Passion for Innovation.
Compassion for Patients.™



FY2018 **R&D Day**

DAIICHI SANKYO CO., LTD

George Nakayama
Chairman and CEO

December 12, 2018

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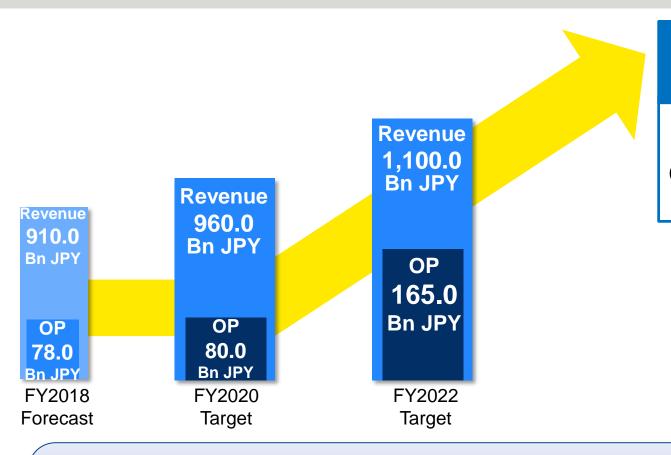
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Toward 2025 Vision & 5-Year Business Plan





2025 Vision

Global Pharma
Innovator with
Competitive Advantage
in Oncology

Establish a Foundation of Sustainable Growth: Six Strategic Targets

Grow Edoxaban

Grow as No.1 Company in Japan

Expand US Businesses

Establish Oncology Business

Continuously
Generate
Innovative
Medicine
Changing SOC

Enhance Profit Generation Capabilities

Establish Oncology Business Continuously Generate Innovative Medicine Changing SOC



Increase R&D investments

- √ 1.1 Tn JPY (increased by 200 Bn JPY) in 5 Years
- √ May consider shifts of a part of BD funds, 500 Bn JPY, to R&D

Realize optimal balance between Oncology and SM*

- ✓ Focus on LCMs & new products in SM to generate near-term profits
- ✓ Continue discovery activities in SM to see beyond 2025 Vision

SM: Specialty Medicine Area: Cardiovascular-metabolics, pain, central nervous system diseases, heart and kidney diseases, and rare diseases

R&D 2025 Vision





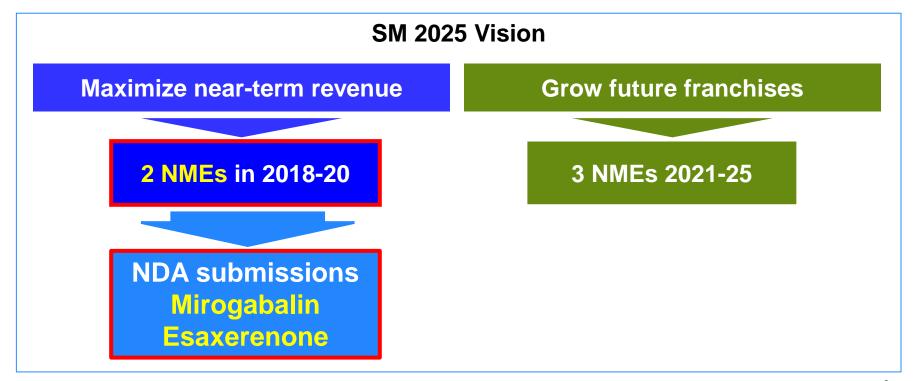


R&D 2025 Vision



CE 2025 Vision

R&D Day 2018 Main Topics





Care. Compassion. Science. It's Our Obligation.



Daiichi Sankyo Cancer Enterprise Deliver, Scale Up and Lead in Science

December 12, 2018

Antoine Yver MD MSc Exec VP & Global Head R&D Oncology

Today's Agenda



1 Cancer Enterprise 2025

- · A Delivery Machine
- · Scaling up the Enterprise
- Secure World-class Leadership in Science

2 DS-8201

- BLA FY2020 (upside 1H FY2019) on track
- Expanding program scope
- ILD well characterized
- Breast cancer: duration of response in Ph 1

3 U3-1402

- Breast cancer data at SABCS
- NSCLC EGFRm program progress
- Fast to market strategy and program scope

4 Next DXd

- DS-1062: Ph 1
- Others

5 Quizartinib

- Global US EU JP NDA submissions completed
- Biology and differentiation the key role of QuANTUM First

6 Pexidartinib

- Submission status
- ENLIVEN

7 Recap

 DS is a science & technology company / future news flows



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Daiichi Sankyo Cancer Enterprise 2025







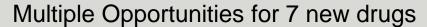


Scale Up the Enterprise: Meeting the Challenge



Secure
World-class
Leadership in
Science

Cancer Enterprise 2025







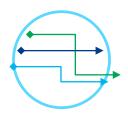
CE is a Virtual Organization that Delivers





3 NDA/BLA within ~12 months

- Quizartinib US EU JP NDA achieved in less than a month.
- Pexidartinib US NDA submission confirmed for 2H FY2018
- Potential to submit DS-8201 in 1H FY2019 continues to be present



Flow of data: delivering evidence of high potential and beating expectations

- DS-8201 HER2 Low Breast cancer
- DS-8201 Duration of Response in HER2 positive Breast cancer post trastuzumab, T-DM1 ± pertuzumab
- DS-8201 activity in NSCLC and CRC
- U3-1402 (HER3 ADC) activity
- DS-1062 (TROP2 ADC) in lung cancer



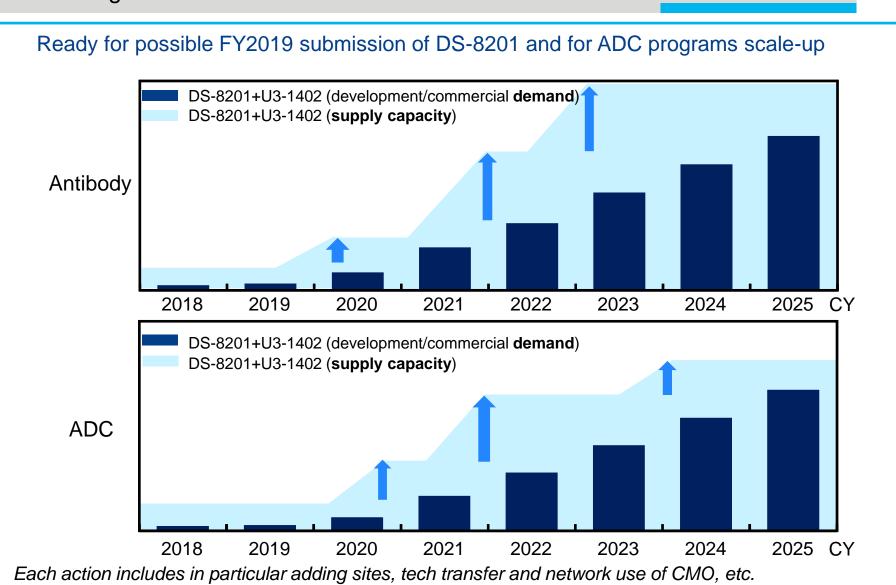
Manufacturing of development and commercial supplies

Massive acceleration and scaling up is underway

ADC Manufacturing

Meeting Massive Increase in Demand





CE is Scaling Up the Enterprise





CE operates <u>now</u> at a resource level that was, in October 2016, predicted to be required for success

CE expects further increase due to better than anticipated portfolio scope

- ~ 70 to 80% of R&D, Pharmaceutical Technology and Global Medical Affairs resources are now CE focus
- Supported by the revision in 5-year Business Plan of R&D spend to 1,100 B JPY over 5 years
- Makes the case to consider R&D collaboration, especially for large scale operations, to maximize value

Daiichi Sankyo | A Traditional Japanese Company Transforming into a Global Power





New global operating model in place

- Japanese leadership in critical domains,
 e.g.: Research, Protein engineering and production processes, Translational research, Development
- West-based leadership for translational and global development
 - Over the past 2 years, ~15 new senior leaders have joined DS from numerous top-tier global pharmaceutical companies
 - Collectively, these professionals represent over 250 years of oncology R&D experience, including more than 50 separate NDA / BLA submissions
- Matrix-function organization led by Global Teams, from US or JP
 - Innovative delivery (e.g. Sarah Cannon Research Institute collaboration)

