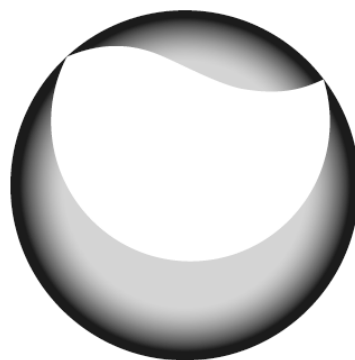


Reference Data

(Consolidated Financial Results for Q4 FY2022)



Daiichi-Sankyo

April 27, 2023

Daiichi Sankyo Co., Ltd.

<https://www.daiichisankyo.com>

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1. Consolidated Statement of Profit or Loss

JPY Bn	FY2021		FY2022					FY2023			
	to revenue	Results	to revenue	Results	(vs. Forecast (%))	YoY	YoY (%)	to revenue	Forecast	YoY	YoY (%)
Revenue	100.0%	1,044.9	100.0%	1,278.5	102.3%	233.6	+22.4%	100.0%	1,450.0	171.5	+13.4%
Cost of sales ^{※1}	33.3%	348.0	27.3%	349.1	103.3%	1.0	+0.3%	27.6%	400.0	50.9	+14.6%
Gross Profit	66.7%	696.9	72.7%	929.4	101.9%	232.6	+33.4%	72.4%	1,050.0	120.6	+13.0%
SG&A expenses ^{※1}	33.7%	352.1	36.8%	470.1	100.4%	118.0	+33.5%	37.9%	550.0	79.9	+17.0%
R&D expenses ^{※1}	24.3%	254.1	26.3%	336.7	103.9%	82.6	+32.5%	24.8%	360.0	23.3	+6.9%
Core Operating Profit	8.7%	90.6	9.6%	122.6	102.2%	32.0	+35.3%	9.7%	140.0	17.4	+14.2%
Temporary income ^{※2}		3.9		21.9		18.0			-	-21.9	
Temporary expenses ^{※2}		21.5		23.9		2.4			5.0	-18.9	
Operating Profit	7.0%	73.0	9.4%	120.6	92.8%	47.6	+65.1%	9.3%	135.0	14.4	+12.0%
Financial income/expenses		0.4		6.3		5.9					
Share of profit or loss of investments accounted for using the equity method		0.1		-0.0		-0.1					
Profit before tax	7.0%	73.5	9.9%	126.9	97.6%	53.3	+72.6%	9.3%	135.0	8.1	+6.4%
Income taxes		6.5		17.7		11.1					
Profit for the year	6.4%	67.0	8.5%	109.2	109.2%	42.2	+63.0%	7.9%	115.0	5.8	+5.3%
Profit attributable to owners of the Company	6.4%	67.0	8.5%	109.2	109.2%	42.2	+63.0%	7.9%	115.0	5.8	+5.3%
Tax rate		8.9%		13.9%							
Overseas sales ratio		46.6%		58.3%							
Currency Rate (Average)											
USD/JPY		112.38		135.48					130.00		
EUR/JPY		130.56		140.97					140.00		

Forex impact: +93.9
(USD: +64.1, EUR: +14.0, ASCA: +15.8)

Forex impact: +21.7
(USD: +19.0, EUR: +0.9, ASCA: +1.8)

Forex impact: +43.7
(USD: +34.2, EUR: +4.0, ASCA: +5.5)

Forex impact: +35.0
(USD: +31.3, EUR: +3.0, ASCA: +0.7)

Forex impact: -6.5
(USD: -20.4, EUR: +6.1, ASCA: +7.7)

Increase of interest income +6.2

Annual impact of one yen change

	Forecast	
	USD	EUR
Revenue	3.5 JPY Bn	1.7 JPY Bn
Operating Profit	-0.7 JPY Bn	0.5 JPY Bn

*This report is not subject to audit procedures.

※1 Temporary income and expenses are excluded for cost of sales, SG&A expenses and R&D expenses

※2 See page 2 for the definition of temporary income and expenses and the adjustment of operating profit and core operating profit

2. Sheet to adjust Operating Profit to Core Operating Profit

FY2021 Results

JPY Bn	Full base	Adjustment					Core base
		gains and losses related to sale of fixed assets	gains and losses related to restructuring	gains and losses related to impairment,	gains and losses related to loss compensation, reconciliation	Others	
Revenue	1,044.9						1,044.9
Cost of sales	353.4			-5.3		-0.1	348.0
SG&A expenses	362.5		-0.5	-0.0		-9.8	352.1
R&D expenses	260.3		-1.0	-5.2		-0.0	254.1
Other income*	4.3	-3.9				-0.4	-
Other expenses*	0.0	-0.0					-
Core Operating Profit**							90.6
Temporary income		3.9 ^{*1}				0.0	3.9
Temporary expenses		0.0	1.6	10.4 ^{*2}		9.5 ^{*3}	21.5
Operating Profit (full)	73.0						73.0

<Major Temporary income and Temporary expenses>

^{*1} Gains related to sale of fixed assets of Osaka logistics center

^{*2} Losses related to impairment of Intangible assets (Zelboraf etc.)

^{*3} Environmental expenditures related to former Yasugawa plant

FY2022 Results

JPY Bn	Full base	Adjustment					Core base
		gains and losses related to sale of fixed assets	gains and losses related to restructuring	gains and losses related to impairment,	gains and losses related to loss compensation, reconciliation	Others	
Revenue	1,278.5						1,278.5
Cost of sales	363.5			-14.2		-0.3	349.1
SG&A expenses	471.2			-0.0		-1.1	470.1
R&D expenses	341.6			-4.8		-0.0	336.7
Other income*	19.1	-12.8	-5.9			-0.4	-
Other expenses*	0.7	-0.0	-0.7				-
Core Operating Profit**							122.6
Temporary income		12.8 ^{*4}	5.9 ^{*5}	3.2 ^{*6}			21.9
Temporary expenses			0.7	22.3 ^{*7}		0.9	23.9
Operating Profit (full)	120.6						120.6

<Major Temporary income and Temporary expenses>

^{*4} Gains related to sale of fixed assets of Kyushu Branch Building etc.

^{*5} Gains on sale of a subsidiary in China

^{*6} Gains on reversal related to the closure of Plexxikon

^{*7} Losses related to impairment of Intangible assets (Turalio, DS-5141, Pentrox)

* The Company discloses profit and loss for which the offsetting of income and expenses is not permitted as Other income and Other expenses in the consolidated statement of income on a full basis (IFRS standards) from the current fiscal year. Profit and loss from the sale of assets, etc. are included in this Other income and Other expenses.

** As an indicator of ordinary profitability, "core operating profit" which excludes temporary income and expenses from operating income is disclosed. Gains and losses related to: sale of fixed assets, restructuring (excluding the sales of pipeline and launched products), impairment, loss compensation, reconciliation, and other non-temporary and material gains and losses are included in the "temporary income and expenses".

3. Revenue of Global Products (1)

JPY Bn		FY2021	FY2022				FY2023			
		Results	Results	(vs. Forecast (%))	YoY	YoY (%)	Forecast	YoY	YoY (%)	
	Trastuzumab deruxtecan anti-cancer agent (HER2-directed antibody drug conjugate)	80.8	258.4	(103.0%)	177.6	+219.7%	368.6	110.2	+42.6%	
	Product sales *Incl. Gross profit share in AstraZeneca territory	65.4	207.5	(103.6%)	142.2	+217.5%	320.0	112.5	+54.2%	
	Enhertu (JPN)	9.6	11.7	(94.2%)	2.2	+22.5%	19.9	8.2	+69.9%	
	Enhertu (US)	45.4	144.6	(102.1%)	99.2	+218.5%	195.1	50.5	+34.9%	
	Enhertu (EU)	9.0	37.1	(113.1%)	28.0	+310.0%	75.8	38.8	+104.6%	
	Enhertu (ASCA: Asia, South and Central America)	1.4	14.2	(104.4%)	12.8	+932.7%	29.2	15.1	+106.1%	
	Upfront payment	9.8	9.8	(100.0%)	-	-	9.8	-	-	
	Regulatory milestone payment	2.2	26.7	(100.3%)	24.5	-	11.6	-15.1	-56.7%	
	US HER2+ Breast Cancer 3L	0.9	0.9	(100.0%)	-	-	0.9	-	-	
	EU HER2+ Breast Cancer 3L	0.5	0.5	(100.0%)	-	-	0.5	-	-	
	US HER2+ Gastric Cancer 2L/3L	0.8	0.8	(100.0%)	-	-	0.8	-	-	
	US HER2+ Breast Cancer 2L	-	3.5	(100.0%)	3.5	-	0.9	-2.6	-75.0%	
	EU HER2+ Breast Cancer 2L	-	2.7	(100.0%)	2.7	-	0.7	-2.0	-75.0%	
	US HER2-low Breast Cancer (post chemo)	-	7.3	(100.0%)	7.3	-	1.8	-5.5	-75.0%	
	EU HER2-low Breast Cancer (post chemo)	-	5.2	(101.8%)	5.2	-	1.3	-3.9	-75.0%	
	EU HER2+ Gastric Cancer 2L	-	1.3	(100.0%)	1.3	-	0.3	-0.9	-75.0%	
	US HER2 mutant NSCLC 2L	-	4.6	(100.0%)	4.6	-	1.1	-3.4	-75.0%	
	EU HER2 mutant NSCLC 2L	-	-	-	-	-	3.2	3.2	-	
	Quid related payment*	3.4	1.1	(100.0%)	-2.3	-66.7%	1.1	-	-	
	Sales milestone payment	-	13.2	(101.4%)	13.2	-	26.0	12.8	+97.3%	
	*Payment which shall be paid by AstraZeneca to Daiichi Sankyo if both parties do not enter into potential licensing opportunity (Granting Daiichi Sankyo rights to develop or commercialize AstraZeneca's proprietary products, programs or technologies)									
	Datopotamab deruxtecan anti-cancer agent (TROP2-directed antibody drug conjugate)	6.1	7.1	(100.0%)	1.0	+16.5%	6.4	-0.7	-9.8%	
	Upfront payment	6.1	7.1	(100.0%)	1.0	+16.5%	6.4	-0.7	-9.8%	

3. Revenue of Global Products (2)

JPY Bn		FY2021	FY2022				FY2023		
		Results	Results	(vs. Forecast (%))	YoY	YoY (%)	Forecast	YoY	YoY (%)
Edoxaban	anticoagulant	205.6	244.0	(100.8%)	38.3	+18.6%	259.4	15.4	+6.3%
	Lixiana (JPN)	92.5	105.1	(99.9%)	12.7	+13.7%	109.9	4.8	+4.5%
	Savaysa (US)	1.9	3.0	(115.8%)	1.1	+55.1%	3.2	0.2	+5.1%
	Lixiana (EU)	96.9	117.1	(101.1%)	20.2	+20.8%	125.1	8.0	+6.8%
	Edoxaban (ASCA* etc.)	14.3	18.7	(102.5%)	4.4	+31.0%	21.2	2.5	+13.3%

*Asia, South and Central America

4. Revenue by Business Units and Products (1)

JPY Bn		FY2021	FY2022				FY2023		
		Results	Results	(vs. Forecast (%))	YoY	YoY (%)	Forecast	YoY	YoY (%)
Japan Business Unit		489.5	457.9	(97.5%)	-31.6	-6.4%	499.4	41.5	+9.1%
	Lixiana	92.5	105.1	(99.9%)	12.7	+13.7%	109.9	4.8	+4.5%
	Tarlige	30.1	38.5	(95.0%)	8.4	+27.8%	41.4	2.9	+7.5%
	Pralia	37.9	40.2	(98.9%)	2.3	+6.1%	43.5	3.3	+8.3%
	Efient	16.7	20.9	(99.7%)	4.2	+24.9%	18.8	-2.1	-10.1%
	Tenelia	23.7	21.9	(99.0%)	-1.7	-7.3%	20.9	-1.0	-4.7%
	Vimpat	18.3	21.9	(99.6%)	3.7	+20.0%	24.8	2.8	+12.9%
	Ranmark	20.4	20.4	(98.6%)	-0.1	-0.3%	21.3	0.9	+4.6%
	Canalia	16.8	16.3	(99.4%)	-0.5	-3.0%	17.1	0.8	+5.2%
	Loxonin	22.2	18.5	(97.8%)	-3.6	-16.4%	16.7	-1.8	-9.7%
	Enhertu	9.6	11.7	(94.2%)	2.2	+22.5%	19.9	8.2	+69.9%
	Emgality	4.6	6.3	(96.1%)	1.6	+35.1%	10.5	4.3	+67.9%
	Daiichi Sankyo Espha products	82.8	86.0	-	3.3	+3.9%	not disclosed	-	-
	Vaccines business	14.8	13.4	-	-1.3	-9.0%	not disclosed	-	-
Daiichi Sankyo Healthcare Unit		64.7	70.3	(103.1%)	5.6	+8.7%	74.4	4.1	+5.8%

