					
	Monotherapy		▶			
	Co-Administration with Gilead's Vemlidy®		▶ <i>Funded by Gilead</i>			
	Co-Administration with NUCs		▶			
	<b>SB 9225</b> (inarigivir + tenofovir disoproxil fumarate) fixed-dose combination	▶				
	<b>HBx-gene antagonist</b>	▶				
Cancers	<b>Second-Generation STING Agonists</b>					
	<b>SB 11285</b> (intravenous, intratumoral)	▶				
	<b>Multiple analogs</b> (nanoparticle, neoadjuvant and ADC development)	▶				
	<b>RIG-I agonist</b>	▶				
Inflammatory Diseases	<b>STING antagonist</b>	▶				

# Chronic HBV: A Global Problem

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Chronic HBV infection  
prevalence (approximate)

**~257MM**  
GLOBALLY

**~17MM**  
US AND EUROPE

Estimated  
Deaths

**~900,000**  
(IN 2017)

HBV NUC global  
therapeutics sales

**\$2.1 B**  
(IN 2017)

## LOW TREATMENT RATES OF CHRONIC HBV PATIENTS

- Estimated 10-15% in the US and Europe
- Estimated 1% in the Asia-Pacific region

## LOW FUNCTIONAL CURE RATES WITH CURRENT STANDARD OF CARE

# An Opportunity to Change the Chronic HBV Paradigm

## Elevating the Functional Cure Rate

### A meaningful new therapy will need:

- 1 A good safety & tolerability profile
- 2 Ease of administration
- 3 ACHIEVE finite course of treatment leading to functional cure rates >8-10%\*

- HBV is complex and heterogenous
- Combinatorial approach will be required
- Immunomodulation will need to be the backbone

**“Combination of antiviral and immune modulatory therapies will likely be needed to achieve functional hepatitis B virus cure.”**

– Lok A, Zoulim F, Dusheiko G, Ghany MG. Hepatitis B cure: from discovery to regulatory approval. *J Hepatol.* 2017;67:847-861.

\*Represents the approximate number of patients that achieved HBsAg clearance after 48 weeks of treatment with  $\alpha$ IFN + Viread® HBsAg, hepatitis B surface antigen; HBV, hepatitis B virus; IFN, interferon.

# Inarigivir

## A Novel, Oral, Selective Immunomodulator With a Dual Mechanism of Action

- Potent RIG-I agonist
- Orally bioavailable, liver-selective immunomodulator
- Demonstrated dose response in HBV DNA and HBV RNA
- Only oral drug to show significant HBsAg reduction
- Favorable safety profile in over 100 subjects to date with no SAEs
- Deep collaboration with Gilead for co-administration studies with “NUCs”

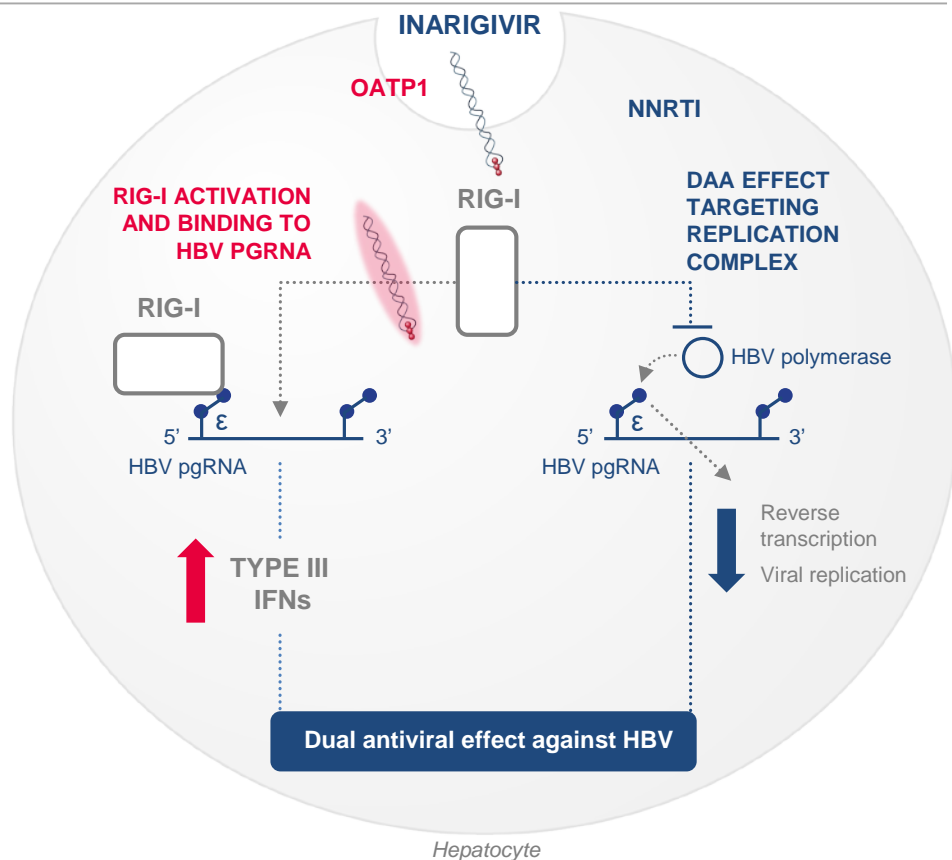




# Inarigivir: A Novel and Oral Selective Immunomodulator with a Dual Mechanism of Action

## INARIGIVIR is a RIG-I AGONIST which is designed to:

- Restore hepatic selective innate and adaptive immune response stimulating the production of type I and III IFNs
- Inhibit the HBV replication complex via a direct acting anti-viral effect
- Result in significant anti-HBV activity with reduction in HBV DNA, HBV RNA, HBsAg and cccDNA



# Inarigivir: Selective Hepatic Immunomodulation and Direct Acting Antiviral Activity

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## PRE-CLINICAL STUDIES

- Host mediated pan antiviral agent against RNA viruses
- Inarigivir binds to CARDs and regulatory domain of RIG-I with activation of IRF-3 and hepato-selective innate immune response
- Inarigivir effective against NUC- and capsid-resistant HBV variants
- Inarigivir up-regulates intra-hepatic RIG-I, activates intra-hepatic ISGs and suppresses HBsAg, HBV DNA, HBV RNA, and cccDNA in the woodchuck model
- Inarigivir acts as a non-nucleotide reverse transcriptase inhibitor (NNRTI) within the nucleocapsid replication complex

# Inarigivir: Selective Hepatic Immunomodulation and Direct Acting Antiviral Activity (Cont.)

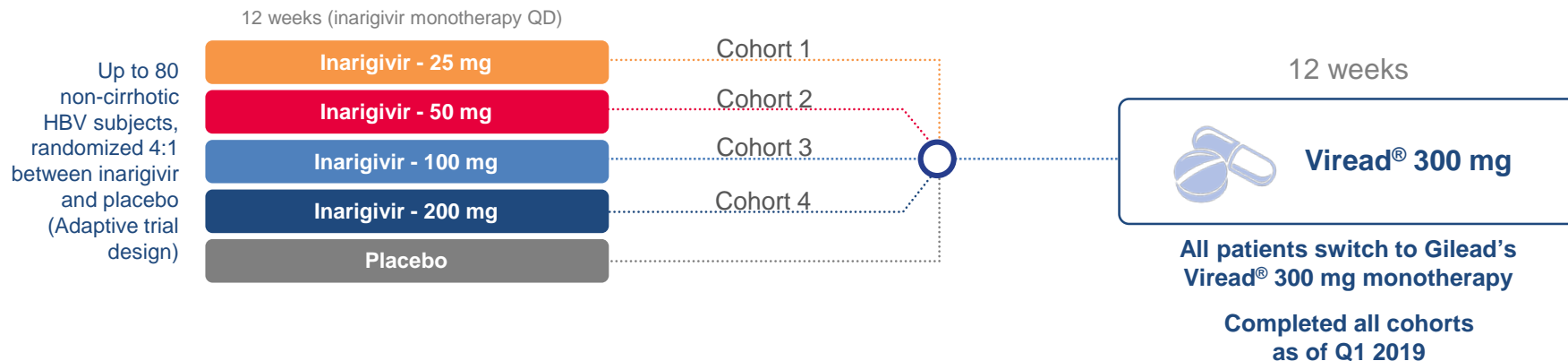
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## CLINICAL STUDIES