CE Leadership in Science



- Healthy flow of new drug candidates, in ADC beyond DXd, in Hematology and in Breakthrough Science
- Establishing clinical analysis function in RD Novare to strengthen translational science capability

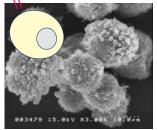


- Establishing a state-of-the-art Bio-IT Omics platform
- CMC process and scale mastery including business continuity planning
 - Enhanced ADC Technology

Enhanced ADC Technology



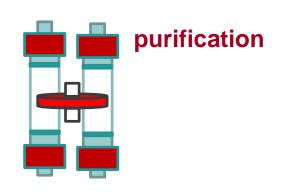




DS expression system
Cell cloning technology for highproducing cell isolation



High performance medium Scale-up technology



High-performance flow-through purification

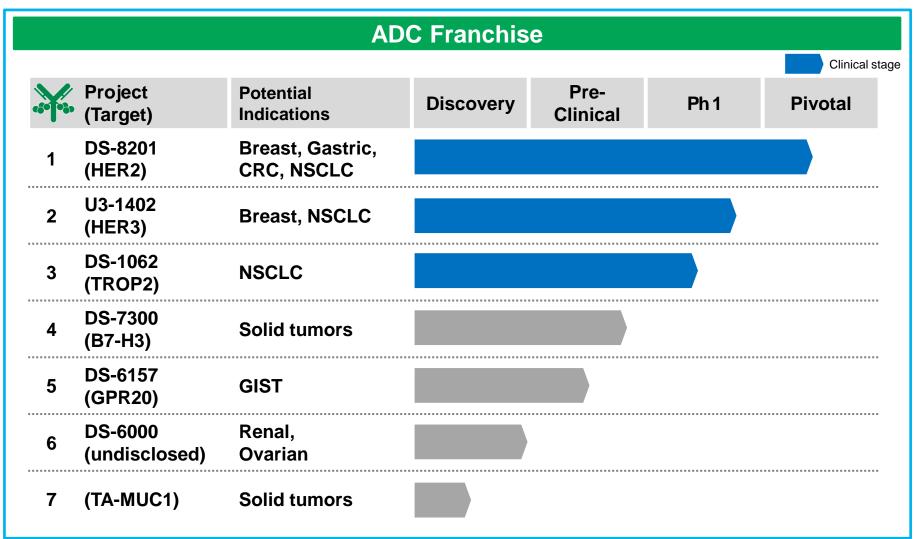
Original cell-vector system

Manufacturing efficiency Productivity Improvement Labor-saving / efficient continuous process
Cost reduction of raw materials

Cost and time efficient, security of process by utilizing antibody manufacturing platform developed on DS proprietary technologies

Daiichi Sankyo ADC Franchise





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

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ADC | DS-8201 (fam-trastuzumab deruxtecan) Top News



DS-8201 Flagship Asset



Focus





DESTINY

Ongoing pivotal development

- DESTINY-Breast01
- DESTINY-Gastric01
- Breast HER2 positive post T-DM1
- Breast HER2 positive vs T-DM1
- Breast HER2 Low

Planned further development

 Earlier lines, Lung, colorectal, combinations (TKI, CDK4/6i, hormonal therapy, PARPi, IO)

- Where the Herman Herman
- ✓ HER2 Low Breast Cancer
- Tracking to plan for 2020 submissions Contemplating BLA in 1H FY2019
 Will not be confirmed before end 4Q FY2018
- Expand program
- Continue drastic scaling up of production

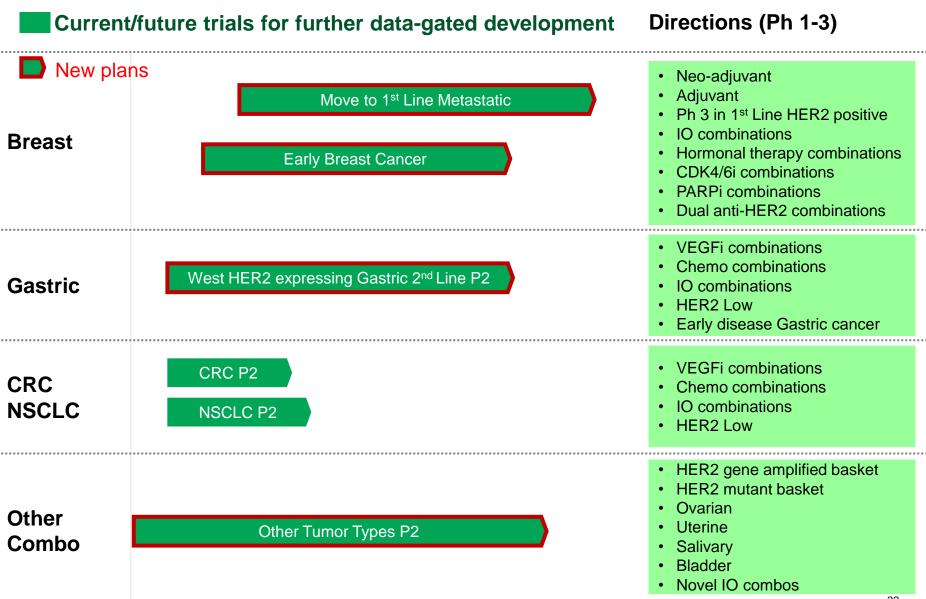
DS-8201 | Clinical Program

As of Dec 2018



	FY2018	FY2019	FY2020	FY2021	FY2022
	Multiple Tumors P1				
Breast	HER2 positive B Post T-DM1 Pivo	HER2 positive Breas vs Phys Cho HER2 positi			Y-Breast03 √Y-Breast04
Gastric	HER2 expressing G Phys Choice F		DESTINY-Gastric01 HER2 express	sing Gastric 2 nd line	
CRC NSCLC		CRC P2 NSCLC P2	2		
		Breast	Bladder w/ nivolum	ab P1b	
			Breast NSCL	C w/ pembrolizuma	b P1b
Combo			Solid tum	or w/ avelumab P1t	
			Solid t	umor w/ TKI P1b	





Drug-related ILD (Interstitial lung disease)



- More than 380 medications known to induce respiratory disease, mostly ILD¹
- Probability remains largely unpredictable and idiosyncratic
- Diagnosis made on signs/symptoms (e.g., fever, cough, shortness breath) and excluding other causes
- Treatment is high dose steroids and withdrawal of causing agent
- Benchmark example: TAGRISSO [US Label]
 - ILD in 3.9% of 1,142 cases
 - 0.4% fatal

DS-8201 | Safety: ILD



Investigator-Reported and Adjudicated Cases of ILD

Population	Adjudication status	Grade					
	Adjudication status	1	2	3	4	5	Total
	Investigator reported, n (%)	30 (4.5)	23 (3.5)	6 (0.9)	2 (0.3)	5 (0.8)	66 (9.9)
All subjects 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

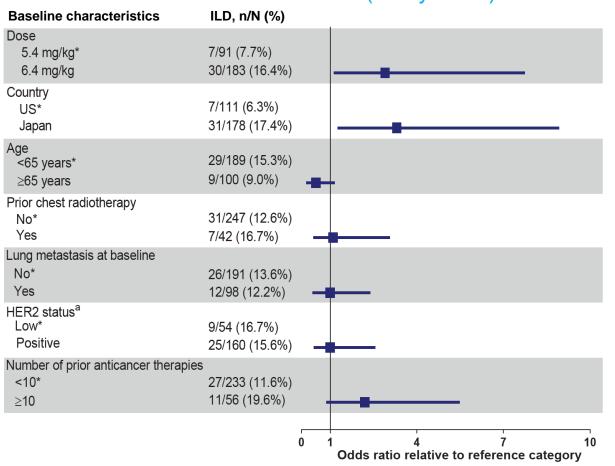
Data cutoff: October 15, 2018

- Median duration of treatment 108 days
- 29.5% subjects on treatment for ≥180 days
 - Median time to onset of ILD 149 days
- Feb-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

DS-8201 | Safety: ILD



Odds Ratio (95% CI) for Association of Characteristics with Developing ILD (study J101)



A higher dose and Japanese origin associated with higher likelihood of developing **ILD** after adjusting for the other factors

Odd ratios and 95% confidence intervals were computed using a multivariate logistic regression model that included all variables shown. *Reference category.

^aHER2 status was only available for breast and gastric cancer.

