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# Agenda

Hyemas

- 1. ROR1 ADC Updates
- 2. PD-L1 ex-China Progress
- 3. Commercialization Strategy
- 4. Expected Catalysts

# 1. ROR1 ADC Updates

- 2. PD-L1 ex-China Progress
- 3. Commercialization Strategy
- 4. Expected Catalysts



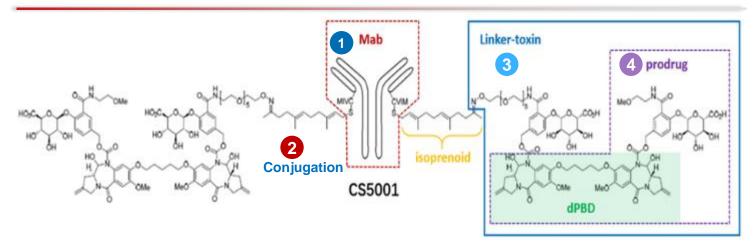
Agenda

# CS5001 (ROR1 ADC) is a potential FIC/BIC ROR1 ADC globally with Ph1 study ongoing in US, Australia and China

### An ADC target for both hematological malignancies and solid tumors

- Largely absent in normal blood lymphocytes and adult tissues 1~3
- Embryotic protein overexpressed by various hematological malignancies, particularly B-cell lymphomas 4, 5
- Widely expressed in solid tumors such as TNBC. ovarian cancer, and adeno-NSCLC <sup>2,6~13</sup>
- First-in-class molecule acquired by Merck for US\$2.75Bn in Nov 2020 at Ph<sub>1</sub>

### 4 key differentiators support best-in-class potential:



### **Potentially less** immunogenicity

Fully human IgG1 mAb v.s. humanized mAb of other ROR1-ADCs

### Controlled quality and production

2 Site-specific conjugation technology, ConjuAll, enables a homogenous drug to antibody ratio of 2

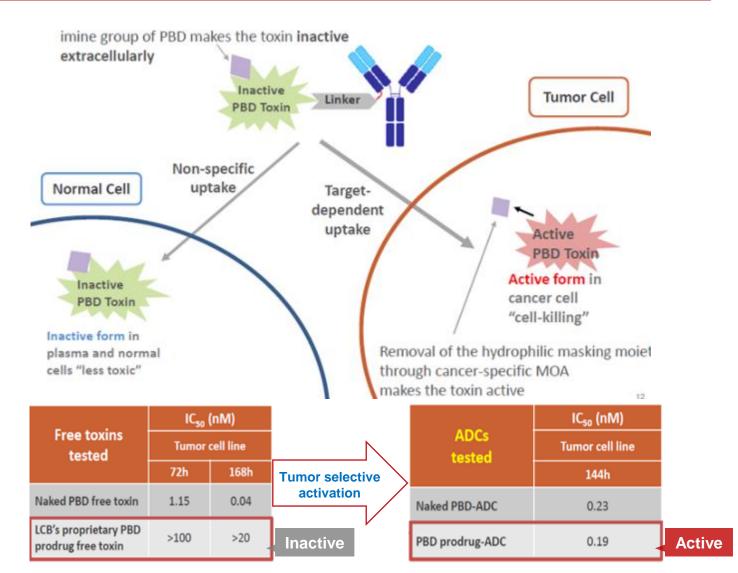
### **Potentially wider** therapeutic window

- Proprietary tumor-selective cleavable linker (cleaved by β-glucuronidase), shows exceptional stability in serum
- Proprietary tumor-activated PBD dimer toxin prodrug (released by βglucuronidase)

<sup>1.</sup> Baskar et al, Clin Cancer Res 2008,14(2); 2. Balakrishnan et al, Clin Cancer Res 2017 23(12); 3. Uhrmacher et al, Leukemia Research 35 (2011) 1360; 4. Borcherding et al, Protein Cell 2014, 5(7):496–502; 5. Daneshmanesh et al, Leukemia & Lymphoma 2013,54(4): 843-850; 6. Zhang et al, PLoS ONE 2012 7(3): e31127; 7. Chien et al, Virchows Arch 2016, 468(5):589-95; 8. Henry et al, Transl Oncol. 2017, 10(3):346-356; 9. Zhang et al, Sci Rep. 2014, 24(4):5811; 10. Zheng et al, Sci Rep. 2016, 10(6):36447; 11. Liu et al, PLoS One. 2015,10(5):e0127092; 12. Henry et al, Gynecol Oncol. 2018, 148(3):576-584; 13. Zhou et al, Oncotarget 2017, 8(20):32864-32872

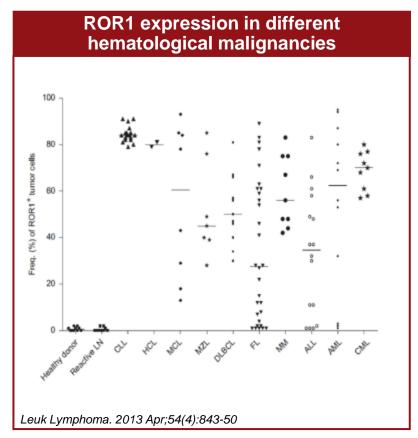
# Novel prodrug technology minimize systematic toxicity of conventional PBD

- PBD prodrug is inactive compared to naked PBD
- Prodrug, being in a highly polar form, cannot penetrate and kill normal cells
- Prodrug mitigates toxicity risk associated with systemic exposure of conventional PBD payloads
- Similar IC50 of naked PBD-bearing ADC and PBD prodrug-bearing ADC indicates no loss in payload activity and high efficiency of activating PBD prodrug in cancer cells



