Supplementary Financial Data (IFRS) for the First Quarter of the Year Ending March 31, 2020

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July 29, 2019

Sumitomo Dainippon Pharma Co., Ltd.

• This material contains forecasts, projections, targets, plans, and other forward-looking statements regarding the Group's financial results and other data. Such forward-looking statements are based on the Company's assumptions, estimates, outlook, and other judgments made in light of information available at the time of preparation of such statements and involve both known and unknown risks and uncertainties. Accordingly, plans, goals, and other statements may not be realized as described, and actual financial results, success/failure or progress of development, and other projections may differ materially from those presented herein.

All values are rounded. Therefore totals may not be consistent with aggregated figures.

I. Consolidated Financial Highlights

1 Consolidated Statement of Profit or Loss (Core Basis)

1. Consolidated Statement of Profit or Lo	oss (Core B	asis)						(Billi	ons of yen)
	Q1 FY2018	Q1 FY2019	Change % YoY	FY2019 AprSep. (Forecast)		Change % YoY			Change % YoY
Revenue	115.9	117.5	1.4	[226.5]	228.5	1.0	[460.0]	475.0	3.4
Cost of sales *1	28.9	28.8	(0.2)	[56.0]	55.5	(0.2)	[116.0]	126.0	11.4
Gross profit	87.0	88.6	1.9	[170.5]	173.0	1.4	[344.0]	349.0	0.8
SG&A expenses *1	47.8	46.3	(2.9)	[91.0]	92.5	0.4	[181.0]	186.0	(0.1)
R&D expenses *1	20.9	20.0	(3.9)		41.0	(0.8)		86.0	3.8
Other operating income/expenses (Core Basis)*2	0.0	0.0		[-]	0.0		[-]	0.0	
Core operating profit	18.4	22.3	20.9	[38.5]	39.5	6.3		77.0	(0.4)
Changes in fair value of contingent consideration (negative number indicates loss)	(2.5)	18.5		[(3.5)]	17.0		[(7.0)]	12.0	
Other non-recurring items *3 (negative number indicates loss)	(0.1)	(0.3)			(0.5)			(1.0)	
Operating profit	15.8	40.4	155.6	[34.5]	56.0	89.1	[69.0]	88.0	52.0
Net profit attributable to owners of the parent	15.2	6.7	(56.0)	[25.0]	22.0	(21.1)	[49.0]	36.0	(26.0)
Basic earnings per share (yen)	38.38	16.87		[62.93]	55.37		[123.33]	90.61	
Net profit/ Equity attributable to owners of the parent (ROE)	3.3%	1.4%					[9.5%]	7.1%	

78.9

(56.0)

(3.5)

36.9

6.7

parent (ROE)

Finance income/costs

Net profit attributable to owners of the parent

Profit before taxes

Note: The forecasts have been revised. Figures in parentheses [] are previous forecasts. Change % is calculated by using revised forecasts.

4.8

20.6

15.2

2. Consolidated Statement of Profit or Loss (Full Basis)	(Billions of ye					
	Q1 FY2018	Q1 FY2019	Change % YoY			
Revenue	115.9	117.5	1.4			
Revenue	110.5	117.5	1.4			
Cost of sales	28.9	29.0	0.1			
Gross profit	87.0	88.5	1.8			
SG&A expenses	50.3	27.9	(44.5)			
R&D expenses	20.9	20.1	(3.9)			
Other operating income/expenses	(0.1)	(0.2)				
Operating profit	15.8	40.4	155.6			

- *1 Exclude non-recurring items (impairment loss, changes in fair value of contingent consideration, etc.)
 *2 "P/L on business transfer" and "share of P/L of associates accounted for using equity method".
- method"
 *3 Non-recurring items ("other operating income and expenses" except for *2 items, impairment loss, etc.)

3. Consolidated Statement of Cash Flows	Q1 FY2018	Q1 FY2019	(Billions of yen)
Net cash provided by operating activities	(8.5)	8.2	-
Net cash provided by (used in) investing activities	4.3	16.7	
Net cash used in financing activities	(8.5)	(9.3)	-
Cash and cash equivalents at the end of period	138.9	149.0	-

4. Foreign Exchange Rates	FY2018 AprJun.		FY2019 A	prJun.	FY2019 assumption	Forex sensitivity FY2019 (Impact of yen depreciation by ¥1)	
	Period end rate	Average rate	Period end rate	Average rate	Average rate	Revenue	Core operating profit
Yen / USD	110.5	109.1	107.8	109.9	110.0	2.4	0.1
Yen / RMB	16.7	17.1	15.7	16.1	16.5	1.7	0.2
						(B	illions of yen)

5. Capital Expenditures/ Depreciation and Amortization	Q1 FY2018	Q1 FY2019	Change	FY2019 (Forecast)	Change	(Billions of yen)				
Capital expenditures	4.0	3.1	(0.9)	9.0	(4.2)					
Property, plant and equipment	1.8	1.6	(0.2)	9.5	2.2					
Intangible assets	1.7	1.7	0.0	6.7	0.1					
Note: The amount of capital expenditures are for tangible fixed assets and software.										