DS-8201 | ILD experience Breast Cancer at Recommended Dose



- Based on safety, efficacy and exposure data, 5.4 mg/kg was selected as the dose for pivotal development in breast cancer
- At 5.4mg/kg in breast cancer, ILD appears as a well characterized risk

		ILD e					
Denulation	Adjusting status			ILD Severity Grade			
Population	Adjudication status	1	2	3	4	5	Total
Breast Cancer	Investigator reported, n (%)	8 (3.0)	4 (1.5)	2 (0.7)	0	1 (0.4)	15 (5.6)
5.4 mg/kg	Cases adjudicated, n	3	3	0	0	1	7
N = 269	Adjudicated as drug-related ILD, n	2	2	0	0	1	5

DS-8201 | HER2 Positive Breast Cancer: New Data



Duration of Response > 20 months

Efficacy Outcomes in Subjects with HER2 Positive Breast Cancer in the Ongoing Ph 1 Trial (Aug 10, 2018 data cutoff)¹

HER2 Positive (IHC 3+ or IHC 2+/ISH+) Breast Cancer

Confirmed Overall Response Rate (66/111)^a

59.5% (95% CI 49.7, 68.7)

Median duration of response

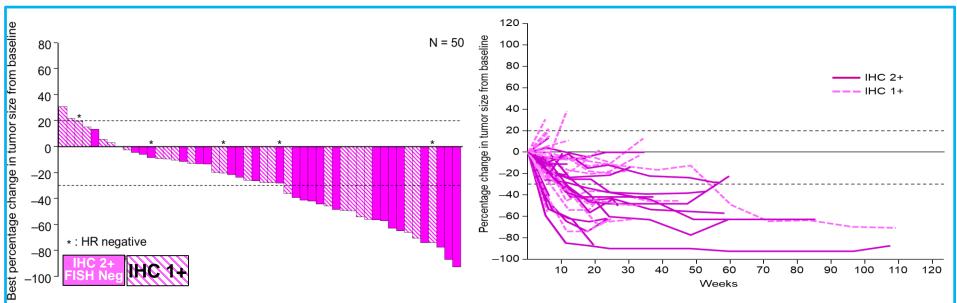
20.7 months (range 0.0+, 21.8+)

^aSubjects who received 5.4 or 6.4 mg/kg with ≥2 postbaseline scans, or who had progressive disease or discontinued treatment for any reason before second postbaseline scan.

DCR, disease control rate; HER2, human epidermal growth factor receptor 2; IHC, immunohistochemistry; ISH, in situ hybridization; ORR, objective response rate.

DS-8201 | HER2 Low Breast Cancer





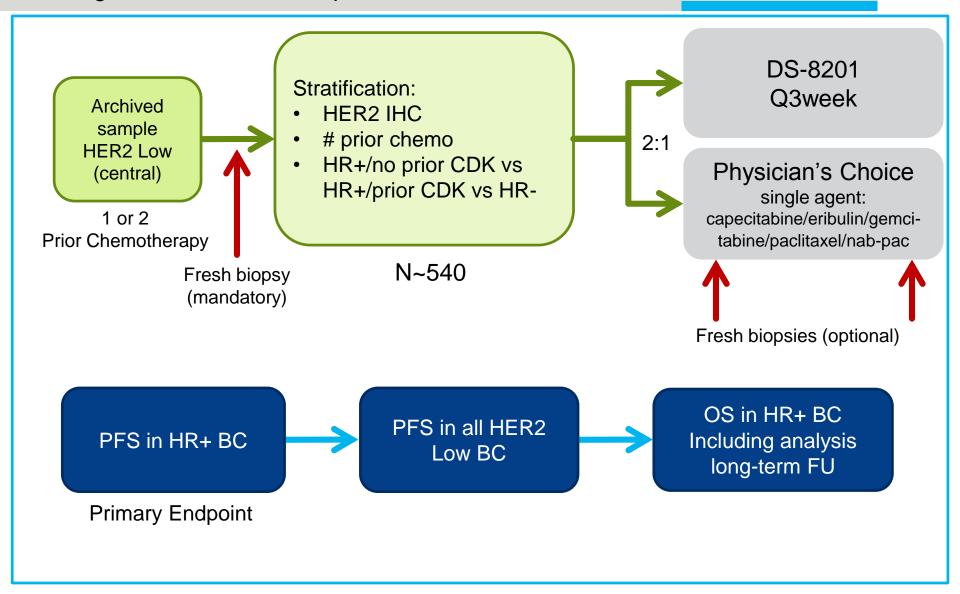
Dotted lines denote 30% decrease and 20% increase in tumor size cutoffs for partial response and progressive disease, respectively. HR, hormone receptor; IHC, immunohistochemistry.

	Confirmed ORR, n/N (%)	Confirmed DCR, n/N (%)	Duration of Response, median (range), mo	PFS, median (95% CI), mo
AII (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)

DS-8201 | HER2 Low Breast Cancer P3 Study Design

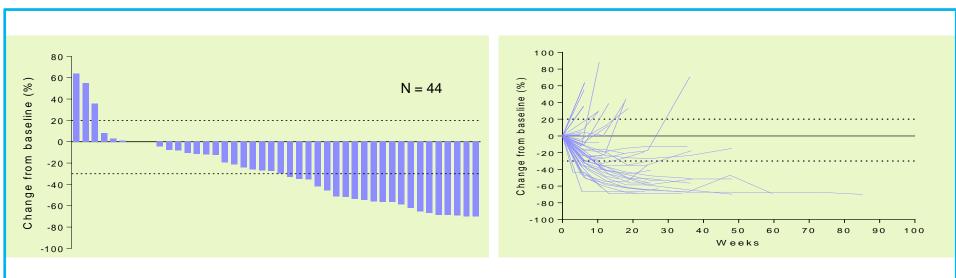
Daiichi-Sankyo

CT.gov: NCT03734029/JapicCTI-184223



DS-8201 | HER2 Positive Gastric Cancer





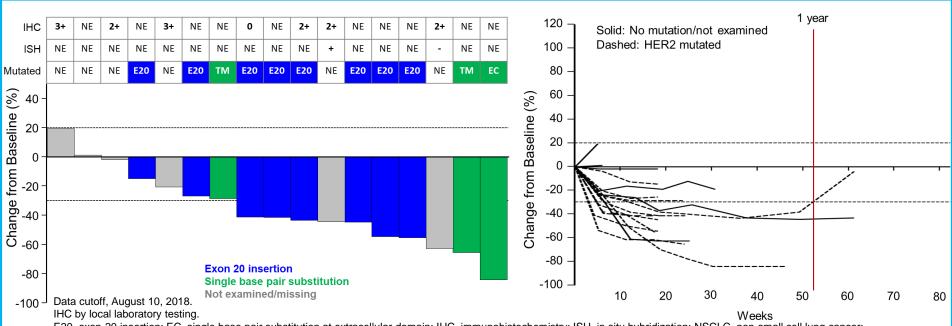
Includes subjects who had ≥1 postbaseline scan. Dotted lines denote 20% increase and 30% reduction in tumor size, respectively.

*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	PFS	
	(n/N) (95% CI)	DCR % (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 | NSCLC HER2 Mutated or Expressing



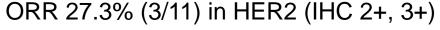


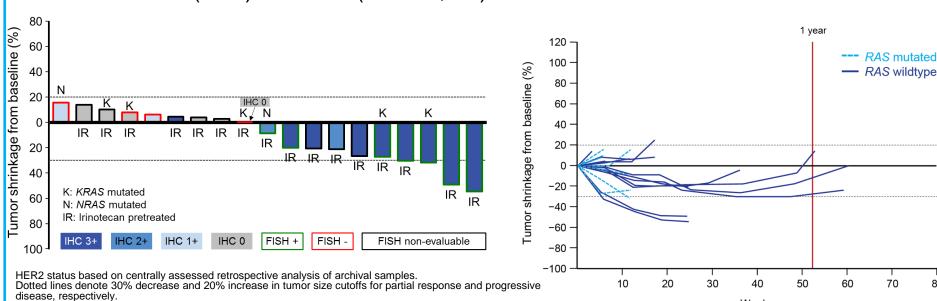
E20, exon 20 insertion; EC, single base pair substitution at extracellular domain; IHC, immunohistochemistry; ISH, in situ hybridization; NSCLC, non-small cell lung cancer; NE, not examined or missing; TM, single base pair substitution in transmembrane domain.