- Inarigivir demonstrates potent antiviral activity against HCV with response proportional to ISG activation and IL-28b status
- Preliminary data shows inarigivir responses in HBV associated with activation of ISGs in PBMCs
- Inarigivir activates B-cell neutralizing HBsAb response in responder patients

# ACHIEVE Phase 2 Dose Escalation Study

## Clinical trial collaboration with Gilead to evaluate inarigivir followed by Viread® 300 mg



### PRIMARY ENDPOINT

Safety and antiviral activity at 12 weeks

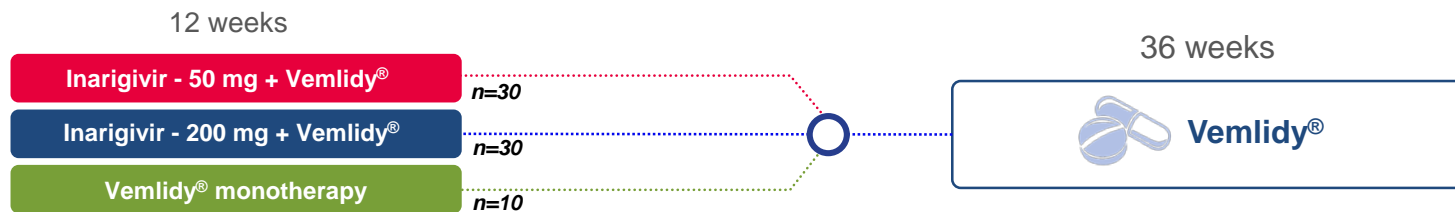
### SECONDARY ENDPOINT

PK, change in serum HBV DNA, HBsAg, HBV RNA and HBeAg from baseline to weeks 6, 12, 14, 16, and 24

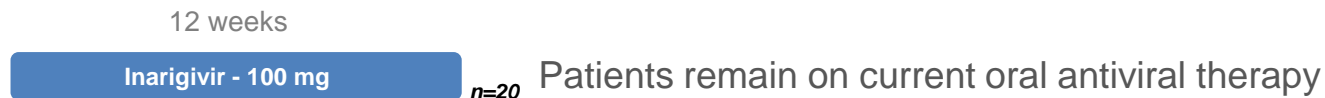
# Global HBV Clinical Collaboration With Gilead

## Expanded Gilead Phase 2 HBV Study

Inarigivir co-administered with Vemlidy® (tenofovir alafenamide) 25 mg in *naïve patients*



Inarigivir monotherapy in *virally suppressed patients*



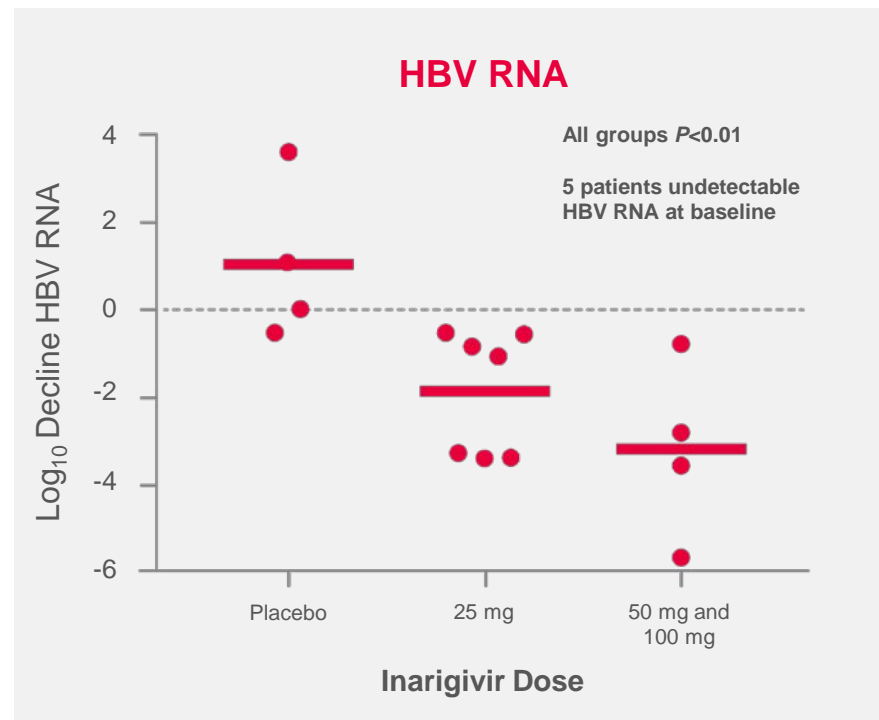
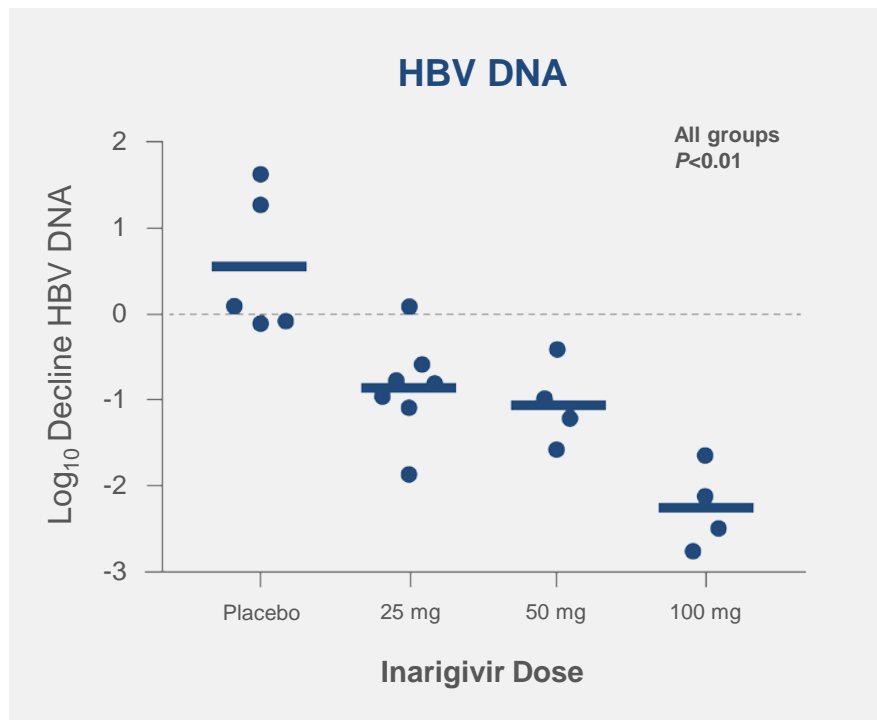
Initiated by Gilead in 1H 2018  
Executed and funded by Gilead