Major capital expenditure project in FY2019

Reinforcement of production facilities, total budget ¥2.0billion, to be completed in FY2022

II. Consolidated Statement of Profit or Loss

1. Consolidated Statement of Pro	fit or Loss (Core Basis)	(Billions of y	/en)			
	Q1 FY2018	Q1 FY2019	Change	Change %				
Revenue	115.9	117.5	1.6	1.4	← 、	¥billion Japan	Change (2.7)	FX rate
Overseas revenue	71.0	75.5	4.4	6.3		North America China	5.3 1.4	0.5 (0.4)
% of Revenue	61.3%	64.2%				Other Regions Other	(2.3) (0.2)	
Cost of sales	28.9	28.8	(0.1)	(0.2)			(0.2)	
% of Revenue	24.9%	24.5%			-			
Gross profit	87.0	88.6	1.6	1.9	-			
SG&A expenses	47.8	46.3	(1.4)	(2.9)	•			
Labor costs	18.7	20.4	1.7	9.2	-			
Advertising and promotion costs	8.1	6.7	(1.4)	(17.8)	-			
Sales promotion costs	4.1	3.4	(0.7)	(16.8)	-			
Amortization/Depreciation	2.0	2.7	0.8	40.2	-			
Others	15.0	13.2	(1.8)	(12.0)	-			
R&D expenses	20.9	20.0	(0.8)	(3.9)	•			
% of Revenue	18.0%	17.1%			-			
Other operating income/expenses (Core Basis)	0.0	0.0	(0.0)	(43.5)				
Core operating profit	18.4	22.3	3.9	20.9		Changes in fai consideration		Q1 '18 Q1 '19
Changes in fair value of contingent consideration *	(2.5)	18.5	21.0		I	_onhala®mac BBI	GNAIR®	(0.5) (0.3) (1.3) *19.1
Other non-recurring items *	(0.1)	(0.3)	(0.2)		Ľ	Tolero * Decrease in	fair value	(0.7) (0.4) of contingent conciderati
Operating profit	15.8	40.4	24.6	155.6	-	by discontinu		
Finance income	4.9	1.4	(3.5)					s on financial assets
Finance costs	0.1	4.9	4.9			denominated in l Q1FY18: gain (F		ome)
Profit before taxes	20.6	36.9	16.3	78.9	. (Q1FY19: loss (Fi	nance cos	sts)
Income tax expenses	5.4	30.2	24.8		•			
Net profit	15.2	6.7	(8.5)	(56.0)		Q1FY19: Rever	sal of defe	erred tax assets in U.S.
Net profit attibutable to owners of the parent * Negative number indicates loss.	15.2	6.7	(8.5)	(56.0)				

* Negative number indicates loss.

2. Adjustmnents to Core Operating Profit

				(Billions of yen)
Q1FY2019 Results	Full Basis	Core Basis	Adjustment	Major adjustment items
Revenue	117.5	117.5	_	
Cost of sales	29.0	28.8	(0.1)	
Gross profit	88.5	88.6	0.1	
SG&A expenses	27.9	46.3	18.5	Changes in fair value of contingent consideration 18.5
R&D expenses	20.1	20.0	(0.0)	
Other operating income	0.4	0.0	(0.4)	
Other operating expenses	s 0.6		(0.6)	
Operating profit	40.4	22.3	(18.1)	

III. Segment Information (Core Basis)

						(Bill	ions of yen)
		Pharma	Other				
Q1 FY2019 Results	Japan	North America	China	Other Regions	Subtotal	Business	Total
Revenue (Sales to customers)	32.6	66.0	6.8	2.5	107.9	9.6	117.5
Cost of sales	13.4	6.3	1.0	0.8	21.4	7.4	28.8
Gross profit	19.3	59.7	5.8	1.7	86.5	2.1	88.6
SG&A expenses	12.0	30.2	2.0	0.8	45.1	1.3	46.3
Core segment profit	7.3	29.5	3.8	0.9	41.5	0.8	42.3
R&D expenses *1					19.8	0.2	20.0
Other operating income/expenses (Core basis)*2					0.0	(0.0)	0.0
Core operating profit					21.7	0.6	22.3

