







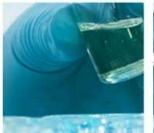
# **CSTONE PHARMACEUTICALS (2616.HK)**2020 INTERIM RESULTS PRESENTATION

August 19th, 2020















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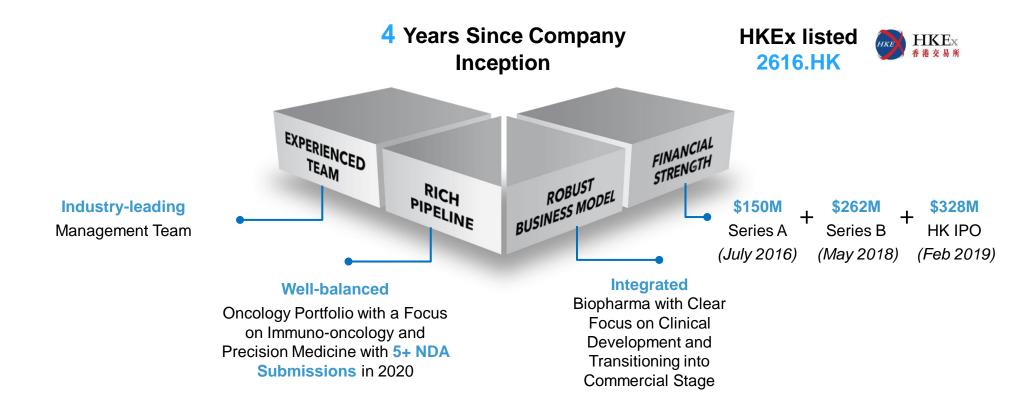
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#### To Become Globally Recognized as the Leading Chinese Biopharma



Note: NDA = New Drug Application

# CStone is rapidly transitioning into a fully-fledged biopharma within ~4 years of inception







Ivosidenib (IDH1 inhibitor) NDA filing in Taiwan

Avapritinib
(KIT/PDGFRA
inhibitor) NDA
filing in Taiwan and
mainland China

Pralsetinib (RET inhibitor) pivotal trial success in 2L RET-fusion NSCLC in China

Sugemalimab
(CS1001, PD-L1
antibody) pivotal
trial success in 1L
Stage IV NSCLC
(sq & nsq) in China





patient dosed

2019



**IPO on HKEx** 



Translational
Medicine Research
Center established





In-license deals with Blueprint & Agios



2020



with Numab

Global clinical collaboration with **Bayer** 



State-of-the-art manufacturing facility construction commenced



Commercial capability rapid ramp-up

# Critical clinical and regulatory milestones achieved in 2020YTD, propelling CStone to near commercial stage



- Exceptionally positive readout for 3 pivotal trials
- Significantly de-risked CStone's late stage assets



#### Sugemalimab (CS1001, PD-L1 antibody)

- Ph3 trial met primary endpoint with highly positive topline data as 1L treatment in Stage IV squamous and non-squamous NSCLC
- NDA submission in preparation



#### Pralsetinib (RET inhibitor)

- Pivotal study in 2L RET-fusion NSCLC in Chinese cohort demonstrated deep and durable anti-tumor activity consistent with global data
- NDA submission in mainland China in preparation



#### Avapritinib (KIT/PDGFRA inhibitor)

NDA submissions accepted by China NMPA and Taiwan FDA for PDGFRA exon 18 mutation GIST

### Other notable achievements in 2020YTD for late-stage assets



### Sugemalimab (PD-L1 antibody)

5 pivotal trials on track, including Stage III NSCLC, 1L gastric cancer, 1L esophageal cancer and r/r-ENKTL, with r/r-ENKTL trial received IND approval from US FDA and expanded to the US

### CS1003 (PD-1 antibody)

 Global Ph3 trial in 1L HCC ongoing and received orphan drug designation (ODD) from US FDA

