Passion for Innovation. Compassion for Patients.™



Learn about Daiichi Sankyo Pipelines Hosted by JP Morgan

Kazushi Araki Group Leader, Oncology Clinical Development Department

June 21, 2019

Forward-Looking Statements



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Today's Contents



Daiichi Sankyo's ADC

- Feature 1: High Drug-Antibody Ratio (DAR)
- Feature 2: High stability linker
- Feature 3: Selectively cleaved linker
- Feature 4: Unique and potent payload
- Feature 5: Bystander effect
- Feature 6: Short systemic half-life payload
- About ADC Projects
 - DS-8201, U3-1402, DS-1062

Other Oncology Projects

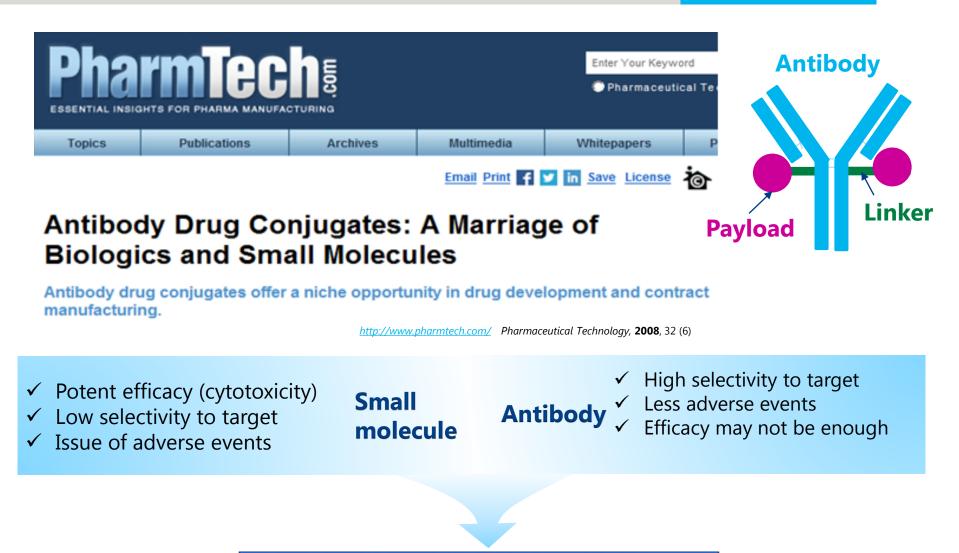


Antibody Drug Conjugate (ADC)



ADC: Marriage of Biologics and Small Molecules





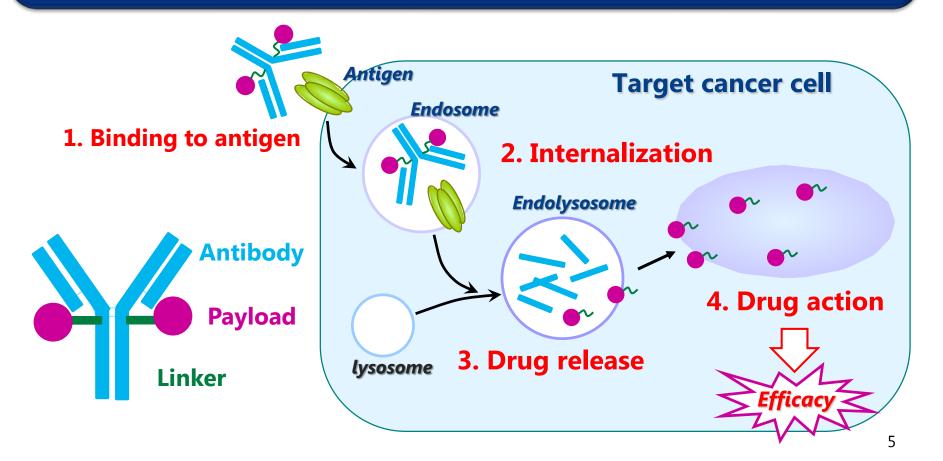
Antibody Drug Conjugate; ADC

Strength and weakness of low molecule drug and antibody drug are well complemented

MOA of ADC

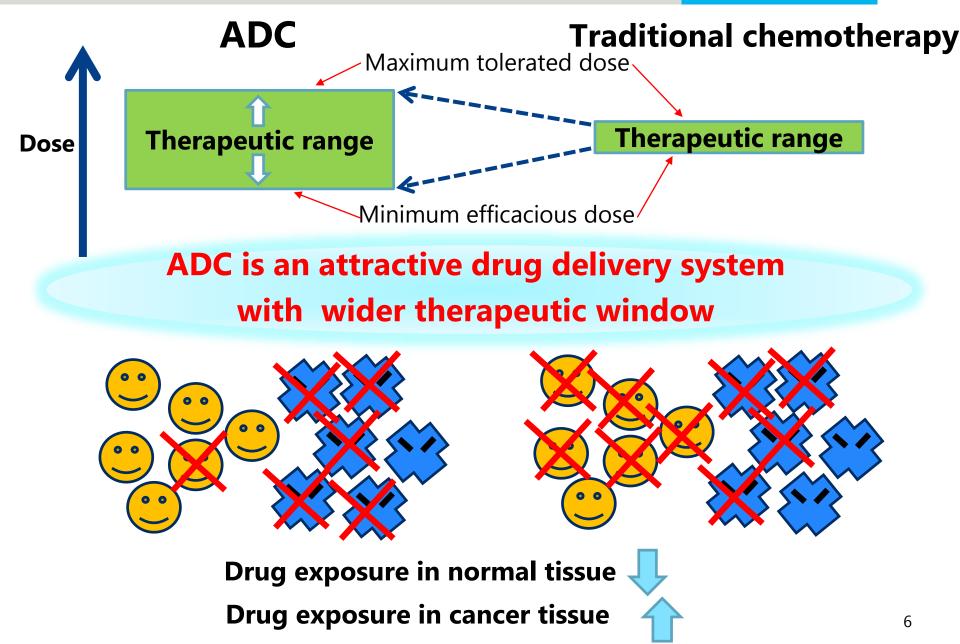


- 1. ADC bind to antigen on cancer cell surface
- 2. Internalization (take in ADC into cancer cell)
- 3. Linker cleaved in cell and release payload (drug)
- 4. Release payload shows efficacy



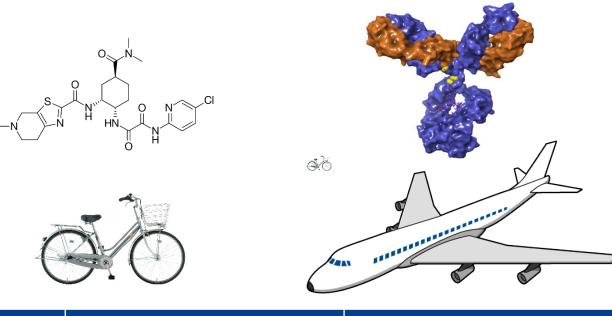
Difference between ADC and Traditional Chemotherapy





ADC: Needs Expertize of Low Molecule and Antibody Drugs





	Low Molecule Drug	Antibody Drug
Molecular weight (size)	Hundreds (small)	About 150,000 (big)
Form	Simple	Complicated
Manufacturing methods	Chemical synthesis	Cell culture
Cost	Low	High

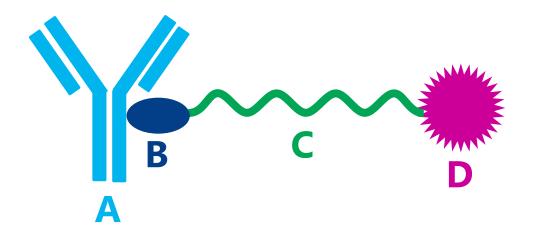
R&D and manufacturing methods vary widely

Each needs to improve one's expertise and optimize processes

Development of ADC technology requires high specialties of both

Component and Requirement of ADC





A: Antibody

- Target antigen which selectively and highly expressed on tumor
- Internalization to target cell with antigen

C: Linker

• Stable until releasing drug

B: Attachment site

- Drug-linker can be attached
- Typically cysteine or lysine residues on antibodies

D: Payload (drug)

- Extremely potent anti-tumor activity
- Availability of linker binding site

ADC of Today and Challenges

- Launched: only 4 products
 - Kadcyla[®]: anti-HER2 antibody (trastuzumab) +DM1*, breast cancer
- Adcetris[®]:anti-CD30 antibody+MMAE*, Hodgkin lymphoma
- Mylotarg[®]: anti-CD33 antibody+Calicheamicin*, AML
- Besponsa[®] : anti-CD22 antibody +Calicheamicin*, AML

*DM1, MMAE: microtubule inhibitor Calicheamicin: DNA cleavage agents

9

Free payloads in blood causes toxicity and also decrease of efficacy occurs by lowered concentration of ADC in blood Payload

 \triangleright

✓ Most payloads are microtubule inhibitors

Anticipated improvements

Limited drug antibody ratio

Instability of linker

✓ No treatment is available for patients who failed/tolerant to recent ADCs

Average drug antibody ratio (DAR) is limited to 2-4 and thus limitation in efficacy