4. Revenue by Business Units and Products (2)

JPY Bn	FY2021		FY2022				FY2023		
	Results		Results	(vs. Forecast (%))	YoY	YoY (%)	Forecast	YoY	YoY (%)
Oncology Business Unit	69.6		185.4	(104.2%)	115.8	+166.4%	276.2	90.7	+48.9%
Enhertu	54.4	anti-cancer agent (HER2-directed antibody drug conjugate)	181.6	(104.2%)	127.2	+233.7%	270.9	89.3	+49.1%
Enhertu (US)	45.4		144.6	(102.1%)	99.2	+218.5%	195.1	50.5	+34.9%
Enhertu (EU)	9.0		37.1	(113.1%)	28.0	+310.0%	75.8	38.8	+104.6%
TURALIO	2.8	anti-cancer agent	3.8	(105.5%)	1.0	+36.6%	3.5	-0.3	-6.7%
American Regent Unit	149.5		187.4	(100.8%)	37.9	+25.4%	198.7	11.4	+6.1%
Injectafer	53.1	treatment for iron deficiency anemia	54.0	(99.1%)	0.9	+1.7%	52.0	-1.9	-3.6%
Venofer	33.8	treatment for iron deficiency anemia	51.3	(105.3%)	17.5	+51.9%	44.1	-7.2	-14.1%
EU Specialty Business Unit	128.2		150.4	(101.4%)	22.2	+17.3%	161.0	10.6	+7.0%
Lixiana	96.9	anticoagulant	117.1	(101.1%)	20.2	+20.8%	125.1	8.0	+6.8%
Nilemdo/Nustendi	3.1	cholesterol-lowering agent	7.1	(98.6%)	3.9	+126.0%	15.9	8.9	+125.4%
Olmesartan	20.3	antihypertensive agent	20.0	(102.5%)	-0.3	-1.4%	16.3	-3.7	-18.6%
ASCA Business Unit	114.1		142.8	(99.7%)	28.6	+25.1%	156.3	13.5	+9.5%
Daiichi Sankyo China	53.3		58.3	(97.6%)	5.0	+9.3%	65.5	7.3	+12.4%
Daiichi Sankyo Korea	23.2		25.6	(101.3%)	2.4	+10.3%	25.8	0.2	+1.0%
Daiichi Sankyo Brasil Farmacêutica	13.7		27.8	(100.7%)	14.1	+102.8%	34.0	6.2	+22.5%
Daiichi Sankyo Taiwan	10.0		13.3	(101.1%)	3.3	+33.1%	13.2	-0.2	-1.2%
Daiichi Sankyo Thailand	2.2		2.9	(103.1%)	0.7	+33.6%	2.9	0.0	+0.2%
Daiichi Sankyo Hong Kong	1.7		3.5	(97.3%)	1.9	+112.7%	2.0	-1.5	-42.6%

4. Revenue by Business Units and Products (3)

[Reference] Revenue in Local Currency

	FY2021 Results	FY2022				FY2023		
		Results	(vs. Forecast (%))	YoY	YoY (%)	Forecast	YoY	YoY (%)
USD Mn								
Oncology Business Unit	619	1,369	(103.8%)	749	+121.0%	2,124	755	+55.2%
Enhertu	484	1,341	(103.7%)	856	+176.8%	2,084	743	+55.4%
Enhertu (US)	404	1,067	(101.7%)	663	+164.2%	1,500	433	+40.6%
Enhertu (EU)	80	274	(112.6%)	193	+240.1%	583	310	+113.3%
TURALIO	25	28	(105.0%)	3	+13.3%	27	-1	-2.8%
USD Mn								
American Regent Unit	1,330	1,383	(100.4%)	53	+4.0%	1,529	146	+10.5%
Injectafer	472	398	(98.7%)	-74	-15.6%	400	2	+0.5%
Venofer	300	379	(104.9%)	78	+26.0%	339	-39	-10.4%
EUR Mn								
EU Specialty Business Unit	982	1,067	(101.0%)	85	+8.6%	1,150	83	+7.8%
Lixiana	742	831	(100.7%)	88	+11.9%	894	63	+7.6%
Nilemdo/Nustendi	24	50	(98.2%)	26	+109.4%	114	64	+127.0%
Olmesartan	155	142	(102.1%)	-14	-8.7%	116	-26	-18.0%

5. Consolidated Statement of Financial Position

<Assets>

JPY Bn

	Mar. 2022	Mar. 2023	vs. Mar. 2022
Assets			
Current assets			
Cash and cash equivalents	662.5	441.9	-220.6
Trade and other receivables	266.7	349.1	82.4
Other financial assets	181.4	383.2	201.8
Inventories	217.9	301.6	83.7
Other current assets	16.8	19.2	2.4
Total current assets	1,345.3	1,495.1	149.8
Non-current assets			
Property, plant and equipment	304.1	348.9	44.8
Goodwill	83.6	98.3	14.8
Intangible assets	163.9	159.6	-4.3
Investments accounted for using the equity method	1.4	1.3	-0.1
Other financial assets	131.5	130.4	-1.1
Deferred tax assets	138.2	180.1	41.9
Other non-current assets	53.5	95.2	41.7
Total non-current assets	876.1	1,013.8	137.7
Total assets	2,221.4	2,508.9	287.5
* Liquidity on hand (Cash, Securities, Investment securities etc.)	842.9	824.4	-18.5
Debt with interest	213.6	192.9	-20.8
Net Cash	629.3	631.5	2.2

Acquisition +80.0, Depreciation -36.2, Forex +7.7

Acquisition +9.3, Forex +5.5

Acquisition +42.0, Depreciation -31.4, Impairment losses -22.3, Forex +7.4

Contribution for equipment +32.1

<Liabilities and equity>

JPY Bn

	Mar. 2022	Mar. 2023	vs. Mar. 2022
Liabilities			
Current liabilities			
Trade and other payables	324.8	424.0	99.3
Bonds and borrowings	20.4	41.4	21.0
Other financial liabilities	10.8	11.1	0.3
Income taxes payable	6.9	21.5	14.6
Provisions	6.8	7.6	0.8
Other current liabilities	25.6	24.7	-1.0
Total current liabilities	395.3	530.3	135.0
Non-current liabilities			
Bonds and borrowings	143.1	101.7	-41.4
Other financial liabilities	42.6	41.6	-1.0
Post employment benefit liabilities	2.6	1.3	-1.3
Provisions	18.3	16.4	-1.9
Deferred tax liabilities	12.4	12.6	0.2
Other non-current liabilities	256.2	359.1	102.9
Total non-current liabilities	475.3	532.8	57.5
Total liabilities	870.5	1,063.0	192.5
Equity			
Equity attributable to owners of the Company			
Share capital	50.0	50.0	-
Treasury shares	-37.5	-36.8	0.7
Other components of equity	168.1	200.9	32.7
Retained earnings	1,170.2	1,231.8	61.6
Total equity attributable to owners of the Company	1,350.9	1,445.9	95.0
Total equity	1,350.9	1,445.9	95.0
Total liabilities and equity	2,221.4	2,508.9	287.5

Repayment of syndicated loan -20.0
 Transfer of syndicated loan +20.0 (Transfer from Non-current liabilities "Bonds and borrowings")
 Transfer of bonds +20.0 (Transfer from Non-current liabilities "Bonds and borrowings")

Transfer of syndicated loan -20.0 (Transfer to Current liabilities "Bonds and borrowings")
 Transfer of bonds -20.0 (Transfer to Current liabilities "Bonds and borrowings")

Deferred revenue for datopotamab deruxtecan +35.8
 (Strategic collaboration upfront payment +35.8)
 Deferred revenue for trastuzumab deruxtecan +49.0
 (Strategic collaboration upfront payment -9.8, Regulatory milestone payment/Quid +58.8)

Currency translation difference +36.3, Valuation difference on financial assets -3.8

Profit for the period +109.2, Payment of dividends -54.6

6. Consolidated Statement of Cash Flows

JPY Bn

	FY2021	FY2022	YoY
Cash flows from operating activities			
Profit before tax	73.5	126.9	53.3
Depreciation and amortization	58.2	67.8	9.5
(Increase) decrease in receivables and payables	-5.8	-10.4	-4.7
Others, net	35.8	-23.4	-59.2
Income taxes paid	-22.6	-46.2	-23.7
Net cash flows from operating activities	139.2	114.5	-24.7
Cash flows from investing activities			
Net (increase) decrease in time deposits and securities	283.3	-185.9	-469.2
(Acquisition of) proceeds from sales of fixed assets	-70.8	-56.7	14.1
Payments for acquisition of subsidiaries	-	-30.8	-30.8
Proceeds from sale of subsidiaries	-	8.3	8.3
Net (increase) decrease in investment securities	0.1	-0.3	-0.4
Others, net	-0.2	7.7	7.9
Net cash flows from investing activities	212.3	-257.8	-470.1
Cash flows from financing activities			
Net (increase) decrease in borrowings	-20.4	-20.4	-0.0
Purchase of treasury shares	-0.0	-0.0	-0.0
Dividends paid	-51.7	-54.6	-2.9
Others, net	-14.1	-14.6	-0.5
Net cash flows from financing activities	-86.2	-89.6	-3.4
Net increase (decrease) in cash and cash equivalents	265.3	-232.9	-498.2
Cash and cash equivalents at the beginning of the period	380.5	662.5	281.9
Effect of exchange rate changes on cash and cash equivalents	16.6	12.3	-4.3
Cash and cash equivalents at the end of the period	662.5	441.9	-220.6
* Free cash flows (Cash flows from operating activities and investing activities)	351.6	-143.3	-494.8

7. Number of Employees

	Mar. 2022	Mar. 2023
	Results	Results
Consolidated	16,458	17,435
Japan	9,135	9,263
North America	2,706	3,062
Europe	2,279	2,554
Others	2,338	2,556

8. Capital Expenditure, Depreciation and Amortization

		FY2021	FY2022	FY2023
	JPY Bn	Results	Results	Forecast
Capital expenditure		56.2	71.5	48.5
Depreciation and amortization		58.2	67.8	57.0
Property, plant and equipment		33.2	36.3	-
Intangible assets		25.1	31.4	-

9. Other Financial Indicators

	FY2021	FY2022
	Results	Results
Profit attributable to owners of the Company	67.0 JPY Bn	109.2 JPY Bn
Dividends	51.8 JPY Bn	57.5 JPY Bn
Average equity attributable to owners of the Company for the period	1,311.5 JPY Bn	1,398.4 JPY Bn
Return on Equity (ROE)	5.1 %	7.8 %
Dividend on Equity (DOE)	3.9 %	4.1 %