# ACHIEVE Trial: Representative Demographics of Global “Real World” HBV Patient Population

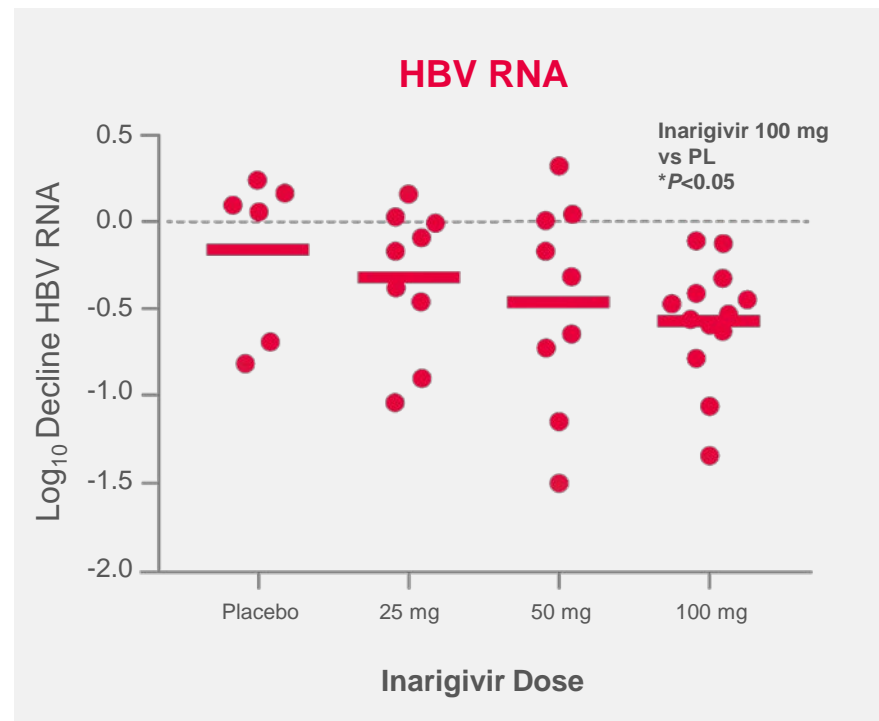
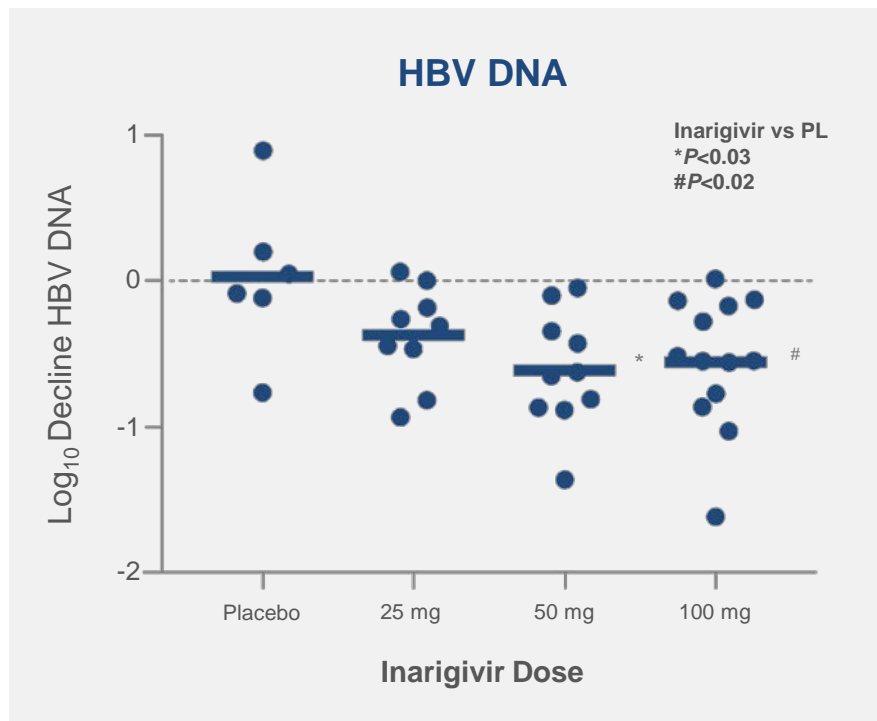
		Cohort 1			Cohort 2		Cohort 3	
		Placebo	25 mg HBeAg +ve	25 mg HBeAg -ve	50 mg HBeAg +ve	50 mg HBeAg -ve	100 mg HBeAg +ve	100 mg HBeAg -ve
<b>Number</b>		11	9	7	11	5	13	4
<b>Mean Age</b>		40	37	43	36	47	34	46
<b>Gender M:F</b>		7:4	5:5	3:3	9:2	5:0	7:6	3:1
<b>Mean Baseline ALT</b>		69	82	75	75	65	75	90
<b>Mean Baseline HBV DNA log<sub>10</sub></b>		6.20	7.86	5.69	7.79	4.55	8.20	5.95
<b>Genotype</b>	<b>A</b>	1		1				
	<b>B</b>	6	4	3	3	3	4	3
	<b>C</b>	4	5	1	7	1	8	1
	<b>D</b>			2	1		1	

In cohort 2 (50mg), two patients (1 HBeAg +ve and 1 HBeAg -ve) withdrew at day 1 and day 14 from patient choice

# Inarigivir Demonstrates a Continuing Positive Dose Response in HBeAg -ve Patients at Week 12

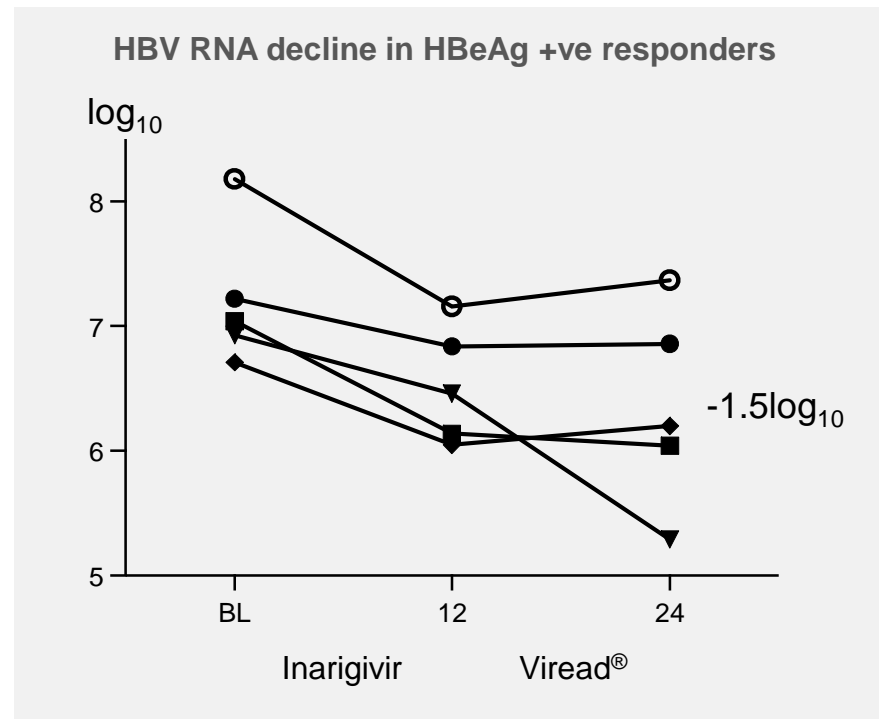
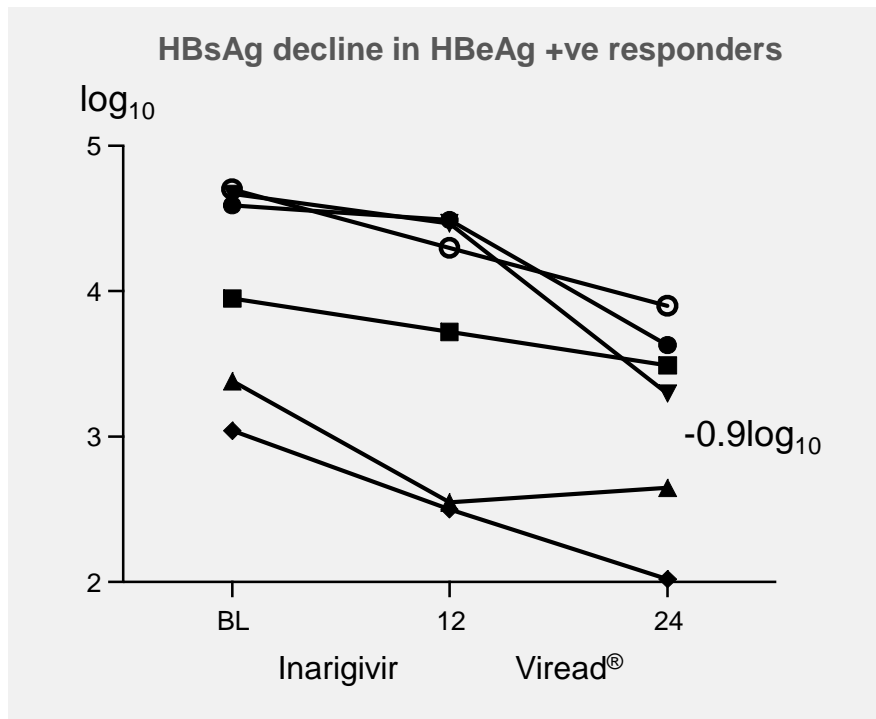


