

Corporate Presentation



September 2020



NASDAQ: SWTX

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SpringWorks Therapeutics is a Clinical-Stage Targeted Oncology Company





REN'S (de NF1 patient

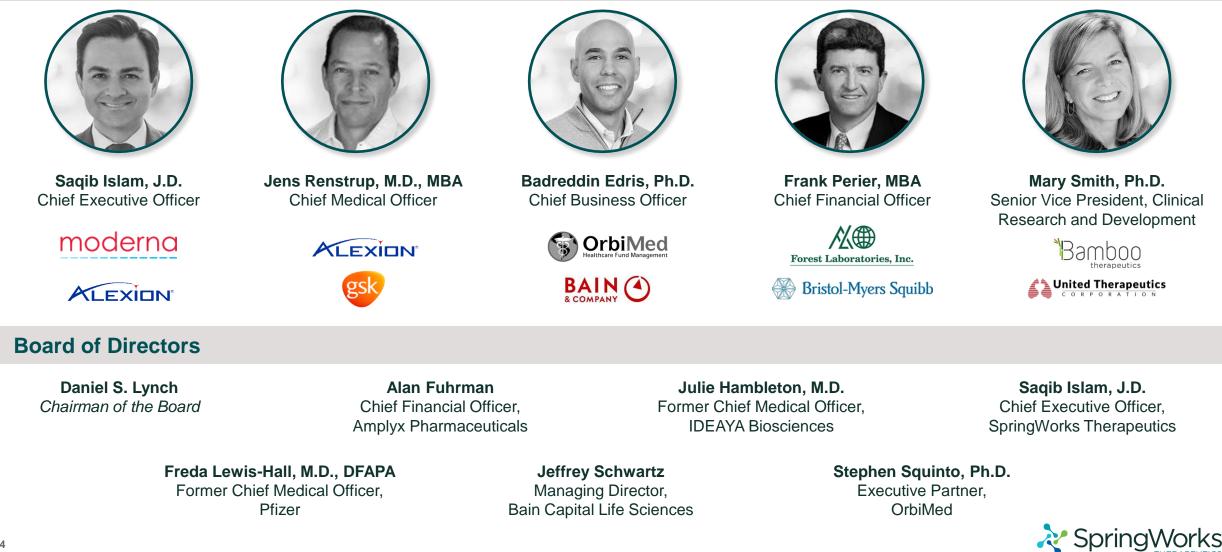
- Two late-stage rare oncology programs in potentially registrational trials, each supported by strong clinical data
- Five programs addressing large opportunities in genetically defined cancers in collaboration with industry leaders
- Leveraging strong development capabilities and shared-value partnerships to enhance portfolio value and become a partner of choice
- Led by an experienced management team with deep expertise in drug development and commercialization
- Well-capitalized to execute important value-driving milestones across both standalone and partnered programs

Our ambition is to ignite the power of promising science to unleash new possibilities for patients



Demonstrated Leadership Advancing Transformative Therapies

Leadership Team



Pipeline Provides Multiple Opportunities for Value Creation Across Three Distinct Oncology Segments



Late-Stage Rare Oncology

Two registrational trials ongoing, each supported by strong Phase 2 data and with best-in-class potential



Nirogacestat

Desmoid Tumors Phase 3 topline data: 2Q21-3Q21



Mirdametinib NF1-PN Phase 2b trial update: 4Q20-1Q21

2 BCMA Combinations in Multiple Myeloma

Advancing nirogacestat as a cornerstone of BCMA combination therapy across modalities

Nirogacestat + BLENREP BCMA ADC Phase 1b trial initiated: 1H20



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**Nirogacestat + ALLO-715** BCMA Allogeneic CAR T *Phase 1 trial IND filing: 2H20* 



Nirogacestat + Teclistamab BCMA-CD3 Bispecific Phase 1 trial initiation: Early 2021



### Biomarker-Defined Metastatic Solid Tumors

Precision oncology approach to highly prevalent cancers with near-term clinical POC readouts



Mirdametinib + Lifirafenib RAS/RAF Mutant Solid Tumors Phase 1b/2 initial clinical data: 2021