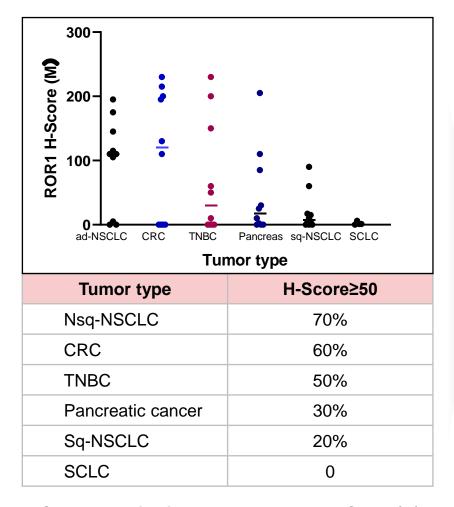
# ROR1 is a promising target for the treatment of multiple tumor types

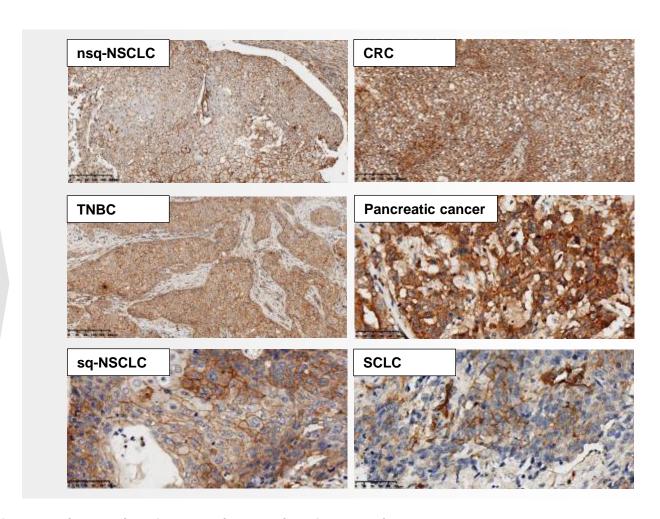
- Receptor tyrosine kinase-like orphan receptor 1 (ROR1) is a member of the receptor tyrosine kinase family
- Broad expression of ROR1 in both solid tumor and hematological malignancies (e.g., TNBC, lung cancer, ovarian cancer, pancreatic cancer, CLL, MCL, etc.)
- Predominantly absent from normal blood lymphocytes and adult tissues, indicating minimal off-target activity



### **ROR1** expression in different solid tumor types **TNBC Tumor type** Positive rate **TNBC** 56% (n=56) Lung cancer 42% (n=137) **Ovarian cancer** Pancreatic cancer 50% (n=159) Ovarian cancer Pancreatic 15% (n=38) cancer ROR1 expression is homogeneous, defined as definite membranous staining of over 50% of tumor cells Clin Cancer Res. 2017 Jun 15;23(12):3061-3071

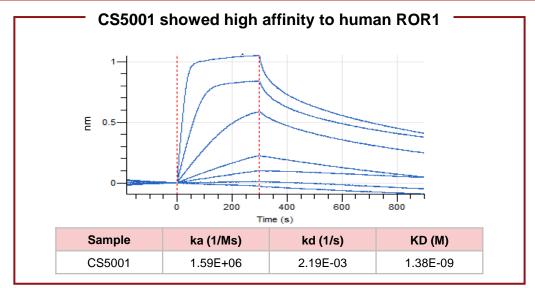
# ROR1 expression in solid tumor has been validated by CStone proprietary mAb

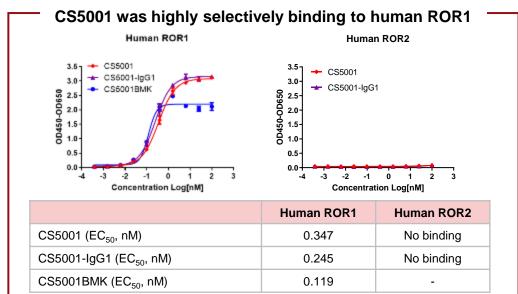


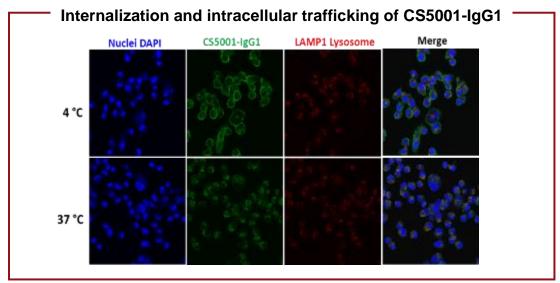


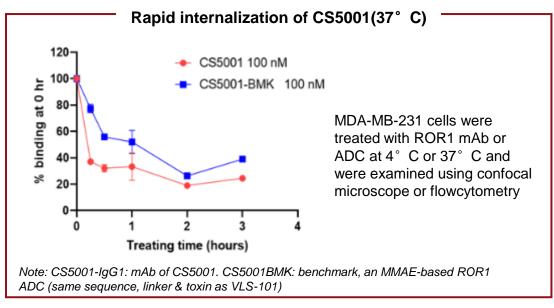
ROR1 expression in tumor membrane: H-Score (M)=1 $\times$  (% of 1+ cells) +2  $\times$  (% of 2+ cells) + 3  $\times$  (% of 3+ cells).