### Pralsetinib (RET inhibitor)

- Completed enrollment in China for pivotal trial in 1L RET mutant MTC
- Initiated pivotal trial in 1L RET fusion-positive NSCLC
- Enrolling patients in a basket cohort in other RET-altered solid tumor types

### Ivosidenib (IDH1 inhibitor)

Received NDA approval from Taiwan FDA for the treatment of r/r AML adult patients with IDH1 mutation, and marketing approval is expected in 2H 2020

### Remarkable speed towards commercialization Expect 5+ NDA approvals for 4 products by 2021



Ivosidenib (IDH1 inhibitor)

Avapritinib (KIT/PDGFRA inhibitor)

Pralsetinib (RET inhibitor)

Sugemalimab (PD-L1 antibody)

IDH1 r/r AML

Taiwan, China Singapore PDGFRA exon 18
GIST

Mainland China Taiwan, China RET 2L NSCLC

Mainland China Taiwan, China 1L Stage IV NSCLC (sq & nsq)

Mainland China

#### Significant strides in 2020YTD for early-stage assets



### TWO Combo Trial Initiation

- CS1002 (CTLA-4 antibody) and CS1003 (PD-1 antibody) combo expansion cohorts in selected tumor types
- Fisogatinib (FGFR4 inhibitor) and sugemalimab (PD-L1 antibody) combo initiated Ph2 study for FGF19+ HCC

### TWO IND Approvals

- Donafenib and sugemalimab combo China IND approval in Apr 2020
- NM21-1480 (PD-L1×4-1BB×HSA tri-specific molecule) US IND approval in Jun 2020 (Numab), and Taiwan IND approval in Aug 2020

# TWO Mono Trial Dose Escalation FPFD

- CS3002 (CDK4/6 inhibitor) IND approved by China NMPA; mono Australia dose escalation FPFD in Jan 2020
- CS3005 (A2aR antagonist) IND approved by China NMPA; mono Australia dose escalation FPFD in Jan 2020

#### Pre-clinical Data Release

Pre-clinical data release of sugemalimab (PD-L1 antibody), CS3002 (CDK4/6 inhibitor) and CS3003 (HDAC6 inhibitor) at 2020 AACR virtual annual meeting II

# Compelling progress achieved in 2020YTD for commercial operations, BD and manufacturing



### Commercial Operations

- Rapidly ramped up commercial capabilities with seasoned functional leaders including Taiwan & Hong Kong GM, Sales, Marketing, MED and Market Access head onboard
  - All leaders have >15 years of China pharma industry experience and strong network with key stakeholders
  - Highly competent core sales team established to cover target hospitals in mainland China and Taiwan
- Successfully listed pre-commercial products ivosidenib (IDH1 inhibitor) and avapritinib (KIT/PDGFRA inhibitor) in CSCO guideline
- Extensively interacted and communicated with target HCPs on diseases, diagnostics and products via multichannel engagements



Signed 1st commercial agreement for Hainan Bo'ao Early Access Program to boost brand's share of voice and pave way for successful mainland China launch in near future

### **Business Development**

- Engaging potential partners for multiple partnership opportunities that will accelerate our value creation, including in-licensing, out-licensing and strategic partnership
- Extended our territory beyond Greater China to Singapore to develop and commercialize ivosidenib (IDH1 inhibitor)

#### **Manufacturing**

Commenced the construction of the state-of-the-art manufacturing facility in Suzhou with roof-sealing of the main building expected in 2H 2020

### Sugemalimab (PD-L1) Ph3 study highly positive results 1L NSCLC (Stage IV squamous & non-squamous)







- Interim analysis showed that sugemalimab (PD-L1 antibody) combined with chemotherapy demonstrated a statistically significant and clinically meaningful prolongation of PFS, reducing the risk of disease progression or death by 50% (HR=0.5, p<0.0001)</li>
- Clinical benefits shown across all subgroups including histology subtypes and PD-L1 expression levels
- Sugemalimab in combination with chemotherapy was well tolerated, with no new safety signal detected
- NDA submission expected in Q4 2020