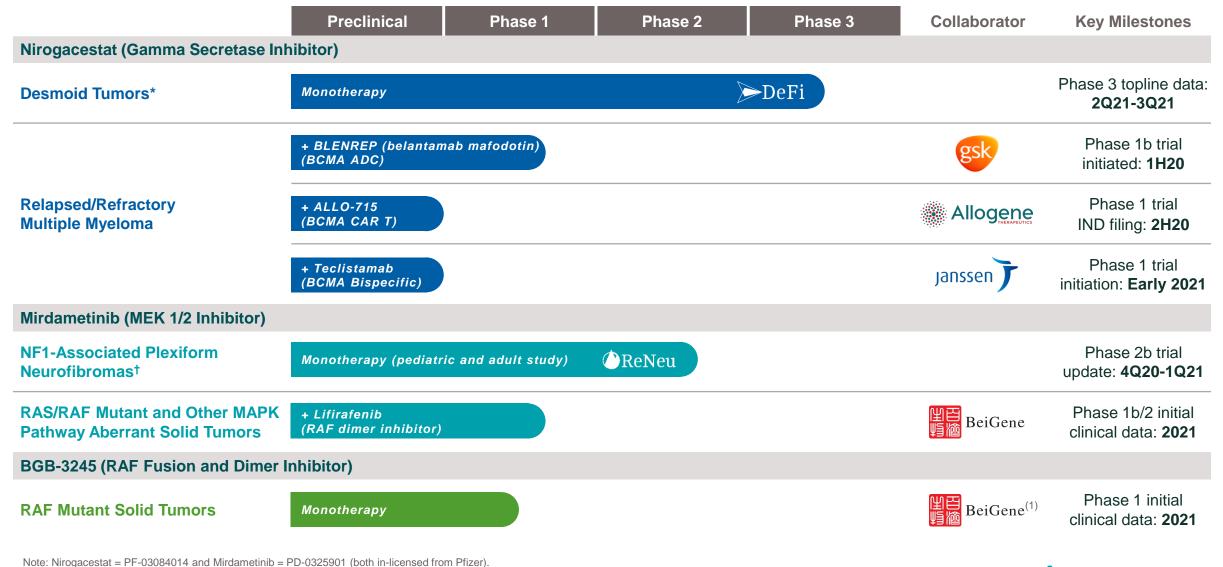
BGB-3245



RAF Mutant Solid Tumors Phase 1 initial clinical data: 2021



# Advancing Diversified Pipeline of Targeted Oncology Programs as Standalone and Combination Therapies



SpringWoi

\* Received Orphan Drug, Fast Track and Breakthrough Therapy Designations.
 † Received Orphan Drug and Fast Track Designations.

(1) Being developed by MapKure, LLC, jointly owned by SpringWorks and BeiGene.

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# Nirogacestat





# Nirogacestat: A New Paradigm for Patients With Desmoid Tumors

- Desmoid tumors are highly morbid soft tissue tumors with an estimated 5,500 to 7,000 patients actively receiving treatment in the US per year
- Nirogacestat is an oral, selective gamma secretase inhibitor with over 9 years of clinical experience (over 200 subjects exposed)
- Clinical activity observed in Phase 1 and Phase 2 trials in desmoid tumors independent of prior lines of therapy and underlying mutation
- Generally well tolerated compound suitable for long term dosing
- Received Fast Track and Breakthrough Therapy Designations from FDA and Orphan Drug Designation from both FDA and European Commission
- Newly granted US patent provides protection to 2039<sup>(1)</sup>

### Phase 3 DeFi trial fully enrolled and topline data anticipated in 2Q-3Q21



# Desmoid Tumors are Highly Morbid Soft Tissue Tumors that are Poorly Responsive to Surgical Interventions and Off-Label Therapies

### Painful, disfiguring, and disabling condition

- French Desmoid Advocacy Group Survey (n=102):
  - Presence of pain in 63% of patients
  - Permanent pain in 38% of patients with pain
- Memorial Sloan Kettering/Quintiles PRO tool development patient interviews (n=31):
  - Disfigurement in 81% of patients
  - Restricted range of motion in 68% of patients

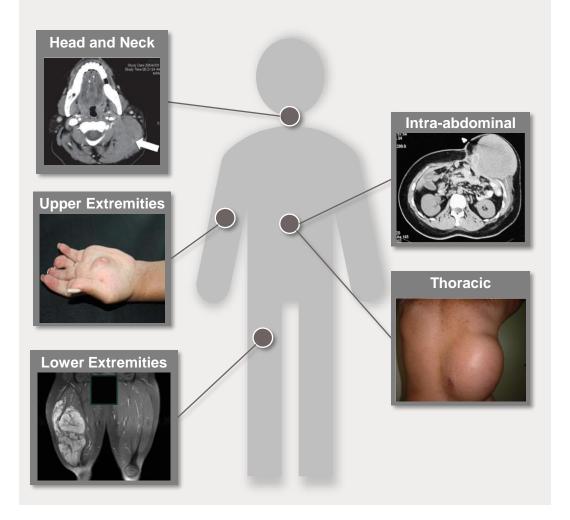
### No currently approved therapies

- Recurrence post-surgical resection of up to 70%
- Off-label systemic therapies (TKIs, chemotherapeutics) associated with a challenging AE profile and inconsistent efficacy
- Physicians often adopt a watchful waiting approach given post-surgical recurrence rates and inconsistent benefit from available off-label systemic therapies

### ~1,000-1,500 newly incident patients per year in US

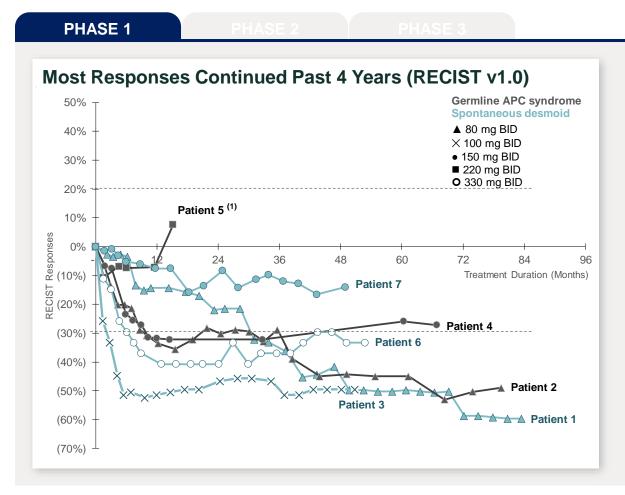
- Young patient population, with tumors more commonly diagnosed in the third and fourth decades of life
- Estimated 5,500-7,000 patients actively receiving treatment in the US in any given year