10. Summary of Product Outlines

Brand Name	Generic Name	Therapeutic Category	Launched	Origin	Marketing Alliance	Type of Alliance
Japan Business Unit						
Lixiana	edoxaban	anticoagulant	2011	Daiichi Sankyo		
Tarlige	mirogabalin	pain treatment	2019	Daiichi Sankyo		
Pralia	denosumab	treatment for osteoporosis/ inhibitor of the progression of bone erosion associated with rheumatoid arthritis	2013	Amgen		
Efient	prasugrel	antiplatelet agent	2014	Daiichi Sankyo Ube Industries		
Tenelia	teneligliptin	type 2 diabetes mellitus treatment	2012	Mitsubishi Tanabe	Mitsubishi Tanabe	Co-promotion (DS: Sales)
Vimpat	lacosamide	anti-epileptic agent	2016	UCB	UCB	Co-promotion (DS: Sales)
Ranmark	denosumab	treatment for bone complications caused by bone metastases from tumors	2012	Amgen		
Canalia	teneligliptin / canagliflozin	type 2 diabetes mellitus treatment	2017	Mitsubishi Tanabe	Mitsubishi Tanabe	Co-promotion (DS: Sales)
Loxonin			1986	Daiichi Sankyo		
Loxonin Poultice	loxoprofen	anti-inflammatory analgesic	2006	Lead Chemical		
Loxonin Tape			2008	Lead Chemical		
Loxonin Gel			2010	Daiichi Sankyo		
Enhertu	trastuzumab deruxtecan	anti-cancer agent (HER2-directed antibody drug conjugate)	2020	Daiichi Sankyo		
Emgality	galcanezumab-gnlm	Prophylaxis of migraine attacks	2021	Eli Lilly Japan	Eli Lilly Japan	Co-promotion (DS: Sales)
Oncology Business Unit						
Enhertu	trastuzumab deruxtecan	anti-cancer agent (HER2-directed antibody drug conjugate)	2020	Daiichi Sankyo	AstraZeneca	Co-promotion (DS: Sales)
Turalio	pexidartinib	anti-cancer agent	2019	Daiichi Sankyo		
American Regent Unit						
Injectafer	ferric carboxymaltose injection	treatment for iron deficiency anemia	2013	CSL Vifor	Daiichi Sankyo, Inc.	Promotion (Daiichi Sankyo, Inc.)
Venofer	iron sucrose injection	treatment for iron deficiency anemia	2000	CSL Vifor	Fresenius	Co-marketing
EU Specialty Business Unit						
Lixiana	edoxaban	anticoagulant	2015	Daiichi Sankyo	Merck (MSD)	Co-marketing
Nilemdo/Nustendi	bempedoic acid, bempedoic acid / ezetimibe	cholesterol-lowering agent	2020	Esperion		
Olmesartan						
Olmetec	olmesartan		2002			
Olmetec Plus	olmesartan / hydrochlorothiazide	antihypertensive agent	2005	Daiichi Sankyo	Menarini Pfizer	Co-marketing
Sevikar	olmesartan / amlodipine		2009			
Sevikar HCT	olmesartan / amlodipine / hydrochlorothiazide		2010			

<11. Quarterly Data>

1. Consolidated Statement of Profit or Loss

JPY Bn	FY2021	FY2021	FY2021	FY2021	FY2021		FY2022	FY2022	FY2022	FY2022	FY2022			
	Q1	Q2	Q3	Q4	to revenue	Results	Q1	Q2	Q3	Q4	to revenue	Results	YoY	YoY (%)
	Results	Results	Results	Results			Results	Results	Results	Results				
Revenue	264.1	265.9	281.0	233.9	100.0%	1,044.9	280.3	327.5	340.5	330.2	100.0%	1,278.5	233.6	+22.4%
Cost of sales	85.2	87.4	90.6	84.8	33.3%	348.0	74.7	84.7	98.0	91.7	27.3%	349.1	1.0	+0.3%
Gross Profit	178.9	178.5	190.4	149.1	66.7%	696.9	205.6	242.8	242.5	238.5	72.7%	929.4	232.6	+33.4%
SG&A expenses	81.2	84.5	90.0	96.4	33.7%	352.1	96.3	113.4	121.1	139.3	36.8%	470.1	118.0	+33.5%
R&D expenses	54.0	55.0	60.1	85.0	24.3%	254.1	74.9	78.9	87.9	95.0	26.3%	336.7	82.6	+32.5%
Core Operating Profit	43.7	39.0	40.3	-32.4	8.7%	90.6	34.4	50.4	33.6	4.3	9.6%	122.6	32.0	+35.3%
Temporary income	2.1	0.0	0.0	1.8		3.9	0.0	10.8	0.2	10.9		21.9	18.0	
Temporary expenses	0.0	0.1	1.3	20.1		21.5	-	0.0	2.2	21.7		23.9	2.4	
Operating Profit	45.8	39.0	39.0	-50.7	7.0%	73.0	34.4	61.2	31.6	-6.5	9.4%	120.6	47.6	+65.1%
Financial income/expenses	1.3	-0.1	0.9	-1.7		0.4	-4.9	0.7	4.7	5.9		6.3	5.9	
Share of profit or loss of investments accounted for using the equity method	-0.0	0.0	0.0	0.1		0.1	-0.0	-0.0	-0.0	0.1		-0.0	-0.1	
Profit before tax	47.1	38.9	39.9	-52.4	7.0%	73.5	29.4	61.8	36.2	-0.6	9.9%	126.9	53.3	+72.6%
Income taxes	11.8	11.6	8.1	-25.0		6.5	10.6	22.4	7.8	-23.1		17.7	11.1	
Profit for the year	35.2	27.2	31.9	-27.3	6.4%	67.0	18.9	39.5	28.4	22.5	8.5%	109.2	42.2	+63.0%
Profit attributable to owners of the Company	35.2	27.2	31.9	-27.3	6.4%	67.0	18.9	39.5	28.4	22.5	8.5%	109.2	42.2	+63.0%
Tax rate	25.2%	29.9%	20.2%	-		8.9%	35.9%	36.2%	21.5%	-		13.9%		
Overseas sales ratio	44.7%	45.1%	45.7%	51.3%		46.6%	55.4%	58.1%	55.8%	63.4%		58.3%		
Currency Rate (YTD Average)														
USD/JPY	109.49	110.11	113.71	116.21		112.38	129.57	138.38	141.64	132.32		135.48		
EUR/JPY	131.95	129.83	130.07	130.40		130.56	138.10	139.34	144.35	142.07		140.97		

<11. Quarterly Data>

2. Revenue of Global Products

	FY2021 Q1	FY2021 Q2	FY2021 Q3	FY2021 Q4	FY2021	FY2022 Q1	FY2022 Q2	FY2022 Q3	FY2022 Q4	FY2022
JPY Bn	Results	Results	Results	Results	Results	Results	Results	Results	Results	Results
Trastuzumab deruxtecan	16.0	16.8	22.9	25.1	80.8	37.4	64.4	65.8	90.7	258.4
Product sales	13.0	13.8	16.8	21.9	65.4	31.3	48.2	60.2	67.8	207.5
Enhertu(JPN)	2.2	2.2	2.6	2.6	9.6	2.4	2.8	3.3	3.2	11.7
Enhertu (US)	9.6	10.1	11.9	13.8	45.4	20.0	35.3	44.5	44.8	144.6
Enhertu (EU)	1.2	1.4	2.3	4.1	9.0	6.7	7.0	8.6	14.8	37.1
Enhertu (ASCA: Asia, South and Central America)	-	-	-	1.4	1.4	2.2	3.2	3.8	5.0	14.2
Upfront payment	2.5	2.5	2.5	2.5	9.8	2.5	2.5	2.5	2.5	9.8
Regulatory milestone payment	0.6	0.6	0.6	0.6	2.2	3.4	13.5	2.9	7.0	26.7
US HER2+ Breast Cancer 3L	0.2	0.2	0.2	0.2	0.9	0.2	0.2	0.2	0.2	0.9
EU HER2+ Breast Cancer 3L	0.1	0.1	0.1	0.1	0.5	0.1	0.1	0.1	0.1	0.5
US HER2+ Gastric Cancer 2L/3L	0.2	0.2	0.2	0.2	0.8	0.2	0.2	0.2	0.2	0.8
US HER2+ Breast Cancer 2L	-	-	-	-	-	2.8	0.2	0.2	0.2	3.5
EU HER2+ Breast Cancer 2L	-	-	-	-	-	-	2.3	0.2	0.2	2.7
US HER2-low Breast Cancer (post chemo)	-	-	-	-	-	-	6.4	0.5	0.5	7.3
EU HER2-low Breast Cancer (post chemo)	-	-	-	-	-	-	-	-	5.2	5.2
EU HER2+ Gastric Cancer 2L	-	-	-	-	-	-	-	1.2	0.1	1.3
US HER2 Mutant NSCLC 2L	-	-	-	-	-	-	4.0	0.3	0.3	4.6
EU HER2 Mutant NSCLC 2L	-	-	-	-	-	-	-	-	-	-
QUID related payment	-	-	3.1	0.3	3.4	0.3	0.3	0.3	0.3	1.1
Sales milestone payment	-	-	-	-	-	-	-	-	13.2	13.2
Datopotamab deruxtecan	1.5	1.6	1.5	1.5	6.1	1.5	2.4	1.6	1.6	7.1
Upfront payment	1.5	1.6	1.5	1.5	6.1	1.5	2.4	1.6	1.6	7.1
Edoxaban	49.5	49.7	57.0	49.4	205.6	58.9	58.4	65.9	60.8	244.0
Lixiana (JPN)	22.9	21.9	25.6	22.0	92.5	25.1	25.6	28.8	25.6	105.1
Savaysa (US)	0.5	0.5	0.4	0.5	1.9	0.6	0.9	0.5	1.1	3.0
Lixiana (EU)	23.4	23.7	27.2	22.6	96.9	28.6	27.2	32.0	29.3	117.1
Edoxaban (ASCA* etc.)	2.7	3.6	3.8	4.2	14.3	4.6	4.7	4.7	4.7	18.7

*Asia, South and Central America

3. Revenue by Business Units and Products (1)	FY2021 Q1	FY2021 Q2	FY2021 Q3	FY2021 Q4	FY2021	FY2022 Q1	FY2022 Q2	FY2022 Q3	FY2022 Q4	FY2022
JPY Bn	Results	Results	Results	Results	Results	Results	Results	Results	Results	Results
Japan Business Unit	129.1	126.5	138.1	95.8	489.5	109.0	116.0	131.3	101.5	457.9
Lixiana	22.9	21.9	25.6	22.0	92.5	25.1	25.6	28.8	25.6	105.1
Tarlige	7.1	7.1	8.7	7.3	30.1	8.9	9.4	10.8	9.4	38.5
Pralia	9.2	9.3	10.3	9.2	37.9	9.9	9.4	11.1	9.8	40.2
Efient	4.1	3.9	4.7	4.0	16.7	4.9	5.0	5.8	5.2	20.9
Tenelia	6.4	5.7	6.5	5.1	23.7	5.6	5.4	6.0	4.9	21.9
Vimpat	4.5	4.4	5.1	4.3	18.3	5.3	5.3	6.1	5.2	21.9
Ranmark	5.1	5.0	5.5	4.8	20.4	4.9	5.1	5.5	4.8	20.4
Canalia	4.3	4.0	4.7	3.8	16.8	4.1	4.0	4.4	3.8	16.3
Loxonin	5.8	5.5	6.3	4.6	22.2	4.6	4.8	5.3	3.8	18.5
Enhertu	2.2	2.2	2.6	2.6	9.6	2.4	2.8	3.3	3.2	11.7
Emgality	0.9	1.2	1.3	1.2	4.6	1.4	1.6	1.7	1.5	6.3
Daiichi Sankyo Espha products	20.0	19.8	24.2	18.8	82.8	21.0	20.9	24.3	19.9	86.0
Vaccines business	1.4	4.0	12.3	-2.9	14.8	0.5	8.1	7.5	-2.7	13.4
Daiichi Sankyo Healthcare Unit	15.4	18.4	15.9	15.0	64.7	15.3	19.7	19.8	15.6	70.3