	Comfirmed ORR, % (n/N)	Comfirmed DCR, % (n/N)	DOR, median (range), months	PFS, median (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% (8/11)	100% (11/11)	11.5 (0.03+, 11.5)	14.1 (4.0+, 14.1)

DS-8201 | CRC by HER2 Status IHC/FISH







	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+)

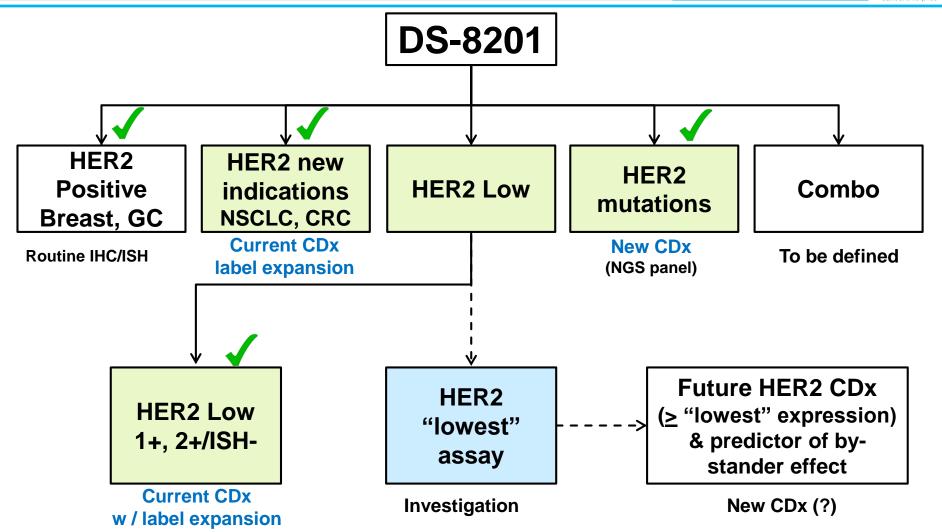
FISH, fluorescence in situ hybridization; HER2, human epidermal growth factor receptor 2; IHC, immunohistochemistry; IR, irinotecan pretreated; K, KRAS mutation; N, NRAS mutation.

Weeks

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

DS-8201 | Patient Selection & CDx Strategy





Biology of HER2 receptor varies: IHC is not fully portable Developing new CDx Assays lead to select the right patients for DS-8201

DS-8201 is Leading the Second Generation HER2 ADC Race with the Most Ongoing Trials



		HER2 ADC	S		
	_				Pivotal sta
••••	Project (Payload)	Potential Indication	Pre-Clinical	Ph1	Pivotal
Daiichi-Sankyo cancerenterprise	DS-8201 Topoisomerase I inhibitor	Breast, Gastric, CRC, NSCLC		P3, P2, P1	
Synthon	SYD985 DNA alkylator (Duocarmycin)	Breast, Gastric		P3, P1	
百奥泰 Bio-Thera	BAT8001 Maytansine derivative	Breast, Gastric	ı	Р3	
RemeGen,Ltd. 桑昌生神制形(组合)有限公司	RC-48 (MMAE) Tubulin Inhibitor	Breast, Gastric, Bladder	P:	2	
Takeda Mersana Interestricts	XMT-1522 Tubulin inhibitor	Breast, Gastric, NSCLC	P1		
Ambrx	ARX-788 Tubulin inhibitor	Breast, Gastric	P1		
Pfizer	PF-06804103 (MMAE) Tubulin inhibitor	Breast, NSCLC, Gastric, GEJ	P1		
Roche Genentech	DHES-0815A PBD-MA	Breast	P1		
ALTEOGEN Inc.	ALT-P7 Tubulin inhibitor	Breast	P1		
(KG)	A166 Unknown	Solid Tumor	P1/2		

CRC: colorectal cancer, NSCLC: non-small cell lung cancer,

GEJ: gastroesophageal junction

DS-8201 | What Have We Learned?



- FY2019 first BLA remains an upside possibility
- Vast majority of breast cancers are in scope
- Earlier lines and critical combos (CDK4/6i, hormonal therapy, pertuzumab) are key to unlock the full potential of the drug in BC
- ILD at 5.4 mg/kg in Breast cancer appears as a well characterized risk
- Duration of Response in HER2 positive Breast cancer Ph 1 is
 20 months
- Biology of HER2 receptor varies: IHC is not fully portable

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U3-1402 (HER3 ADC)





Characteristics	Dose Escalation + Dose Finding (N = 42)
TEAEs regardless of causality	42 (100.0)
Serious TEAEs regardless of causality	14 (33.3)
Drug-related	7 (16.7)
TEAEs leading to drug withdrawal/ discontinuation	1 (2.4)
TEAEs leading to dose reduction	8 (19.0)
TEAEs leading to dose interruption	19 (45.2)
TEAEs associated with death as outcome	0
TEAEs, treatment-emergent adve	rse events

- Median drug exposure 7.6 months for 42 subjects, all breast cancer
- In Dose Escalation (n=34), **DLT** in 4 subjects: transient, reversible thrombocytopenia (grade 4) and AST and ALT increased (grade 3); none required discontinuation
- A single subject had a TEAE leading to drug discontinuation (grade 2 pneumonitis)
- Pulmonary adverse events of special interest, observed in 1 patient each:
 - grade 1 radiation fibrosis and grade 3 radiation pneumonitis, not drug related and recovered, treatment resumed
 - grade 2 pneumonitis, drug related, recovered after treatment discontinued
 - grade 2 interstitial pneumonitis, drug related, recovering after treatment withdrawn
- All cases are being adjudicated

U3-1402 | Efficacy Data in Ph 1, Breast Cancer Study



Efficacy Assessed by Investigators

	Dose Escalation and Dose Finding				
Efficacy Measures	4.8 mg/kg (N = 15)	6.4 mg/kg (N = 15)	All dose levels (N = 42)		
Overall Response Rate n/N (%)	6/15 (40.0%)	9/15 (60.0%)	18/42 (42.9%)		
Duration of Response median (range), months	Not Reached (2.8, 9.8+)	Not Reached (2.9+, 9.8+)	Not Reached (2.8, 13.8+)		
Time to Response median (95% CI), months	2.1 (1.3, 4.1)	2.7 (1.4, 2.8)	2.6 (1.4, 2.8)		
Disease Control Rate n/N (%)	13/15 (86.7%)	15/15 (100.0%)	38/42 (90.5%)		
PFS median (range), months	8.0 (1.2, 12.3+)	Not Reached (5.0, 11.1+)	8.3 (1.2, 16.8+)		

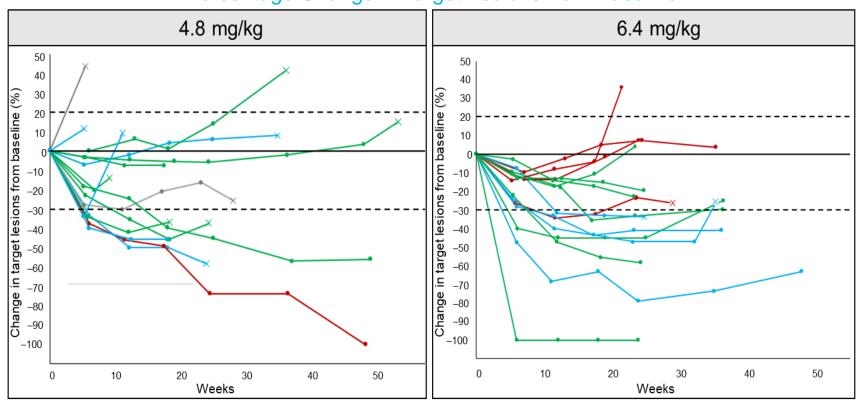
Efficacy evaluable set for confirmed response based on RECIST version 1.1 includes subjects who had ≥2 postbaseline scans, progressive disease at the first scan, or discontinued treatment for any reason.

Data cutoff: November 6, 2018

U3-1402 | Efficacy by Dose Level in Ph 1 BC Study



Percentage Change in Target Lesions from Baseline



Tumor Molecular Profile



Data cutoff date of November 6, 2018. X indicates patients who discontinued treatment.

aUnknown includes 2 patients with HR+ and HER2 IHC/FISH unknown; 1 patient with HR- and HER2 IHC/FISH unknown; and 1 patient HR+ and HER2 IHC 2+/FISH unknown.

Dotted lines denote 30% decrease and 20% increase in tumor size threshold for partial response and progressive disease, respectively.