#### **CLINICAL PRESENTATION OF DESMOID TUMORS**





## Initial Clinical Activity of Nirogacestat Observed in Desmoid Tumors



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- Median PFS (mPFS): Not reached by publication date due to lack of tumor progression events
  - Disease Control Rate (DCR): 100%
  - Objective Response Rate (ORR): 71.4%
    (5/7 evaluable desmoid patients)
- Median Duration of Treatment was 49.5 months at publication
  - Of the 7 evaluable desmoid patients on study, none discontinued due to AEs <sup>(2)</sup>

### All evaluable desmoid tumor patients in the study responded to nirogacestat treatment <sup>(1)</sup>

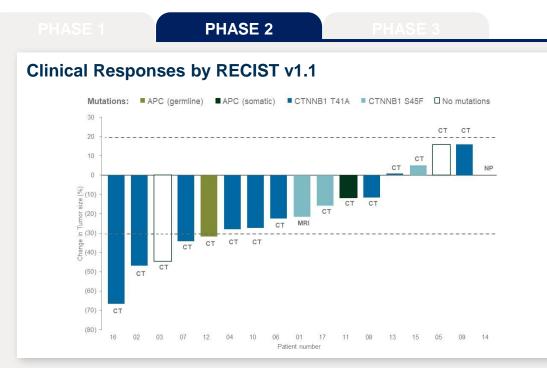
Note: Disease control rate is percentage of patients experiencing objective response or stable disease on therapy as measured by RECIST v1.0. Source: Villalobos, *Annals of Surgical Oncology*, 2018; Messersmith, *Clinical Cancer Research*, 2015.

(1) Per investigator "the only patient with clinical progression received PF-03084014 (220 mg BID) for 15.2 months and exhibited significant clinical improvement on therapy."

(2) Across the entire 64 patient Ph1 there were four discontinuations due to treatment-related AEs with a majority occurring during cycle 1.

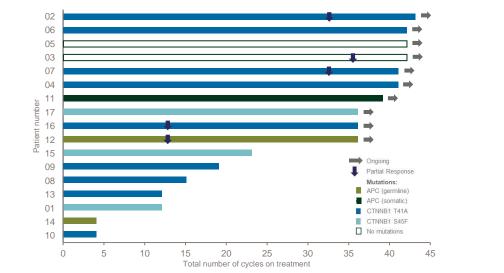


# Encouraging Clinical Activity and Tolerability Observed in NCI-Conducted Phase 2 Trial in a Refractory and Heavily Pre-Treated Patient Population



- mPFS: Not reached by publication date due to lack of tumor progression events
  - At time of enrollment, all patients had progressing tumors
  - Patients failed a median of 4 prior lines (1-9) of systemic therapy <sup>(1)</sup>
  - ORR of 29.4% (5/17) with no Progressive Disease





- 59% of patients remained on treatment >2 years and 71% of patients stayed on drug for >1 year
  - Median Duration of Treatment was >25 months at publication, with 5 patients continuing as of January 2020 (treatment duration of 55 to 65 months in these patients)
  - Well tolerated; only 1 discontinuation due to AE (2)

### Shown to arrest tumor growth in a heavily pre-treated patient population (i.e., TKIs, chemo, surgery)

Note: Per RECIST 16/17 patients were evaluable. One treatment cycle = 150 mg BID continuously for 21 days. Patient #1 had a missing baseline measurement (but had MRI). Patient #14 was not evaluable per protocol, withdrew from study after cycle 1 due to travel requirements.

Source: Kummar et al., Journal of Clinical Oncology, 2017.

11 (1) 71% had received chemotherapy, 65% NSAIDs, and 59% TKIs; 4/5 partial responses had previously failed imatinib or sorafenib.

(2) Discontinuation due to grade 2 urticaria not responsive to dose reduction. No grade 4 events, all grade 3 events related to hypophosphatemia, a known class effect easily reversible with oral supplements.



### Double-Blind, Placebo-Controlled Phase 3 DeFi Trial Is Fully Enrolled

#### PHASE 1

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#### PHASE 3

### **Trial Summary**

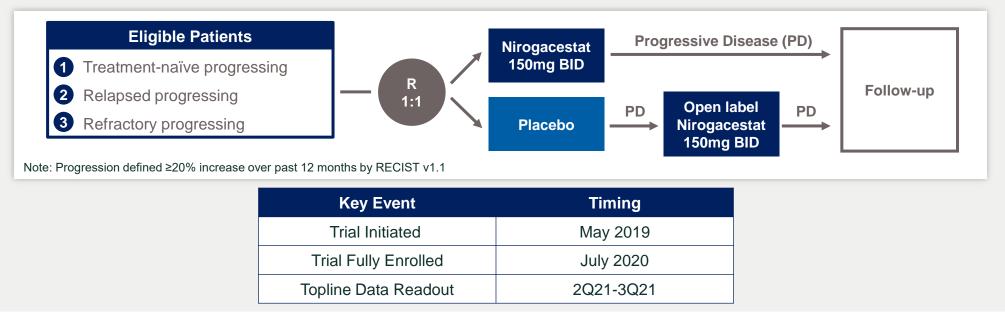
- ~115 patients at ~50 sites in North America and Europe
- Open label extension for patients progressing on placebo
- 90% powered to show ~12 month PFS difference between nirogacestat and placebo<sup>(1)</sup>