# Inarigivir Demonstrates a Continuing Positive Dose Response in HBeAg +ve Patients at Week 12





# Inarigivir Targets cccDNA in HBeAg +ve Patients



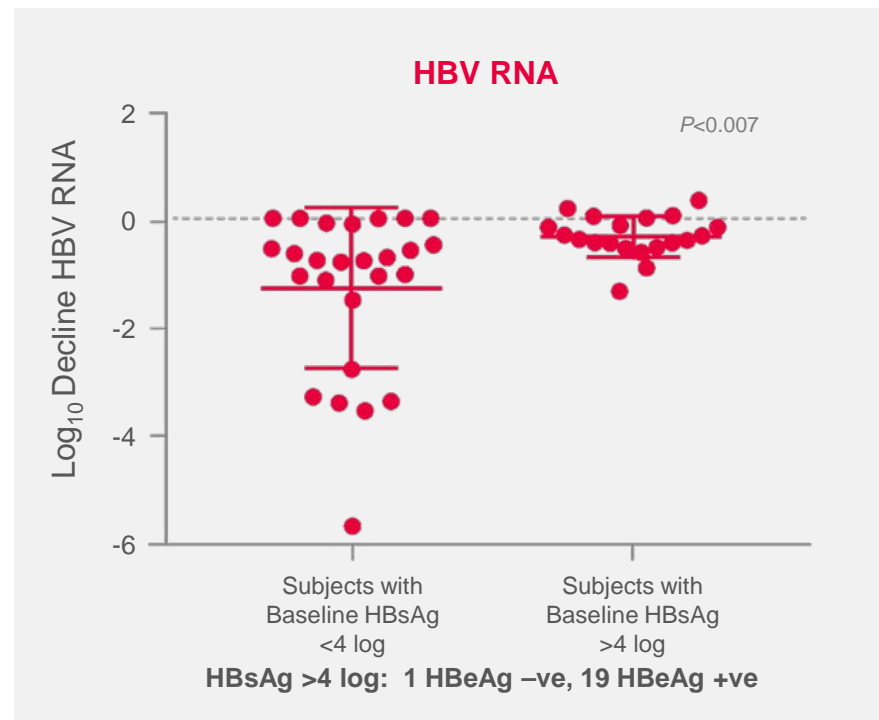
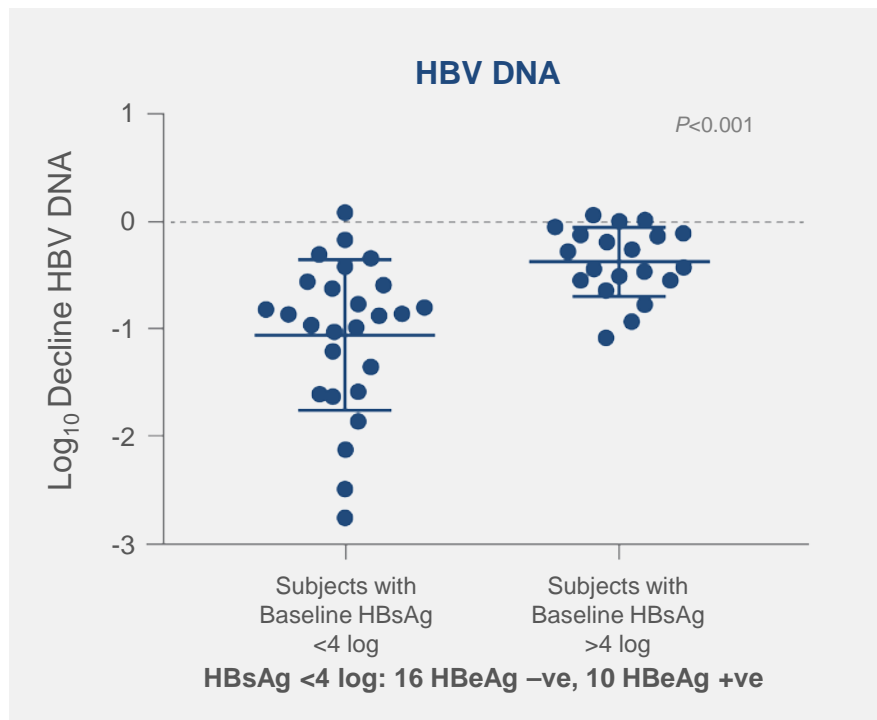
## Summary of ACHIEVE Phase 2 Data on Quantitative HBsAg (Cohorts 1-3)

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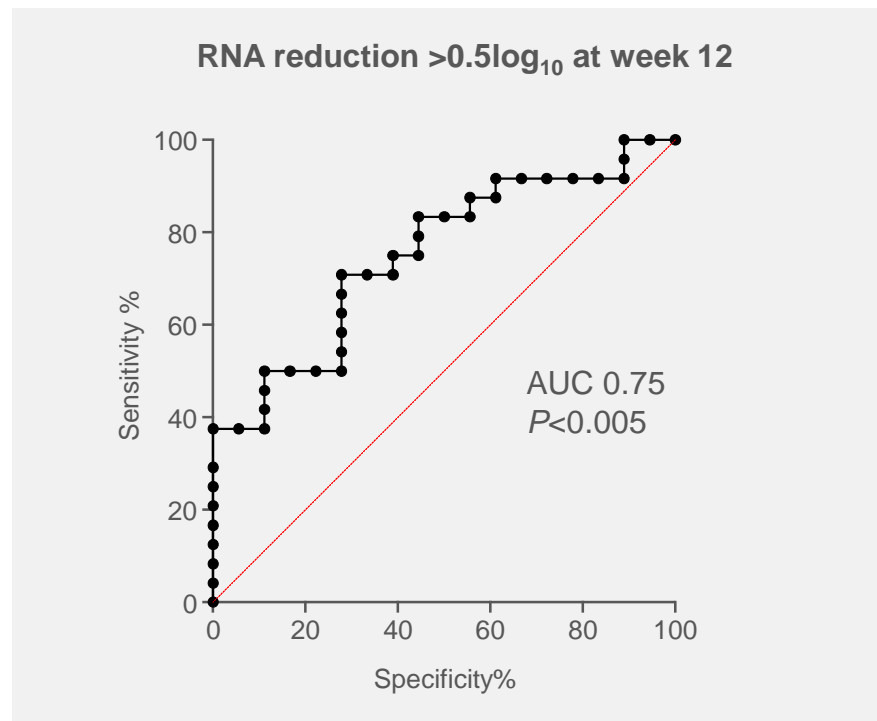
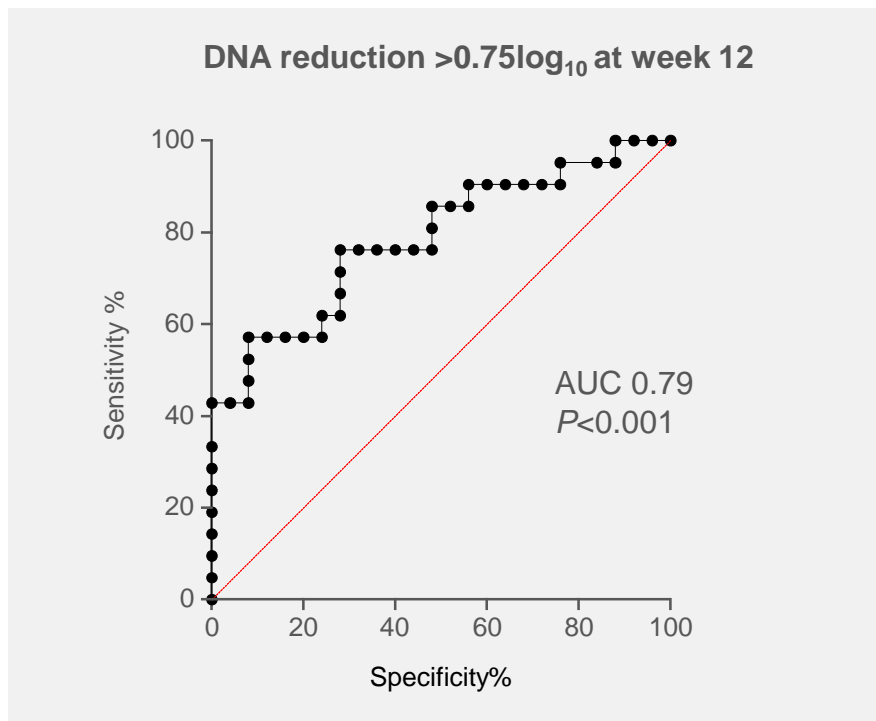
### **13 of 47 (28%) patients experienced 0.5 log<sub>10</sub> reduction on inarigivir alone or at 24 weeks after Viread® switch**