# CS5001 selectively bound to human ROR1 with high affinity and triggered rapid and high internalization

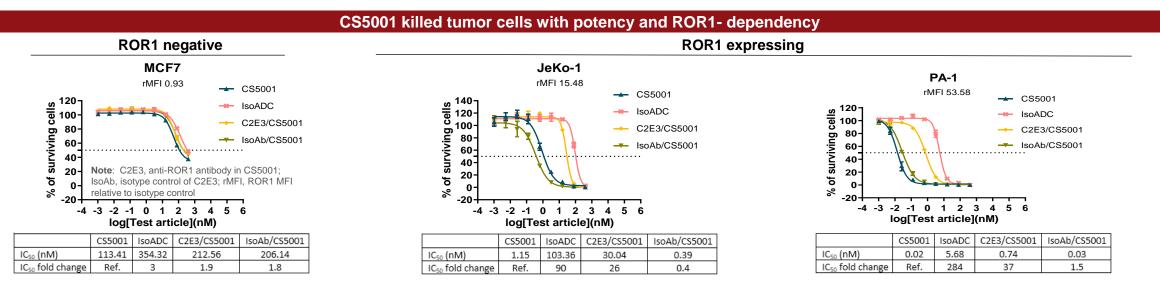






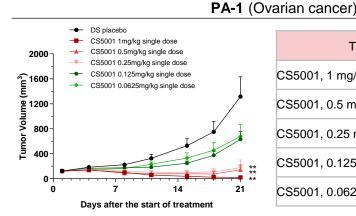


# CS5001 demonstrated highly potent ROR1-dependent cytotoxicity in solid tumor and hematological malignancy cell lines



### CS5001 remarkably killed tumor cells in CDX models

### Jeko1 (Mantle cell lymphoma) → PBS. IV. QW CS5001, 1 mg/kg, IV, Single dose Treatment CS5001, 0.5 mg/kg, IV, Single dose CS5001, 0.25 mg/kg, IV, Single dose CS5001BMK1, 2.5 mg/kg, IV, Single dose CS5001, 1 mg/kg, Single dose CS5001BMK1, 2.5 mg/kg, IV, QWx3 1500 E 1500 CS5001, 0.5 mg/kg, Single dose CS5001, 0.25 mg/kg, Single dose 500 CS5001BMK1, 2.5 mg/kg, Single dose 21 CS5001BMK1, 2.5 mg/kg, QWx3 Days after the start of treatment



Treatment	TGI %	CR
CS5001, 1 mg/kg, Single dose	108	2/8
CS5001, 0.5 mg/kg, Single dose	98	1/8
CS5001, 0.25 mg/kg, Single dose	95	0/8
CS5001, 0.125 mg/kg, Single dose	57	0/8
CS5001, 0.0625 mg/kg, Single dose	53	0/8

Note: p<0.01, \*\*\*, p<0.001 vs PBS; #, p<0.05, vs CS5001BMK1 single dose; TGI: tumor growth inhibition; CR: complete regression is defined as ≤ 13.5 mm3 for 3 consecutive measurements; CS5001BMK1: benchmark1, an MMAE-based ROR1 ADC (same sequence, linker & toxin as VLS-101)

TGI % CR

2/8

0/8

0/8

0/8

0/8

109

98

60

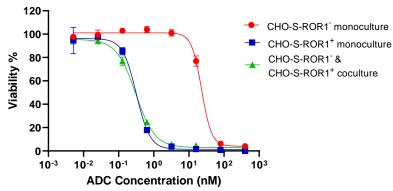
38

78

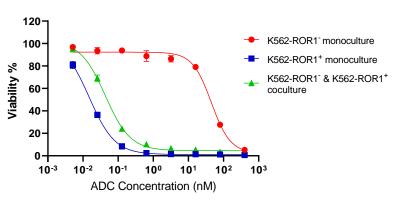
# CS5001 demonstrated robust bystander killing effect in co-culturing assays with ROR1+/- cells

### ROR1- tumor cells co-cultured with the same cells but transfected with ROR1

# CHO-S & CHO-S-ROR1 coculture

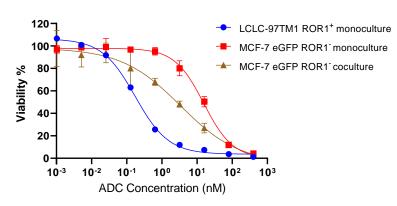


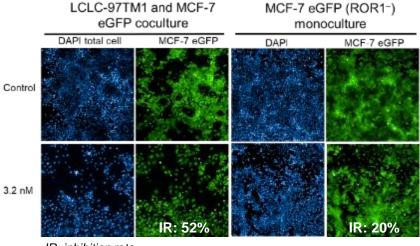
### K562 & K562-ROR1 coculture



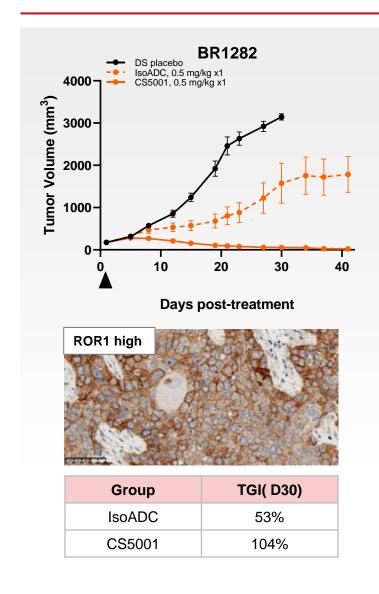
### ROR1- tumor cells co-cultured with tumor cells endogenously expressing ROR1