### **Summary of Endpoints**

Primary Endpoint: Progression-free survival



- ~50% of placebo patients expected to progress by 8 months <sup>(2)</sup>
- Study designed to enable a potential interim analysis
- Secondary: Safety and tolerability, ORR, duration of response, volumetric tumor change (MRI), patient-reported outcomes (PRO)



(1) A total of 51 events will provide 90% power and a 1-sided type 1 error rate of 0.025 (1-side hypothesis) to detect a difference between nirogacestat and placebo, assuming the median PFS



in the nirogacestat group is 20 months and 8 months in the placebo group. (2) Assumption based on placebo arm from sorafenib Ph3 trial presented at ASCO 2018. Nirogacestat has the potential to be a cornerstone of BCMA combination therapy Nirogacestat in Multiple Myeloma: A Potentially Best-in-Class Potentiator of BCMA Therapies

- Significant unmet need in multiple myeloma, with ~27,000 new patients in the relapsed/refractory setting in the US each year
- Gamma secretase directly cleaves membrane-bound BCMA, a clinically validated multiple myeloma target across modalities (ADC, CAR T, bispecific)
- Strong preclinical results and emerging clinical data support combining gamma secretase inhibitors with BCMA therapies
- Pursuing broad collaboration strategy with industry-leading BCMA developers to advance potentially best-in-class combinations using nirogacestat

Newly granted US patent provides protection to 2039<sup>(1)</sup>

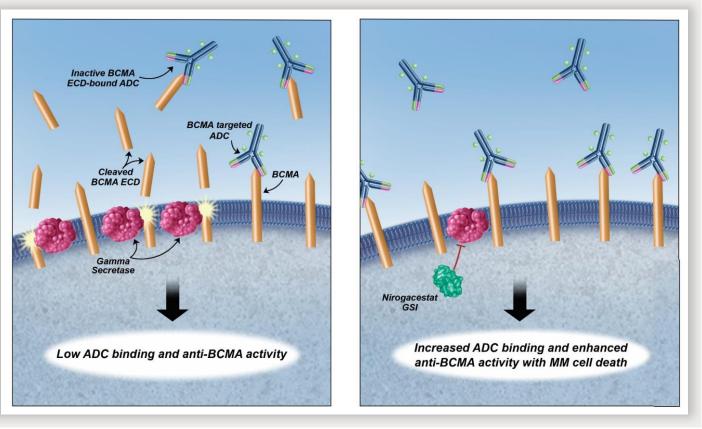


(1) US composition of matter patent covering polymorphic form of nirogacestat granted March 17, 2020

# Gamma Secretase Inhibition is Emerging as a Clinically Validated Mechanism to Potentiate BCMA Therapies

- BCMA has emerged as a promising target in multiple myeloma across modalities
- Gamma secretase directly cleaves membrane-bound BCMA
  - GSI can reduce shedding of BCMA to improve activity of BCMA-directed therapies
  - GSI can limit soluble BCMA levels, which act as a 'sink' for BCMA-directed therapies
  - GSI can upregulate surface BCMA expression, including in patients that have failed prior BCMAdirected therapies
- Preclinical and clinical data support combination approach

#### **MECHANISM OF ACTION OF NIROGACESTAT + BCMA THERAPY** (ADC SHOWN)



Source: Cowan et al., Abstract #204 "Efficacy and Safety of Fully Human Bcma CAR T Cells in Combination with a Gamma Secretase Inhibitor to Increase Bcma Surface Expression in Patients with Relapsed or Refractory Multiple Myeloma", ASH 2019; Eastman et al., Abstract #4401 "Synergistic Activity of Belantamab Mafodotin (anti-BCMA immuno-conjugate) with Nirogacestat (PF-03084014, gamma-secretase inhibitor) in Bcma-Expressing Cancer Cell Lines", ASH 2019; Green et al., Abstract #1856 "Response to Bcma CAR-T Cells Correlates with Pretreatment Target Antigen Density and Is Improved By Small Molecule Inhibition of Gamma Secretase", ASH 2019; Laurent et al., *Nat. Comm.*, 2015; Pont et al., *Blood*, 2019.



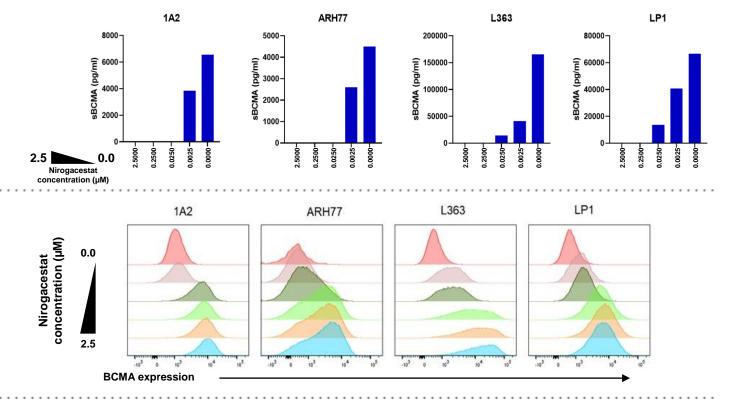
# Nirogacestat Inhibited BCMA Shedding, Upregulated BCMA Expression, and Enhanced Activity of BCMA ADC Up to ~3,000-Fold