Analysis set: efficacy-evaluable patients with at least 1 postbaseline tumor assessment.

FISH, fluorescent in situ hybridization; HER2, human epidermal growth factor receptor 2; HR, hormone receptor; IHC, immunohistochemistry.

U3-1402 | NSCLC Ph 1 Study



Ph 1, Multicenter, Open-label, Dose Escalation and Dose Expansion Study in NSCLC

- Metastatic or unresectable
 EGFR-mutant NSCLC
 with
 - T790M mutationnegative tumor after progression with erlotinib, gefitinib, or afatinib

or

- Progression on osimertinib
- Clinically inactive CNS metastases allowed
- ECOG PS 0 or 1

Dose Escalation $(n \sim 18)$ Guideo de macen min Etuo Cohort 4 12.8 mg/kg IV Q3wk Cohort 3 9.6 mg/kg IV Q3wk Cohort 2 6.4 mg/kg IV Q3wk Cohort 1 3.2 mg/kg IV Additional dose levels Q3wk may also be considered

Dose Expansion (n ~ 45)

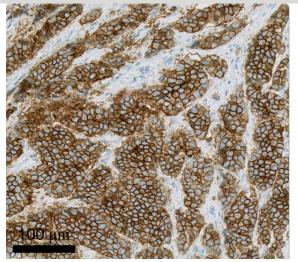
Recommended dose for expansion IV Q 3 wk

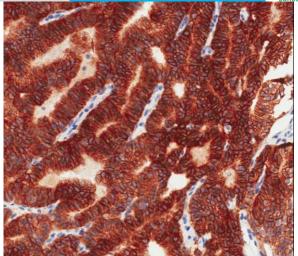
No selection based on HER3 expression. HER3 (IHC) is examined retrospectively.

Dose escalation data to be presented at ASCO 2019

U3-1402 | HER3 Expression in Cancer (IHC)



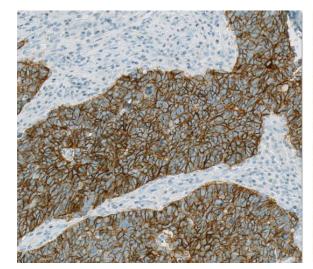


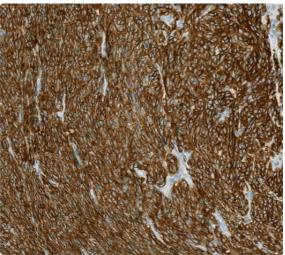


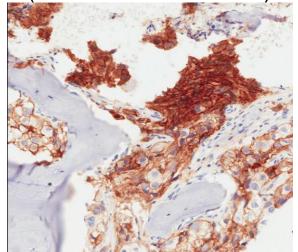
Breast cancer

Colorectal cancer

Prostate cancer (soft tissue metastasis)







NSCLC

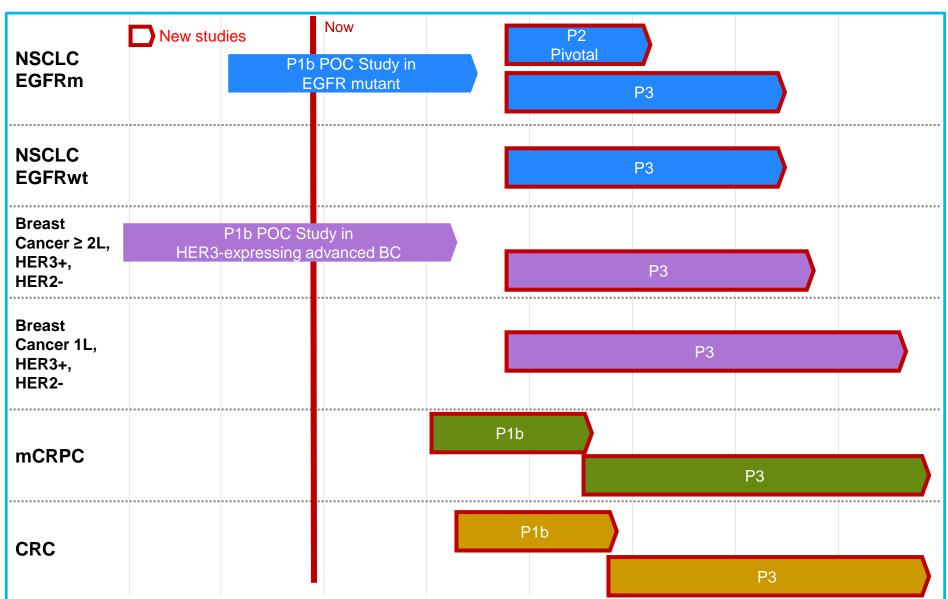
Malignant melanoma

Prostate cancer (Bone marrow metastasis)

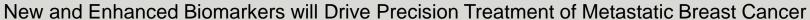
U3-1402 | Directional Development Plan

As of Dec 2018





HER2 and HER3 ADCs' Overlap





Historical State: HR and HER2 as oncogenic drivers

Decision matrix driven by HR status and conventional HER2 (tissue derived IHC/ISH)

All Patients n=288,550

HR-/HE 6.8 n=19,	%	HR+/HER2+ 13.5% n=38,835
HR-/HER2- 12.5% n=36,125		HR+/HER2- 67.2% n=193,860

Emerging Addition of New Standard of Practice

Enhanced understanding of disease biology leading to more advanced patient segmentation to predict the role of ADCs & other agents

Liquid Biopsy

Advanced HER2 measurement (eg mRNA / predicting DXd by-stander effect, etc.)

PI3K mutations

BRCA mutations

PDL1 Status

Role of HER3

Role of TROP2

Today's Agenda



1 Cancer Enterprise 2025

- A Delivery Machine
- Scaling up the Enterprise
- Secure World-class Leadership in Scienc

2 DS-8201

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- Expanding program scope
- ILD well characterized
- Breast cancer: duration of response in Ph 1

3 U3-1402

- Breast cancer data at SABCS
- NSCLC EGFRm program progress
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- Others

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- Global US EU JP NDA submissions completed
- Biology and differentiation the key role of QuANTUM First

6 Pexidartinib

- Submission status
- ENLIVEN

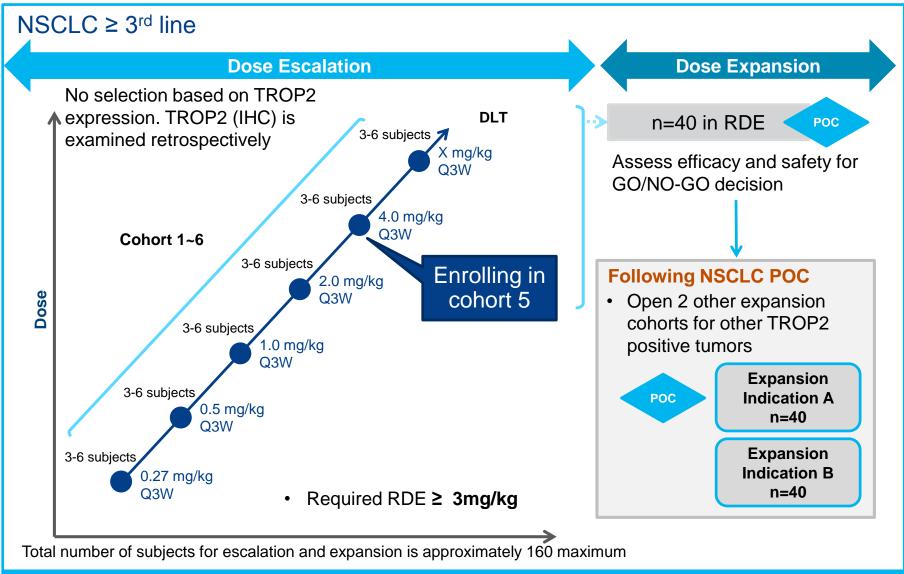
7 Recap

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DS-1062 TROP2 ADC | Ph 1 Study : Lean Plan to POC





Dose escalation data to be presented at ASCO 2019

B7-H3 | An Attractive Target for ADC Therapy



FTIH study for DS-7300 planned through Sarah Cannon Research Institute with Japan collaboration – FY2019

	Condition	
Torgot	High expression	B7-H3 is overexpressed frequently in various tumors (more than HER2 in breast cancer)
Target	Tumor selectivity	B7-H3 is overexpressed in tumors with low expression in normal tissues
mAb	Internalization	Anti-B7-H3 ADC antibody internalization rate 19-27%/3hr, comparable to trastuzumab