For Injection



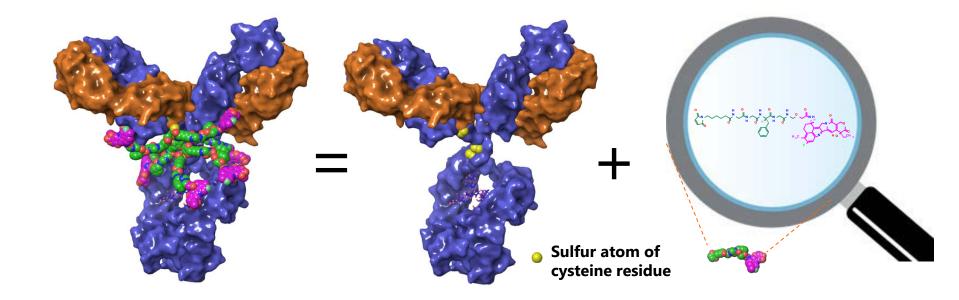
DS ADC Technology Overcoming Challenges



Daiichi Sankyo ADC Structure



<u>ADC = Antibody + Drug-linker</u>



ADC	Antibody(IgG)	Drug-linker
Molecular weight :	Molecular weight :	Molecular weight :
ca. 156,000	ca. 148,000	ca. 1,000

DS ADC: Improved Current Challenges



Previous Generation ADC

Limited DAR DAR 2-4

Instability of linker

Free payloads in blood causes toxicity and also decrease of efficacy occurs by lowered concentration of ADC in blood

Payload

- Most payloads are microtubule inhibitors
- No treatment is available for patients who failed/tolerant to recent ADCs

Daiichi Sankyo ADC Technology

Feature 1: High DAR

DAR is 2-4 times higher than current ADC

Feature 2: High stability linker

 Sparing non-cancerous tissue from toxicity by non-cleavable linker

Feature 3: Selectively cleaved linker

Cancer-cell selective cleaved linker and release payload

Feature 4: Unique and potent payload

DNA topoisomerase I inhibitor

Feature 5: Bystander effect

 Effective in heterogeneous tumor microenvironment

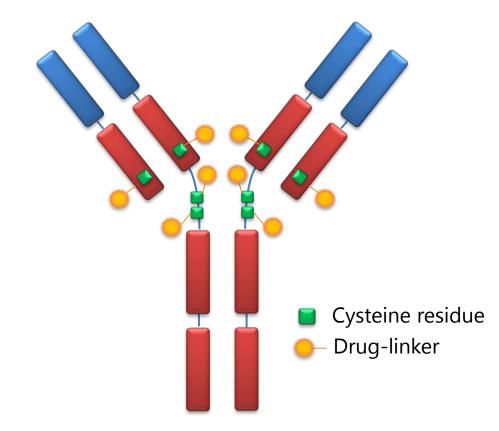
Feature 6: Short systemic half-life

 If payload is released, it clear rapidly due to short half-life

Feature 1: High DAR



One antibody can load 7-8 payload = 2-4 times as much as current ADC



Feature 1: High Drug-to-Antibody Ration (DAR)

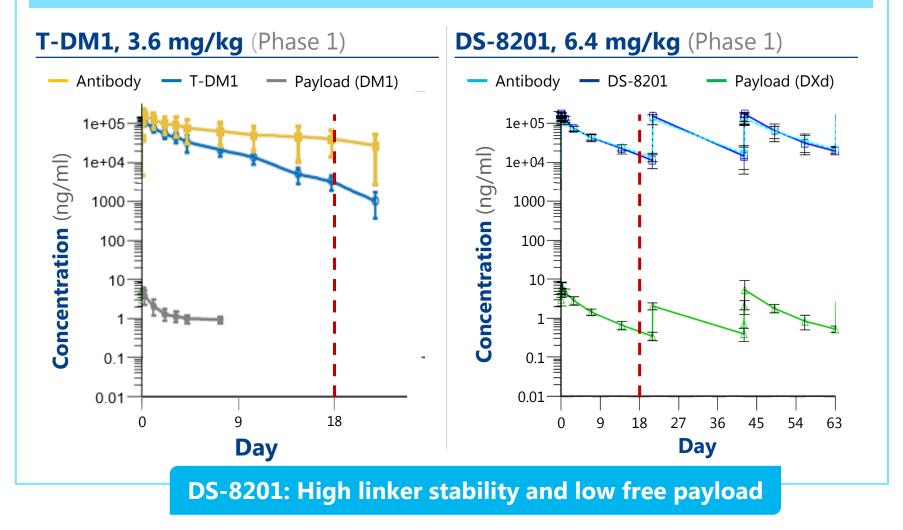


	T-DM1	DS-8201
Antibody	Trastuzumab	Anti-HER2 Ab
Payload	Tubulin inhibitor (DM1)	DNA Topoisomerase I inhibitor (DXd)
DAR	3.5 Interview of the second se	7-8 An Interview of the second

Feature 2: High Stability Linker

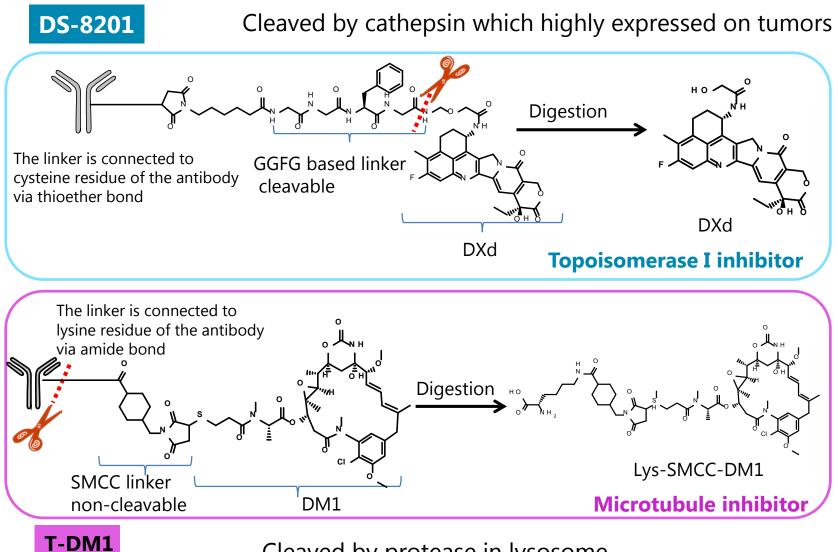


Pharmacokinetics profile



Feature 3: Selectively Cleaved Linker





Cleaved by protease in lysosome

Feature 4: Novel MOA and Potent Payload



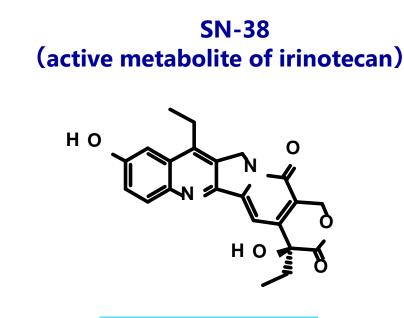
	T-DM1	DS-8201a	SYD-985	XMT-1522	MEDI4276
Company	Genentech	Daiichi Sankyo	Synthon	Mersana	Medimmune
Payload	DM1	DXd	Duocarmicine	AF-HPA	Tubulysin
MOA	Tubulin	Topoisomerase I	DNA alkylator	Tubulin	Tubulin
Linker	Undissociated	Dissociated	Dissociated	Dissociated	Dissociated
Attachment site	Lysine residue	Cysteine residue	Cysteine residue	Cysteine residue	Engineered cysteine
Drug-to- antibody ratio (average)	3.5	7-8	2	12-15	4
Human Dose (Ph1)	3.6mg/kg*	6.4mg/kg	1.2mg/kg**	0.765mg/kg***	NA

*Yamamoto-H, Jpn J Clin Oncol. 2015 Jan;45(1):12-8 **Aftimos-PG, SABCS, 2016 ***Buris-HA, Mersana homepage TPS2606

Feature 4: Novel MOA and Potent Payload



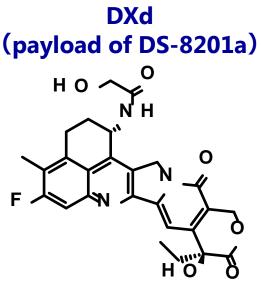
Novel topoisomerase I inhibitor, DXd
 DXd has 10 times more potent effect than irinotecan



Τορο Ι ΙC₅₀: 2.78 μΜ

About 1/10 amount is enough for efficacy

TOPO I IC₅₀: concentration which inhibit 50% of topoisomerase I enzyme

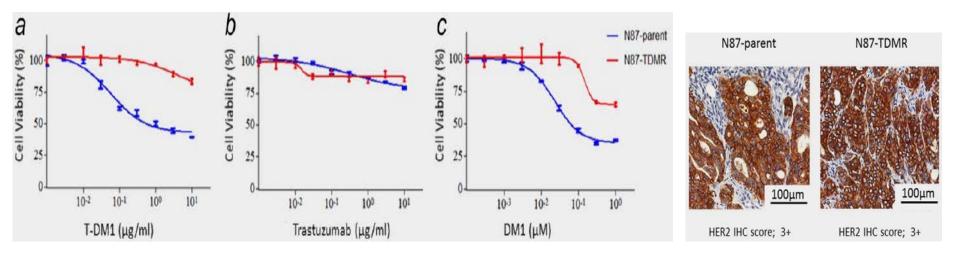


Τορο Ι ΙC₅₀: 0.31 μΜ

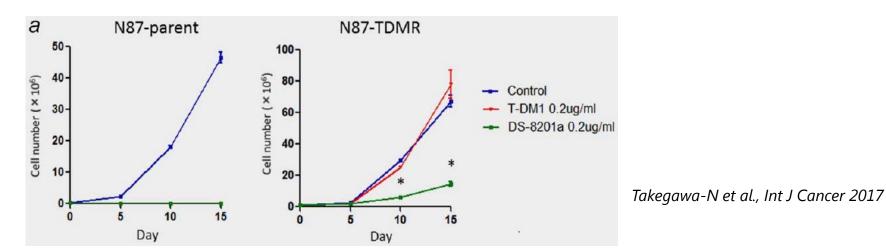
Feature 4: Unique and Potent Payload



T-DM1 resistant cell (N87-TDMR) has HER2 expression but low sensitivity to free payload, DM-1