Nirogacestat inhibited cleavage of membrane-bound BCMA and shedding of soluble BCMA ECD

Nirogacestat rapidly and significantly upregulated BCMA cell surface expression levels

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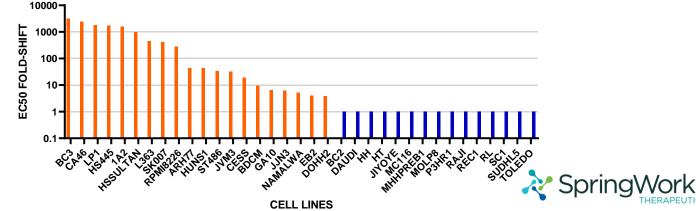
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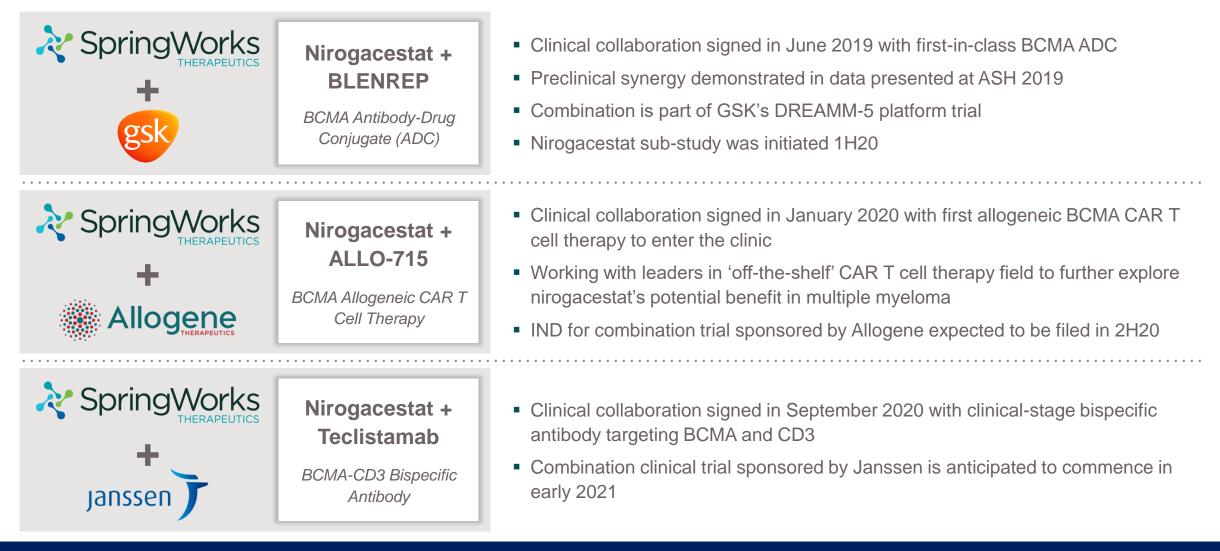
Nirogacestat enhanced multiple myeloma cell killing activity of BCMA ADC by up to ~3,000-fold

Note: ECD = extracellular domain; ADC = antibody-drug conjugate; MM = multiple myeloma. Source: Eastman et al., Abstract #4401 "Synergistic Activity of Belantamab Mafodotin (anti-BCMA

15 immuno-conjugate) with Nirogacestat (PF-03084014, gamma-secretase inhibitor) in BCMA-Expressing Cancer Cell Lines", ASH 2019.



# Three BCMA Collaborations Signed To Date with GSK, Allogene and Janssen



Nirogacestat has the potential to become a cornerstone of BCMA combinations for the treatment of multiple myeloma



# **Mirdametinib**





# Mirdametinib: A Potentially Best-in-Class Therapy for Patients with NF1-PN

- ~100,000 patients in the US with NF1 30-50% lifetime risk of developing disfiguring peripheral nerve sheath tumors (plexiform neurofibromas)
- Mirdametinib is an oral, small molecule MEK1/2 inhibitor with clinical validation and over 200 subjects exposed to date
- Encouraging results from Phase 2 investigator-initiated trial in adolescents and adults with NF1-associated plexiform neurofibromas (NF1-PN)
- Granted Orphan Drug Designation by FDA and European Commission in NF1 and FDA Fast Track Designation in NF1-PN
- Compound potency and optimized dose/schedule may allow for a potentially differentiated profile versus other MEK inhibitors

Phase 2b ReNeu trial currently enrolling and update expected 4Q20-1Q21



# Plexiform Neurofibromas Are Painful, Disfiguring Tumors That Grow Along Peripheral Nerve Sheaths

# NF1-PN are a painful and devastating condition with significant morbidities

- Mutations in NF1 gene cause loss of neurofibromin, a key repressor of the MAPK pathway, leading to uncontrolled tumor growth across the body
- NF1-PN are tumors that grow along the nerves and can lead to extreme pain and disfigurement
- NF1 can have significant co-morbidities, including neurocognitive deficits and developmental delays
- Infiltrative growth pattern along nerves make successful surgical resection challenging and surgery can lead to permanent nerve damage and disfigurement

### ~100,000 NF1 patients in the United States

- ~30-50% lifetime risk of developing plexiform neurofibromas in NF1 population
- NF1-PN can malignantly transform into MPNST, a diagnosis that has a 12-month survival rate of under 50%