#### Competitive positioning

1st PD-L1 antibody to demonstrate overwhelming efficacy as 1L treatment of Stage IV sq & nsq NSCLC in a randomized, double-blinded Ph3 trial

#### Innovative design

 1 registrational trial to cover both key histologies (sq & nsq), with smaller trial patient size (n=480), faster completion and lower trial cost

#### **Execution excellence**

 Approx. 20 months vs. industry benchmark of ~25 months to complete the 480-patient trial despite fierce competition and COVID-19 outbreak, and less than 3 years from Ph1 to first Ph3 topline report

### Pralsetinib (RET) pivotal trial showed deep and durable efficacy in Chinese cohort





2L NSCLC (RET fusion-positive)



- Deep and durable anti-tumor activity observed in 2L RET fusion-positive NSCLC in Chinese cohort patients, data to be released in a scientific conference in near future
- Efficacy and safety results are consistent with global data, pralsetinib was welltolerated in the Chinese patient population
- NDA submission in mainland China expected in Q3 2020



#### Competitive positioning in local market

Potentially 1<sup>st</sup> RET inhibitor available in China for RET fusion-positive NSCLC patients

#### **Execution excellence**

- Approx. 2 years from licensing to topline data readout of the bridging registrational trial
- 11 months from First Patient In to the topline data readout, with an enrollment rate
   ~4 times higher than the global average rate

### Avapritinib (KIT/PDGFRA) NDA accepted in mainland China and Taiwan





PDGFRA exon 18 GIST



- NDA accepted in mainland China in April for treatment of adults with unresectable or metastatic GIST harboring a PDGFRA exon 18 mutation
- Priority review status granted by China NMPA
- NDA accepted in Taiwan in March for GIST harboring a PDGFRA exon 18 mutation
- Preliminary efficacy and safety data in Chinese cohort patients presented at ASCO 2020



#### Competitive positioning in local market

 Potentially 1<sup>st</sup> treatment targeting PDGFRA exon 18 mutation GIST in mainland China

#### **Execution excellence**

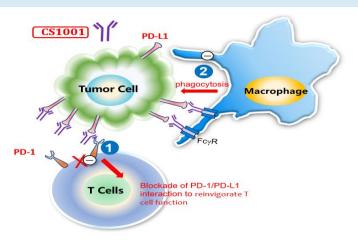
- Approx. 20 months from in-licensing deal to NDA submission in mainland China and Taiwan
- 2 quarters ahead of initial schedule for NDA filing

# The unique MoA of sugemalimab (PD-L1) and the distinct design of our tri-specific molecule (NM21-1480) renders both the potential to be the "best-in-class" immune checkpoint inhibitors



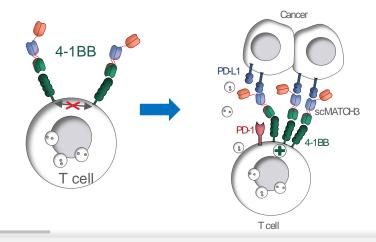


#### **Unique MoA of sugemalimab**



- Fully human, full length IgG4 antibody minimal possibility of generating ADA
- Naturally lacks of ADCC/CDC activity that leads to better safety and avoids unwanted attack of T cells
- Retains ADCP activity that potentially induces direct tumor killing by macrophages and enhances tumor antigen presentation for long-term anti-tumor immunity
- In additional to NKTL, this novel MoA possibly explains the higher clinical activity of Sugemalimab observed in our NSCLC and EC clinical trials