(Billions of yen) **Pharmaceuticals Business** Other Q1 FY2018 Results Total North Other **Business** Japan Subtotal China America Regions 35.3 115.9 Revenue (Sales to customers) 60.6 5.4 4.7 106.1 9.8 Cost of sales 13.6 4.6 1.1 2.1 21.3 7.6 28.9 Gross profit 21.8 4.3 84.8 2.2 87.0 56.0 2.6 46.4 SG&A expenses 12.4 31.0 2.1 0.9 1.4 47.8 Core segment profit 9.4 25.0 2.3 1.7 38.4 0.8 39.2 R&D expenses *1 20.6 0.2 20.9 Other operating income/expenses 0.0 0.0 0.0 (Core basis)*2 17.8 Core operating profit 0.6 18.4

				(Bill	ions of yen)		
		Pharma	Other				
FY2019 Forecasts	Japan	North America	China	Other Regions	Subtotal	Business	Total
Revenue (Sales to customers)	135.0	260.0	28.3	13.7	437.0	38.0	475.0
Cost of sales	62.0	23.2	6.2	5.2	96.6	29.4	126.0
Gross profit	73.0	236.8	22.1	8.5	340.4	8.6	349.0
SG&A expenses	53.8	114.0	9.5	3.2	180.5	5.5	186.0
Core segment profit	19.2	122.8	12.6	5.3	159.9	3.1	163.0
R&D expenses *1					85.0	1.0	86.0
Other operating income/expenses (Core basis)*2					0.0	0.0	0.0
Core operating profit					74.9	2.1	77.0

*1 R&D expenses for pharmaceuticals business are controlled globally and not allocated to each segment.

*2 P/L on business transfer and share of P/L of associates accounted for using equity method

Note: FY2019 forecasts have been revised.

IV. Revenues Information

1. Sales of Pharmaceuticals Business (Sales to customers)

1. Sales of Pharmaceuticals Business (Sales to customers) (Billions of yen)											
Segment	Q1 FY2018	Q1 FY2019	Change	Change %	FY2019 AprSep. (Forecast)		Progress %	FY2019 (Forecast)			
Japan	35.3	32.6	(2.7)	(7.6)	[61.0]	63.0	53.5	[119.3]	135.0		
North America	60.6	66.0	5.3	8.8		128.1	51.5		260.0		
China	5.4	6.8	1.4	25.8	[12.9]	13.7	53.0	[27.0]	28.3		
Other Regions	4.7	2.5	(2.3)	(47.9)		5.0	49.4		13.7		

2. Sales of Major Products (1)

	(Invoice pri						
Brand name Therapeutic indication	Q1 FY2018	Q1 FY2019	Change	Change %	FY2019 AprSep. (Forecast)	Progress %	FY2019 (Forecast)
Japan							
Promoted products							
Trulicity [®] *1 Therapeutic agent for type 2 diabetes (Launch:Sep. 2015)	5.2	7.2	2.0	37.7	14.0	51.6	28.2
TRERIEF [®] Therapeutic agent for Parkinson's disease	4.2	4.2	0.1	2.0	8.6	49.4	17.1
REPLAGAL[®] Anderson-Fabry disease	3.2	3.4	0.2	4.7	6.1	55.5	11.8
METGLUCO [®] Therapeutic agent for type 2 diabetes	2.6	2.5	(0.2)	(6.1)	4.7	52.6	9.3
SUREPOST [®] Therapeutic agent for type 2 diabetes	1.5	1.8	0.3	16.5	3.1	56.9	6.2
AmBisome [®] Therapeutic agent for systemic fungal infection	0.9	1.0	0.1	6.5	1.8	55.0	3.9
LONASEN [®] tape Atypical antipsychotic	_	-	-	-	0.2	_	1.8
Euqa [®] /EquMet [®] *2 Therapeutic agent for type 2 diabetes	_	_	_	_	_	_	[—] 16.0
Other products							
LONASEN [®] tablet/powder Atypical antipsychotic	3.3	2.9	(0.5)	(13.8)	4.0	71.8	5.2
AMLODIN[®] Therapeutic agent for hypertension and angina pectoris	2.5	2.1	(0.3)	(13.6)	4.1	52.2	7.5
AIMIX[®] Therapeutic agent for hypertension	4.5	1.2	(3.3)	(74.0)	2.0	58.7	3.7
PRORENAL [®] Vasodilator	1.1	0.9	(0.2)	(18.1)	1.8	50.8	3.3
GASMOTIN [®] Gastroprokinetic	1.0	0.9	(0.2)	(17.5)	1.6	53.9	3.1
Authorized Generics	1.0	2.0	1.0	94.3	3.4	58.7	6.9

*1 Revenue of $\text{Trulicity}_{\scriptscriptstyle (\! R\!)}$ is shown by NHI price.