### Lifetime Risk Cutaneous Baseline Increased Severity - Additional Mutational Burden >90% Disease Plexiform Neurofibromas ~30-50% Disease Progression **Malignant Peripheral Nerve Sheath Tumors** (MPNST) 8-15% Malignant Transformation

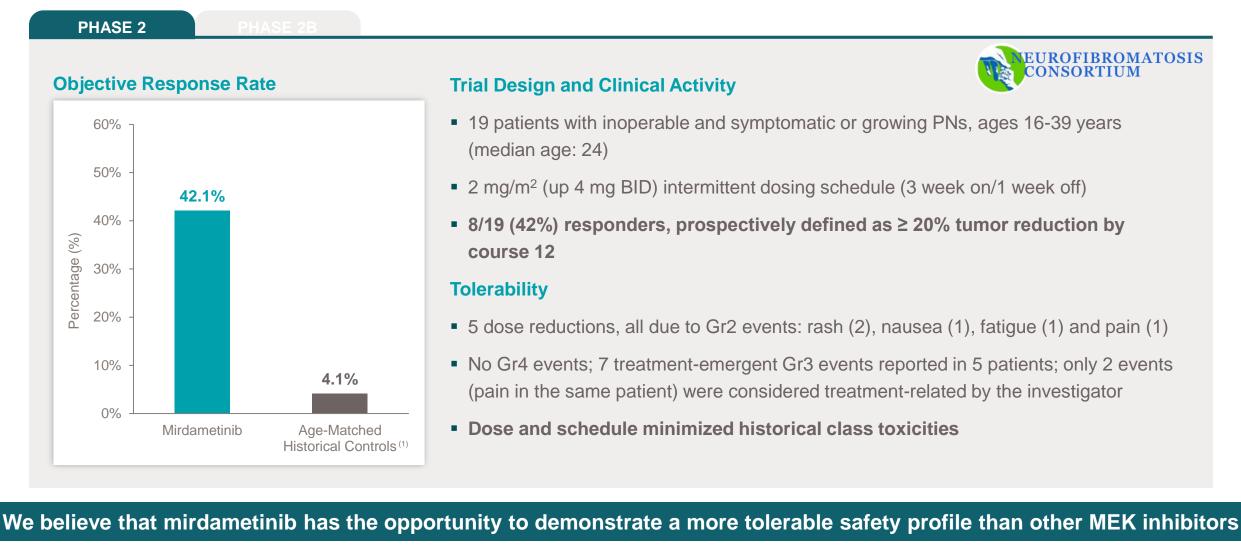
**CLINICAL PRESENTATION OF NEUROFIBROMAS** 

### MEK inhibitors are emerging as a validated class for the treatment of NF1-PN



Source: Kim et al., Sarcoma, 2017.

# Mirdametinib: Encouraging Phase 2 Results with Potentially Differentiated Safety Profile vs. Other MEK Inhibitors



Source: Weiss, Children's Tumor Foundation 2017 Annual Meeting Presentation.

(1) In Nguyen et al. 2012, 95 NF1-PN patients had the volumes of single PN lesions monitored over time. Of these patients, 69 were greater than 16 years of age at the time of the initial assessment (range:

20 16.1 to 62.6 years), representing a total of 146 NF1-PN lesions. The duration of follow-up between scans ranged from 1.05 to 4.10 years (average: 2.40 years). Of the 146 lesions monitored, 6 were documented to have had a volumetric decrease of ≥20% (4.1%).



## Potentially Registrational Pediatric and Adult Phase 2b ReNeu Trial Has Commenced

PHASE 2

PHASE 2B

### **Trial Summary**

- Enrolling ~100 patients in 2 strata (pediatrics, adults) across ~50 sites in North America
- 2 mg/m<sup>2</sup> BID dosing with intermittent course (4-week cycles of 3 weeks-on, 1 week-off) for up to 24 cycles
  - Maximum dose of 4 mg BID

### **Summary of Endpoints**



- Primary Endpoint: Objective response rate (ORR)
- Secondary Endpoints: Safety and tolerability, duration of response, quality of life (QoL) assessments



| Key Event       | Timing       |
|-----------------|--------------|
| Trial Initiated | October 2019 |
| Trial Update    | 4Q20-1Q21    |

Treatment duration and trial populations designed to evaluate full potential of mirdametinib in NF1-PN



# Mirdametinib in *RAS/RAF* Mutant Solid Tumors: Advancing Potentially Best-in-Class MEK/RAF Dimer Inhibitor Combination in Collaboration with BeiGene



### Mirdametinib + Lifirafenib

MEKi + RAF dimer inhibitor

RAS/RAF Mutant and Other MAPK Pathway Aberrant Solid Tumors  Significant area of unmet need in cancer patients with RAS/RAF mutations and other MAPK pathway aberrations (approximately 25% of solid tumors)

Lifirafenib possesses potentially best-in-class profile among RAF dimer inhibitors

 Combination synergy demonstrated across preclinical models harboring a variety of KRAS mutations

Phase 1b/2 trial initiated in Australia in 2Q19 and US IND opened in 3Q19

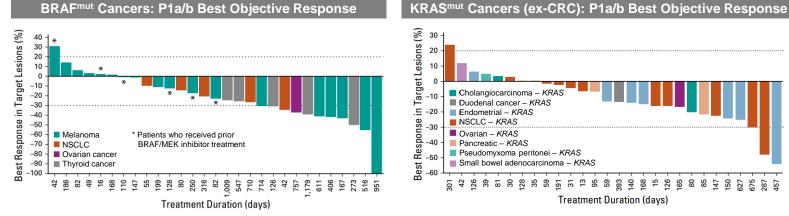
Focused investment until significant clinical validation achieved