### 2 NM21-1480 (PD-L1x4-1BBxHSA)

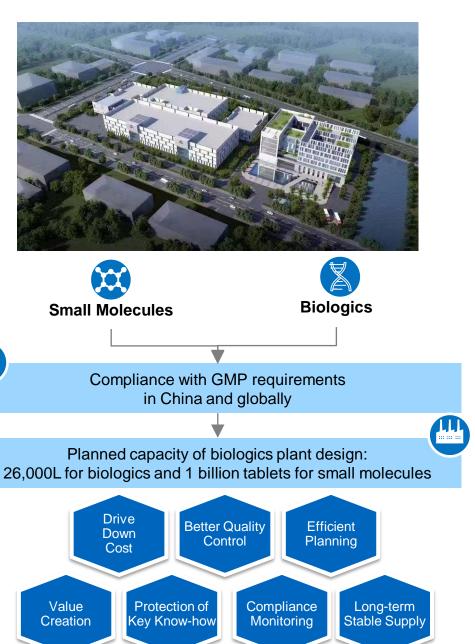


- CStone's leading next-generation PD-L1 candidate in co-development with Numab
- Monovalent tri-specific molecule binds to PD-L1 (immune checkpoint), 4-1BB (immune agonist) & HSA (half-life extension)
- Conditional activation of 4-1BB occurs only at tumor sites when PD-L1 arm is engaged via ultra-high affinity
- IND approved by US FDA (June 2020) and Taiwan FDA (August 2020)
- Patient recruitment ongoing for the multicenter Ph1 study in US and Taiwan

# State-of-the-art manufacturing facility in construction to be in full operation by next year



- In August 2019, CStone entered into an agreement with Sungent (state-owned controlled by Suzhou Industrial Park) to build manufacturing facility
- Commencement of the construction in the first half of 2020 with roof-sealing of the main building in 2H 2020 and full operation in 2021
- Planned building area of approximately 100,000 sqm
- Capabilities: once completed, the complex will be equipped with integrated capabilities for R&D, pilot plant, and full commercial scale manufacturing
- Planned capacity: 26,000L for macromolecule biologics and 1 billion tablets and capsules for small molecule drugs
- Strategic partnership with Wuxi Biologics on clinical and commercial stage manufacturing



#### Financial summary for 1H 2020



#### **Cash Balance**

- RMB2,124 million of cash, cash equivalents, and time deposits as of June 30, 2020 vs. RMB2,726 million as of December 31, 2019
- Cash position decreased by RMB602 million mainly due to R&D expenses, administrative and selling expenses

### Sources of Cash

- **IPO proceeds**: HK\$2,394 million (post greenshoe)
- Bank borrowing: Available bank loan facility up to RMB200 million for working capital improvement and the construction of the manufacturing facility and other facilities

#### **Uses of Cash**

- R&D expenses (non-IFRS¹): RMB470 million
- Administrative and selling expenses (non-IFRS¹): RMB100 million

# Outstanding execution in 2020YTD with multiple thrilling milestones achieved and more to come



#### Milestones achieved in 2020YTD

#### To be achieved for rest of 2020

#### **NDA Submission**

 Avapritinib (KIT/PDGFRA): PDGFRA exon 18 GIST accepted by NMPA in April and PDGFRA exon 18 GIST submitted to Taiwan FDA in March

#### **Pivotal Trial Data Readout**

- Sugemalimab (PD-L1): Stage IV NSCLC registrational trial topline readout in August
- Avapritinib (KIT/PDGFRA): PDGFRA exon 18 GIST registrational trial data published at ASCO 2020
- Pralsetinib (RET): 2L RET NSCLC registrational trial topline readout in July

#### **Key Data at Int'l Conference**

Stage IV NSCLC sq and nsq Ib trial data published at ASCO 2020

#### **Marketing Approval**

■ Ivosidenib (IDH1): r/r AML, Taiwan

#### **NDA Submission**

- Sugemalimab (PD-L1): Stage IV NSCLC, China
- Pralsetinib (RET): 2L RET NSCLC, China
- Ivosidenib (IDH1): r/r AML, Singapore

#### **Pivotal Trial Data Readout**

- Sugemalimab (PD-L1): Stage III NSCLC registrational trial data by Q4 2020 / Q1 2021
- Pralsetinib (RET): 1L MTC registrational trial data by Q4 2020