3. Revenue by Business Units and Products (2)	FY2021 Q1	FY2021 Q2	FY2021 Q3	FY2021 Q4	FY2021	FY2022 Q1	FY2022 Q2	FY2022 Q3	FY2022 Q4	FY2022
JPY Bn	Results	Results	Results	Results	Results	Results	Results	Results	Results	Results
Oncology Business Unit	14.5	16.6	18.1	20.4	69.6	27.5	43.2	54.0	60.7	185.4
Enhertu	10.8	11.6	14.2	17.9	54.4	26.7	42.3	53.1	59.6	181.6
Enhertu (US)	9.6	10.1	11.9	13.8	45.4	20.0	35.3	44.5	44.8	144.6
Enhertu (EU)	1.2	1.4	2.3	4.1	9.0	6.7	7.0	8.6	14.8	37.1
Turalio	0.6	0.7	0.7	0.8	2.8	0.8	0.9	0.9	1.1	3.8
American Regent Unit	39.1	37.9	38.7	33.8	149.5	47.0	47.1	49.4	43.8	187.4
Injectafer	14.9	14.1	13.4	10.7	53.1	14.1	13.3	14.4	12.1	54.0
Venofer	7.9	8.6	8.8	8.5	33.8	12.4	12.6	13.1	13.1	51.3
EU Specialty Business Unit	32.7	30.9	34.3	30.3	128.2	37.1	34.7	40.7	37.9	150.4
Lixiana	23.4	23.7	27.2	22.6	96.9	28.6	27.2	32.0	29.3	117.1
Nilemdo/Nustendi	0.7	0.9	0.6	0.9	3.1	1.3	1.5	2.1	2.2	7.1
Olmesartan	5.6	4.7	4.6	5.4	20.3	5.4	4.4	5.0	5.2	20.0
ASCA Business Unit	26.5	28.6	27.9	31.2	114.1	31.9	37.9	36.6	36.3	142.8
Daiichi Sankyo China	11.8	13.7	13.0	14.8	53.3	13.3	16.9	14.4	13.6	58.3
Daiichi Sankyo Korea	5.8	6.1	5.9	5.3	23.2	6.1	6.2	6.3	6.8	25.6
Daiichi Sankyo Brasil Farmacêutica	3.3	3.2	3.6	3.6	13.7	4.8	7.4	7.8	7.8	27.8
Daiichi Sankyo Taiwan	2.3	2.3	2.2	3.3	10.0	3.1	3.3	3.5	3.4	13.3
Daiichi Sankyo Thailand	0.5	0.5	0.5	0.6	2.2	0.6	0.7	0.8	0.8	2.9
Daiichi Sankyo Hong Kong	0.3	0.1	0.4	0.9	1.7	0.6	0.9	0.9	1.0	3.5

3. Revenue by Business Units and Products (3)	FY2021 Q1	FY2021 Q2	FY2021 Q3	FY2021 Q4	FY2021	FY2022 Q1	FY2022 Q2	FY2022 Q3	FY2022 Q4	FY2022
[Reference] Revenue in Local Currency	Results	Results	Results	Results	Results	Results	Results	Results	Results	Results
USD Mn										
Oncology Business Unit	132	150	160	177	619	212	315	386	455	1,369
Enhertu	99	105	125	155	484	206	309	379	447	1,341
Enhertu (US)	88	92	105	119	404	155	258	318	336	1,067
Enhertu (EU)	11	13	20	36	80	52	50	61	110	274
Turalio	6	6	6	7	25	6	7	7	9	28
USD Mn										
American Regent Unit	357	344	340	289	1,330	363	340	349	332	1,383
Injectafer	136	128	118	91	472	109	96	102	92	398
Venofer	72	78	77	73	300	96	91	93	99	379
EUR Mn										
EU Specialty Business Unit	248	238	263	232	982	269	249	282	267	1,067
Lixiana	177	182	209	174	742	207	195	222	207	831
Nilemdo/Nustendi	6	7	5	7	24	10	11	14	15	50
Olmesartan	43	36	36	41	155	39	32	35	37	142

<12. Historical Data>

1. Revenue of Global Products

	FY2017	FY2018	FY2019	FY2020	FY2021
JPY Bn	Results	Results	Results	Results	Results
Trastuzumab deruxtecan	-	0.1	14.0	43.5	80.8
Product sales	-	-	3.2	30.1	65.4
Enhertu (JPN)	-	-	-	4.4	9.6
Enhertu (US)	-	-	3.2	25.7	45.4
Enhertu (EU)	-	-	-	0.0	9.0
Enhertu (ASCA: Asia, South and Central America)	-	-	-	-	1.4
Upfront payment	-	0.1	9.8	9.8	9.8
Regulatory milestone payment	-	-	0.9	3.5	2.2
US HER2+ Breast Cancer 3L	-	-	0.9	0.9	0.9
EU HER2+ Breast Cancer 3L	-	-	-	1.0	0.5
US HER2+ Gastric Cancer 2L/3L	-	-	-	1.6	0.8
US HER2+ Breast Cancer 2L	-	-	-	-	-
EU HER2+ Breast Cancer 2L	-	-	-	-	-
US HER2-low Breast Cancer (post-chemo)	-	-	-	-	-
EU HER2+ Gastric Cancer 2L	-	-	-	-	-
US HER2 Mutant NSCLC 2L	-	-	-	-	-
QUID related payment	-	-	-	-	3.4
Datopotamab deruxtecan	-	-	-	3.9	6.1
Upfront payment	-	-	-	3.9	6.1
Edoxaban	77.1	117.7	154.0	165.9	205.6
Lixiana (JPN)	45.3	64.9	83.0	77.4	92.5
Savaysa (US)	2.2	2.3	2.6	3.0	1.9
Lixiana (EU)	27.0	45.8	61.7	76.7	96.9
Other subsidiaries	2.6	4.7	6.8	8.9	14.3

2. Revenue by Business Units and Products (1)

	FY2017	FY2018	FY2019	FY2020	FY2021
JPY Bn	Results	Results	Results	Results	Results
Japan Business Unit	540.0	523.3	533.5	489.1	489.5
Lixiana	45.3	64.9	83.0	77.4	92.5
Tarlige	-	-	8.0	20.6	30.1
Pralia	23.2	27.4	30.9	34.6	37.9
Efient	12.8	13.9	14.0	14.1	16.7
Tenelia	26.3	25.3	24.7	24.2	23.7
Vimpat	2.6	6.6	11.2	14.5	18.3
Ranmark	15.4	16.4	17.9	19.3	20.4
Canalia	2.7	9.2	12.8	15.4	16.8
Loxonin	36.5	30.5	28.3	24.2	22.2
Enhertu	-	-	-	4.4	9.6
Emgality	-	-	-	-	4.6
Inavir	25.3	18.2	19.3	3.6	1.3
Daiichi Sankyo Espha products	46.7	55.5	60.5	71.4	82.8
Vaccines business	41.9	41.5	35.6	18.5	14.8
Daiichi Sankyo Healthcare Unit	72.9	66.4	68.5	67.2	64.7

2. Revenue by Business Units and Products (2)

	FY2017	FY2018	FY2019	FY2020	FY2021
JPY Bn	Results	Results	Results	Results	Results
Oncology Business Unit	74.8	36.3	32.1	47.4	69.6
Enhertu	-	-	3.2	25.7	54.4
Enhertu (US)	-	-	3.2	25.7	45.4
Enhertu (EU)	-	-	-	0.0	9.0
Turalio	-	-	-	1.8	2.8
Olmesartan	21.3	10.7	9.8	8.6	5.0
Welchol	33.9	13.4	9.1	5.0	3.2
Effient	10.7	2.4	0.5	0.3	0.2
Savaysa	2.2	2.3	2.6	3.0	1.9
American Regent Unit	105.4	117.8	130.8	121.7	149.5
Injectafer	34.3	44.2	51.8	44.1	53.1
Venofer	31.0	28.9	31.0	28.8	33.8
EU Specialty Business Unit	79.4	88.6	95.5	111.7	128.2
Lixiana	27.0	45.8	61.7	76.7	96.9
Nilemdo/Nustendi	-	-	-	0.6	3.1
Olmesartan	33.5	27.4	24.6	21.5	20.3
Efient	8.0	5.7	2.5	1.6	1.5
ASCA Business Unit	80.4	87.7	98.3	99.7	114.1
Daiichi Sankyo China	35.3	38.5	46.0	45.6	53.3
Daiichi Sankyo Korea	11.8	15.7	17.2	19.6	23.2
Daiichi Sankyo Brasil Farmacêutica	10.1	10.0	11.5	10.5	13.7
Daiichi Sankyo Taiwan	6.6	7.1	7.6	8.3	10.0
Daiichi Sankyo Thailand	2.9	3.3	3.3	2.3	2.2
Daiichi Sankyo Hong Kong	-	-	-	0.7	1.7

2. Revenue by Business Units and Products (3)**[Reference] Revenue in Local Currency**

	FY2017	FY2018	FY2019	FY2020	FY2021
	Results	Results	Results	Results	Results
USD Mn					
Oncology Business Unit	674	327	295	447	619
Enhertu	-	-	30	243	484
Enhertu (US)	-	-	30	243	404
Enhertu (EU)	-	-	-	0	80
Turalio	-	-	-	17	25
Olmesartan	192	97	91	81	45
Welchol	306	121	84	47	28
Effient	96	22	4	3	2
Savaysa	20	21	24	28	17
USD Mn					
American Regent Unit	951	1,062	1,204	1,148	1,330
Injectafer	310	399	477	416	472
Venofer	279	261	285	272	300
EUR Mn					
EU Specialty Business Unit	613	690	789	903	982
Lixiana	208	357	509	620	742
Nilemdo/Nustendi	-	-	-	5	24
Olmesartan	258	213	203	174	155
Efient	62	44	21	13	12

13. Major R&D Pipeline (Innovative Pharmaceuticals)

As of Apr 2023

◆ Explanation of Description

Generic name/Project Code Number (mechanism of action)

Detail on its mechanism

Study Name	Population	Sample Size	Study Design	Evaluation Items	Region	Status
<ul style="list-style-type: none"> • Phase of the study • Study Name (if applicable) • CTG registration number • JapicCTI/jRCT registration number • Partner (if applicable) 	Patients and target indications for the study	Target sample size	Study design schematic (randomize or not, blinding or not, control group or not)	<ul style="list-style-type: none"> • Primary and secondary endpoints are listed • Safety measures are summarized as "safety" • Pharmacokinetic indices are summarized as "PK" 	Region under study (not consistent with region under development)	<ul style="list-style-type: none"> • Announcements as these trials open • Scheduled time to achieve TLR (LPD if achieved) • Schedule timing of submission for late-phase projects • Application status, status of obtaining various review preference systems, etc.

◆ List of Abbreviations

ADA: anti-drug antibody, ADC: antibody drug conjugate, AGA: actionable genomic alterations, AML: acute myeloid leukemia, BMFI: brain metastases-free interval, BOR: best overall response, CBR: clinical benefit rate, CR: complete remission, CRL: complete response letter, DCR: disease control rate, DDFS: distant disease-free survival, DFS: disease-free survival, DOR: duration of response, DRFI: distant recurrence-free interval, EFS: event-free survival, eGFR: estimated glomerular filtration rate, FPD: first patient dosed, FSD: first subject dosed, GMFR: geometric mean fold rise, GMT: geometric mean titer, IDFS: invasive disease-free survival, LPD: last patient dosed, MLFS: morphologic leukemia-free state, NSCLC: non small cell lung cancer, ORR: overall response rate/objective response rate, OS: overall survival, pCR: pathological complete response, PFS: progression-free survival, PK: pharmacokinetics, PR: partial remission, PRO: patient reported outcome, SCLC: small cell lung cancer, SCR: seroconversion rate, TLR: top line results, TNBC: triple negative breast cancer, TTD: Time to deterioration, TTR: time to response, UACR: urine albumin-creatinine ratio

◆ 3 ADCs

Trastuzumab deruxtecan/DS-8201/T-DXd (HER2-directed ADC)

Antibody-drug conjugate which is composed of a humanized monoclonal antibody specifically targeting HER2, one of the Epidermal Growth Factor Receptor (EGFR) family proteins, and a covalently linked drug (payload) via a cleavable linker. Payload is a potent and membrane permeable DNA topoisomerase I inhibitor which enables elimination of both target tumor cells and the surrounding tumor cells. Drug-to-antibody ratio is approximately 8.