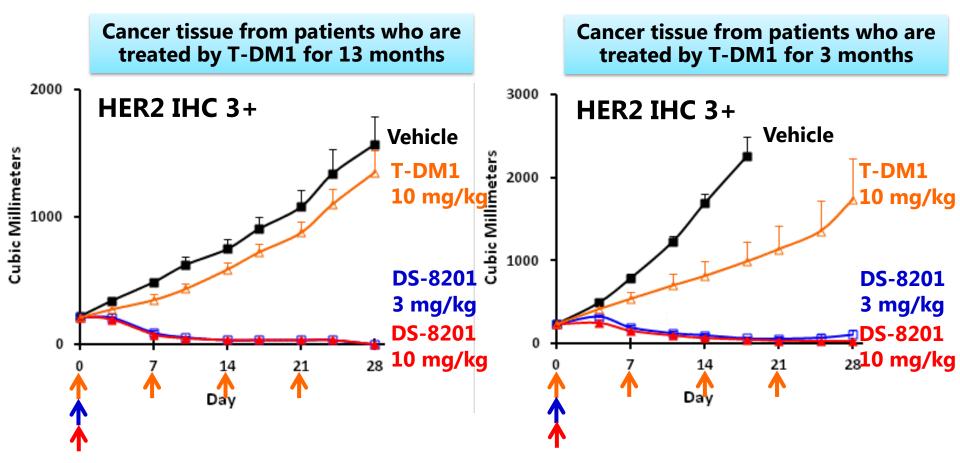
MOA of DS-8201 payload is different and therefore has superior efficacy to N87-TDMR



Feature 4: Unique and Potent Payload



T-DM1 treated patient's cancer tissue xenograft model



Source: Tamura-K et al., abstract 4585 (LBA17), ESMO 2016

Remarkable efficacy of DS-8201 was seen in T-DM1 resistant or low-resonse cancer patient-derived xenograft model

Doi-T et al., abstract 108, ASCO 2017

Feature 5: Bystander Effect

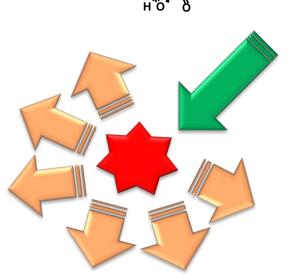
Released drug is designed to have high cell membrane cross-penetration

Heterogeneity of IHC staining in gastric cancer All cases classify into HER2 score 3+

Cancer tissues are group of heterogeneity Target expression is sometimes uneven

cells and have anti-cancerous effect Effective in heterogeneous tumor microenvironment

Free payloads penetrate to neighbor cancer





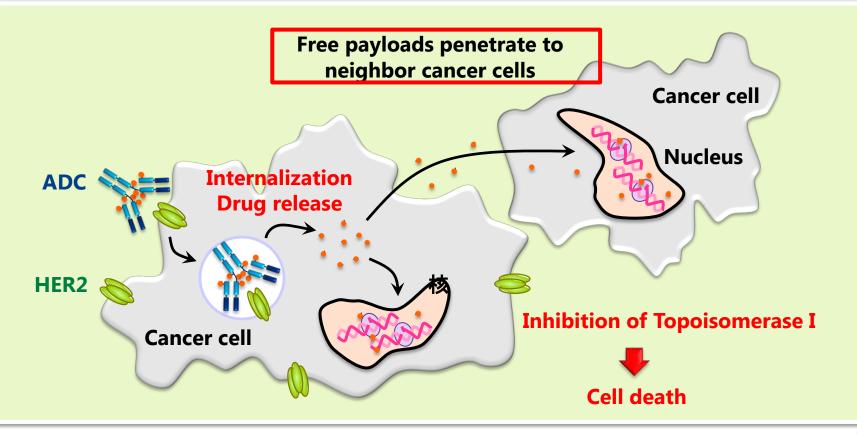
Feature 5: Bystander Effect



Bystander effect of ADC:

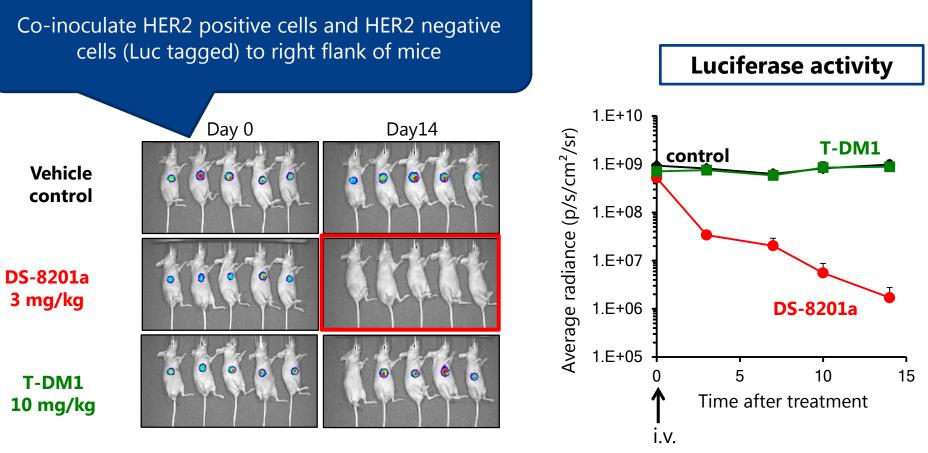
Released payloads in cancer cells penetrate the cell membrane and show activity on neighboring dividing cancer cells.

Through this effect, activity against target antigen-negative cancer cells, in other words, activity against tumors with antigen heterogeneity is observed



Feature 5: Bystander Effect in vivo Study





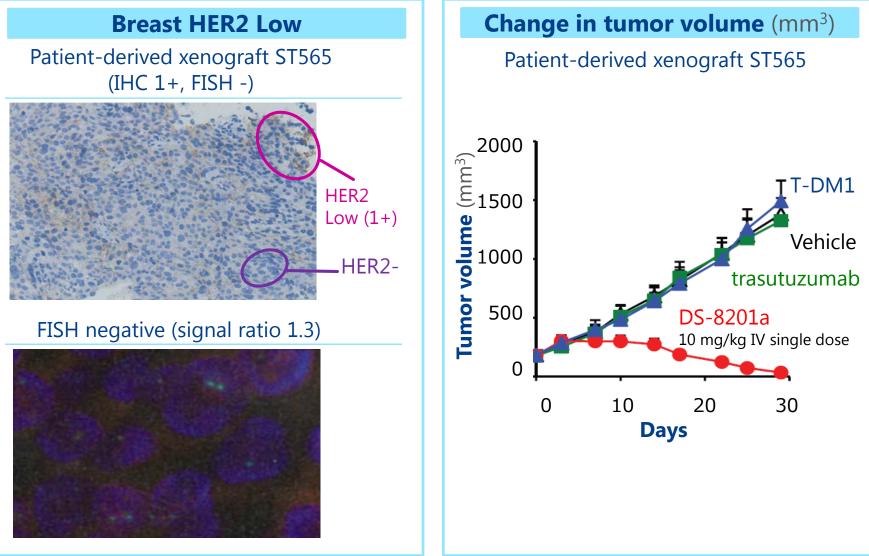
Ogitani-Y et al., Clin Cancer Res 2016; 22:5097

DS-8201a treatment clearly decreased luciferase signal
 Luc-gene transfected HER2-negative cells was eliminated

Feature 5: Bystander Effect



DS-8201 bystander effect on Low HER2 (non-clin study)



Source: Ogitani-Y et al., Clin. Cancer Res. 2016; 22:5097-5108

Feature 6: Short Systemic Half-Life



- High concentration of free payload in blood is one of the reason of adverse events
 - Released payload is designed to be excreted immediately which results in lowering occurrence of adverse events

Payload	T _{1/2} in Rat (hour)
DXd* (payload of DXd-ADC)	0.9
DM1** (payload of T-DM1)	3.3-10
MMAE*** (payload of Adcetris)	5.7-11

* In-house report ** KADCYLA BLA *** ADCETRIS BLA

DS ADC: Improved Current Challenges



Previous Generation ADC

Limited DAR

- DAR 2-4
- Instability of linker
 - Free payloads in blood causes toxicity and also decrease of efficacy occurs by lowered concentration of ADC in blood

Payload

- Most payloads are microtubule inhibitors
- No treatment is available for patients who failed/tolerant to recent ADCs

Daiichi Sankyo ADC Technology

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DAR is 2-4 times higher than current ADC

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 Sparing non-cancerous tissue from toxicity by non-cleavable linker

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- Cancer-cell selective cleaved linker and release payload
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- Feature 6: Short systemic half-life
 - If payload is released, it clear rapidly due to short half-life

Daiichi Sankyo ADC Franchise



		AD	C Franchise			
						Clinical stage
.	Project (Target)	Target Indications	Discovery	Pre-Clinical	P1	Pivotal
1	DS-8201 (HER2)	Breast, Gastric, CRC, NSCLC				
2	U3-1402 (HER3)	Breast, NSCLC				
3	DS-1062 (TROP2)	NSCLC				
4	DS-7300 (B7-H3)	Solid tumors				
5	DS-6157 (GPR20)	GIST				
6	DS-6000 (undisclosed)	Renal, Ovarian				
7	(TA-MUC1)	Solid tumors				

CRC: colorectal cancer, NSCLC: non-small cell lung cancer, GIST: gastrointestinal stromal tumor