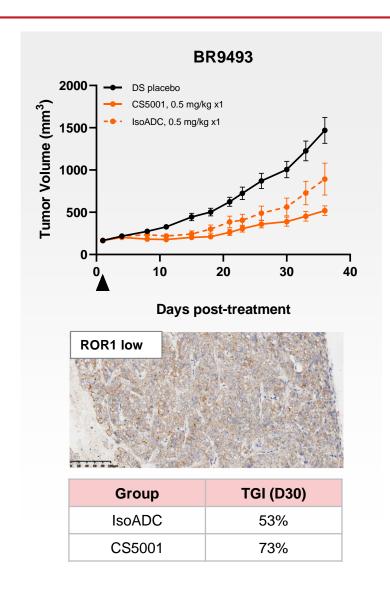
### LCLC-97TM1 & MCF-eGFP coculture

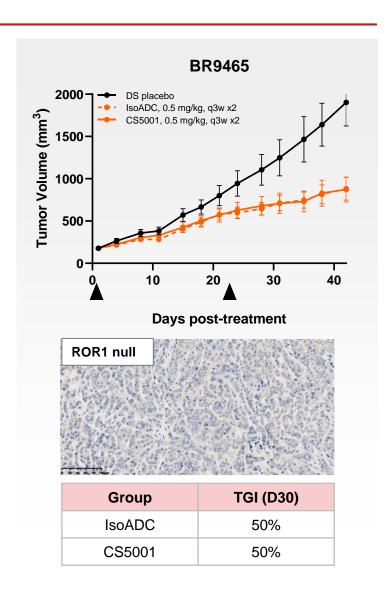




# ROR1-dependent anti-tumor activity was demonstrated in solid tumor PDX models







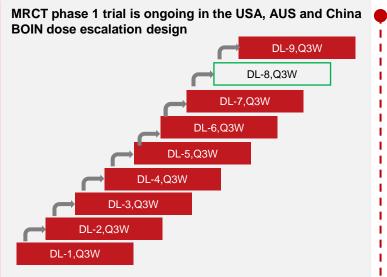
# Phase 1 Study Design: CS5001-101

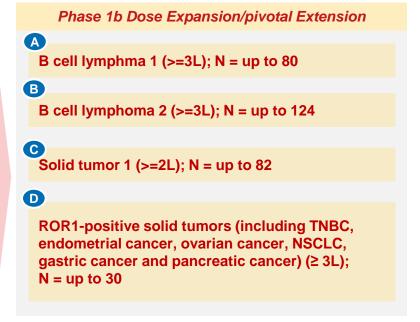
A Phase 1, Dose-Escalation and Dose-Expansion Study to Evaluate the Safety, Tolerability, Pharmacokinetics and Antitumor Activities of CS5001, an Anti-ROR1 Antibody Drug Conjugate, in Patients with Advanced Solid Tumors and Lymphomas

Phase 1a Dose Escalation (BOIN Design) + Backfill

### Key eligibility criteria

- Age 18 years or older
- Solid tumor: pathologically confirmed, unresectable advanced solid tumor (>=2L)
- · Lymphoma: pathologically confirmed B-cell lymphoma (>=3L)
- r/r CHL must have received brentuximab vedotin and checkpoint inhibitor.
- r/r CLL/SLL must have received BTKi.
- >=1 evaluable lesion
- Adequate organ function
- Available tumor samples for biomarker analysis





**Tentative RP2D** 

### Primary objective:

- Characterize CS5001 safety and tolerability, and determine MTD/tentative RP2D Secondary objective:
- PK profile of CS5001 (ADC), total antibody, prodrug and the free cytotoxin SG2057
- Preliminary anti-tumor activity of CS5001

### **Exploratory objective:**

• The predictive value of ROR1 expression on treatment response to CS5001

### Primary objective:

To evaluate the efficacy of CS5001 in patients with selected advanced malignancies

### Secondary objective:

- · To further evaluate the efficacy of CS5001 in patients with selected advanced malignancies
- To further assess the safety and tolerability of CS5001 in patients with selected advanced malignancies
- To further characterize the PK profile of CS5001 (ADC), total antibody, prodrug and the free cytotoxin SG2057 **Exploratory objective:**
- The predictive value of ROR1 expression on treatment response to CS5001

# CS5001 is a well tolerated and stable ADC and has demonstrated preliminary antitumor activities



### Escalated to Dose Level 8 (DL8) with no DLT events

- DLT evaluation completed at prior 7 dose levels, DL8 currently under evaluation
- DLT not observed, suggesting the drug being safe and well-tolerated
- Adverse events observed to date mostly Grade 1 or 2

### Anti-tumor activity observed in both lymphoma and solid tumor

- Two PRs out of the five Hodgkin Lymphoma patients from DL3, DL5 and DL6
- One PR out of the two pancreatic adenocarcinoma patients from DL2 and DL7
- Efficacy at higher dose levels being evaluated