Brand name: ENHERTU (JP/US/EU/China)

Study Name	Population	Sample Size	Study Design	Evaluation Items	Region	Status
Phase 2 (pivotal) DESTINY-Breast01 NCT03248492 JapicCTI-173693 AstraZeneca	HER2 positive breast cancer, 3L	253	Randomized, open label •DS-8201	Primary endpoint: ORR Secondary endpoint: ORR, DOR, PFS, OS, etc.	JP/US/EU /Asia	FPD: Oct 2017 TLR: May 2019 Jan 2020: Launch (US) May 2020: Launch (JP) Feb 2021: Launch (EU)
Phase 3 DESTINY-Breast02 NCT03523585 JapicCTI-184017 AstraZeneca	HER2 positive breast cancer, 3L	600	Randomized, open label, active control •DS-8201 •Physician's choice (trastuzumab + capecitabine or lapatinib + capecitabine)	Primary endpoint: PFS Secondary endpoint: OS, ORR, DOR, PFS, etc.	JP/US/EU /Asia	FPD: Sep 2018 TLR: Aug 2022
Phase 3 DESTINY-Breast03 NCT03529110 JapicCTI-183976 AstraZeneca	HER2 positive breast cancer, 2L	524	Randomized, open label, active control •DS-8201 •T-DM1	Primary endpoint: PFS Secondary endpoint: OS, ORR, DOR, PFS, etc.	JP/US/EU /Asia	FPD: Aug 2018 TLR: Aug 2021 May 2022: Approval (US) Jul 2022: Approval (EU) Nov 2022: Approval (JP) Feb 2023: Approval (CN) Aug 2021: Real Time Oncology Review Designation (US) Sep 2021: Breakthrough Therapy Designation (US)

Trastuzumab deruxtecan/DS-8201/T-DXd (HER2-directed ADC)

Study Name	Population	Sample Size	Study Design	Evaluation Items	Region	Status
Phase 3 DESTINY-Breast04 NCT03734029 JapicCTI-184223 AstraZeneca	HER2 low breast cancer, post chemotherapy	557	Randomized, open label, active control •DS-8201 •Physician's choice (capecitabine, eribulin, gemcitabine, paclitaxel or nab-paclitaxel)	Primary endpoint: PFS Secondary endpoint: OS, ORR, DOR, etc.	JP/US/EU /Asia	FPD: Dec 2018 TLR: Feb 2022 Aug 2022: Approval (US) Aug 2022: Filing accepted (CN) Jan 2023: Approval (EU) Mar 2023: Approval (JP) Feb 2022: Real Time Oncology Review Designation (US) Apr 2022: Breakthrough Therapy Designation (US) Aug 2022: Priority Review Designation (JP)
Phase 3 DESTINY-Breast05 NCT04622319 jRCT2061200033 AstraZeneca	HER2 positive breast cancer with residual invasive disease following neoadjuvant therapy, adjuvant therapy	1,600	Randomized, open label, active control •DS-8201 •T-DM1	Primary endpoint: IDFS Secondary endpoint: DFS, OS, DRFI, BMFI, safety, PK, etc.	JP/US/EU /Asia	FPD: Dec 2020
Phase3 DESTINY-Breast06 NCT04494425 jRCT2061200028 AstraZeneca	HER2 low/HR positive breast cancer, chemotherapy naïve	850	Randomized, open label, active control •DS-8201 •Physician's choice (capecitabine, paclitaxel or nab-paclitaxel)	Primary endpoint: PFS Secondary endpoint: OS, PFS, ORR, DOR, safety, etc.	JP/US/EU /Asia	FPD: Aug 2020 TLR anticipated: FY2023 H1
Phase1b/2 DESTINY-Breast07 NCT04538742 AstraZeneca	HER2 positive breast cancer Part 1: 2L or later Part 2: 1L	450	Open label, two-part (dose escalation, dose expansion) •DS-8201 + durvalumab •DS-8201 + pertuzumab •DS-8201 + paclitaxel •DS-8201 + durvalumab + paclitaxel •DS-8201 + tucatinib •DS-8201	Primary endpoint: Safety Secondary endpoint: ORR, PFS, DOR, OS, PK, etc.	US/EU /Asia	FPD: Jan 2021

Trastuzumab deruxtecan/DS-8201/T-DXd (HER2-directed ADC)

Study Name	Population	Sample Size	Study Design	Evaluation Items	Region	Status
Phase1b DESTINY-Breast08 NCT04556773 AstraZeneca	HER2 low breast cancer chemotherapy naïve, post chemotherapy	139	Open label, two-part (dose escalation, dose expansion) •DS-8201 + capecitabine •DS-8201 + durvalumab + paclitaxel •DS-8201 + capivasertib (AZD5363) •DS-8201 + anastrozole •DS-8201 + fulvestrant	Primary endpoint: Safety Secondary endpoint: ORR, PFS, DOR, OS, PK, etc.	US/EU /Asia	FPD: Jan 2021
Phase3 DESTINY-Breast09 NCT04784715 jRCT2031210130 AstraZeneca	HER2 positive breast cancer, 1L	1,134	Randomized, open label, active control •DS-8201 •DS-8201 + pertuzumab •Taxane + trastuzumab + pertuzumab	Primary endpoint: PFS Secondary endpoint: OS, PFS, ORR, DOR, PK, safety, etc.	JP/US/EU /Asia	FPD: Jun 2021
Phase3 DESTINY-Breast11 NCT05113251 jRCT2041210097 AstraZeneca	HER2 positive breast cancer, neoadjuvant	624	Randomized, open label, active control •DS-8201 •DS-8201, followed by paclitaxel + trastuzumab + pertuzumab •doxorubicin + cyclophosphamide, followed by paclitaxel + trastuzumab + pertuzumab	Primary endpoint: pCR Secondary endpoint: EFS, IDFS, OS	JP/US/EU /Asia	FPD: Nov 2021
Phase 1b/2 BEGONIA NCT03742102 AstraZeneca	TNBC	210	Non-randomized, open label, combination with durvalumab •DS-8201 + durvalumab * Umbrella study of durvalumab led by AstraZeneca	Primary endpoint: Safety Secondary endpoint: ORR, PFS, DOR, OS, PK, etc.	US/EU /Asia	FPD: May 2020
Phase 2 (pivotal) DESTINY-Gastric01 NCT03329690 JapicCTI-173727 AstraZeneca	HER2 expressing, gastric or gastroesophageal junction adenocarcinoma, 3L	233	Randomized, open label, active control •DS-8201 •Physician's choice (irinotecan or paclitaxel)	Primary endpoint: ORR Secondary endpoint: PFS, OS, DOR, DCR, TTF, ORR, PK	JP/Asia	FPD: Nov 2017 TLR: Jan 2020 Sep 2020: Approval (JP) Jan 2021: Approval (US) Dec 2022: Approval (EU) Mar 2018: SAKIGAKE Designation (JP) May 2020: Breakthrough Therapy Designation (US) May 2020: Orphan Drug Designation (US)

Trastuzumab deruxtecan/DS-8201/T-DXd (HER2-directed ADC)

Study Name	Population	Sample size	Study Design	Evaluation Items	Region	Status
Phase 2 DESTINY-Gastric02 NCT04014075 AstraZeneca	HER2 positive gastric or gastroesophageal junction adenocarcinoma, 2L	79	Open label •DS-8201	Primary endpoint: ORR Secondary endpoint: PFS, ORR, OS, DOR	US/EU	FPD: Dec 2019 TLR: Jun 2021 Dec 2022: Approval (EU)
Phase 1b/2 DESTINY-Gastric03 NCT04379596 jRCT2031200203 AstraZeneca	HER2 positive gastric/gastroesophageal junction and esophageal adenocarcinoma Part 1: 2L Part 2: 1L	255	Randomized, open label Part 1 •DS-8201 + fluorouracil •DS-8201 + capecitabine •DS-8201 + durvalumab •DS-8201 + oxaliplatin + fluorouracil •DS-8201 + capecitabine + oxaliplatin •DS-8201 + durvalumab + fluorouracil •DS-8201 + capecitabine + durvalumab Part 2 •DS-8201 •DS-8201 + oxaliplatin + fluorouracil or capecitabine •DS-8201 + pembrolizumab + fluorouracil or capecitabine •DS-8201 + pembrolizumab •Trastuzumab + fluorouracil or capecitabine + cisplatin or oxaliplatin	Primary endpoint: Part 1: Safety, Part 2: ORR Secondary endpoint: ORR, safety, DOR, DCR, PFS, OS, PK, ADA	JP/US/EU /Asia	FPD: Jun 2020
Phase 3 DESTINY-Gastric04 NCT04704934 jRCT2031200369 AstraZeneca	HER2 positive gastric or gastroesophageal junction adenocarcinoma, 2L	490	Randomized, open label •DS-8201 •Ramucirumab + paclitaxel	Primary endpoint: OS Secondary endpoint: PFS, ORR, DOR, DCR, safety, PK, ADA, etc.	JP/EU /Asia	FPD: Jun 2021

Trastuzumab deruxtecan/DS-8201/T-DXd (HER2-directed ADC)

Study Name	Population	Sample Size	Study Design	Evaluation Items	Region	Status
Phase 2 DESTINY-Gastric06 NCT04989816 AstraZeneca	HER2 positive gastric or gastroesophageal junction adenocarcinoma, 3L	100	Open label •DS-8201	Primary endpoint: ORR Secondary endpoint: ORR, PFS, DCR, DOR, OS, Tumor size change, PK, ADA	China	FPD: Sep 2021
Phase 2 DESTINY-Lung01 NCT03505710 JapicCTI-183916 AstraZeneca	HER2 overexpressing or HER2 mutant NSCLC, 2L or later	181	Non-randomized, open label HER2 overexpressing NSCLC •DS-8201 6.4mg/kg •DS-8201 5.4mg/kg HER2 mutant NSCLC •DS-8201 6.4mg/kg	Primary endpoint: ORR Secondary endpoint: ORR, DOR, PFS, OS, DCR	JP/US/EU	FPD: May 2018 TLR: Jun 2021 HER2 mutant NSCLC Aug 2022: Approval (US) (with consideration of the interim analysis data of DESTINY-Lung02) Dec 2022: Filing accepted (JP) Jan 2023: Filing accepted (EU) May 2020: Breakthrough Therapy Designation (US) Sep 2022: Orphan Drug Designation (JP)
Phase 2 DESTINY-Lung02 NCT04644237 jRCT2061200038 AstraZeneca	HER2 mutant NSCLC, 2L or later	152	Randomized, double blind •DS-8201: 6.4mg/kg •DS-8201: 5.4mg/kg	Primary endpoint: ORR Secondary endpoint: ORR, DOR, DCR, PFS, OS, safety	JP/US/EU /Asia	FPD: Mar 2021 Aug 2022: Approval (US) Dec 2022: Filing accepted (JP) Jan 2023: Filing accepted (EU)
Phase 1b DESTINY-Lung03 NCT04686305 AstraZeneca	HER2 positive NSCLC, 1L	136	Non-randomized, three-part (safety run-in, dose escalation, dose expansion) •DS-8201 + durvalumab + cisplatin •DS-8201 + durvalumab + carboplatin •DS-8201 + durvalumab + pemetrexed •DS-8201 + durvalumab	Primary endpoint: Safety Secondary endpoint: ORR, DOR, DCR, PFS, OS, PK, etc.	EU/Asia	FPD: Nov 2021
Phase 3 DESTINY-Lung04 NCT05048797 jRCT2011210058 AstraZeneca	NSCLC with HER2 exon 19 or exon 20 mutation, 1L	264	Randomized, open label •DS-8201 •pemetrexed + pembrolizumab + cisplatin or carboplatin	Primary endpoint: PFS Secondary endpoint: OS, PFS, ORR, DOR, safety, PK, etc.	JP/US/EU /Asia	FPD: Dec 2021