DS-8201

DS-8201: Study Plan

As of April 2019



FY2018	FY2019	FY2020	FY2021	FY2022
P1				
HER2 positive bre	east post T-DM1 vs. phys			
HER2	positive breast vs	T-DM1 P3	DESTINY-Breast03	
	HER2 low brea	st P3	DESTINY-Breast04	
	HE	R2 expressing gas	tric 2 nd line vs SOC	P3(JP/Asia)
	HER2 express	sing gastric P2 (US/I	U)	
Colo	rectal P2			
Non-small	cell lung cancer P2	2		
Br	east/bladder with	nivolumab P1b		
		Breast/NSCLC v	with pembrolizuma	b P1b
		Solid tumo	r with avelumab P1	lb
		Solid	tumor with TKI P1	b 29
	P1 HER2 positive breast post T-DM1 pivotal P HER2 positive breast HER2 positive breast HER2 positive breast HER2 positive breast Colo Non-small	P1 HER2 positive breast post T-DM1 pivotal P2 HER2 positive breast post T-DM1 vs. phys HER2 positive breast vs HER2 low breast HER2 expressing gastric 3 rd line vs phys choice pivotal P2 (JP/Asia) HER2 express Colorectal P2 Non-small cell lung cancer P2	P1 HER2 positive breast post T-DM1 pivotal P2 HER2 positive breast post T-DM1 vs. phys choice P3 HER2 positive breast vs T-DM1 P3 HER2 low breast P3 HER2 expressing gastric 3 rd line vs phys choice pivotal P2 (JP/Asia) HER2 expressing gastric P2 (US/R Colorectal P2 Non-small cell lung cancer P2 Breast/bladder with nivolumab P1b Breast/NSCLC v Solid tumo	P1 HER2 positive breast post T-DM1 pivotal P2 HER2 positive breast post T-DM1 vs. phys choice P3 HER2 positive breast vs T-DM1 P3 HER2 low breast P3 HER2 expressing gastric 3 rd line vs phys choice pivotal P2 (JP/Asia) HER2 expressing gastric 2 nd line vs SOC HER2 expressing gastric P2 (US/EU) Colorectal P2 Non-small cell lung cancer P2

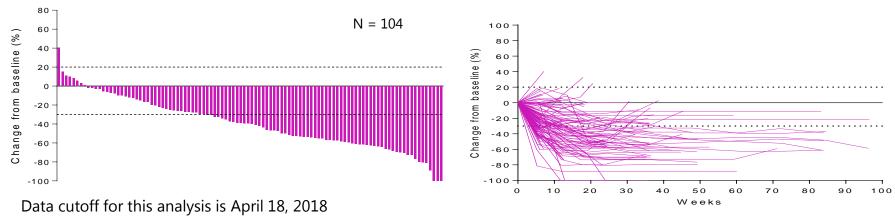
Explanation of Terms



CR (complete response)	Cancer disappears completely
PR (partial response)	The size of the cancer has shrunk by more than 30% and lasted for more than 4 weeks
ORR (overall response rate)	Percentage of patients who had a therapeutic effect. Expressed by the sum of CR and PR
DCR (disease control rate)	Percentage of patients whose symptoms are controlled
DOR (duration of response)	Duration of effect lasting
PFS (progression-free survival)	Period of survival without cancer progression
PD (progressive disease)	Cancer progression
SD (stable disease)	Size (long diameter) of the cancer has not changed substantially before and after treatment

DS-8201: P1 Study HER2 Positive Breast Cancer



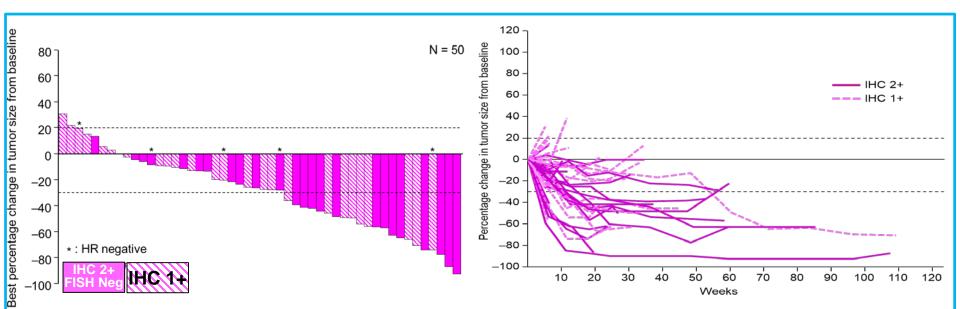


Iwata et al, ASCO2018 Presentation

	Confirmed ORR		DOR, median		S
	(n/N) (95% CI)	DCR % (n/N) (95% CI), month		Median, (95% CI)	Min, max
HER2 positive breast cancer N=114	59.5% (66/111) (49.7, 68.7)	93.7% (104/111)	20.7 (NE)	22.1ヶ月 (NE)	0.8, 27.9

NE: not estimable Lancet Oncology, April 29, 2019

DS-8201: P1 Study HER2 Low Breast Cancer



Dotted lines denote 30% decrease and 20% increase in tumor size cutoffs for partial response and progressive disease, respectively. HR, hormone receptor; IHC, immunohistochemistry.

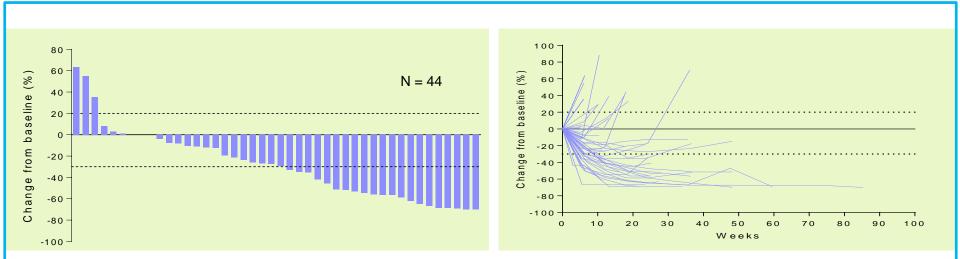
	Confirmed ORR, n/N (%)	Confirmed DCR, n/N (%)	Duration of Response, median (range), mo	PFS, median (95% CI), mo
All (N = 51)	19/43 (44.2)	34/43 (79.1)	9.4 (1.5+, 23.6+)	7.6 (4.9, 13.7)
Subgroups				
IHC 1+ (n = 27)	7/21 (33.3)	14/21 (66.7)	7.9 (2.1+, 11.3)	5.7 (1.4, 7.9)
IHC 2+ (n = 24)	12/22 (54.5)	20/22 (90.9)	11.0 (1.5+, 23.6+)	13.6 (NA)
HR+ (n = 45)	18/38 (47.4)	31/38 (81.6)	11.0 (1.5+, 23.6+)	7.9 (4.4, 13.7)
Prior CDK4/6 inhibitor (n = 15)	4/12 (33.3)	9/12 (75.0)	NR	7.1 (NA)

SABCS DEC 2018 Modi et al, SABCS, 2018; Poster # P6-17-02, Abstract #486

Daiichi-Sankyo

DS-8201: P1 Study HER2 Positive Gastric Cancer





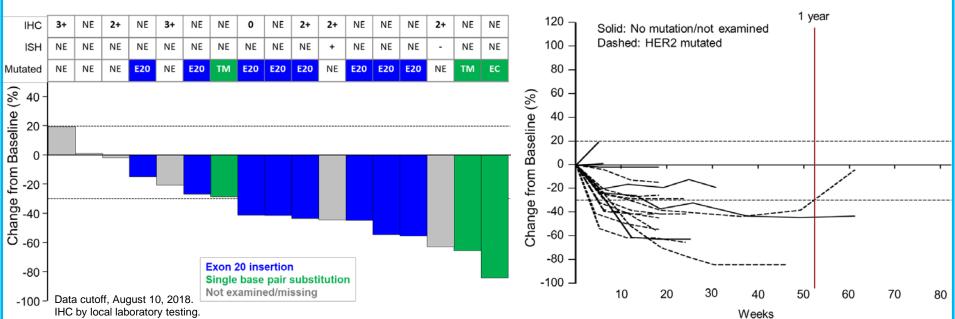
Includes subjects who had ≥1 postbaseline scan. Dotted lines denote 20% increase and 30% reduction in tumor size, respectively.

*Confirmed response includes subjects who had ≥2 postbaseline scans, progressive disease, or discontinued treatment for any reason prior to second postbaseline scan. Data cutoff is April 18, 2018.

	Confirmed ORR	DCR % (n/N)	DOR, Median	PF	S
	(n/N) (95% CI)	DCK % (II/N)	(95% CI), months	Median, (95% CI)	Min, max
HER2 Positive Gastric Cancer N = 44	43.2% (19/44) (28.3, 59.0)	79.5% (35/44)	7.0 (NA)	5.6 months (3.0, 8.3)	1.2, 19.6+

DS-8201: P1 Study HER2 Mutated or Expressing NSCLC



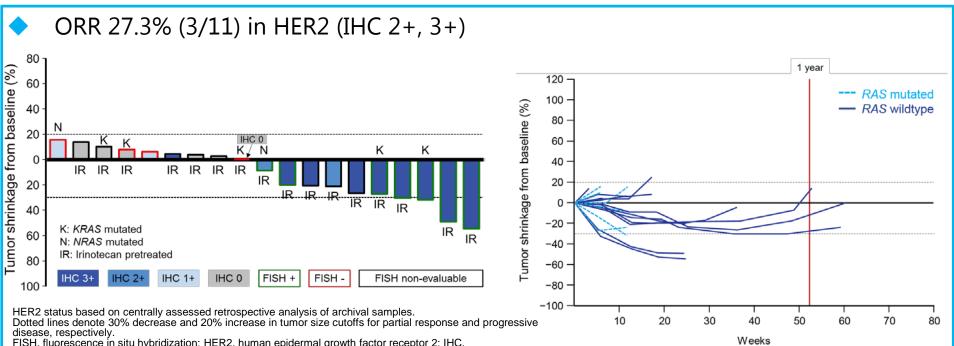


E20, exon 20 insertion; EC, single base pair substitution at extracellular domain; IHC, immunohistochemistry; ISH, in situ hybridization; NSCLC, non-small cell lung cancer; NE, not examined or missing; TM, single base pair substitution in transmembrane domain.