- Mean and median HBsAg reduction 0.8 log<sub>10</sub> (range 0.5 – 1.4 log<sub>10</sub>) in 13 responders
- Effect on HBsAg seen at all doses in both monotherapy and after Viread® switch
- HBsAg response seen in 6 HBeAg -ve and 7 HBeAg +ve patients across all genotypes
- HBsAg response associated with declines in HBV DNA and HBV RNA
- HBsAg reduction can be associated with “immune flares” in HBeAg –ve patients on inarigivir monotherapy

# All 3 ACHIEVE Cohorts: Baseline HBsAg Predicts Response of Both HBV DNA & HBV RNA to Inarigivir



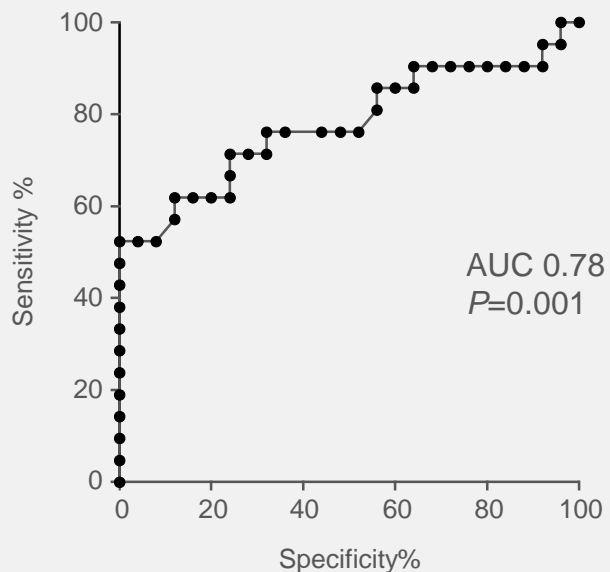
# ACHIEVE Trial: Baseline Serum IP-10 Predictor of HBV DNA & HBV RNA Reduction by Inarigivir



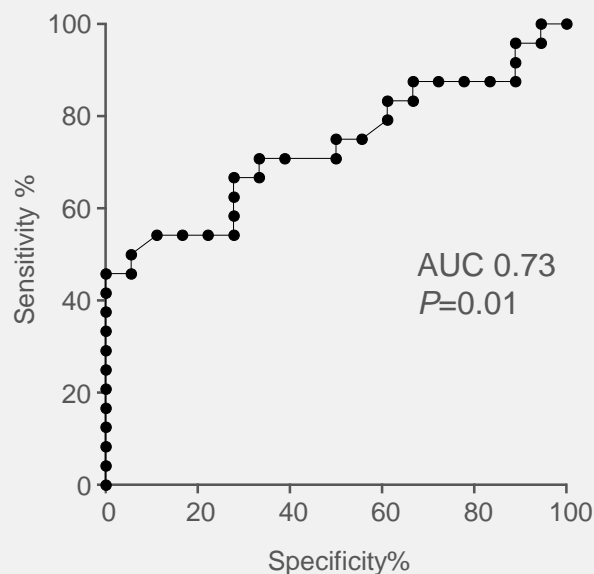
IP-10  $>350\text{ng/L}$ , Sensitivity 60%, Specificity 80%

# ACHIEVE Trial: Reduction in Serum IP-10 at Week 12 Predictor of HBV DNA & HBV RNA Response

DNA reduction  $>0.75\log_{10}$  at week 12



RNA reduction  $>0.5\log_{10}$  at week 12



IP-10 decline  $>110\text{ng/L}$ , Sensitivity 60%, Specificity 88%

# Effect of Oral Inarigivir (25, 50, and 100mg) on HBsAg

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Only oral drug candidate to show meaningful effect on HBsAg in clinical studies

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Effect on HBsAg seen at all doses in both monotherapy and after TDF switch



Overall, 13 of 47 (28%) patients experienced a 0.5  $\log_{10}$  reduction on inarigivir alone or at 24 weeks after TDF switch

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HBsAg response seen in 6 HBeAg -ve and 7 HBeAg +ve patients across all genotypes

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Mean HBsAg reduction 0.8  $\log_{10}$  (range 0.5 – 1.4  $\log_{10}$ ) in 13 responder patients

# Effect of Oral Approved or Investigational HBV Drugs on HBsAg\*

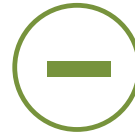


## Inarivir

Week 12 or 24 mean reduction: 0.8 log<sub>10</sub> in responder population

- No other oral drug has shown this level of decline

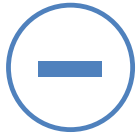
13 of 47 (28%) patients achieved at least a 0.5 log<sub>10</sub> reduction, superior to any other oral HBV drug in development



## TLR-7 (Vesatolimod 4 mg)

Week 12 mean reduction:  
0.05 log<sub>10</sub>

No patient >0.5 log<sub>10</sub> reduction



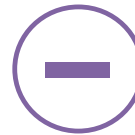
## TDF / TAF

Week 48 mean reduction:

HBeAg +ve 0.3 log<sub>10</sub>

HBeAg -ve 0.017 log<sub>10</sub>

<1% HBsAg loss



## cPAM/CAPSID

No effect reported on HBsAg at week 4

\*Comparisons are not based on head-to-head studies and therefore conclusions should not be drawn about comparative effect.

# ACHIEVE Trial Safety Profile

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- ALT flares >200 IU/ml seen in 6 patients on inarigivir and 3 patients on placebo
- Inarigivir-related flares associated with reduction in HBV DNA and HBsAg occurred within 4 weeks of treatment
- No changes in bilirubin, INR or albumin seen with flares
- Per protocol dose reduction in 6 patients, 1 dose discontinuation for ALT >400 IU/ml
- 1 Grade 3 transient hypertriglyceridemia not sustained on retesting
- 1 hospitalization for knee pain, likely unrelated to inarigivir (cohort 4)
- No flu-like symptoms and no other interferon-like side effects to date



# Highlights of ACHIEVE Trial to Date

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- 28% of patients met pre-defined responder criteria with a mean / median HBsAg decline  $0.8\log_{10}$
- Dose dependent response from 25mg to 100mg inarigivir monotherapy on HBV DNA and HBV RNA
- Response predicted by HBsAg baseline levels and IP-10 in both HBeAg +ve and HBeAg -ve patients
- Evidence of cccDNA targeting
- Strong safety and tolerability profile

# Spring Bank Interpretation of FDA Draft Guidance on HBV Drug Development

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- HBsAg loss (functional cure) remains major goal for Spring Bank with greatest potential for clinical uptake and benefit
- HBV DNA sustained off treatment suppression (suppressive cure) is a strong opportunity for additional benefit in both treatment-naïve and NUC-suppressed patients who do not have HBsAg loss and is most likely achievable with an immune activator such as inarigivir
- Different approaches acceptable for treatment-naïve and NUC-suppressed patients and also HBeAg +ve and -ve patients
- Safety database of >1,000 patients will be required with long term follow up to demonstrate maintenance of response

# Inarigivir Development Plan: 2019 – 2020

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- Differential approach to inarigivir treatment for treatment-naïve and NUC-suppressed HBV patients
- Clinical trial designs responsive to new FDA guidance for HBV with clinical endpoints to include both sustained suppression of HBV DNA and loss of HBsAg
- Initial focus on combination of inarigivir with NUC, but potential for novel combinations in 2019, including triple therapy
- Planned Clinical Trials
  - CATALYST 1 and CATALYST 2 (Q2 2019 initiation)
    - Includes SUPPRESS & SHOCK and STOP & SHOCK cohorts
  - Liver Biopsy MOA study (Q1 2019 initiation)
- Potential for Phase 3 initiation in 2020

# Inarigivir Development Plan Accounts for HBV Heterogeneity



- 70-80% of chronic HBV patients
- Dominant population in US & EU
- Older age group
- Lower viral burden



- 20-30% of chronic HBV patients
- Younger population
- High viral burden

## POTENTIAL MARKET ENTRY

~17 Million infected with HBV in US and EU



~12-15% TREATMENT RATES ~10-12%

NUC-Suppressed



Inarigivir + existing oral anti-viral  
“Suppress & Shock”