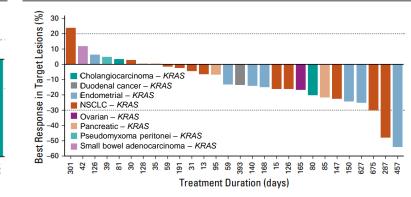
On track to complete dose-escalation portion of trial by end of 2020 with initial clinical data expected in 2021



# Mirdametinib + Lifirafenib: Encouraging Monotherapy Clinical Activity and Strong **Preclinical Combination Data**

Lifirafenib monotherapy clinical activity in BRAF and **KRAS** mutant cancers

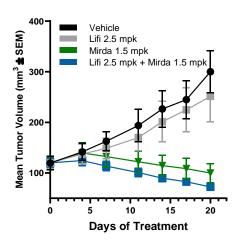


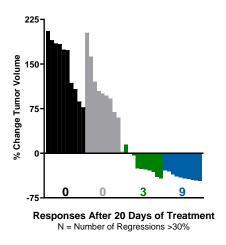


Preclinical synergy demonstrated with mirdametinib and lifirafenib in vitro across RAS mutations and in vivo at clinically relevant doses

| NSCLC<br>Cell Line | RAS<br>Mutation | Max EC <sub>50</sub> shift with mirdametinib combo |
|--------------------|-----------------|----------------------------------------------------|
| Calu-6             | K-RAS Q61K      | 59 fold ↓                                          |
| SW1573             | K-RAS G12C      | 97 fold ↓                                          |
| NCI-H23            | K-RAS G12C      | 22 fold $\downarrow$                               |
| NCI-H2122          | K-RAS G12C      | 21 fold ↓                                          |
| NCI-H358           | K-RAS G12C      | 18 fold ↓                                          |
| Calu-1             | K-RAS G12C      | No shift                                           |
| Sk-Lu-1            | K-RAS G12D      | 32 fold ↓                                          |
| A549               | K-RAS G12S      | 11 fold ↓                                          |
| NCI-H1299          | N-RAS Q61K      | 16 fold ↓                                          |

Mirdametinib + Lifirafenib In Vivo Activity (NCI-H358)







1

2





# BGB-3245: Potentially Differentiated Program for Currently Unaddressed *BRAF* Driver Mutations and Fusions



**BGB-3245** 

Mutant BRAF monomer, dimer, and fusion inhibitor

**BRAF** Mutant Solid Tumors

- BGB-3245 is a novel BRAF inhibitor being advanced in collaboration with BeiGene through MapKure, a jointly owned entity
- BGB-3245 could address BRAF alterations that currently lack targeted therapeutic options (non-V600 BRAF mutations and fusions)
- BGB-3245 has shown preclinical activity against resistance mutations to first generation BRAF V600 inhibitors
- Phase 1 trial initiated in 1Q20 and dose escalation ongoing in Australia and the US
- Industry-leading Scientific Advisory Board chaired by Dr. Neal Rosen of Memorial Sloan Kettering Cancer Center

Phase 1 dose escalation and expansion trial in progress with initial clinical data expected in 2021

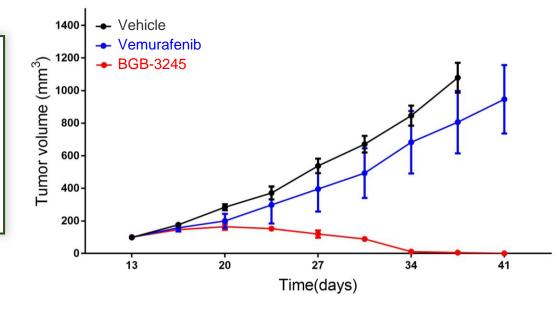


# BGB-3245 Has Demonstrated Encouraging Preclinical Activity

**BRAF** Fusion PDX: In Vivo Tumor Growth Inhibition

BGB-3245 is active in patient-derived xenografts driven by *BRAF* fusions and non-V600 mutations, where approved BRAF inhibitors do not work

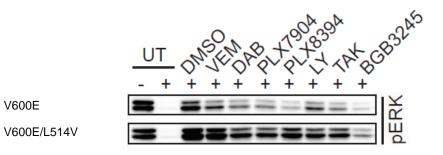
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- Driver mutations and fusions potentially uniquely targetable by BGB-3245 could account for up to ~5% of all solid tumors
- BGB-3245 also active preclinically against mutant BRAF monomers (e.g., V600)

BGB-3245 is active against resistance mutations that 2 arise in *BRAF* V600 patients treated with approved BRAF inhibitors

pERK Activity in BRAF V600E/L514V Cell Line



- BRAF V600E/L514V is a dabrafenib resistance mutation
- BGB-3245 showed strongest in vitro activity versus other first- and secondgeneration BRAF inhibitors tested



Source: Rosen presentation, Sixth International RASopathies Symposium: Precision Medicine - From Promise to Practice, 2019; Dankner et al., Oncogene, 2018; Ross et al., IJC, 2016; Dimitriadis et al., J Neurooncol, 2013; Garnett et al., Molecular Cell, 2005; Siegel et al., CA A Cancer J Clin, 2019; Wang et al., Cancer Discovery, 2018.