#### **Research**

- NM21-1480 IND approval in US and Taiwan
- Pre-clinical data release of sugemalimab (PD-L1), CS3002 (CDK4/6) and CS3003 (HDAC6) at 2020 AACR virtual annual meeting II

#### **Commercial**

- Solid brand plan for launch readiness
- Fully fledged commercial capability ramped up

#### **Business Development**

Singapore rights obtained for ivosidenib (IDH1)

#### Commercial

■ Product launch of TIBSOVO (ivosidenib) in Taiwan for r/r AML¹

#### **Business Development**

 Continue engaging potential partners for multiple partnership opportunities i.e. in-licensing, out-licensing and strategic partnership

#### **Manufacturing**

Roof-sealing of the main building expected in 2H 2020



### **Business Overview**



### Industry leading management team with proven track record and complementary expertise





Frank Jiang, MD, PhD Chairman, Chief Executive Officer







Shirley Zhao, MD, MBA Greater China GM. Head of Commercial





Jason Yang, MD, PhD Chief Medical Officer











Bing Yuan, PhD, MBA Chief Strategy and **Business Officer** 







Jon Wang, PhD Chief Scientific Officer





Archie Tse. MD. PhD Chief Translational Medicine Officer











**BioSpecifics** 



Sanhu Wang, MPH SVP, Government and Regulatory Affairs





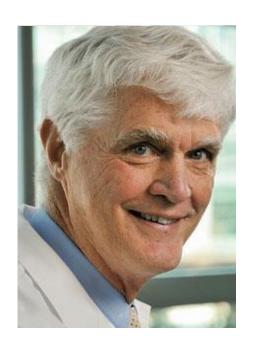


**Yinghua Zhang** VP, Operations



# Distinguished world-class scientific advisory board with deep oncology and IO expertise











Paul Bunn MD

Former ASCO President 2002-2003 Distinguished Professor, University of Colorado

Elizabeth Jaffee MD

Former AACR President 2018-2019 Professor of Oncology, Johns Hopkins University

Weiping Zou MD, PhD

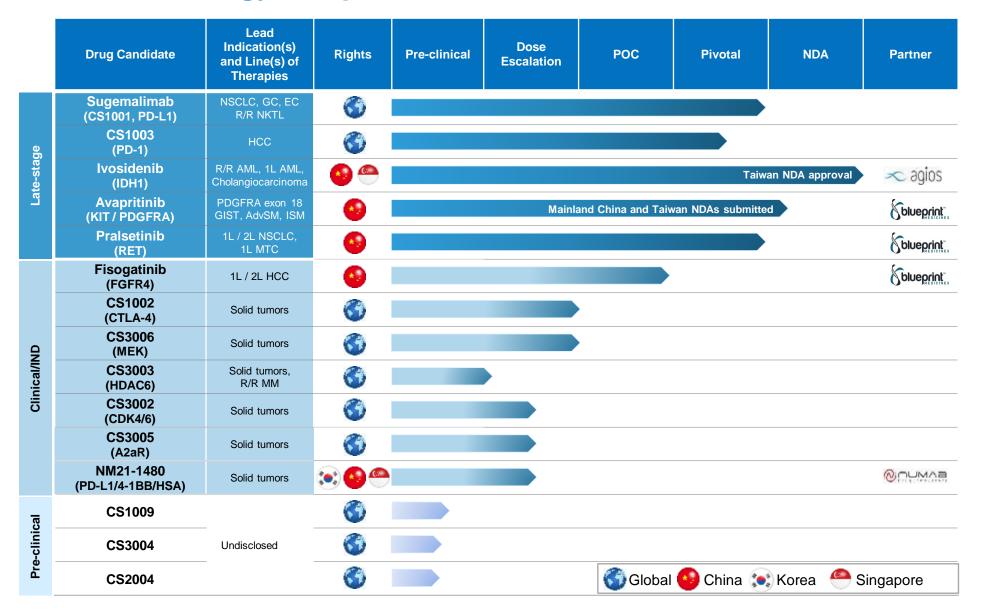
Chair, AACR Cancer Immunology Charles B.de Nancrede Professor, University of Michigan