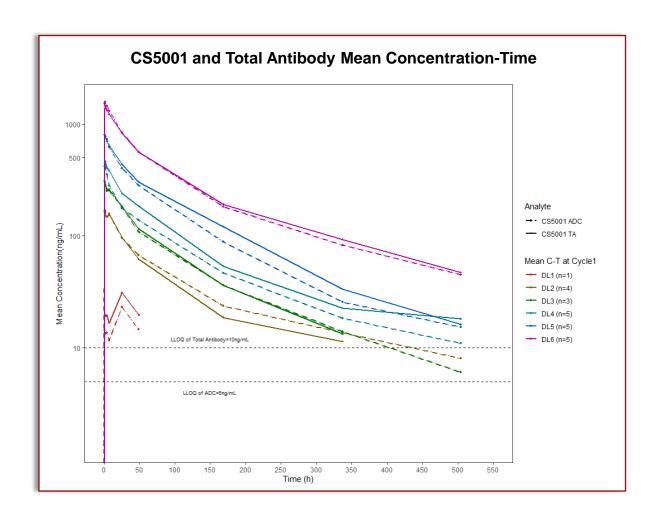
### Clinical pharmacokinetics profile as expected

- PK data suggested a dose proportional exposure of CS5001
- Excellent linker stability—ADC and total antibody demonstrate similar exposure

# Human pharmacokinetics profile as expected

- PK data suggested a dose proportional exposure of CS5001 following i.v. administration
- Immunoconjugate exhibited excellent linker stability, with close similarity observed between ADC and total antibody PK profiles
- The levels of toxin and prodrug in plasma are below the limit of quantification

No anti-drug antibody formation has been detected

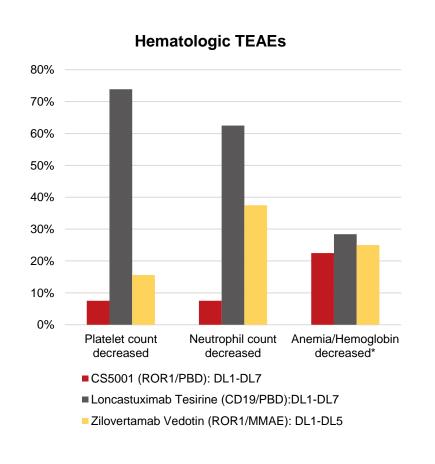


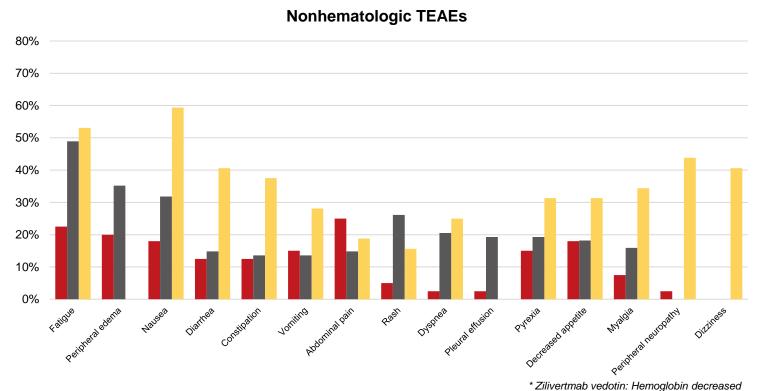
# Background information of three relevant ADCs for safety comparisons

		CS5001 (ROR1/PBD prodrug)	Zilovertamab Vedotin (ROR1/MMAE)	Loncastuximab Tesirine (CD19/naked PBD)
Molecule property	Antibody	Fully human ROR1 mAb	Humanized ROR1 mAb	Humanized CD19 mAb
	Linker	Isoprenoid-β-glucuronide	Mc-vc-PAB	cathepsin-cleavable valine-alanine
	Payload	Prodrug of PBD dimer	MMAE	Naked PBD dimer
	Cleavage mechanism of linker	Cleavable by β-glucuronidase (tumor selective)	Cleavable by proteases	Cleavable by proteases
	Conjugation	Site specific and homogeneous	Randomized	Randomized
	DAR	2	Avg. 4 (0-8)	2.3 (0-6)
Clinical	Indications	Both heme & solid tumor (Ph I)	Heme (Ph I) ; Solid tumor (Ph II); DLBCL (Ph II and Ph II/III combo)	Heme DLBCL (Launched)
	Regions	Ongoing trial in US, AUS, CN	Ongoing trial in US, CN	Marketed in US, EU
	PK T <sub>1/2</sub>	~5 days	3.8 days	7.2-12.5 days