	Comfirmed	Comfirmed DCR, %	DOR, median	PFS, median
	ORR, % (n/N)	(n/N)	(range), months	(range), months
HER2-expressing or HER2-mutated NSCLC N = 18	58.8% (10/17)	88.2% (15/17)	9.9 (0.0+, 11.5)	14.1 (0.9, 14.1)
HER2-mutated NSCLC $N = 11$	72.7%	100%	11.5	14.1
	(8/11)	(11/11)	(0.03+, 11.5)	(4.0+, 14.1)

DS-8201: P1 Study CRC by HER2 Status IHC/FISH





FISH, fluorescence in situ hybridization; HER2, human epidermal growth factor receptor 2; IHC, immunohistochemistry; IR, irinotecan pretreated; K, KRAS mutation; N, NRAS mutation.

	Confirmed ORR, % (n/N)	Confirmed DCR, % (n/N)	DOR, median (range), months		OS, median (range), months
CRC	15.8%	84.2%	NR	3.9	NR
N=19*	(3/19)	(16/19)	(0.0+, 5.5+)	(2.1,8.3)	(1.0+, 17.9+)

* Evaluable patients (one IHC 0 patient was not evaluable out of 20 enrolled)

HER2 mBreast Cancer Post T-DM1 Submissions Plan



Preparation for BLA/NDA submissions is progressing to plan



BLA submission 1H FY2019

Estimated Review Period: 6M after acceptance of the application by FDA



Fast-track status



Breakthrough therapy designation



NDA submission 2H FY2019

Estimated Review Period: Maximum 12M after application



MAA submission 1H FY2020

Estimated Review Period: 12M after application

HER2 Gastric Cancer Submission Plan



Preparation for JNDA submission is progressing steadily



NDA submission 1H FY2020

Estimated Review Period: **6M** after application



SAKIGAKE designation

DS-8201: P1 Study The Lancet Oncology Breast Cancer



	Pertuzumab + trastuzumab + docetaxel (1L) ¹	T-DM1 (1L, failed study) ²	T-DM1 (2L) ³	T-DM1 (3L+) ⁴	DS-8201 ⁵
mPFS	18.5m	14.1m	9.6m	6.2m	22.1m
DoR	20.2m	20.7m	12.6m	9.7m	20.7m
OS	56.5m	53.7m	30.9m	22.7m	NR
ORR	80%	60%	43.6%	31%	59.5%
Median prior Rx for adv. disease	0	0	1	4	7 100% prior T-DM1 88% prior pertuzumab

¹CLEOPATRA (NEJM 2012), ²MARIANNE (J Clin Oncol 2017), ³EMILIA (NEJM 2012), ⁴TH3RESA (Lancet Oncol 2017), ⁵Lancet Oncology, April 29, 2019, m: Month, NR:Not Reached



	Trastuzumab + chemo (1L) ¹	Ramucirumab + chemo (2L) ²	T-DM1 (failed study; 3+L) ³	DS-8201 ⁴
mPFS	6.7m	4.4m	2.7m	5.6m
DoR	6.9m	4.4m	4.3m	7.0m
OS	13.8m	9.6m	7.9m	12.8m
ORR	47%	28%	21%	43.2%
Median prior LoT ⁵	0	1	1	3

¹ToGA (Lancet 2010), ²RAINBOW (Lancet Oncol. 2014), ³GATSBY (Lancet Oncol. 2017), ⁴Lancet Oncology, published April 29, 2019 m: Month, ⁵Line of Therapy

DS-8201: Safety Interstitial Lung Disease (ILD)



Investigator-Reported and Adjudicated Cases of ILD

Median duration of treatment 108 days; 29.5% subjects on treatment for \geq 180 days

Population	Adjudication status	1	2	3	4	5	Total
All subjects	Investigator reported, n (%)	30 (4.5)	23 (3.5)	6 (0.9)	2 (0.3)	5 (0.8)	66 (9.9)
All doses,	Cases adjudicated, n	16	13	4	0	5	38
N = 665	Adjudicated as drug-related ILD, n	11	12	3	0	4	30

Median time to onset of ILD 149 days

Data cutoff: October 15, 2018

- March 2018: ILD recognized as DS-8201 risk: key actions implemented
 - Proactive awareness of subjects thru consent, to report signs or symptoms of possible ILD
 - Active training of investigational sites on monitoring for, evaluation and treatment of suspected ILD cases

Spring 2019: Proactive "Safe Use Campaign"

"DS-8201: have you screened for and mitigated against ILD today?"





U3-1402

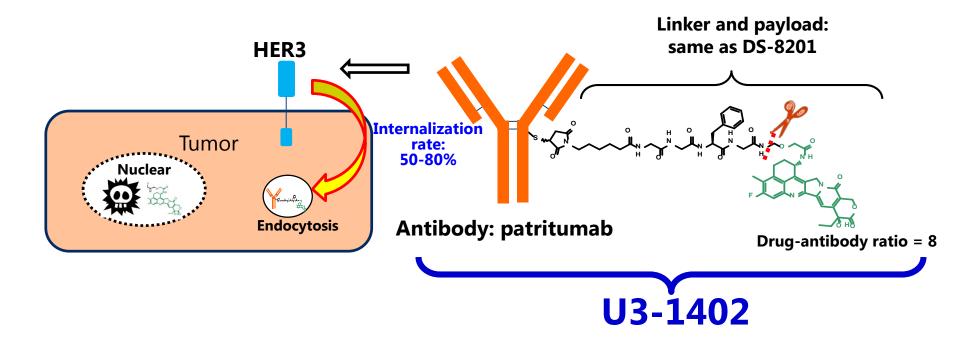
U3-1402: HER3 Targeted ADC





Highly-internalized ADC:

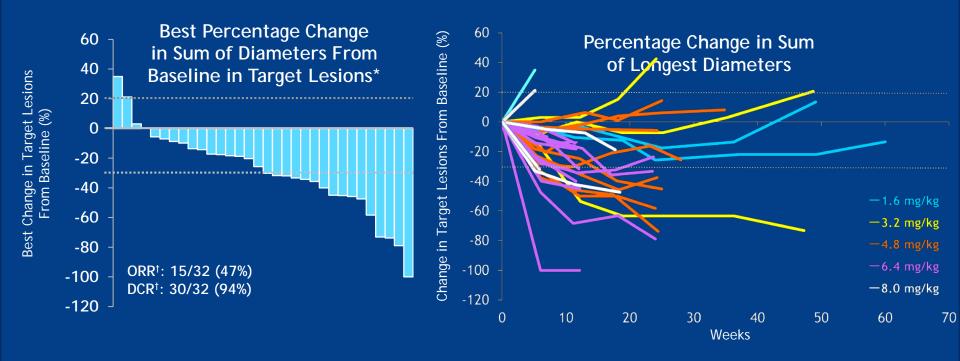
Patritumab (anti-HER3 mAb) armed with topoisomerase I inhibitor, to target HER3 expressing tumors



Potential first-in-class drug



ClinicalTrials.gov Identifier: NCT02980341



Potential against HER3-positive, advanced/unresectable, or metastatic breast cancer

*Analysis set: Efficacy-evaluable patients with at least 1 scan.

Baseline is defined as the last measurement taken before the first dose of study drug.

[†]Investigator assessment. For each patient, the best percentage change from baseline in the sum of diameters for all target lesions is represented by a vertical bar.

DCR = disease control rate; ORR = objective response rate.

Safety Summary of Patients Treated with U3-1402

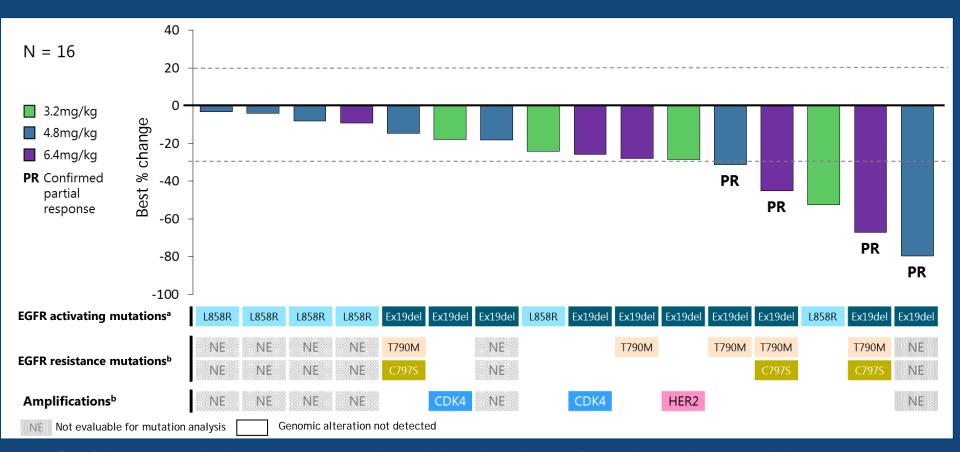
Median duration of exposure was 105 days (range: 21–336)

Summary	Dose escalation, n (%) (N = 23) ^a			
TEAEs regardless of causality	23 (100.0)			
Drug-related	22 (95.7)			
Treatment-emergent SAEs regardless of causality	6 (26.1)			
Drug-related	3 (13.0)			
TEAEs leading to drug withdrawal/discontinuation	1 (4.3)			
TEAEs leading to dose reduction	7 (30.4)			
TEAEs leading to dose interruption	6 (26.1)			
TEAEs leading to death	0			

Data cutoff date of February 25, 2019. ^a Safety analysis set included all patients who received ≥1 dose of U3-1402. SAE, serious adverse event; TEAE, treatment-emergent adverse event.