Richard Finn MD

Former International
Liver Cancer
Association President
Clinical Professor,
UCLA

# Well-balanced oncology portfolio with a focus on immuno-oncology and precision medicine





Source: Company

Note: Assets status denote progress in the region noted in the column titled "Rights". AML= Acute Myeloid Leukemia, AdvSM = Advanced Systemic Mastocytosis, GIST = Gastrointestinal Stromal Tumor, HCC = Hepatocellular Carcinoma, ISM = Indolent Systemic Mastocytosis, NKTL = Natural KILLER/T Cell Lymphoma, NSCLC = Non-small Cell Lung Cancer, MTC = Medullary Thyroid Cancer, R/R = Relapsed or Refractory, SM = Systemic Mastocytosis, MM = Multiple Myeloma.

# Focus on China's largest indications, covering 55%+ of total cancer incidences



Cancer type	Lung Cancer	Colorectal Cancer	Gastric Cancer	Liver Cancer	Esophagus Cancer
New cases (2018)	774,323	516,859	456,124	392,868	307,359
5-year prevalence (2018)	716,411	1,237,145	603,851	296,780	284,163
	PD-L1 Mono Stage III NSCLC	PD-L1+Regorafenib Advanced CRC	PD-L1 + Chemo Advanced GC/GEJ	PD-1 + VEGFRi Advanced HCC	PD-L1 + Chemo Advanced ESCC
Ongoing and planned clinical trials	PD-L1 + Chemo Stage IV NSCLC	PD-1+Regorafenib Advanced CRC	PD-L1+Regorafenib Advanced GC/GEJ	Fisogatinib FGF19+ HCC	
registrational exploratory	Pralsetinib RETm 1L NSCLC & 2L NSCLC		PD-1+Regorafenib Advanced GC/GEJ	PD-L1 + Fisogatinib FGF19+ HCC	

# Differentiated Combo Strategy - driven by sizable portfolio anchored around 3 I/O backbone agents

Ph3



3
IO backbone agents

Only company in China owns clinical stage PD-L1, PD-1 and CTLA-4 15
assets in the pipeline

10 in-house developed derisked assets plus5 in-licensed FIC/BIC assets

potential 2<sup>nd</sup> generation of PD-(L)1

PD-L1x4-1BB provides more flexible combo and potential better efficacy

#### **De-risked Combo**

PD-(L)1 + Chemo/RT (S3 NSCLC, S4 NSCLC, 1L GC, 1L EC)

PD-1 + CS1002 (CTLA-4)

PD-(L)1 + Regorafenib (VEGF)

PD-(L)1 + Lenvatinib (VEGF) Ph3

And more...

### Novel Combo Unique to CStone

PD-L1 + Fisogatinib (FGFR4)

PD-L1 + CS3002 (CDK4/6)

PD-1 + CS1002 (CLTA-4) + CS3005 (A2aR)

And more...

#### **Multi-specific**

NM21-1480 (PD-L1 x 4-1BB)

And more...

#### 11 combo trials, including 5 registrational trials

I/O

I/O+Chemo/RT



I/O+I/O

I/O+TT (targeted therapy)

# Clinical Development Engine: Strong in-house team led by experienced leaders and supported by global CROs







Frank Jiang, MD, PhD Chairman and CEO

- Former Head of APAC R&D for Sanofi
- Led a 21,000 patient mega-trial
- Led 79 clinical trials and 30 NDAs within five years



Jason Yang, MD, PhD CMO

- Former SVP and Head of Clin Dev for Beigene, led development of PD-1, BTK, PARP and RAF dimer inhibitors
- Led 40+ global and China trials