Trastuzumab deruxtecan/DS-8201/T-DXd (HER2-directed ADC)

Study Name	Population	Sample Size	Study Design	Evaluation Items	Region	Status
Phase 2 DESTINY-Lung05 NCT05246514 AstraZeneca	NSCLC with HER2 exon 19 or exon 20 mutation, 2L or later	66	Open label •DS-8201	Primary endpoint: ORR Secondary endpoint: ORR, DOR, DCR, PFS, OS, PK, ADA, safety	China	FPD: Aug 2022
Phase 2 HUDSON NCT03334617 AstraZeneca	NSCLC, 2L or later	420	Non-randomized, open label, combination with durvalumab •DS-8201 + durvalumab * Umbrella study of durvalumab led by AstraZeneca	Primary endpoint: ORR Secondary endpoint: DCR, best percentage change in tumor size, DOR, PFS, OS	US/EU /Asia	FPD: Jun 2020
Phase 2 DESTINY-CRC01 NCT03384940 JapicCTI-173808 AstraZeneca	HER2 expressing colorectal cancer, 3L	86	Non-randomized, open label •DS-8201	Primary endpoint: ORR Secondary endpoint: PFS, OS, DOR, DCR, ORR, PK	JP/US/EU	FPD: Mar 2018 Study completed: Nov 2020
Phase 2 DESTINY-CRC02 NCT04744831 jRCT2051200124 AstraZeneca	HER2 overexpressing colorectal cancer, 3L	122	Randomized, double blind •DS-8201 : 6.4mg/kg •DS-8201 : 5.4mg/kg	Primary endpoint: ORR Secondary endpoint: DOR, DCR, PFS, OS, PK, PRO, safety, etc.	JP/US/EU /Asia	FPD: Mar 2021 TLR: Jan 2023
Phase 2 DESTINY-PanTumor01 NCT04639219 jRCT2031210132 AstraZeneca	HER2 mutant tumors (e.g. colorectal cancer, urothelial cancer, gastric cancer, hepatobiliary cancer, endometrial cancer, melanoma, ovarian cancer, cervical cancer, salivary gland cancer, pancreatic cancer, breast cancer)	102	Open label •DS-8201	Primary endpoint: ORR Secondary endpoint: DOR, DCR, PFS, ORR, OS, safety, PK, ADA	JP/US/EU /Asia	FPD: Jan 2021 TLR: Apr 2023

Trastuzumab deruxtecan/DS-8201/T-DXd (HER2-directed ADC)

Study Name	Population	Sample Size	Study Design	Evaluation Items	Region	Status
Phase 2 DESTINY-PanTumor02 NCT04482309 AstraZeneca	HER2 expressing tumors (bladder cancer, biliary tract cancer, cervical cancer, endometrial cancer, ovarian cancer, pancreatic cancer, rare tumors)	268	Non-randomized •DS-8201	Primary endpoint: ORR Secondary endpoint: DOR, DCR, PFS, OS, safety, PK, ADA	US/EU /Asia	FPD: Oct 2020 IA TLR: Mar 2023
Phase 1 NCT03523572 BMS	HER2 positive/low breast cancer HER2 positive/low urothelial carcinoma	99	Non-randomized, open label, combination with nivolumab, two-part (dose escalation, dose expansion) •DS-8201 + nivolumab	Primary endpoint: ORR, safety Secondary endpoint: DOR, DCR, PFS, OS, ORR	US/EU	FPD: Aug 2018 TLR: Sep 2021
Phase 1 NCT04042701 Merck	HER2 positive/low breast cancer HER2 expressing/HER2 mutant NSCLC	115	Non-randomized, open label, combination with pembrolizumab •DS-8201 + pembrolizumab	Primary endpoint: Safety, ORR Secondary endpoint: DOR, DCR, PFS, TTR, OS	US/EU	FPD: Apr 2020
Phase 1/2a PETRA NCT04644068 AstraZeneca	Solid tumors	715	Non-randomized, open label, combination with AZD5305 •DS-8201 + AZD5305	Primary endpoint: Safety Secondary endpoint: Tumor size change, ORR, DOR, PFS, TTR, PK, ADA, etc	US/EU /Asia	FPD: Sep 2022

Datopotamab deruxtecan/DS-1062/Dato-DXd (TROP2-directed ADC)

Antibody-drug conjugate which is composed of a humanized monoclonal antibody specifically targeting TROP2 (Research collaboration with Sapporo Medical University). TROP2 is an antigen highly expressed on the cell membrane of cancer cells, and a covalently linked drug (payload) via a cleavable linker. Payload is a potent and membrane permeable DNA topoisomerase I inhibitor which enables elimination of both target tumor cells and the surrounding tumor cells. Drug-to-antibody ratio is approximately 4.

Study Name	Population	Sample Size	Study Design	Evaluation Items	Region	Status
Phase 1 TROPION- PanTumor01 NCT03401385 JapicCTI-173812 AstraZeneca	NSCLC TNBC HR positive, HER2 low or negative breast cancer SCLC Transitional cell carcinoma of the urothelium HER2 negative gastroesophageal cancer Esophageal cancer Prostate cancer, etc.	770	Open label, two-part (dose escalation, dose expansion) •DS-1062	Primary endpoint: Safety Secondary endpoint: PK, ADA	JP/US	FPD: Feb 2018
Phase 1/2 TROPION- PanTumor02 NCT05460273 AstraZeneca	NSCLC TNBC	118	Open label •DS-1062	Primary endpoint: ORR Secondary endpoint: ORR, DOR, DCR, BOR, TTR, PFS, OS, safety, PK, etc.	China	FPD: Jul 2022
Phase 2 TROPION- PanTumor03 NCT05489211 jRCT2031220404 AstraZeneca	Endometrial cancer Gastric cancer Castration-resistant prostate cancer Ovarian cancer Colorectal cancer	531	Open label •DS-1062 •DS-1062 in combination with approved or novel anticancer agents	Primary endpoint: ORR, safety Secondary endpoint: PFS, DOR, DCR, best percentage change in tumor size, ADA, PK, etc.	JP/US/EU /Asia	FPD: Sep 2022
Phase 3 TROPION-Lung01 NCT04656652 jRCT2071200104 AstraZeneca	NSCLC, 2L/3L	590	Randomized, open label, active control •DS-1062 •Docetaxel	Primary endpoint: PFS, OS Secondary endpoint: PFS, ORR, DOR, TTR, DCR, safety, PK, ADA	JP/US/EU /Asia	FPD: Feb 2021 TLR anticipated: FY2023 H1

Datopotamab deruxtecan/DS-1062/Dato-DXd (TROP2-directed ADC)

Study Name	Population	Sample Size	Study Design	Evaluation Items	Region	Status
Phase 1 TROPION-Lung02 NCT04526691 jRCT2031200193 Merck AstraZeneca	NSCLC (without AGA) Part 1: 3L or later Part 2: 1L/2L	140	Open label, combination with pembrolizumab, two-part (dose escalation, dose expansion) •DS-1062 + pembrolizumab ± platinum chemotherapy	Primary endpoint: Safety and tolerability Secondary endpoint: ORR, DOR, PFS, OS, PK, ADA	JP/US/EU /Asia	FPD: Oct 2020
Phase 1 TROPION-Lung04 NCT04612751 jRCT2031200449 AstraZeneca	NSCLC (without AGA), 1L/2L	232	Open label, combination with durvalumab, two-part (dose escalation, dose expansion) •DS-1062 + durvalumab ± carboplatin •DS-1062 + AZD2936 ± carboplatin •DS-1062 + MEDI5752 ± carboplatin	Primary endpoint: Safety and tolerability Secondary endpoint: ORR, DOR, PFS, TTR, OS, PK, ADA, etc.	JP/US/EU	FPD: Mar 2021
Phase 2 TROPION-Lung05 NCT04484142 jRCT2041200097 AstraZeneca	NSCLC (with AGA)	137	Open label •DS-1062	Primary endpoint: ORR Secondary endpoint: DOR, PFS, OS, safety, PK, ADA	JP/US/EU /Asia	FPD: Mar 2021 TLR: Mar 2023
Phase 3 TROPION-Lung07 NCT05555732 jRCT2061220066 Merck AstraZeneca	non-squamous NSCLC (without AGA and PD-L1 <50%), 1L	975	Randomized, open label, active control •DS-1062 + pembrolizumab + cisplatin or carboplatin •DS-1062 + pembrolizumab •Pembrolizumab + pemetrexed + cisplatin or carboplatin	Primary endpoint: PFS, OS Secondary endpoint: ORR, PFS, DOR, TTR, DCR, TTD, safety, ADA, etc.	JP/US/EU /Asia	FPD: Jan 2023
Phase 3 TROPION-Lung08 NCT05215340 jRCT2061210074 Merck AstraZeneca	NSCLC (without AGA and PD-L1 ≥ 50%), 1L	740	Randomized, open label, active control •DS-1062 + pembrolizumab •Pembrolizumab	Primary endpoint: PFS, OS Secondary endpoint: ORR, PFS, DOR, TTR, DCR, TTD, safety, ADA, etc.	JP/US/EU /Asia	FPD: Mar 2022

Datopotamab deruxtecan/DS-1062/Dato-DXd (TROP2-directed ADC)

Study Name	Population	Sample Size	Study Design	Evaluation Items	Region	Status
Phase 1b/2 BEGONIA NCT03742102 AstraZeneca	TNBC, 1L	210	Non-randomized, open label, combination with durvalumab •DS-1062 + durvalumab * Umbrella study of durvalumab led by AstraZeneca	Primary endpoint: Safety Secondary endpoint: ORR, PFS, DOR, OS, PK	US/EU /Asia	FPD: May 2021
Phase 3 TROPION-Breast01 NCT05104866 jRCT2031210440 AstraZeneca	HR positive, HER2 low or negative breast cancer, 2L/3L	733	Randomized, open label, active control •DS-1062 * Physician's choice (capecitabine, gemcitabine, eribulin or vinorelbine)	Primary endpoint: PFS, OS Secondary endpoint: ORR, DOR, PFS, DCR, PK, ADA, etc	JP/US/EU /Asia	FPD: Nov 2021 TLR anticipated: FY2023 H1
Phase 3 TROPION-Breast02 NCT05374512 jRCT2061220029 AstraZeneca	TNBC, 1L	600	Randomized, open label, active control •DS-1062 * Physician's choice (paclitaxel, nab-paclitaxel, carboplatin, capecitabine, eribulin)	Primary endpoint: PFS, OS Secondary endpoint: ORR, DOR, PFS, TTD, PK, ADA, safety, etc	JP/US/EU /Asia	FPD: Jun 2022
Phase 3 TROPION-Breast03 NCT05629585 AstraZeneca	TNBC with residual invasive disease following neoadjuvant therapy, adjuvant therapy	1,075	Randomized, open label, active control •DS-1062 + durvalumab •DS-1062 •Physician's choice (capecitabine, pembrolizumab, capecitabine + pembrolizumab)	Primary endpoint: IDFS Secondary endpoint: DDFS, OS, IDFS, TTD, fatigue, PK, ADA, safety and tolerability	JP/US/EU /Asia	FPD: Dec 2022
Phase 1/2a PETRA NCT04644068 AstraZeneca	Solid tumors	715	Non-randomized, open label, combination with AZD5305 •DS-1062 + AZD5305	Primary endpoint: Safety Secondary endpoint: Tumor size change, ORR, DOR, PFS, TTR, PK, ADA, etc	JP/US/EU /Asia	FPD: Mar 2022
Phase 2 ORCHARD NCT03944772 AstraZeneca	EGFR mutated NSCLC, 2L	210	Non-randomized, open label •DS-1062 + osimertinib * Platform study of osimertinib led by AstraZeneca	Primary endpoint: ORR Secondary endpoint: PFS, DOR, OS, PK, safety, etc.	JP/US/EU /Asia	FPD: Jul 2022

Datopotamab deruxtecan/DS-1062/Dato-DXd (TROP2-directed ADC)

Study Name	Population	Sample Size	Study Design	Evaluation Items	Region	Status
Phase 2 prep NeoCOAST-2 NCT05061550 AstraZeneca	Resectable, early-stage NSCLC, neoadjuvant	350	Non-randomized, open label •DS-1062 + durvalumab + single agent platinum chemotherapy as neoadjuvant treatment and durvalumab as adjuvant treatment * Platform study of durvalumab led by AstraZeneca	Primary endpoint: pCR, safety Secondary endpoint: EFS, DFS, ORR, OS, etc.	US/EU /Asia	

Patritumab deruxtecan/U3-1402/HER3-DXd (HER3-directed ADC)

Antibody-drug conjugate which is composed of fully human monoclonal antibody specifically targeting HER3, one of the Epidermal Growth Factor Receptor (EGFR) family proteins, and a covalently linked drug (payload) via a cleavable linker. Payload is a potent and membrane permeable DNA topoisomerase I inhibitor which enables elimination of both target tumor cells and the surrounding tumor cells. Drug-to-antibody ratio is approximately 8.