OR

Inarigivir monotherapy  
“Stop & Shock”

## POTENTIAL EXPANSION OPPORTUNITY

Naïve or new to treatment



Opportunity to increase treatment rates with improved functional cure



**SB 9225**  
(inarigivir + TDF)

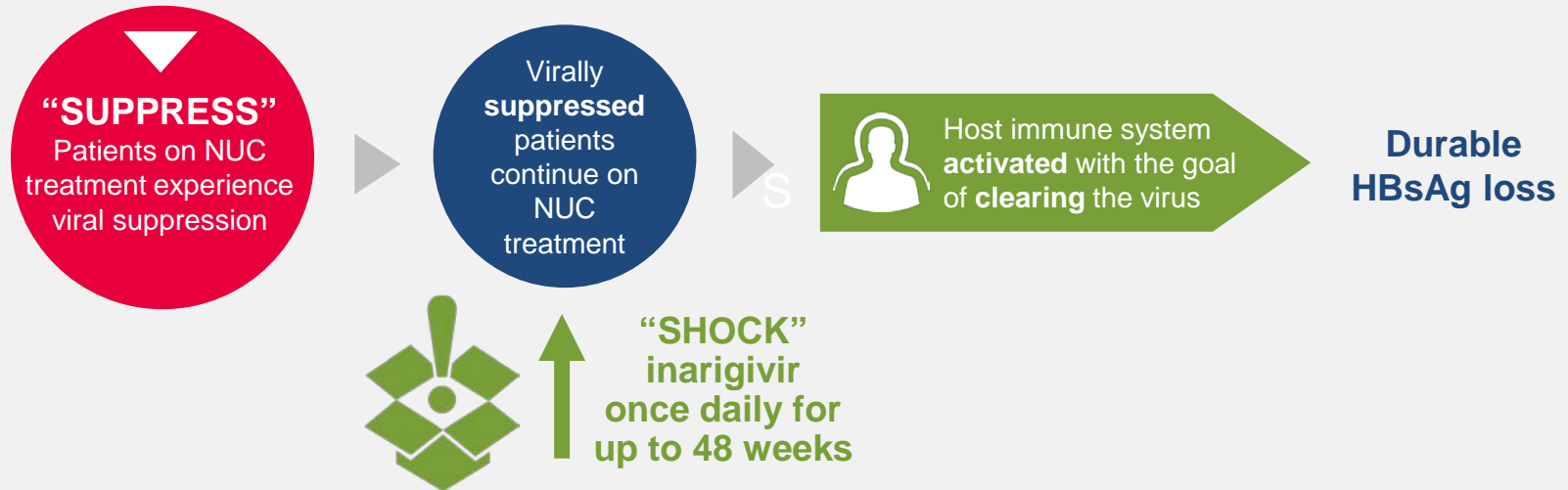


**SB 9225 +  
different MOA**

- Further expand HBV population eligible for functional cure
- Potentially reduce treatment duration for other HBV MOAs

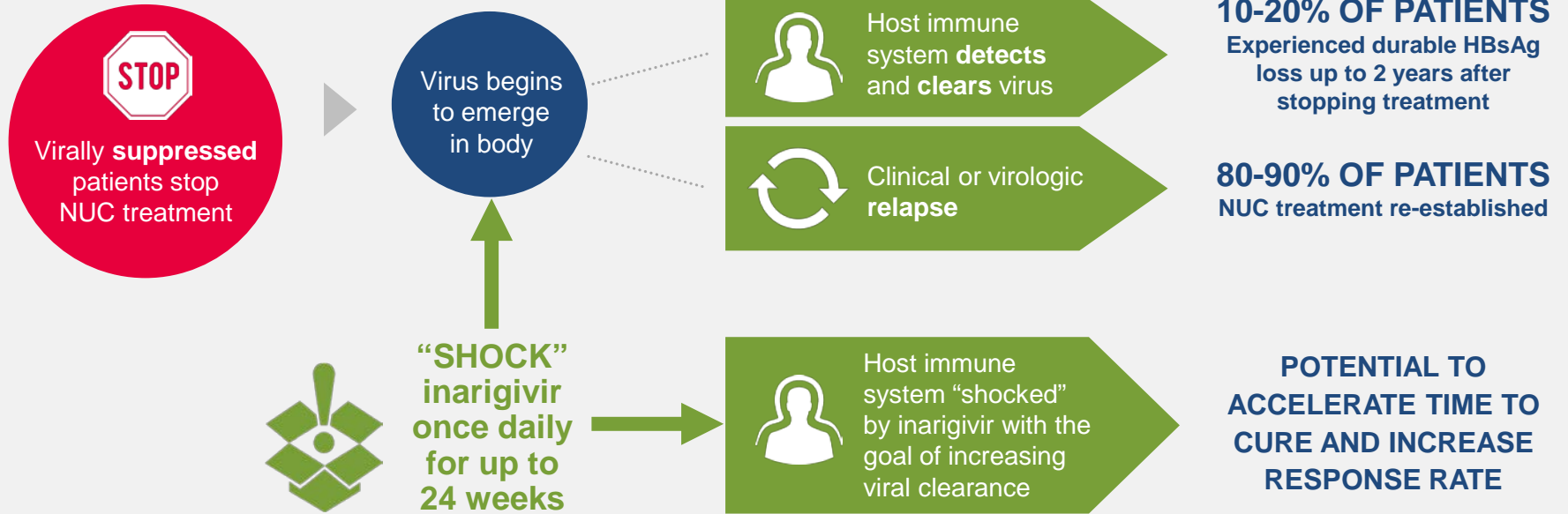
# “Suppress & Shock” Adding Inarigivir in Virally Suppressed Patients

Inarigivir immunomodulation anticipated to be studied in a Phase 2b/3 trials for its ability to promote HBsAg loss in NUC-suppressed patients



# “Stop & Shock” – Inarigivir Monotherapy

Inarigivir monotherapy anticipated to be studied in a Phase 2b/3 trial for its potential to improve current functional cure rate (10-20%) and reduce relapse rates following cessation of SOC therapies



# Planned CATALYST 1 Trial – Key Features and Outcomes

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- 60 HBeAg +ve and -ve, non-cirrhotic, treatment-naïve patients
- 3 cohorts (response-guided)
  - Inarivir 400mg daily monotherapy for 12 weeks, followed by co-administration with Vemlidy® 25mg for 12 weeks (n=20)
  - Inarivir 400mg three times a week for 12 weeks, followed by co-administration with Vemlidy® 25mg for 12 weeks (n=20)
  - Inarivir 400mg daily + Vemlidy® 25mg daily for 24 weeks (n=20)
- Pre-defined responder patients at week 24 may continue to receive additional 24 weeks of treatment
- Potential to see functional cure
- End points
  - HBV DNA, HBV RNA
  - HBeAg loss, HBsAg reduction/loss
- ***When combined with data from Gilead’s trial of inarivir + Vemlidy®, will inform Phase 3 treatment-naïve strategy for SB 9225 (inarivir + tenofovir disoproxil fumarate fixed-dose combination)***

# Planned CATALYST 2 Trial – Key Features and Outcomes

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- 60 HBeAg -ve, non-cirrhotic, NUC-suppressed patients
- COHORT 1
  - “Stop and Shock” – Stop NUC, inarigivir 400mg daily for 24 weeks (n=20)
  - End points: ALT flare, fine needle aspirations (FNA) of liver for intra-hepatic immunology, HBsAg loss
- COHORT 2 (response-guided, up to 48 weeks of treatment)
  - “Suppress and Shock” Design (n=40)
  - Specialized intra-hepatic virology and immunology using liver FNA
  - End points: HBsAg reduction/loss
- ***Will inform potential Phase 3 treatment for NUC-suppressed patients in 2020***



# SB 9225 – Fixed-Dose Combination for Naïve HBV

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- SB 9225 (inarigivir + TDF)
- Planned Phase 3 program in US, EU and ASIA in 2020
- Newly diagnosed chronic HBV patients
- SB 9225 once-daily vs. NUC alone
- Primary endpoints: HBV DNA & durable HBsAg loss