Responsible for late stage clinical development and regulatory affairs



Archie Tse, MD, PhD CTMO

- Former Executive Director of Early Clin Dev at MSD (US)
- Led 30+ FIH oncology trials
- Led 20+ I/O combination trials

Responsible for early stage clinical development and diagnostics/biomarkers

Clinical Development & PV 1

Regulatory Affair Biometrics & Medical Writing

Quality Assurance Clinical Operations Molecular Diagnostics Translational Medicine & Biomarker Clinical Pharmacology

Early Development

Strong in-house team with  $\sim 180$  clinical staff, representing  $\sim 55\%$  of total employees, of which  $\sim 75\%$  hold advanced degrees<sup>2</sup> and  $\sim 72\%$  have clinical development experience at MNCs



PAREXEL.

COVANCE.
SOLUTIONS MADE REAL



Keep clinical strategy planning & development oversight in-house, while outsourcing day-to-day execution to global CROs to ensure optimal balance between efficiency and scalability

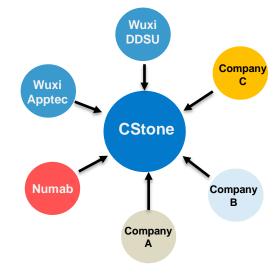
Note:

- 1. Includes GI cancer, lung cancer, hematology & other solid tumors, and pharmacovigilance
- 2. Master and above

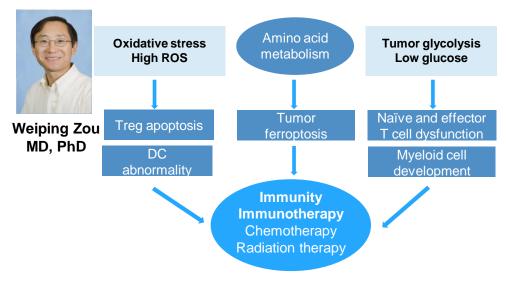
## Focus areas: novel biology, multi-functional biologics, cancer vaccines



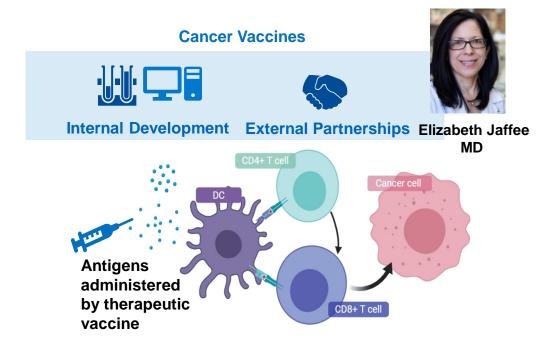
- CStone Internal Discovery Platform
  - "Hub & Spoke" models for internal projects
    - CStone names the targets; Internal Project Leader and Project Manager to run projects
    - Lead discovery & optimization done at CRO or platform companies until **PCC**, then bring back to CStone
  - Work with leading academic labs to identify lead candidates, then bring to CStone for development



#### **Novel Biology**



Targeting ferroptosis pathway may sensitize and improve immunotherapy efficacy



# We will focus on precision medicine in the near-term, followed by PD-(L)1 across China prevalent indications in the longer term

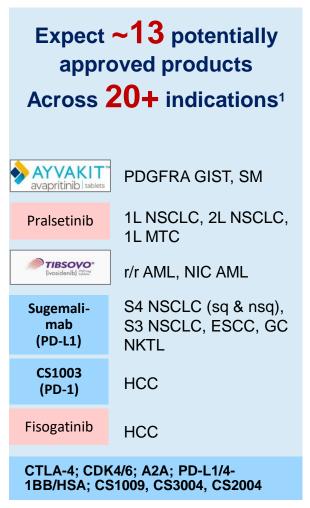


Near-term (2020~2021)

Mid-term (2022~2025)

Long-term (2026~)





We are constantly filling our pipelines that fit with our pipeline 2.0 approach



## Thank you!