Study Name	Population	Sample Size	Study Design	Evaluation Items	Region	Status
Phase 1/2 NCT02980341 JapicCTI-163401	Breast cancer	184	Randomized, open label, two-part (dose escalation, dose expansion) •U3-1402	Primary endpoint: Safety, antitumor effect Secondary endpoint: PK, ADA	JP/US	FPD: Dec 2016
Phase 1 NCT03260491 JapicCTI-194868	NSCLC	264	Non-randomized, open label, two-part (dose escalation, dose expansion) •U3-1402	Primary endpoint: Safety and tolerability, ORR, PK Secondary endpoint: PK, ADA, ORR, DCR, DOR, TTR, PFS, OS, safety	JP/US/EU /Asia	FPD: Feb 2018
Phase 2 (pivotal) HERTHENA-Lung01 NCT04619004 jRCT2031200186	EGFR mutated NSCLC, 3L	420	Randomized, open label •U3-1402	Primary endpoint: ORR Secondary endpoint: DOR, PFS, ORR, DCR, TTR, OS, safety, etc.	JP/US/EU /Asia	FPD: Feb 2021 TLR: FY2022 Q4 Dec 2021: Breakthrough Therapy Designation (US)
Phase 3 HERTHENA-Lung02 NCT05338970 jRCT2021220002	EGFR mutated NSCLC, 2L	560	Randomized, open label, active control •U3-1402 •Platinum-based chemotherapy	Primary endpoint: PFS Secondary endpoint: OS, PFS, ORR, DOR, CBR, DCR, safety, etc.	JP/US/EU /Asia	FPD: Aug 2022
Phase 1 NCT04676477 jRCT2031200247 AstraZeneca	EGFR mutated NSCLC, 1/2L	252	Non-randomized, open label, two-part (dose escalation, dose expansion) •U3-1402 + Osimertinib	Primary endpoint: Safety and tolerability, ORR Secondary endpoint: ORR, DOR, DCR, TTR, PFS, OS, safety, PK, etc.	JP/US	FPD: Jun 2021

◆ Alpha (Oncology Late-Stage Pipeline Products)

Quizartinib/AC220 (FLT3 inhibitor)

Kinase inhibitor against a receptor-type tyrosine kinase, FLT3. Therapeutic effect for patients with acute myeloid leukemia harboring FLT3-ITD mutation is expected.

Brand name: VANFLYTA (JP)

Study Name	Population	Sample Size	Study Design	Evaluation Items	Region	Status
Phase 3 QuANTUM-R NCT02039726	FLT3-ITD positive AML, relapsed/refractory	367	Randomized, open label, active-controlled •Quizartinib •Chemotherapy	Primary endpoint: OS Secondary endpoint: EFS	JP/US/EU /Asia	FPD: May 2014 TLR: May 2018 Jun 2019: Received CRL (US) Oct 2019: Launch (JP) Oct 2019: Received negative CHMP opinion (EU) Mar 2009: Orphan Drug Designation (US/EU)
Phase 3 QuANTUM-First NCT02668653 JapicCTI-173667	FLT3-ITD positive AML, 1L	539	Randomized, double-blind, placebo-controlled •Quizartinib + chemotherapy •Placebo + chemotherapy	Primary endpoint: OS Secondary endpoint: EFS, etc.	JP/US/EU /Asia	FPD: Sep 2016 TLR: Nov 2021 Aug 2022: Filing accepted (JP/EU) Oct 2022: Filing accepted (US) Mar 2009: Orphan Drug Designation (US/EU) Fast Track designation (US) Priority review was granted (US)

Pexidartinib/PLX3397 (CSF-1/KIT/FLT3 inhibitor)

The molecular-targeted agent to inhibit CSF-1R, KIT and FLT3. This agent is expected to reduce tumor cell proliferation and expansion of metastases.

Brand name: TURALIO (US)

Study Name	Population	Sample Size	Study Design	Evaluation Items	Region	Status
Phase 3 NCT04488822	Tenosynovial giant cell tumor	35	Open label •Pexidartinib	Primary endpoint: ORR Secondary endpoint: TVS, ROM, PROMIS, DOR, etc.	Asia	FPD: Sep 2020
Phase 2 NCT04703322 jRCT2041200074	Tenosynovial giant cell tumor	21	Open label •Pexidartinib	Primary endpoint: Safety and tolerability, PK, ORR Secondary endpoint: Safety, ORR, ROM, PROMIS, DOR, etc.	JP	FPD: Apr 2021

Valemetostat/DS-3201 (EZH1/2 inhibitor)

Inhibitor of histone methylases, EZH1 and EZH2. Some cancer cells grow dependently on these enzymes.

Brand name: EZHARMIA (JP)

Study Name	Population	Sample Size	Study Design	Evaluation Items	Region	Status
Phase 2 (pivotal) NCT04102150 JapicCTI-194964	Adult T-cell leukemia-lymphoma	25	Open label •DS-3201	Primary endpoint: ORR Secondary endpoint: ORR, CR rate, TTR, DOR, PFS, OS, etc.	JP	FPD: Dec 2019 TLR: Jul 2021 Approval: Sep 2022 Nov 2021: Orphan Drug Designation
Phase 2 (pivotal) VALENTINE-PTCL01 NCT04703192 jRCT2071200095	Relapsed/refractory peripheral T-cell lymphoma	176	Non-Randomized, open label •DS-3201	Primary endpoint: ORR Secondary endpoint: DOR, CR rate, safety, etc.	JP/US/EU /Asia	FPD: Jun 2021 Apr 2019: SAKIGAKE Designation (JP) Dec 2021: Orphan Drug Designation (US) TLR anticipated: FY2023 H1
Phase 2 NCT04842877 LYSA	Relapsed/refractory B-cell lymphoma	141	Non-Randomized, open label •DS-3201	Primary endpoint: ORR Secondary endpoint: CR rate, PFS, DOR, TTR, safety, PK	EU	FPD: Jun 2021
Phase 1 NCT02732275 JapicCTI-163173	Non-Hodgkin's lymphomas	100	Open label •DS-3201	Primary endpoint: Safety, PK, antitumor effect Secondary endpoint: ORR, DCR, DOR, PFS, etc.	JP/US	FPD: Apr 2016

◆ Alpha (Oncology Early-Stage Pipeline Products)

DS-1001 (Mutant IDH1 inhibitor)

Study Name	Population	Sample Size	Study Design	Evaluation Items	Region	Status
Phase 1 NCT03030066 JapicCTI-163479	Glioma	47	Open label •DS-1001	Primary endpoint: Tolerability Secondary endpoint: Safety, PK, antitumor effect	JP	FPD: Jan 2017
Phase 2 NCT04458272 JapicCTI-205339	Glioma	25	Open label •DS-1001	Primary endpoint: ORR, safety Secondary endpoint: antitumor effect, TTR, DOR, PFS, OS, PK, etc	JP	FPD: Jul 2020 TLR anticipated: FY2023 H1

DS-7300 (B7-H3-directed ADC)

Study Name	Population	Sample Size	Study Design	Evaluation Items	Region	Status
Phase 1/2 NCT04145622 JapicCTI-194992	Esophageal squamous cell carcinoma, castration-resistant prostate cancer, sq-NSCLC, SCLC, etc.	195	Non-randomized, open label, two-part (dose escalation, dose expansion) •DS-7300	Primary endpoint: Safety and tolerability, antitumor effect Secondary endpoint: PK, etc.	JP/US	FPD: Oct 2019
Phase 2 NCT05280470 jRCT2041220019	Extensive-stage SCLC, 2L or later	80	Randomized, open label •DS-7300 : 8mg/kg •DS-7300 : 12mg/kg	Primary endpoint: ORR Secondary endpoint: Safety, PFS, DOR, OS, TTR, ORR, DCR, PK, ADA	JP/US/EU /Asia	FPD: Jun 2022

DS-1055 (anti-GARP antibody)

Study Name	Population	Sample Size	Study Design	Evaluation Items	Region	Status
Phase 1 NCT04419532 JapicCTI-205292	Solid tumors	40	Non-randomized, open label •DS-1055	Primary endpoint: Safety and tolerability Secondary endpoint: PK, ADA, etc.	JP/US	FPD: Oct 2020

DS-6000 (CDH6-directed ADC)

Study Name	Population	Sample Size	Study Design	Evaluation Items	Region	Status
Phase 1 NCT04707248 jRCT2031220075	Renal cell carcinoma, ovarian cancer	102	Non-randomized, open label, two-part (dose escalation, dose expansion) •DS-6000	Primary endpoint: Safety and tolerability Secondary endpoint: PK, ORR, DOR, DCR, etc.	JP/US	FPD: Jan 2021

DS-1594 (Menin-MLL binding inhibitor)

Study Name	Population	Sample Size	Study Design	Evaluation Items	Region	Status
Phase 1/2 NCT04752163 MD Anderson	Acute myeloid leukemia, acute lymphoblastic leukemia	122	Non-randomized, open label •DS-1594 •DS-1594 + venetoclax + azacitidine •DS-1594 + mini HCVD •DS-1594 + posaconazol or voriconazole	Primary endpoint: Safety and tolerability, CR rate Secondary endpoint: CR rate, MLFS rate, PR rate, ORR, DOR, EFS, OS, mortality rate, etc.	US	FPD: Apr 2021

DS-9606 (Target undisclosed ADC)

Study Name	Population	Sample Size	Study Design	Evaluation Items	Region	Status
Phase 1 NCT05394675	Solid tumors	125	Non-randomized, open label •DS-9606	Primary endpoint: Safety and tolerability, ORR Secondary endpoint: PK, DOR, DCR, TTR, PFS, ADA, etc.	US/EU	FPD: Jun 2022

DS-1103 (anti-SIRP α antibody)

Study Name	Population	Sample Size	Study Design	Evaluation Items	Region	Status
Phase 1 NCT05765851	HER2 expressing or mutant advanced metastatic solid tumors (dose escalation part), HER2-low BC (dose expansion part)	78	Non-randomized, open label, two-part (dose escalation, dose expansion) •DS-1103 + DS-8201	Primary endpoint: Safety and tolerability, ORR Secondary endpoint: ORR, DCR, CBR, DOR, PK. ADA, etc.	US/EU/Canada	FPD planned: FY2023 H1

◆ Alpha (Specialty Medicines Late-Stage Pipeline Products)

Mirogabalin/DS-5565 ($\alpha_2\delta$ ligands)

The pain therapy agent to reduce the neurotransmitter release from nerve terminals. This agent is expected to show the good balanced efficacy and safety profile.

Brand name: TARLIGE (JP)

Study Name	Population	Sample Size	Study Design	Evaluation Items	Region	Status
Phase 3 NCT04094662	Diabetic peripheral neuropathic pain	393	Randomized, double-blind, placebo-controlled •Mirogabalin •Placebo	Primary endpoint: average daily pain score Secondary endpoint: visual analogue scale, average daily sleep interference score	China	FPD: Sep 2019 Jan 2023: Filing accepted (CN)

Esaxerenone/CS-3150 (MR blocker)

The agent inhibits aldosterone binding to Mineralocorticoid Receptor (MR) which stimulate the sodium absorption into kidney. This agent is expected to exhibit antihypertensive and organ-protective effect.