# Favorable phase 1 safety profile of CS5001 vs. two other relevant ADCs

### Lower frequency of hematologic and nonhematologic AEs observed for CS5001 up to Dose Level 7

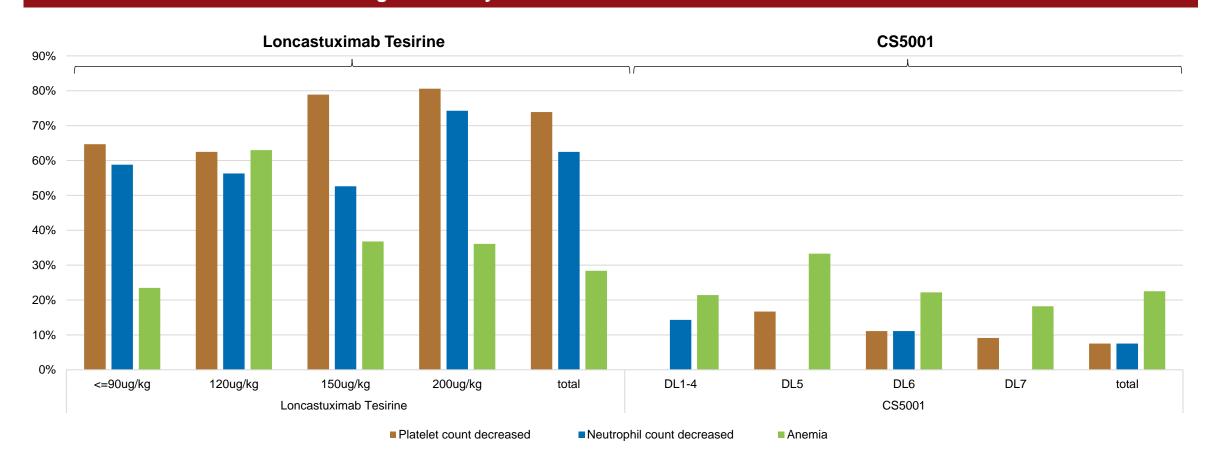




TEAE>=25%

# Comparing to other PBD-based ADC, CS5001 exhibited lower hematologic toxicity across different dose levels

### Hematologic TEAEs by Dose Levels-Loncastuximab Tesirine vs. CS5001

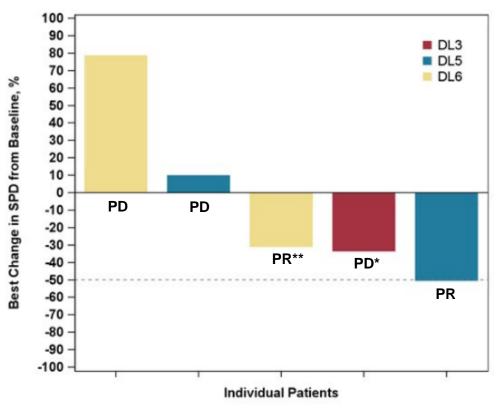


# Preliminary efficacy observed in Hodgkin Lymphoma during dose escalation

### Two partial responses and one mixed response observed in Hodgkin Lymphoma patients

- Five Hodgkin Lymphoma patients from DL3, DL5 and DL6 had at least one post-baseline tumor assessment
  - Male/female: 3/2
  - Median age: 36 (33-54) years
  - Four (80%) patients received ≥3 prior lines of antitumor treatment
- Two PRs per Lugano 2014 and one mixed response\* observed among the five Hodgkin Lymphoma patients

# **Best Changes in Index Tumor Dimensions**

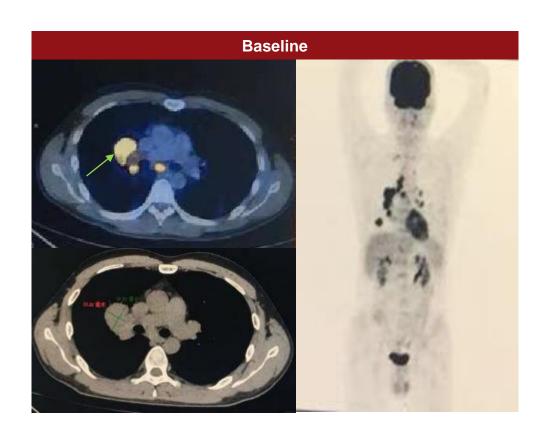


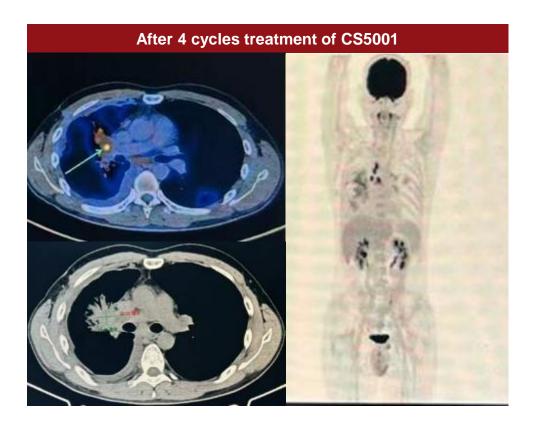
<sup>\*</sup> Mixed response (coexistence of responding and non-responding lesions) was observed for this patient in the first tumor assessment. The patient continued to received CS5001 after disease progression as a potential clinical benefit was derived. This patient had two intra-subject dose escalation with DL6 as the highest dose.

<sup>\*\*</sup> The reduction of SPD based CT didn't reach 50%, however, PET based response was PMR for this patient, resulting in the overall response of PR

# Patient 0104003: 33-year-old (y/o) male, Stage IV Hodgkin Lymphoma

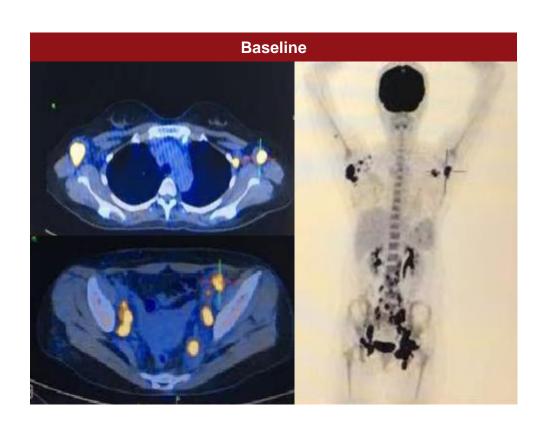
- ✓ The patient's disease relapsed following two prior lines of chemotherapies, which included ABVD and RCHOP.
- ✓ After receiving 4 cycles of CS5001 treatment, a **partial response** was observed per Lugano 2014.