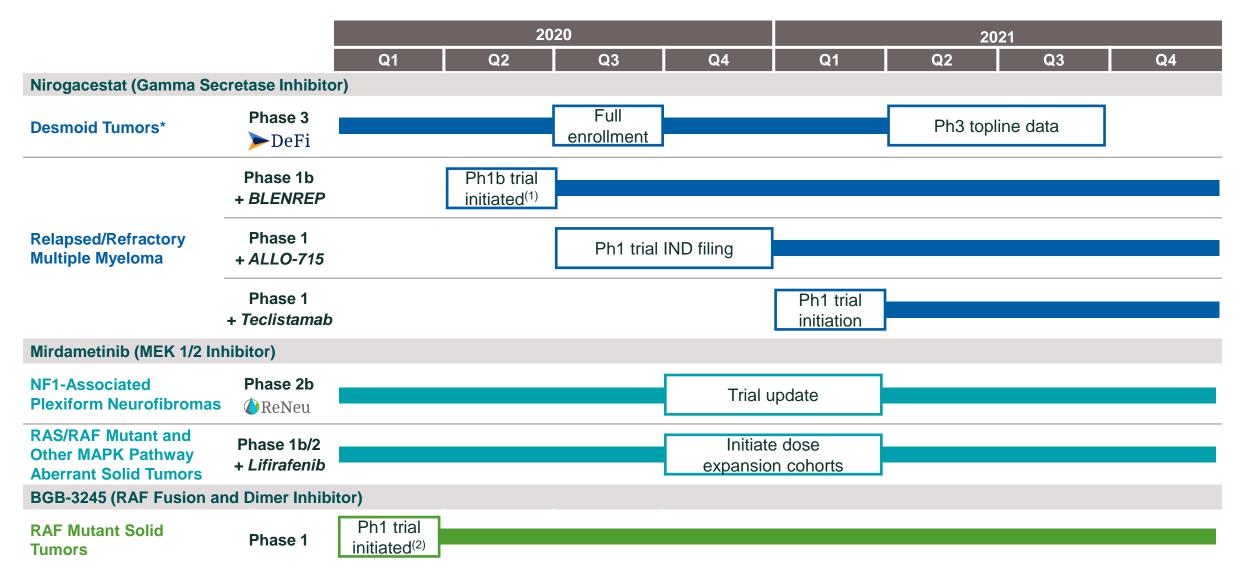
V600E

# The SpringWorks Opportunity





## Pipeline is Rich in Anticipated Near-Term Catalysts



**X** SpringV

(1) Phase 1b clinical trial evaluating BLENREP (belantamab mafodotin) in combination with nirogacestat in patients with relapsed or refractory multiple myeloma is being examined

28 as a sub-study in GlaxoSmithKline's DREAMM-5 platform trial.

(2) Program being developed by MapKure, LLC, jointly owned by SpringWorks and BeiGene.

Well Capitalized to Execute on Important Value-Driving Milestones

\$291.2M Cash, Cash Equivalents & Marketable Securities (as of June 30, 2020)

**No Debt** 

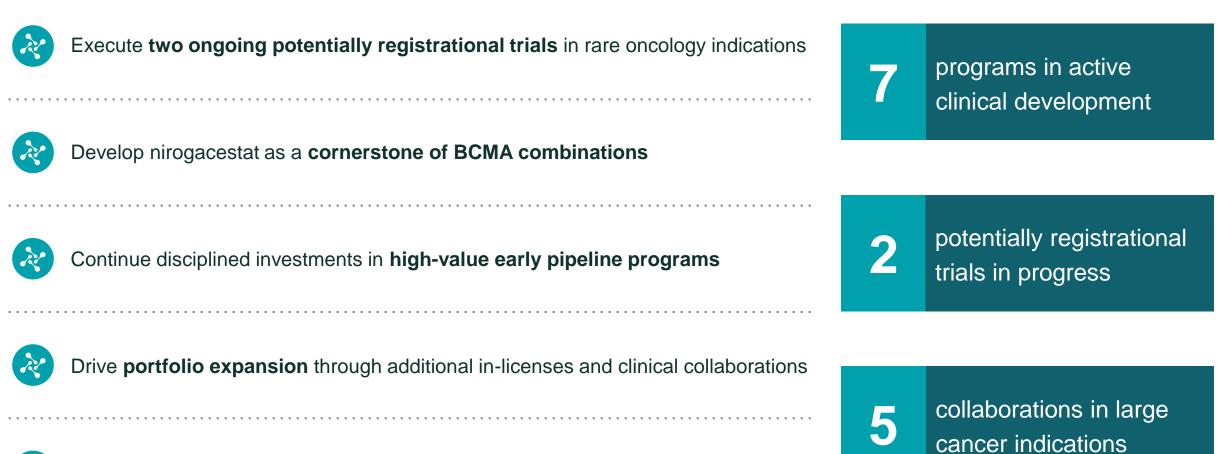
**NASDAQ: SWTX** 

**43.0M** Common Shares Outstanding<sup>(1)</sup>

Current cash position expected to fund operations through 2022, supporting completion of seven ongoing and planned clinical trials



# Strategic Priorities and Building Blocks for Substantial Value Recognition in 2020





Expand capabilities and scale the organization with talented employees