# Novel Combination Opportunities for Inarigivir in 2019

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- siRNA and anti-sense strategy
  - Rational design based on efficacy of inarigivir with low HBsAg level
  - Can utilize pulse dosing strategy
  - HBsAg loss as endpoint
- NUC / CpAM combination
  - Can increase efficacy or reduce therapy duration
  - Pre-clinical data suggests potential additive DAA and immunomodulatory benefits
- Dual immunomodulator
  - Combine innate immune activation of inarigivir with adaptive / T-cell strategies
  - Inarigivir with either TLR8 or PD-1 inhibitors attractive combinations

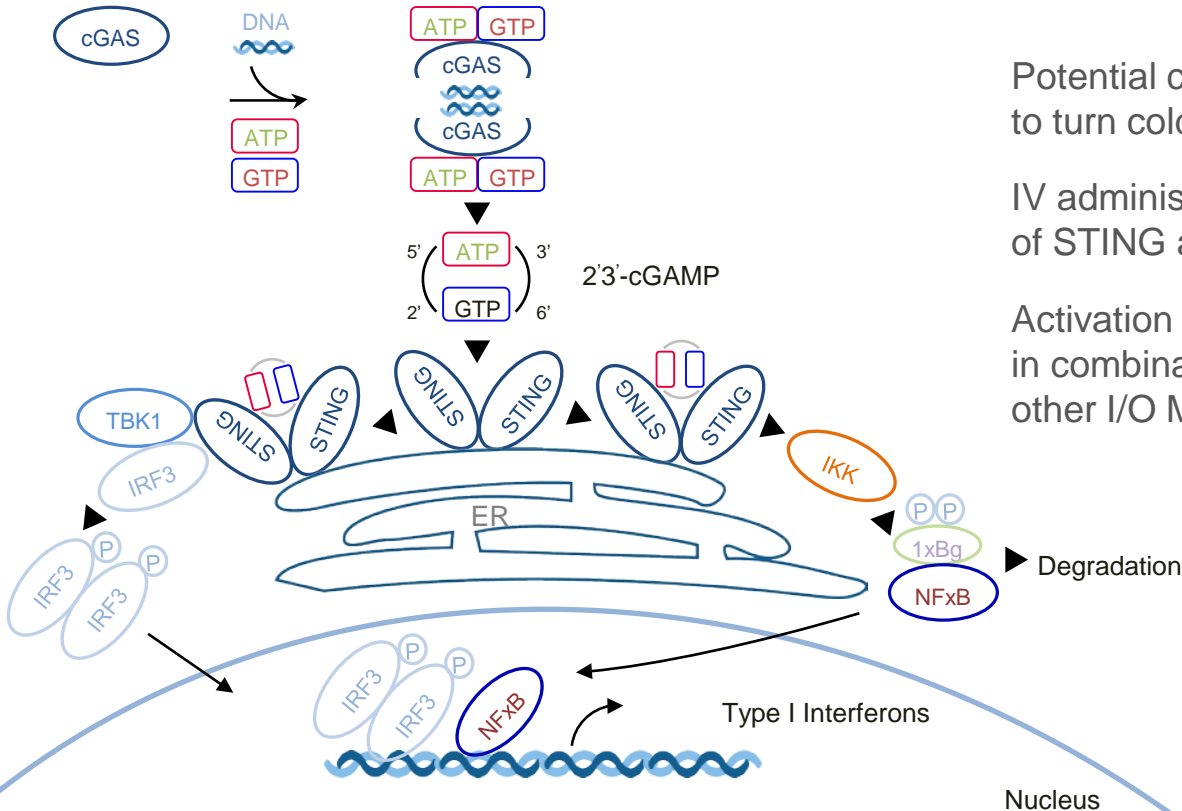
LEAD COMPOUND

**SB 11285**

A NOVEL SYNTHETIC

**STING AGONIST**

# STING Agonist – Potent Activator of Innate Immune Response

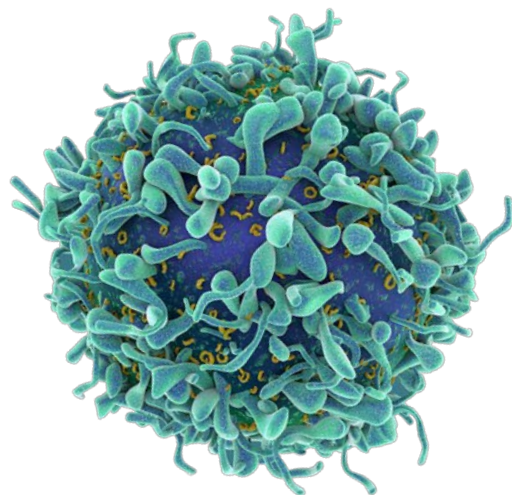


Potential component of I/O strategies to turn cold tumors “hot”

IV administration could be next frontier of STING agonist development

Activation of Type I IFN could enhance efficacy in combination with checkpoint inhibitors or other I/O MOAs

# Spring Bank's Second-Generation STING Agonist Platform



**Differentiated cyclic dinucleotide**

**Potentially first IV STING agonist to enter clinic**

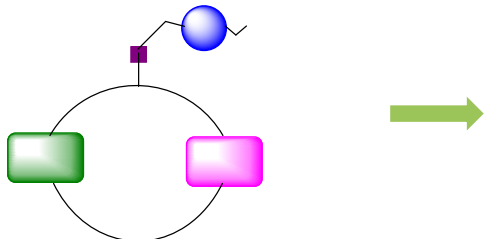
**Observed to turn “cold” tumors  
“hot” in preclinical studies**

**Shown to be highly potent &  
efficacious across multiple preclinical  
cancer models with associated  
abscopal and tumor memory  
responses**

**Distinctive chemistry  
allows for potential  
nanoparticle formulation  
and conjugation with  
ADCs for targeted  
delivery**

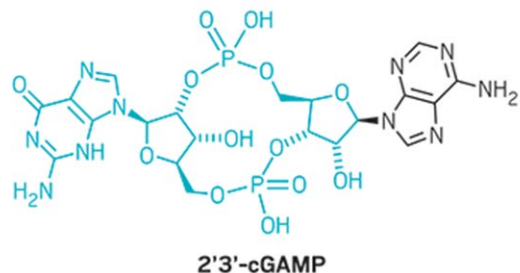
**Unique chemistry allows for “self assembly”  
could enhance immune cell recruitment via IV administration**

# Spring Bank's Second-Generation STING Agonist Platform

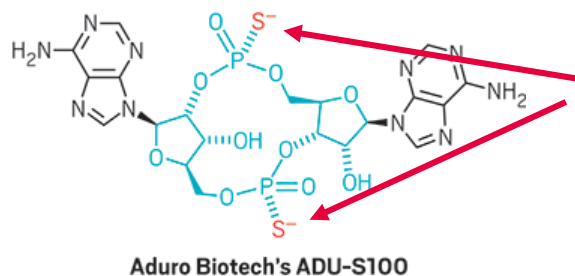
Spring Bank's STING agonists	<ul style="list-style-type: none"><li>• More potent</li><li>• Cell permeable</li><li>• Flexible dosing routes</li></ul>
Demonstrated single agent potent activity across tumor models by I.V., I.P. & I.T.	<ul style="list-style-type: none"><li>• In vitro - enters cells without permeabilizing agents</li><li>• In vivo - induces immune cell infiltration</li><li>• Leads to a "hot" immune phenotype at tumor site</li><li>• Induces immune memory</li></ul>
Synthetic dinucleotide scaffolds 	<ul style="list-style-type: none"><li>• Optimized base and linker compositions</li><li>• Proprietary chemical modifications for differentiated chemistry</li><li>• Unique chemistry allows site specific conjugation for tumor targeting</li><li>• Enables nanoparticle formulation for enhanced immune cell uptake</li></ul>

**Cell permeability critical for uptake of agonist into DCs and immune cells at TME and periphery**  
**Systemic delivery may facilitate trafficking of newly activated CD8+T cells from periphery into the tumor site**