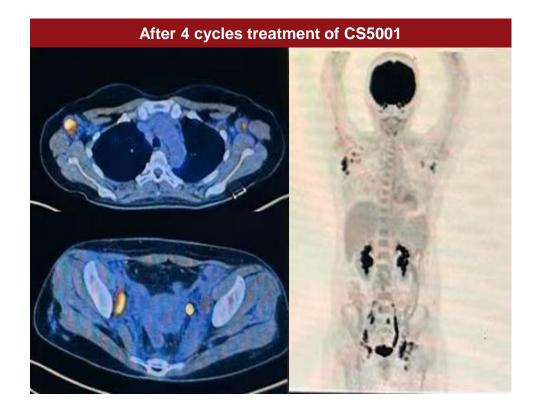




# Patient 0104002: 34 y/o female, Stage IV Hodgkin Lymphoma

- The patient had a refractory disease following five prior lines of therapies, which included ABVD, GVD, Sintilimab+Decitabine, ICE+Sintilimab, and IBI-322.
- Following 4 cycles of CS5001 treatment, a partial response was observed per Lugano 2014

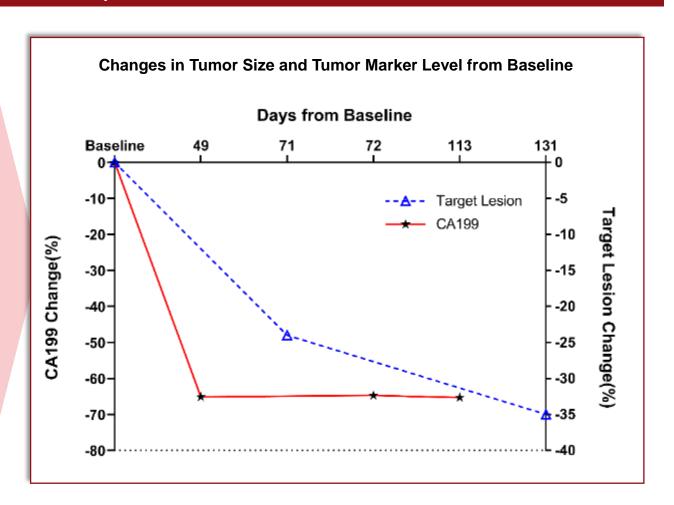




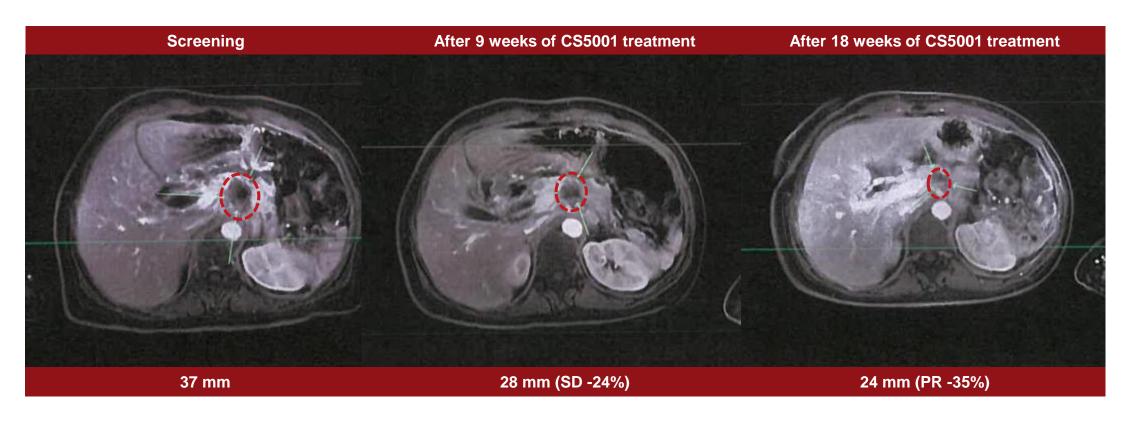
## Preliminary efficacy observed in Pancreatic Adenocarcinoma during dose escalation

### One partial response observed in pancreatic adenocarcinoma

- 52 y/o Jordanian female with advanced pancreas adenocarcinoma treated at Scientia Clinical Research. Australia
- Prior Therapies: Two NTRK inhibitors with the best response being stable disease
- Tumor Biomarker: At Week 6, tumor biomarker CA199 decreased by 65%, and maintained at a low level thereafter.
- Treatment Response: At Week 18, a partial response was observed per RECIST v1.1



# Patient 0201010: 52 y/o female with advanced pancreatic adenocarcinoma



- 52 y/o female with advanced pancreatic adenocarcinoma
- Baseline MRI: target lesion pancreatic surgical bed soft tissue mass with a longest diameter of 37 mm
- After 9 weeks of CS5001 treatment, the longest diameter of target lesion reduced to 28 mm (24% reduction), the overall response is SD
- After 18 weeks of CS5001 treatment, the longest diameter of target lesion reduced to 24 mm (35% reduction), the overall response is PR

# **Summary**

- CS5001, a novel ROR1-directed PBD-ADC, appears well tolerated and safe in the first-inhuman phase 1 study
- No DLT was observed and MTD was not reached
- Lower toxicities were observed comparing to other relevant ADCs
- CS5001 demonstrated preliminary antitumor activities in both solid tumor and lymphoma
- PK data suggested a dose-proportional exposure and excellent stability of the linker
- Enrolment in the dose escalation portion is ongoing, with continued evaluation of tolerability and efficacy in both solid tumors and lymphomas