Source: Jänne-P et al., Abstract #9010, ASCO 2019

U3-1402 Antitumor Activity Across Diverse EGFR-TKI Resistance Mechanisms

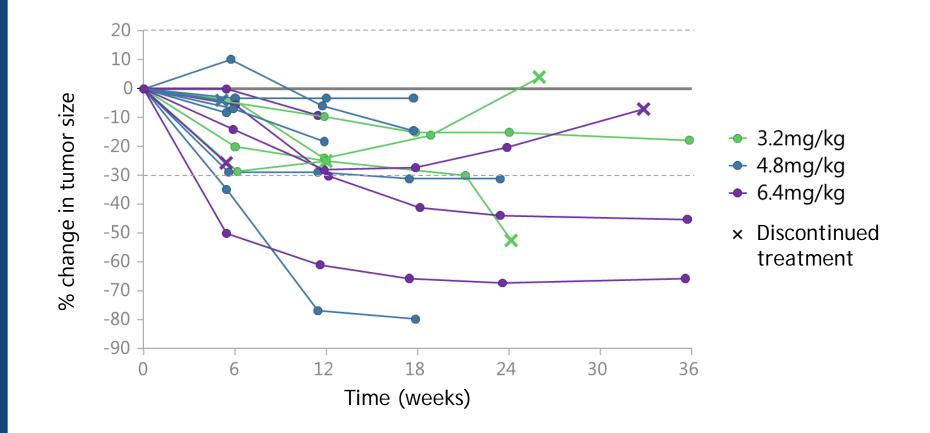


Data cutoff date of February 25, 2019. Dotted lines denote 20% increase and 30% decrease in tumor size. Sixteen patients received ≥1 dose of U3-1402 and had pre- and post-treatment evaluable tumor assessments. ^aLocal testing as reported by the investigator. ^bPerformed centrally using Oncomine Comprehensive assay v3 from formalin-fixed, paraffin-embedded tumor tissue.

Source: Jänne-P et al., Abstract #9010, ASCO 2019

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U3-1402 Antitumor Activity Over Time

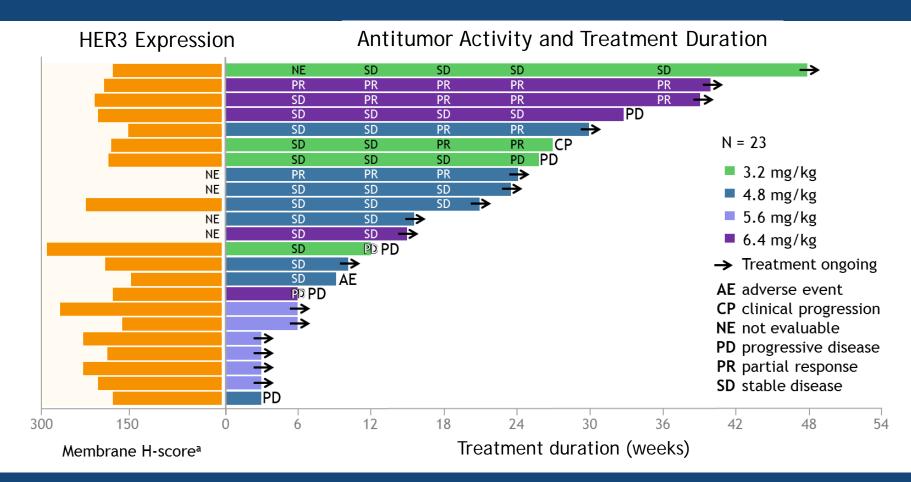


Data cutoff date of February 25, 2019. Sixteen patients received ≥1 dose of U3-1402 and had pre- and post-treatment evaluable tumor assessments. Dotted lines denote 20% increase and 30% decrease from baseline in tumor size over time.

Source: Jänne-P et al., Abstract #9010, ASCO 2019

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U3-1402 Treatment Duration



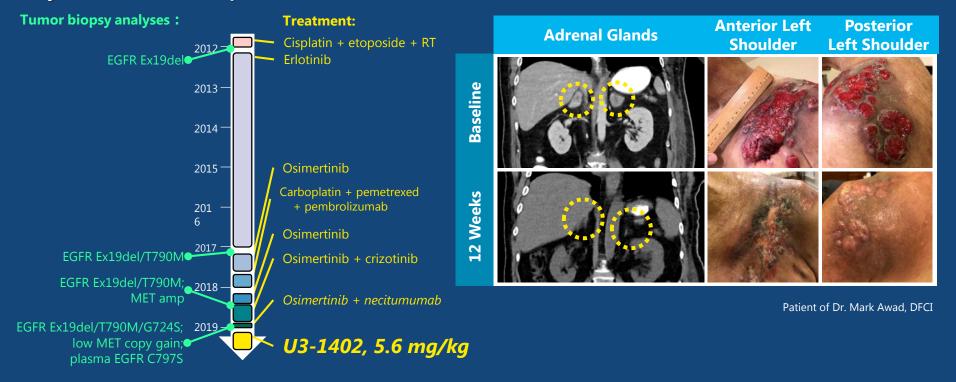
Data cutoff date of February 25, 2019. Safety analysis set included all patients who received ≥1 dose of U3-1402. ^aMembrane H-score is a composite of percentage of positively staining cells and intensity of individual cell staining. Scores range from 0–300. For patients with multiple H-scores, the highest number was used.

Source: Jänne-P et al., Abstract #9010, ASCO 2019

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U3-1402 Patient Case

65-year-old male NSCLC patient



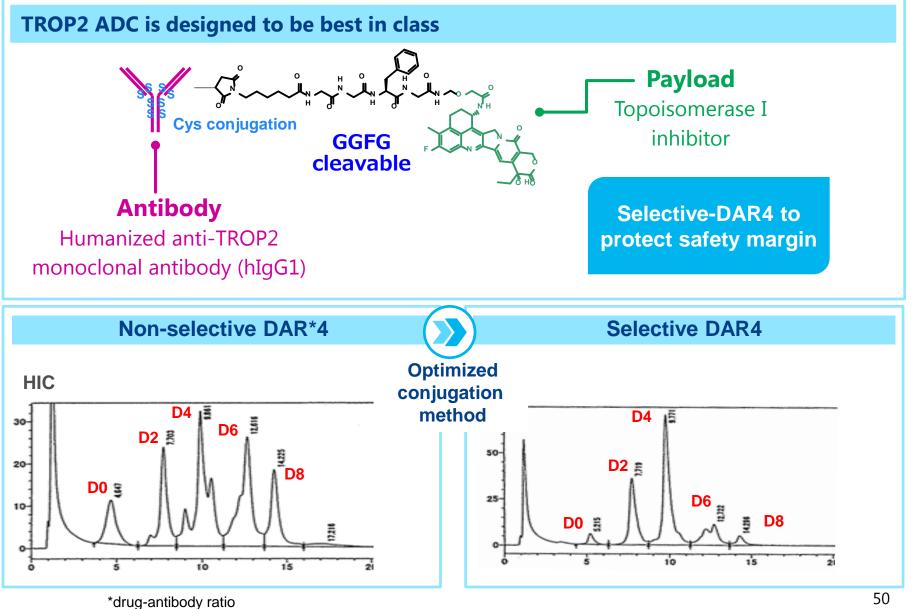


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DS-1062

DS-1062: Efficacy and Safety Balanced by Selecting DAR4





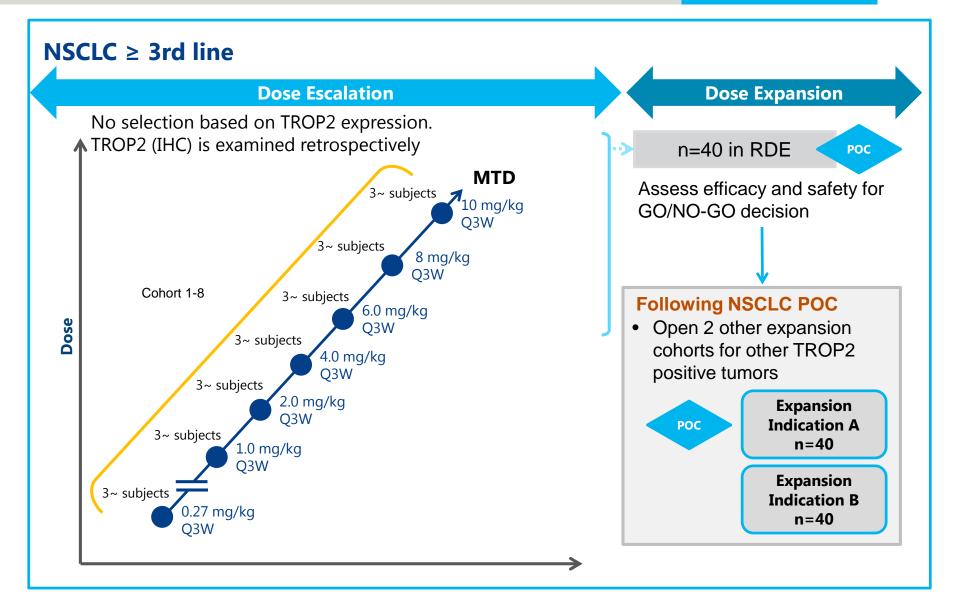
DS-1062: Comparison to Sacituzumab Govitecan