# First Generation STING Agonists – Poor Cellular Permeability

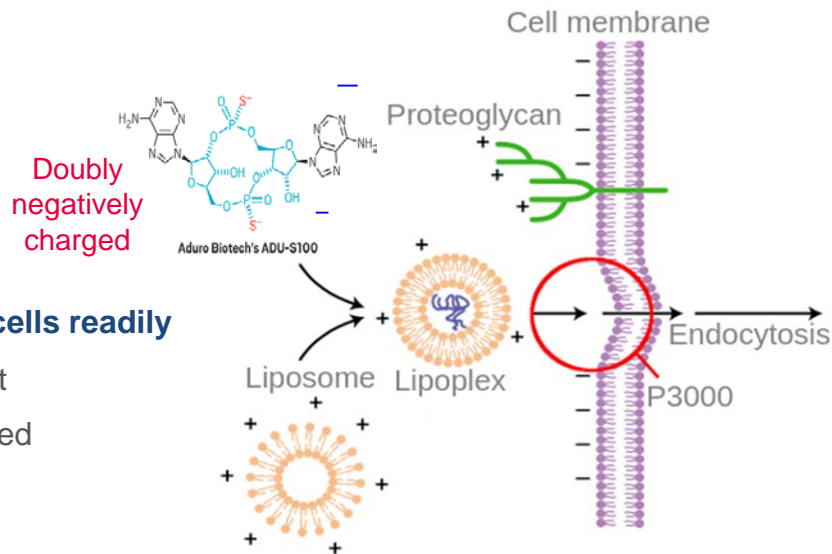


- Natural STING Ligand
- Cyclic di-nucleotide
- Guanine/Adenine
- Lack lipophilicity
- Nuclease labile



- Synthetic STING agonist
- Doubly negatively charged
- Adenine/Adenine
- 2'3' Linkage
- Lack lipophilicity
- IT administration

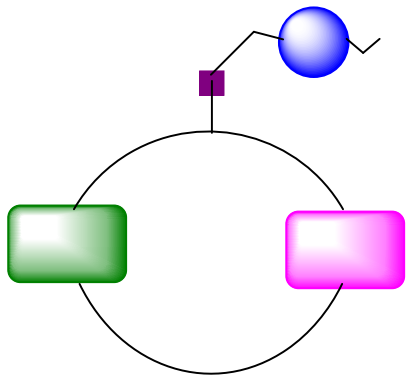
**Does not enter cells readily**



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# SB 11285 – Second-Generation STING Agonist Candidate

## SB 11285 is efficiently engineered



### Structure Imparts Improved Drug-Like Properties

- ✓ Enhanced lipophilicity
- ✓ Greatly enhanced cellular permeability
  - ✓ Demonstrates potency without lipofectamine
- ✓ Safe and efficacious systemic delivery
- ✓ Enables regio-specific conjugation capability

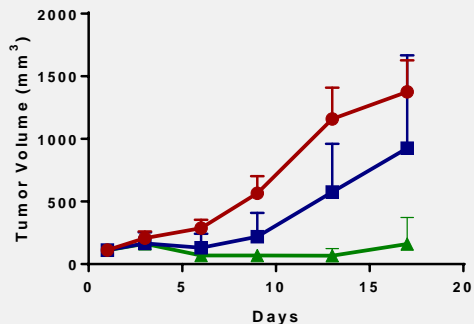
Cell permeability critical for uptake of agonist into DCs and immune cells at TME and periphery.  
Systemic delivery may facilitate trafficking of newly activated CD8+T cells from periphery into the tumor site.



# SB 11285 Significantly Inhibited Tumor Growth in Relevant Oncology Models

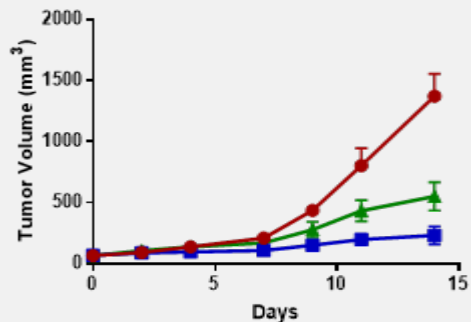
Efficacy in relevant oncology animal models observed with intravenous (IV), intraperitoneal (IP) and intratumoral (IT) delivery

## CT26 Colon Cancer (IV)



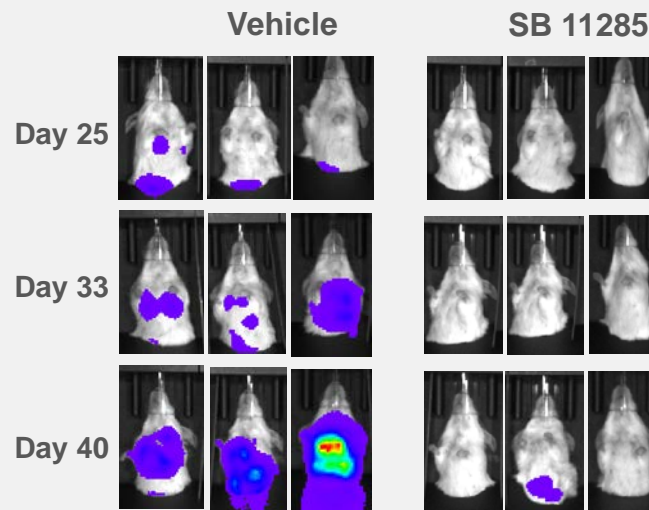
● Vehicle  
■ 1 mg/kg SB 11285  
▲ 3 mg/kg SB 11285

## B16 Melanoma (IV)



● Vehicle(i.v)  
■ SB 11285 (i.v)  
▲ SB 11285 (i.p)

## 4T1 Metastatic Breast Cancer (IP)

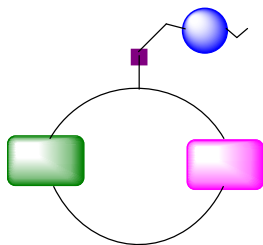


# Highlights of Spring Bank's Second-Generation STING Agonists

## Potential to make immunotherapy available to a much wider patient population

### Spring Bank's Second-Generation STING Agonists:

- Designed using intelligent chemistry to enable efficient cellular delivery
  - Key missing component of current clinical programs
  - Possibility to treat tumor types that are not accessible by I.T.
- 
- I.V. and I.T. administered SB 11285 lead to tumor regression in multiple preclinical models
    - Melanoma, Breast, Colorectal, Glioblastoma, AML



### Turns cold tumors hot

- Induces a local concentration of cytokines for activation of Antigen Presenting Cells
- Facilitates trafficking of increased numbers of CD8 CTL cells to tumor site
- Reduces population of Treg cells at tumor site

### Distinctive chemistry

- Better tolerated - reduced induction of proinflammatory cytokines
- Enable systemic delivery to facilitate trafficking of activated CD8+T cells from periphery into tumor site
- Enables nanoparticle formulation
- Facilitate conjugation with antibodies and targeting agents

# SB 11285 Development Plan

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- FDA IND submission Q2 2019
- Phase 1/2 IV SB 11285 studies as monotherapy with early transition to combination therapy in locally invasive and metastatic solid tumors
  - Includes patients with PD-1/PDL-1 failure
- IT SB 11285 study in Hepatocellular Carcinoma (HCC)/solid tumors

# The Path Forward for Spring Bank

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## Potential for Multiple Catalysts

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### Upcoming 2019 Milestones

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#### 1H 2019

Initiate liver biopsy study

Report 12 and 24 week dosing from the final cohort (200mg) of the ACHIEVE Phase 2 trial

Initiate global inarigivir CATALYST 1 and 2 trials (including SUPPRESS/STOP & SHOCK cohorts)

Submit IND for SB 11285

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#### 2H 2019

Report initial data from first inarigivir + NUC combination cohorts (GILD data)

Initiate Phase 1/2 clinical trial(s) with SB 11285

Report initial data from liver biopsy study

Initiate Phase 2 trial with inarigivir and novel MOA (triple combination)

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# Spring Bank Pharmaceuticals, Inc.

A Focus on Simplicity, Safety, and Selectivity

## Unique in-house platform

Focused on small molecule  
nucleotide hybrid  
immunomodulatory molecules

## World class expertise in HBV

Deep clinical collaboration  
in HBV with Gilead

Orally administered inarigivir  
has clinically shown potent  
antiviral activity in HBV

**Favorable safety profile to date  
with no related SAEs observed**

SB 9225  
(inarigivir + TDF)

**Simplifies combination therapy**

Next-generation  
STING agonist program:

**Lead candidate SB 11285  
anticipated to enter clinic in  
multiple cancers in 2019**

Anticipate **multiple data  
points for potential  
valuation enhancements** in  
the next 12–18 months