FTIH: First Time in Human

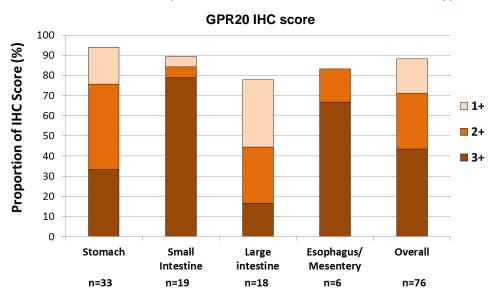
DS-6157 | First-in Class GPR20 ADC



- Concept: treatment of GPR20 positive GIST, regardless of TKI-resistance mutation
- ◆ Fast-to-market: Imatinib-resistant GIST (2nd line, salvage line)

duodenum (5%) colorectum (<5%) esophagus (<1%) appendix (<1%) Small intestine 30% Stomach 55-60%

IHC in GIST (US Biomax GIST801 tissue microarray)



- 88% of primary GIST is GPR20 positive (score >1+)
- GPR20 is highly expressed in more aggressive small intestinal GIST
- GPR20 expression was also observed in PDGFRA D842V GIST and wild type GIST

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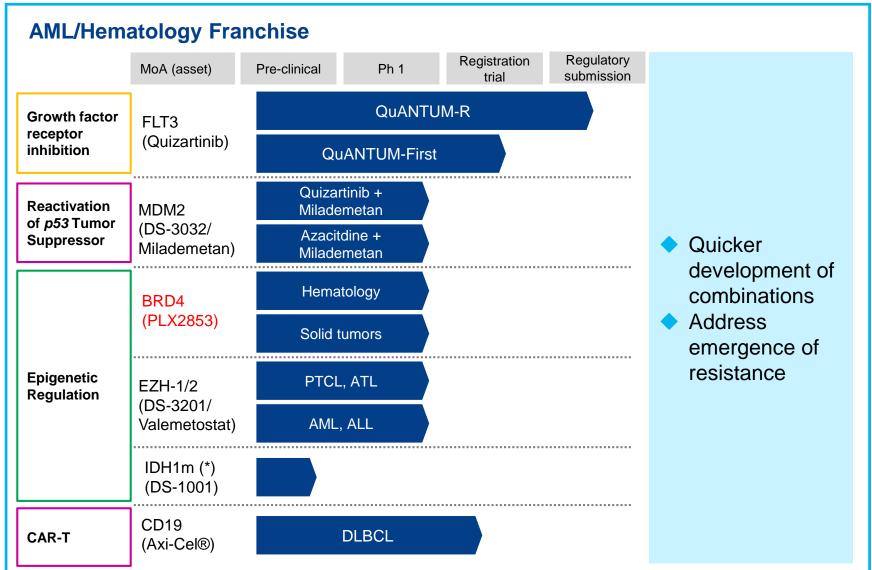
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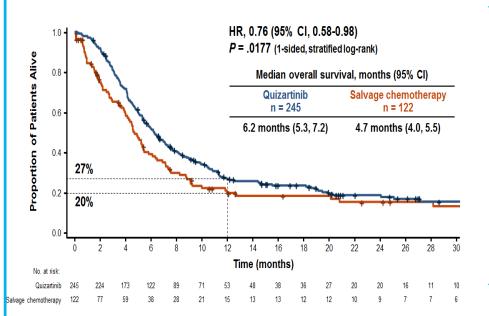
(*): Ph1 in glioma. Preclinical development in AML.

ALL: acute lymphoblastic leukemia, AML: acute myeloid leukemia, ATL/L: adult T-cell leukemia/lymphoma, DLBCL: diffuse large B-cell lymphoma, PTCL: peripheral T-cell lymphoma

Quizartinib | Refractory / Relapsed FLT3-ITD AML







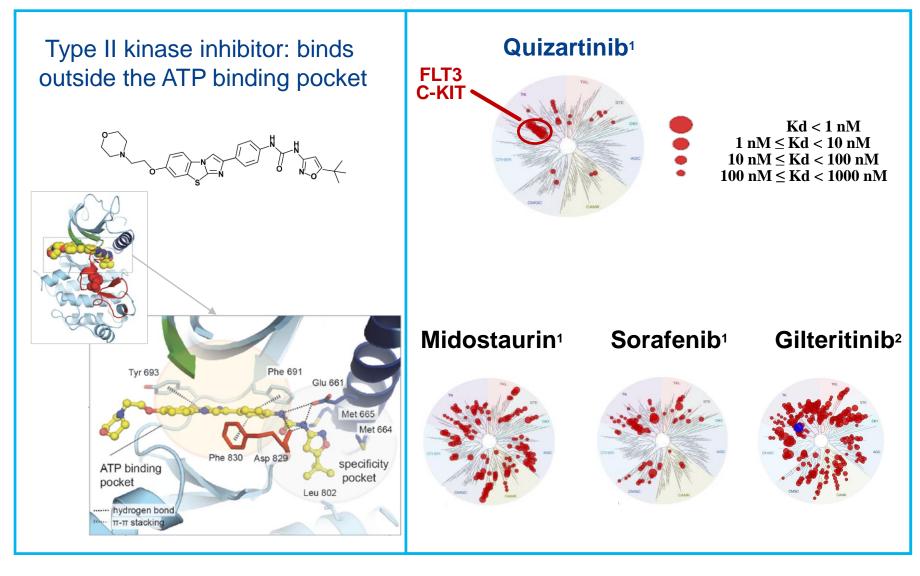
Median follow-up: 23.5 months

- Positive Ph 3 with 24% reduction in the risk of death; early separation of survival curves
- Global simultaneous submission in US, EU and JP (achieved in less than a month)
 - US: BTD and Orphan Drug designations; PDUFA date May 25, 2019
 - EU: Accelerated assessment and Orphan Drug designations
 - JP: Orphan Drug designation
- CDx submission on-track
- Preparing for global launch 1H FY2019

Quizartinib

Daiichi-Sankyo cancerenterprise

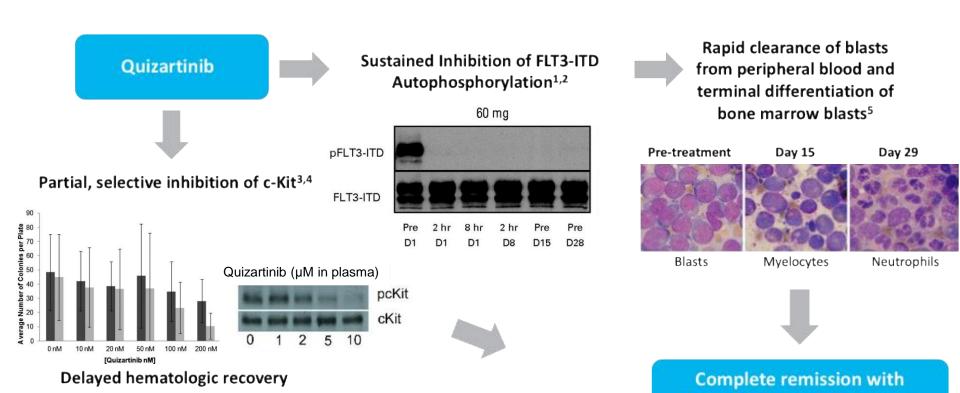
Highly Potent and Selective Type II Kinase Inhibitor



Quizartinib | Clarification of the Mechanism of Action



- Quizartinib is a potent and selective type II FLT3 inhibitor (and partial c-kit inhibitor)
- "CR with incomplete count recovery" is fast and most common response



GM-CFU, colony forming unit, granulocyte, monocyte; BFU-E. Erythropoletin, erythroid burst-forming unit

*Other kinases with K_d within 10-fold that of *FLT3* were closely related RTKs, eg, KIT

¹Zarrinkar P, et al. *Blood*. 2009;114(14):2984-2992; ²Cortes JE, et al. *J Clin Oncol*. 2013;31(29):3681-3687; ³Galanis A, et al. 2014. *Blood*. 123(1):94-100; ⁴Galanis A & Levis M, 2015. *Haematologica*. 100(3):e77-9; ⁵Sexauer et al. 2012 *Blood*. 120:4205-4214