	DS-1062a (Daiichi Sankyo)	Sacituzumab Govitecan-hziy (Immunomedics)
Antibody	MAAP-9001a (humanized IgG1)	hRS7 (humanized IgG1)
Payload	DXd (TopoI inhibitor)	SN38 (TopoI inhibitor)
DAR	4	7.6
Linker cleavage	Enzymatic	pH-dependent and enzymatic
Human PK (T _{1/2})	TBD	11.7 h at 10 mg/kg dosing*
Dosing	q3w regimen	10 mg/kg at day1 and 8 of 3 weeks
Dose Limiting TBD Toxicity in Human		Neutropenia, MTD=12mg/kg**
Stage	Phase I NSCLC	Phase 3
		CO 2015 and AACR 2017 s; 21(17) September 1, 2015

DS-1062: Relapsed NSCLC P1 Study Design





DS-1062: TROP2 Targeted ADC, MTD Not Reached



Safety Summary: number of patients with TEAEs (in ≥10% of patients), regardless of causality

	N=	39
ГЕАЕ, n (%)	All grades	Grade ≥3 ^{a,b}
Any TEAE	34 (87.2)	16 (41.0)
TEAE, by preferred term (in ≥10% of patients)		
Fatigue	13 (33.3)	2 (5.1)
Nausea	12 (30.8)	0
Anemia	9 (23.1)	0
Decreased appetite	9 (23.1)	0
Alopecia	8 (20.5)	0
Infusion related reaction	8 (20.5)	0
Constipation	6 (15.4)	0
Vomiting	6 (15.4)	0
Cough	5 (12.8)	0
Dyspnea	5 (12.8)	1 (2.6)
Rash	5 (12.8)	0
Diarrhea	4 (10.3)	0
Pain	4 (10.3)	1 (2.6)
Weight decreased	4 (10.3)	0

20.5%), except for one grade 2 and 1 grade 5 TEAE (grade 5 sepsis; 6.0 mg/kg treatment group).

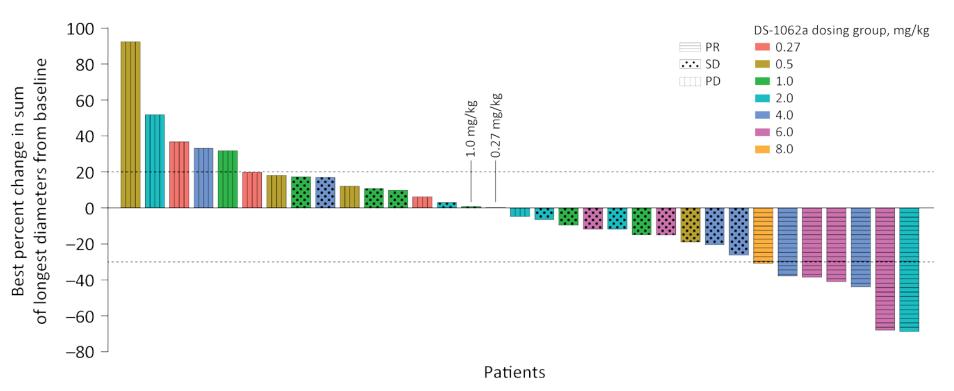
TEAE, treatment-emergent adverse event.

DS-1062: TROP2 Targeted ADC Anti-tumor Activity



Objective responses emerging at >2mg/kg dose

Best percent change in sum of longest dimension from baseline in target lesions (N=33)

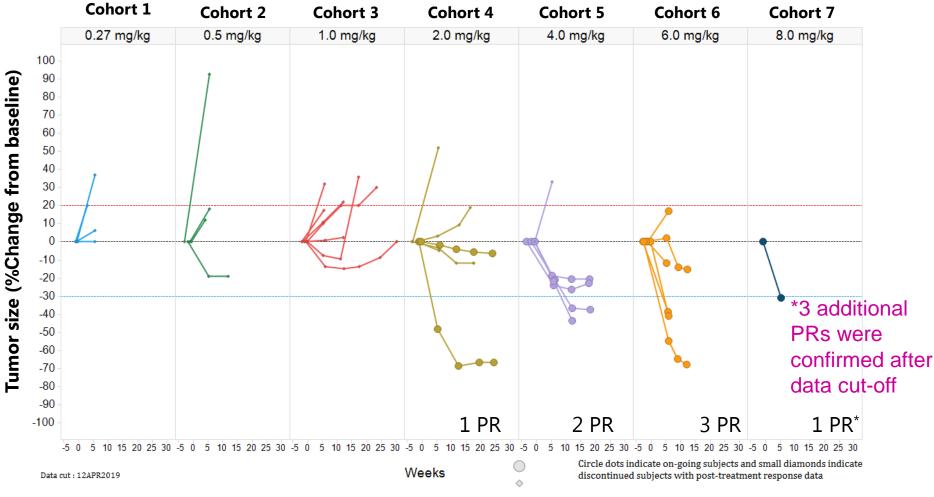


ASCO 2019 Abstract #9051

DS-1062: TROP2 Targeted ADC



Dose / Effect Spider Plot (preliminary data April 12, 2019)



ASCO 2019 Abstract #9051



18.4 BB 7 484 BB 2 10 120

DS-3201 DS-1001

AML / HEM Franchise Progress



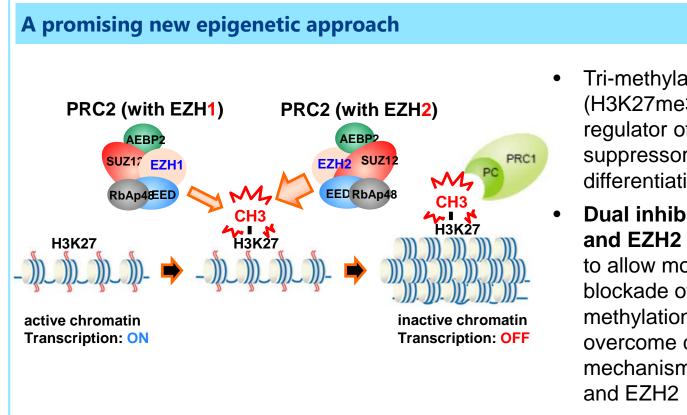
Quizartinib	 QuANTUM-First study (Newly Diagnosed FLT3-ITD AML) continues to accrue ahead of expectations; >90% enrolled
DS-3201 EZH1/2 inhibitor	 Granted SAKIGAKE designation for PTCL in Japan in April 2019 Small-Cell Lung Cancer (SCLC) Phase 1 study initiated
DS-1001 IDH1m inhibitor	 Phase 1 results reported at ASCO (Abstract # 2004)
DS-3032 MDM2 inhibitor (milademetan)	 Dose escalation of P1 combination studies with quizartinib and azacitidine have started

DS-3201 (valemetostat): Dual EZH 1/2 Inhibitor



DS-3201

Potent and selective dual inhibitor of the histone methyltransferases (histonemodifying enzymes) EZH1 and EZH2 at histone H3 (H3K27)

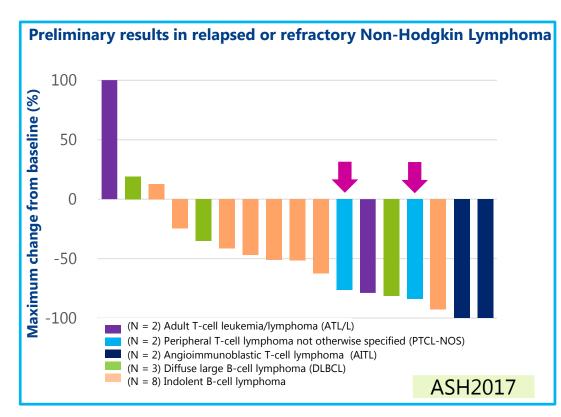


- Tri-methylation of H3K27 (H3K27me3) is negative regulator of tumor suppressor genes or cell differentiation genes
- Dual inhibition of EZH1 and EZH2 is hypothesized to allow more potent blockade of hyper methylation of H3K27 and overcome compensatory mechanism between EZH1 and EZH2

SAKIGAKE Designation: DS-3201 PTCL



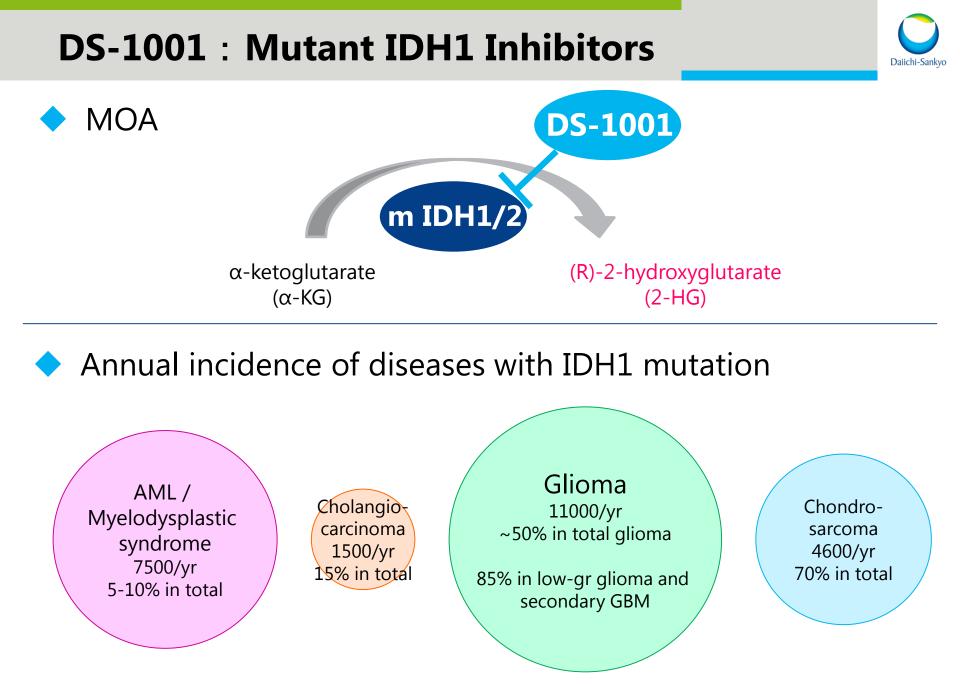
 Potential first-in-class EZH1/2 dual inhibitor
 Received SAKIGAKE Designation for relapsed/refractory peripheral T-cell lymphoma (PTCL) treatment based on the preliminary result of Phase 1 Non-Hodgkin lymphomas trial including PTCLs