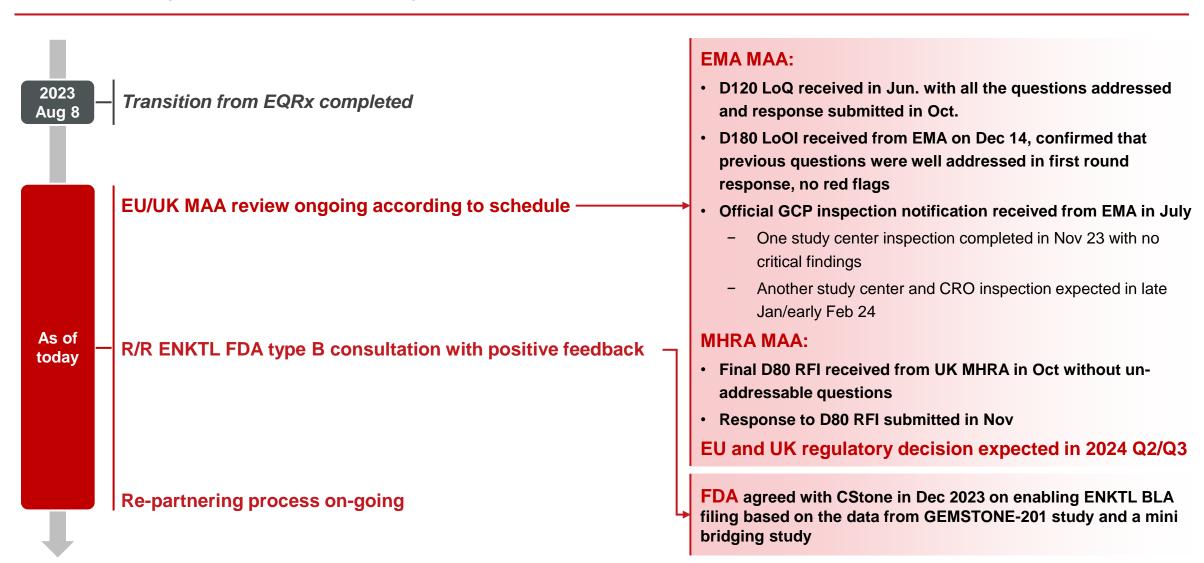
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# **Sugemalimab – Ex-China Progress**

EU/UK MAA regulatory review proceeding as expected; positive feedback from FDA type B consultation



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# **Commercialization Strategy**

Leverage the strength of partners in commercialization to maximize the value of commercial / late-stage pipeline



- RMB60 million upfront
- Regulatory and sales-based milestones and tiered sales royalties
- · CStone retains the rights to nofazinlimab outside mainland China and is actively looking for partners



- Sizable upfront
- CStone to book revenue and Allist to charge service fee

3

CStone retains the rights besides commercial promotion in mainland China

Benefits for CStone

The right partner with commercial synergy and efficiency

2 Improved profit margin with commercial cost savings from 2024

Replenish cash position to fuel further R&D

# Internally-developed multiple pipeline assets for future growth

### Tri-specific antibody

### **CS2009**

(PD-1 x VEGF x another IO target)



- ✓ Potential FIC next-generation IO backbone to replace current PD-(L)1 based SOC
- ✓ Target 3 critical immune-suppressive pathways in the tumor microenvironment
- ✓ May deepen response of a PD(L)1-based therapy in large tumor types including NSCLC and HCC

### **ADCs**

### CS5005

**Expect IND in 2024/25** 

- ✓ Potential FIC ADC for multiple solid tumors
- ✓ Lead ADC candidate molecule shows better therapeutic window compared to control drug (a) peptide-coupled drug)

# **CS5006**

**Expect IND in 2024/25** 

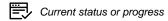
- ✓ Global FIC, machine learning multi-omics algorithm discovered novel tumor-associated antigens, express in multiple tumor types
- ✓ Novel clinical PoC topoisomerase I inhibitor toxin, stable hydrophilic linker (DAR8)

### Other programs



Under exploration

Bi/tri-specific antibodies and bi-specific ADCs



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# **Expected Catalysts for the Next 12 Months**

Assets			Catalysts	Date
Sugemalimab (PD-L1)	Marketed	*	Regulatory decision for 1L stage IV NSCLC in EU and ex-China partnership exploration	1H 2024
		*	Regulatory decision for 1L stage IV NSCLC in UK	2H 2024
			NDA approval for 1L GC/GEJ in mainland China	Q1 2024
Lorlatinib (ROS1)	In pivotal trial		Topline readout and supplemental NDA filing for ROS1-positive NSCLC in mainland China	2024
Nofazinlimab (PD-1)	In pivotal trial	*	Topline readout in 1L HCC (in combination with lenvatinib) and ex-China partnership exploration	Q1 2024
CS5001(ROR1 ADC)	In Ph1 trial		Update on clinical safety and efficacy	By the end of 2023
		*	Conference presentation on Ph1 data and partnership exploration	1H 2024
		*	Initiation of Ph1b/2 trial with registration potential	2024

Other potential catalysts

**Ex-China partnerships for other assets with global rights** 

IND of pre-clinical assets with BIC / FIC potential