Early leukemic blast clearance in blood and differentiation in bone marrow

incomplete count recovery

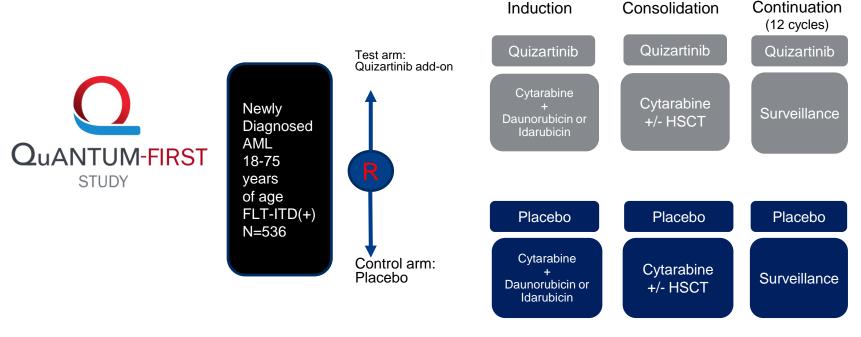
QuANTUM-FIRST | Front-line AML



Evaluating Quizartinib as a Backbone Option in FLT3-ITD AML

Hypothesis: Synergistic anti-leukemic effect, when added to chemotherapy, to:

- Increase remission rate
- Delay relapse



Primary endpoint: Event-free survival

Competitive advantage: ahead of competition; mostly enrolled

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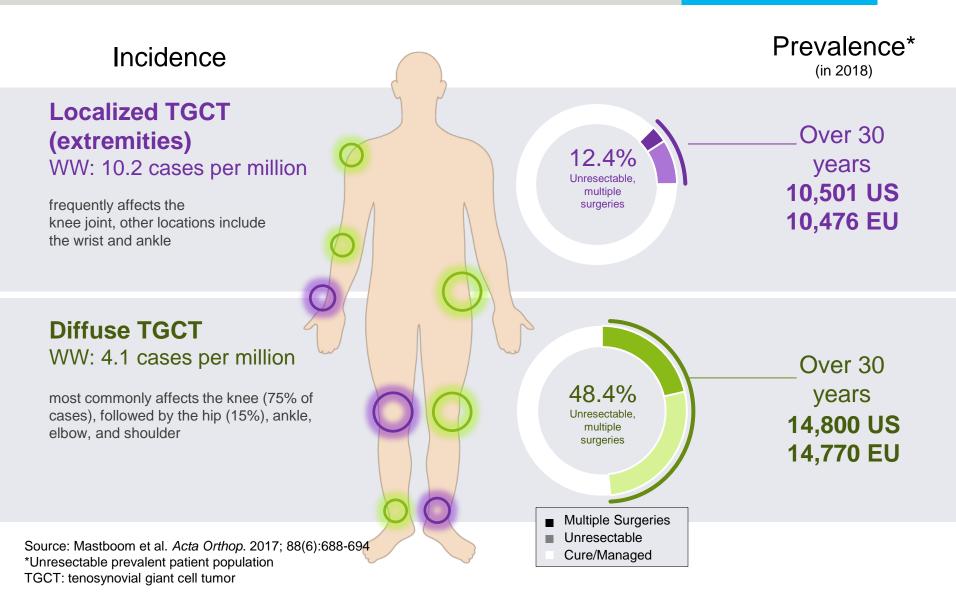
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TGCT is Rare, Non-malignant Disease with Large Pool of Prevalent Patients





Pexidartinib | Proposed Indication



"Pexidartinib" is indicated for treatment of adult patients with symptomatic tenosynovial giant cell tumor (TGCT), which is associated with severe morbidity or functional limitations, and which is not amenable to improvement with surgery.

US NDA submission in 2H FY2018





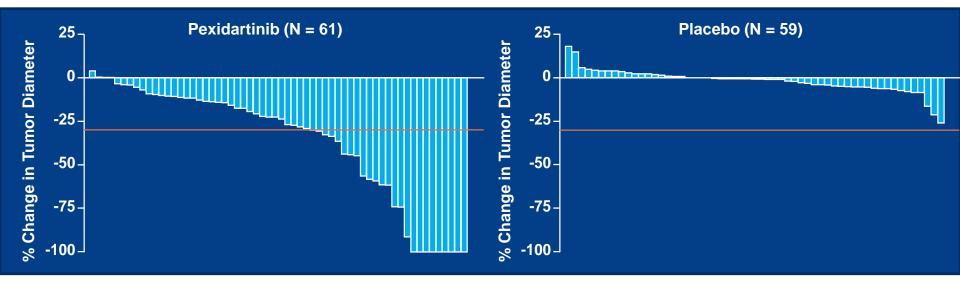




- TGCT: non-malignant tumor associated with pain, stiffness, and functional impairment
 - Analgesic use is common and may include opioids
- Large, diffuse disease is not amenable to surgical resection due to risk of morbidity or high risk of recurrence

Pexidartinib | ENLIVEN Study Efficacy & Safety





- TGCT: 4 non-fatal hepatic SAEs increased bilirubin, one lasting ~7 months
- Serious liver toxicity also observed in non-TGCT (N = 637), 1 case required liver transplant (breast cancer, in combination with paclitaxel) and 1 case associated with death (monotherapy in metastatic mucosal melanoma)
- Other AEs as previously reported

Liver Function, N (%)	Pexidartinib Part 1 N = 61	Placebo Part 1 N = 59	Pexidartinib Crossover 800 mg/d N = 30
AST or ALT ≥ 3 × ULN	20 (33)	0	4 (13)
TBili ≥ 2 × ULN	3 (5)	0	0
TBili ≥ 2 × ULN and AST or ALT ≥ 3 × ULN	3 [*] (5)	0	0

All had ALP ≥ 2.5 × ULN.

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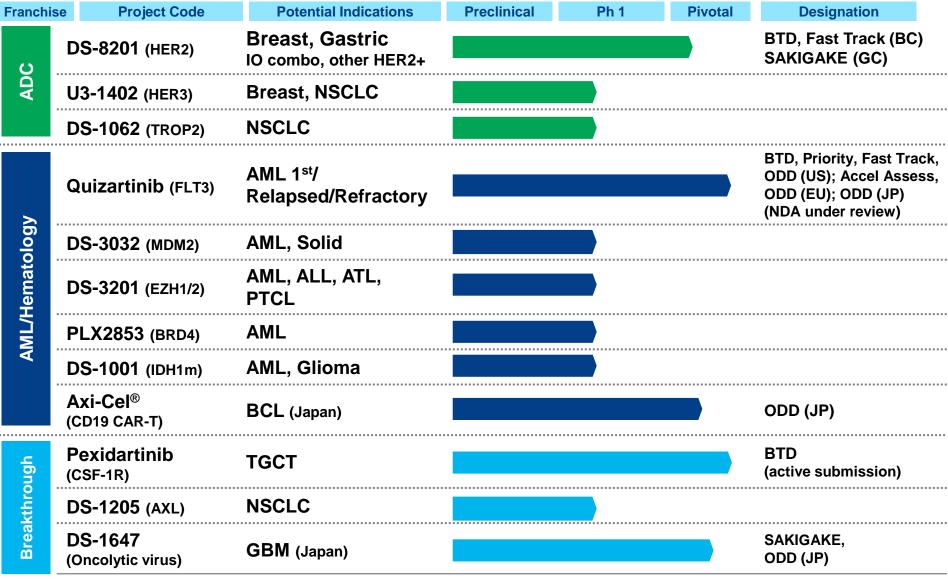
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Cancer Enterprise | Major Clinical Pipeline

As of Dec 2018





Cancer Enterprise | Upcoming Milestones





- Topline DS-8201 DESTINY-Breast01 results and update on potential1H FY2019 upside BLA submission
- Potential ASCO 2019 disclosures:
 - First disclosures for U3-1402 & DS-1062 in NSCLC
 - Updated U3-1402 breast cancer results



- Quizartinib marketing applications under expedited review in US, EU and Japan
 - FDA PDUFA May 25, 2019
 - EU (Accelerated Assessment) and Japan actions anticipated 2H FY2019



Pexidartinib US NDA submission in 2H FY2018

Cancer Enterprise | Deliver, Scale Up, Lead





Care. Compassion. Science. It's Our Obligation.