PTCL

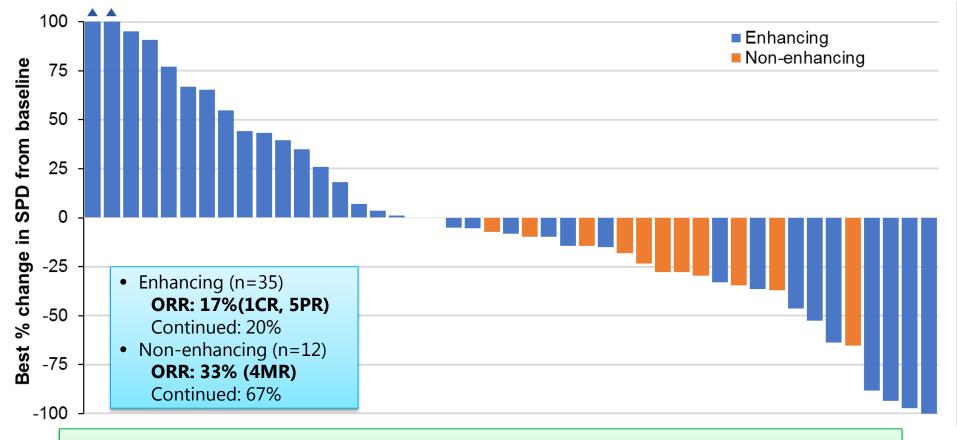
- Non-Hodgkin lymphoma arising from T cells
- Tend to be aggressive and associated with poor prognosis, particularly for relapsed disease
- High unmet medical needs (very few treatment options)

Maruyama D, et al. ASH 2017. Abstract 4070



DS-1001: Efficacy Best Percentage Change





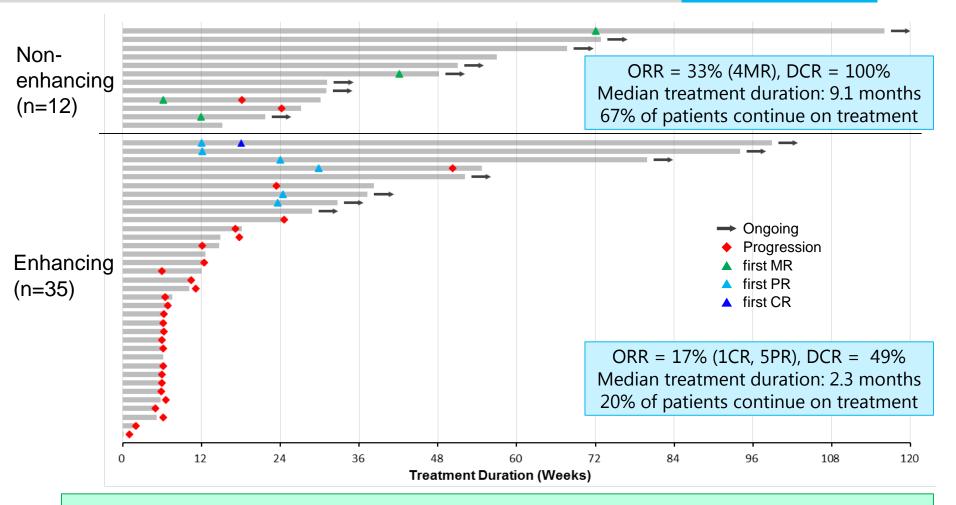
Antitumor activity was observed in recurrent gliomas

• High response rates were also observed in contrast-enhanced and non-contrastenhanced tumors

Source: Natsume-A et al., Abstract #2004, ASCO 2019

DS-1001: Efficacy Treatment Duration and Time to Response As of May 7, 2019





- Extended disease control was observed in the non-enhancing glioma (median treatment period 9.1 months, 67% of patients continued)
- Once responded, the duration of the reaction was quite long



Summary



Major R&D Pipeline (Oncology)



	Generic name/Project number	Townet Indiantian Desting	. ·	Stage			
	(drug efficacy/mechanism of action)	Target Indication	Region	Phase 1	Phase 2	Phase 3	NDA/BLA
		BC (HER2 positive post T-DM1)	JP/US/EU/Asia		***		
		BC (HER2 positive vs T-DM1)	JP/US/EU/Asia				
se	DS-8201 (anti-HER2 ADC)	BC (HER2 low)	JP/US/EU/Asia				
ADC Franchise		GC (HER2 expressing post trastuzumab)	JP/Asia		> 🎗		
Frai		CRC	JP/US/EU				
ADC		NSCLC	JP/US/EU				
		BC and bladder cancer (with nivolumab)	US/EU				
		BC	JP/US				
	U3-1402 (anti-HER3 ADC)	NSCLC	US				
	DS-1062 (anti-TROP2 ADC)	NSCLC	JP/US				
0	Quizartinib/AC220 (FLT3 inhibitor)	AML (relapsed/refractory)	JP/US/EU/Asia				
V		AML (1st line)	JP/US/EU/Asia				R
	DS-3032 (MDM2 inhibitor)	Solid tumor	JP/US				
		AML	JP/US				
se	DS-3201 (EZH1/2 inhibitor)	PTCL	JP	1			
nchi		ATL/L	JP				
AML/HEM Franchise		AML, ALL	US				
N H		SCLC	US				
AL/H	PLX2853 (BRD4 inhibitor)	AML, solid cancer	US				
AN	DS-1001 (IDH1m inhibitor)	Glioma	JP				
	Axi-Cel [®] (anti-CD19 CAR-T cells)	BCL	JP				
throug 💉	Pexidartinib (CSF-1/KIT/FLT3 inhibitor)	ТGСТ	US/EU				
	DS-1647 (G47Δ virus)	Glioblastoma multiforme	JP		2		
Break Scien	DS-1205 (AXL inhibitor)	NSCLC [with osimertinib (Asia) gefitinib (JP)]	JP/Asia				

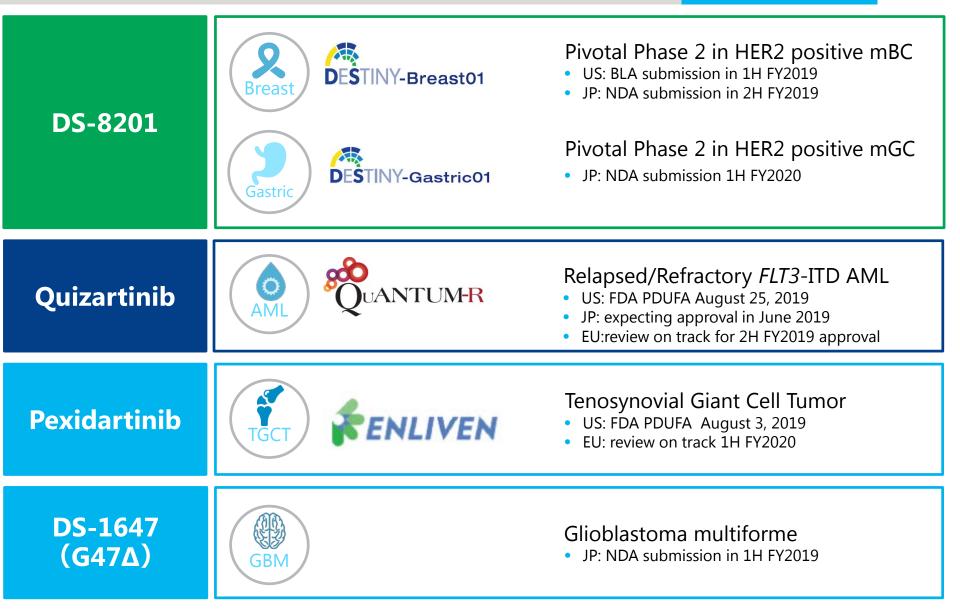
ALL: acute lymphoblastic leukemia, AML: acute myeloid leukemia, ATL/L: adult T-cell leukemia/lymphoma, BCL: B-cell lymphoma, NSCLC: non-small cell lung cancer,

PTCL: peripheral T-cell lymphoma, TGCT: tenosynovial giant cell tumor

*: Projects in the field of oncology which are planned for registration application based on the results of P2 studies, 🤶 designated as breakthrough therapy (FDA)/SAKIGAKE (JP)

Upcoming Milestones







Thank you for listening

Daiichi Sankyo / DS Cancer Enterprise is a Global Pharma Innovator with strengths in Science and Technology, and will have a pipeline to meet various UMNs of patients



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