Brand name: MINNEBRO (JP)

Study Name	Population	Sample Size	Study Design	Evaluation Items	Region	Status
Phase 3 JapicCTI-173695 Exelixis, Inc.	Diabetic nephropathy	400	Randomized, double-blind, placebo-controlled •Esaxerenone •Placebo	Primary endpoint: UACR remission rate Secondary endpoint: change rate in UACR and eGFR, etc.	JP	FPD: Sep 2017 TLR: Jul 2019

◆ Alpha (Specialty Medicines Early-Stage Pipeline Products)

Renadirsen Sodium/DS-5141 (ENA-oligonucleotides)

Study Name	Population	Sample Size	Study Design	Evaluation Items	Region	Status
Phase 1/2 NCT02667483 JapicCTI-153072 ODTI	Duchenne muscular dystrophy	8	Open label •DS-5141	Primary endpoint: Safety, PK, dystrophin protein expression in muscle tissue Secondary endpoint: production of exon 45-skipped dystrophin mRNA in muscle tissue	JP	FPD: Oct 2015 TLR: Dec 2020 Apr 2017: SAKIGAKE Designation Apr 2018: announced TLR of 12-week treatment study Jun 2021: announced TLR of 48-week treatment study
Phase 2 NCT04433234 JapicCTI-205321	Duchenne muscular dystrophy	8	Long-term study of above phase 1/2 study •DS-5141	Endpoint: Safety, motor function, respiratory function, cardiac function, quantitative muscle strength evaluation, PK	JP	FPD: Jul 2020 Development discontinued: Apr 2023

DS-1211 (TNAP inhibitor)

Study Name	Population	Sample Size	Study Design	Evaluation Items	Region	Status
Phase 2 NCT05569252	Pseudoxanthoma elasticum	64	Randomized, double-blind, placebo-controlled •DS-1211	Primary endpoint: Safety, pharmacodynamic (PD) dose response Secondary endpoint: PK	US/EU	FPD: Nov 2022

DS-6016 (anti-ALK2 antibody)

Study Name	Population	Sample Size	Study Design	Evaluation Items	Region	Status
Phase 1 NCT04818398 jRCT2051200155	Healthy volunteers, fibrodysplasia ossificans progressiva	48	Randomized, double-blind, placebo-controlled •DS-6016	Primary endpoint: Safety Secondary endpoint: PK, ADA, etc.	JP	FPD: Apr 2021 Development discontinued: Apr 2023

DS-7011 (anti-TLR7 antibody)

Study Name	Population	Sample Size	Study Design	Evaluation Items	Region	Status
Phase 1 NCT05203692	Healthy volunteers, systemic lupus erythematosus	80	Randomized, double-blind, placebo-controlled •DS-7011	Primary endpoint: Safety Secondary endpoint: PK, PD, Immunogenicity	US	FSD: Feb 2022
Phase 1b/2 prep NCT05638802	Systemic lupus erythematosus	24	Randomized, double-blind, placebo-controlled •DS-7011	Primary endpoint: Safety Secondary endpoint: PK, PD, change of autoantibodies and complement factors	US	

DS-2325 (KLK5 inhibitor)

Study Name	Population	Sample Size	Study Design	Evaluation Items	Region	Status
Phase 1 NCT05388903	Healthy volunteers, Netherton syndrome	64	Randomized, double-blind, placebo-controlled •DS-2325 (single ascending dose)	Primary endpoint: Safety Secondary endpoint: PK, ADA, etc.	US	FSD: Jun 2022 Dec 2022: Orphan Drug Designation (US)
Phase 1 NCT05583669	Healthy volunteers, Netherton syndrome	24	Randomized, double-blind, placebo-controlled •DS-2325 (multiple ascending dose)	Primary endpoint: Safety Secondary endpoint: PK, ADA, etc.	US	FSD: Nov 2022 Dec 2022: Orphan Drug Designation (US) Feb 2023: Fast Track Designation (US)

◆ Alpha (Vaccine)

VN-0107 (nasal spray live attenuated influenza vaccine)

The US brand name of this vaccine is FluMist Quadrivalent that is a live attenuated influenza vaccine which is administered as a nasal spray and contains four protective strains.

Study Name	Population	Sample Size	Study Design	Evaluation Items	Region	Status
Phase 3 JapicCTI-163400 AstraZeneca/ MedImmune	Prevention of seasonal influenza	782	Randomized, double-blind, placebo-controlled •VN-0107 •Placebo	Primary endpoint: onset of influenza, safety Secondary endpoint: onset of influenza	JP	Approval: Mar 2023

VN-0102/JVC-001 (mixed measles-mumps-rubella vaccines)

Trivalent mixed vaccine (MMR vaccine) containing three attenuated viruses of measles, mumps and rubella, which has not been approved in Japan.

Study Name	Population	Sample Size	Study Design	Evaluation Items	Region	Status
Phase 3 JapicCTI-205118	Prevention of measles, mumps and rubella in healthy Japanese children aged 12 months or more and less than 24 months	840	Randomized, double-blind, active-controlled •VN-0102/JVC-001 •Dry Live Attenuated Measles Rubella vaccine, Freeze-dried Live Attenuated Mumps vaccine	Primary endpoint: Seroprotection rates for measles, mumps and rubella Secondary endpoint: Seroconversion rates for measles, mumps, and rubella	JP	FSD: Feb 2020 LSD: Sep 2020

DS-5670 (COVID-19 mRNA vaccine)

Study Name	Population	Sample Size	Study Design	Evaluation Items	Region	Status
Phase 1/2 NCT04821674 jRCT2071200110	Healthy adults and elderly, prevention of COVID-19	152	Randomized, double-blind, placebo-controlled •DS-5670 (original strain) •Placebo	Primary endpoint: Safety, immunogenicity (neutralizing activity) Secondary endpoint: immunogenicity, PK	JP	FSD: Mar 2021 TLR: Oct 2021
Phase 2 jRCT2071210086	Healthy adults, prevention of COVID-19	80	Randomized, double-blind, uncontrolled •DS-5670 (original strain)	Primary endpoint: Safety Secondary endpoint: Immunogenicity	JP	FSD: Nov 2021 TLR: Apr 2022

DS-5670 (COVID-19 mRNA vaccine)

Study Name	Population	Sample Size	Study Design	Evaluation Items	Region	Status
Phase 3 jRCT2031220264	Healthy adults with no history of vaccination against COVID-19, prevention of COVID-19	420	Randomized, single-blind, active-controlled, non-inferiority ·DS-5670 (original strain) ·Comirnaty®	Primary endpoint: Immunogenicity (GMT and SCR of neutralizing activity) Secondary endpoint: Immunogenicity (GMFR of neutralizing activity), incidence of COVID-19 infection, safety	JP	FSD: Sep 2022 TLR: Mar 2023
Phase 3 jRCT2031220400	Children aged 12 to 17 years with no history of vaccination against COVID-19, prevention of COVID-19	450	Randomized, single-blind, active-controlled, non-inferiority ·DS-5670 (original strain) ·Comirnaty®	Primary endpoint: Immunogenicity (GMT and SCR of neutralizing activity) Secondary endpoint: Immunogenicity (GMFR of neutralizing activity), incidence of COVID-19 infection, safety	JP	FSD: Nov 2022
Phase 2/3 prep jRCT2031220399	Children aged 5 to 11 years with no history of vaccination against COVID-19, prevention of COVID-19	640	Randomized, single-blind, active-controlled, non-inferiority ·DS-5670 ·Comirnaty® for 5 to 11 years old	Primary endpoint: Immunogenicity (GMT and SCR of neutralizing activity) Secondary endpoint: Immunogenicity (GMFR of neutralizing activity), incidence of COVID-19 infection, safety	JP	
Phase 1/2/3 jRCT2071210106	Healthy adults who have completed primary vaccination of approved COVID-19 vaccine, prevention of COVID-19	5,028	Randomized, single-blind, active-controlled, two-part (dose confirmation and non-inferiority) ·DS-5670 (original strain) ·Comirnaty® ·Spikevax®	Primary endpoint: Immunogenicity (GMFR of neutralizing activity), safety Secondary endpoint: Immunogenicity, safety	JP	FSD: Jan 2022 TLR: Nov 2022 Jan 2023: Filing accepted (JP)

DS-5670 (COVID-19 mRNA vaccine)

Study Name	Population	Sample Size	Study Design	Evaluation Items	Region	Status
Phase 3 prep jRCT2071220111	Healthy adults who have completed primary vaccination of approved COVID-19 vaccine, prevention of COVID-19	1,400	Randomized, single-blind, active-controlled, Main Study and Substudy A (dose validity examination), Sub study B (examination for immunogenicity and safety) ·DS-5670 (mutant strain)	<p>Primary endpoint: Main Study: Geometric mean titer (GMT) of blood neutralizing activity against SARS-CoV-2 (Omicron strain) and seroresponse rate at 4 weeks after study drug administration Sub Study A, Sub Study B: Not applicable.</p> <p>Secondary endpoint: Main Study: GMT of blood neutralizing activity against SARS-CoV-2 (original strain) and seroresponse rate at 4 weeks after study drug administration, Incidence of COVID-19 for 52 weeks after study drug administration, safety Sub Study A, Sub Study B: safety</p>	JP	FSD anticipated in FY2023 H1

VN-0200 (RS virus vaccine)

Study Name	Population	Sample Size	Study Design	Evaluation Items	Region	Status
Phase 1 NCT04914520 jRCT2031210069	Healthy adults and elderly, prevention of respiratory syncytial (RS) virus infection	48	Randomized, double-blind, placebo-controlled ·VN-0200 ·Placebo	Primary endpoint: Safety Secondary endpoint: immunogenicity	JP	FSD: Jun 2021 TLR: Apr 2022
Phase 2 NCT05547087 jRCT2071220051	Healthy elderly, prevention of respiratory syncytial (RS) virus infection	340	Randomized, double-blind, dose-comparison ·VN-0200	Primary endpoint: Immunogenicity Secondary endpoint: Safety	JP	FSD: Oct 2022

◆ Stage-up Projects (Major Changes from the FY2022 Q3 Financial Announcement in January 2023)

Generic Name/Project Code Number Mechanism of action	Target Indication	Current Stage	Note
Trastuzumab deruxtecan/DS-8201/T-DXd HER2-directed ADC	HER2 positive breast cancer, 2L	Approved	China, DESTINY-Breast03
Trastuzumab deruxtecan/DS-8201/T-DXd HER2-directed ADC	HER2 low breast cancer, post chemotherapy	Approved	Japan, DESTINY-Breast04
Datopotamab deruxtecan/DS-1062/Dato-DXd TROP2-directed ADC	Resectable, early-stage NSCLC, neoadjuvant	Ph2 prep	US/EU/Asia, NeoCOAST-2
DS-1103 anti-SIRPα antibody	HER2 expressing or mutant advanced metastatic solid tumors (dose escalation part), HER2-low BC (dose expansion part)	Ph1 prep	Japan, US, EU, Canada
VN-0107 nasal spray live attenuated influenza vaccine	Prevention of seasonal influenza	Approved	Japan
DS-5670 COVID-19 mRNA vaccine (mutant strain)	Prevention of COVID-19 (booster vaccination, adults)	Ph3 prep	Japan

◆ **Discontinued Project (Major Changes from the FY2022 Q3 Financial Announcement in January 2023)**

Generic Name/Project Code Number	Target indication	Stage	Discontinued reasons
Mechanism of action			
Renadirsen Sodium/DS-5141 ENA-oligonucleotides	Duchenne muscular dystrophy	Ph2	DS-5141 showed the certain level of efficacy, but finally concluded that it is difficult to move forward with the current available data
DS-6016 anti-ALK2 antibody	fibrodysplasia ossificans progressiva	Ph1	Decided to discontinue the development based on loss of competitiveness due to the substantial delay of development timeline to resolve emerging potential safety issues/risks observed in a non-clinical study of the related antibody