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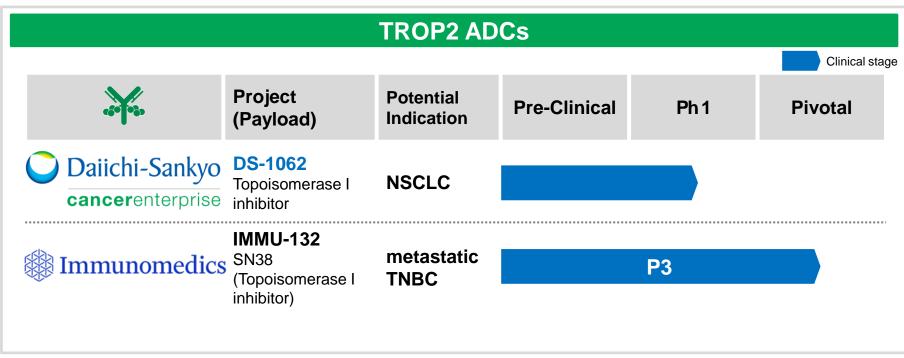
HER3 ADCs



HER3 ADCs					
					Clinical stag
	Project (Payload)	Potential Indication	Pre-Clinical	Ph1	Pivotal
Daiichi-Sankyo cancerenterprise	U3-1402 Topoisomerase I inhibitor	Breast, NSCLC			
MediaPharma S.r.l. Antibodies are the answer	MP-HER3-ADC Monomethyl Auristatin F	HER2+ BC post T-DM1			

TROP2 ADCs





TNBC: triple-negative breast cancer

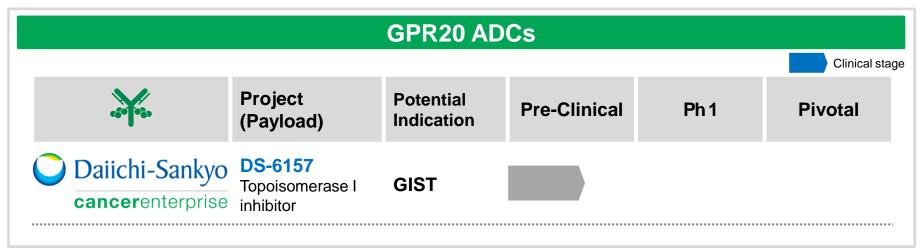
B7-H3 ADCs



		B7-H3 AD0	Cs		
					Clinical stag
****	Project (Payload)	Potential Indication	Pre-Clinical	Ph1	Pivotal
Daiichi-Sankyo cancerenterprise	DS-7300 Topoisomerase I inhibitor	Solid tumor			
MACRO GENICS	MGC018 Duocarmycin hydroxyBenzamide Azaidole	Advanced Solid Tumors	P1/2		

GPR20 ADCs

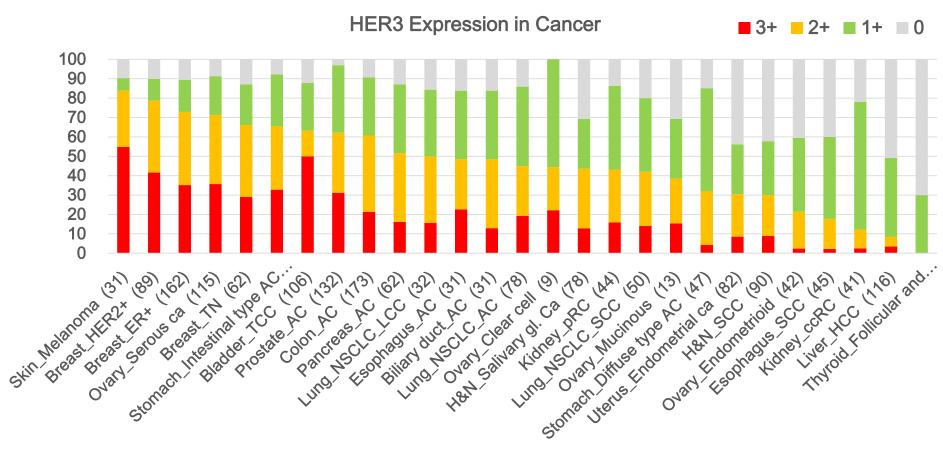




GIST: Gastrointestinal stromal tumor

HER3 Protein Expression Across Cancers





Data from internal analysis using in-house IHC assay of cancer tissue samples (TMA samples). Majority of tissue from primary tumor. Internal pathologist scored following internal HER3 scoring criteria.

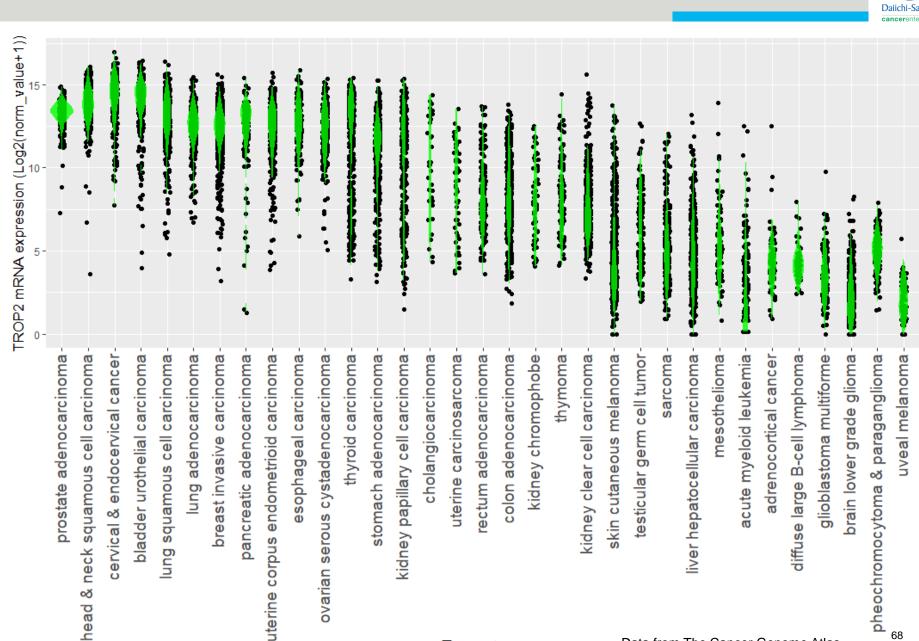
HER3-expression observed in many tumor types:

Breast, Lung, Prostate, Colorectal

Ovarian, Bladder, Melanoma, etc.

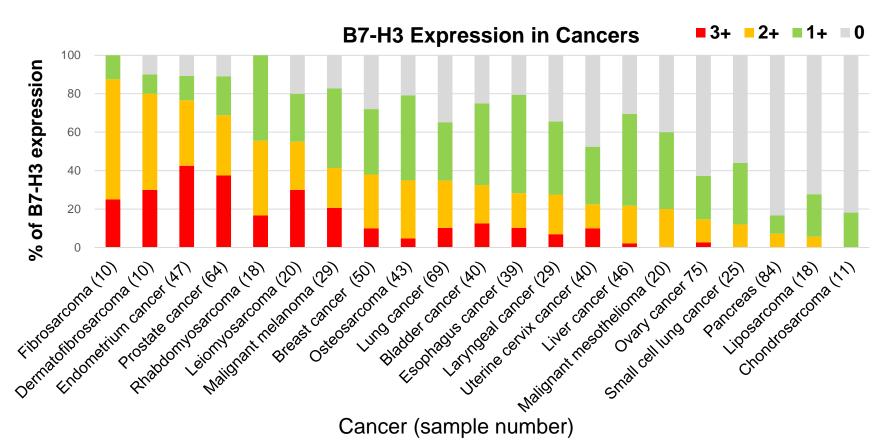
TROP2 Expression in Various Cancers





B7-H3 Protein Expression in Various Cancers





Data from internal analysis using in-house IHC assay of cancer tissue samples (purchased TMA samples). Majority of tissue from primary tumor. Internal pathologist scored following internal B7-H3 scoring criteria.

B7-H3-expression observed in several tumor types: Sarcoma, Endometrium, Melanoma, Prostate, Breast, Lung cancer, etc.

Abbreviations



Abbreviation	
BTD	Breakthrough therapy designation
CR	Complete response
DCR	Disease control rate
DLT	Dose limiting toxicity
DOR	Duration of response
EGFR	Epidermal growth factor receptor
MTD	Maximum tolerated dose
NSCLC	Non-small-cell lung cancer
ORR	Overall response rate Objective response rate
OS	Overall survival
PD	Progress disease
PFS	Progression-free survival
PR	Partial response
RDE	Recommended dose for expansion
TTR	Time to response