*2 Not including promotion fee revenue

Note: The forecasts of some products have been revised. Figures in parentheses [] are previous forecasts. Progress rate is against previous forecast.

2. Sales of Major Products (2)

Brand name Therapeutic indication	Q1 FY2018	Q1 FY2019	Change	Change %	FY2019 AprSep. (Forecast)	Progress %	(Billions of yen) FY2019 (Forecast)
North Amrerica							
LATUDA [®] Atypical antipsychotic	43.8	49.0	5.1	11.7	93.5	52.4	189.3
BROVANA[®] Therapeutic agent for COPD	8.2	8.1	(0.1)	(0.7)	16.6	48.9	33.0
APTIOM[®] Antiepileptic	4.7	5.3	0.7	14.0	10.9	48.7	22.5
LONHALA [®] MAGNAIR [®] Therapeutic agent for COPD (Launch: Apr. 2018)	0.3	0.7	0.4	114.1	1.3	50.7	4.2
XOPENEX[®] Therapeutic agent for asthma	1.3	0.8	(0.5)	(37.3)	2.2	37.8	4.1
China							
MEROPEN®	4.7	5.9	1.2	25.4	[10.8] 12.0	54.2	[22.6] 24.0
Other Regions							
MEROPEN®	3.4	1.4	(2.0)	(58.3)	3.0	47.0	7.0

(Ref.) Products sales in North America (based on local currency)							(Millions of dollar)
品目	Q1 FY2018	Q1 FY2019	Change	Change %	FY2019 AprSep. (Forecast)	Progress %	FY2019 (Forecast)
LATUDA [®]	402	445	44	10.9	850	52.4	1,721
BROVANA®	75	74	(1)	(1.4)	151	48.9	300
APTIOM®	43	48	6	13.2	99	48.8	205
LONHALA [®] MAGNAIR [®]	3	6	3	112.5	12	50.0	38
XOPENEX [®]	12	8	(5)	(37.7)	20	37.9	37

Note: The forecasts of some products have been revised. Figures in parentheses [] are previous forecasts. Progress rate is against previous forecast.

V. Consolidated Statement of Financial Position

	Mar.31	Jun. 30	ons of yen) Change	
Accesto	2019 834.7	2019 808.1	-	
Assets Non-current assets	461.4	442.0	(26.7) (19.4)	
Property, plant and equipment	59.5	70.1	10.6	
Buildings and structures	36.9	37.0	0.1	
-	30.9 10.7	8.4		
Machinery, equipment and carrier			(2.3)	
Tools, equipment and fixtures Land	4.9	4.7	(0.2)	
	5.0	5.0	(0.0)	Adopted IFRS 16 "Leases" from beginning of
Construction in progress	2.0	1.7	(0.3)	FY2019
Right-of-use asset	-	13.2	13.2	Goodwill 19/3 19/6
Goodwill	99.3	96.4	(2.9)	Sunovion 75.0 72.9
Intangible assets	171.4	167.7	(3.7)	Oncology 24.3 23.6 IPR&D 19/3 19/6
Patent rights/Marketing rights In-process research &	24.0	23.7	(0.3)	apomorphine 55.2 53.5
development	141.4	137.7	(3.7)	BBI products30.029.1Tolero products44.443.1
Others	5.9	6.2	0.3	Others 11.9 12.0
Other financial assets	74.7	70.7	(4.0)	
Other non-current assets	5.8	6.6	0.7	
Deferred tax assets	50.7	30.6	(20.2)◀	Reversal of deferred tax assets in U.S.
Current assets	373.3	366.1	(7.2)	
Inventories	66.9	65.4	(1.5)	
Trade and other receivables	118.8	120.5	1.7	
Other financial assets	43.8	24.0	(19.8)◀	Decrease in short-term loan receivable
Other current assets	6.6	7.2	0.7	
Cash and cash equivalents	137.3	149.0	11.7	
Liabilities	336.6	318.6	(18.0)	
Non-current liabilities	138.4	125.4	(13.0)	Total interest-bearing debt
Bonds and borrowings	28.0	27.2	(0.7)	30.9 → 30.2 [Repayment 0.7]
Other financial liabilities	80.4	70.0	(10.4)	
Retirement benefit liabilities	23.6	23.8	0.2	Contingent consideration Total proba
Other non-current liabilities	6.4	4.4	(2.0)	LONHALA®MAGNAIR® 8.9 8.9 \$21
	0.4			
Deferred tax liabilities	- 0.4	0.0	0.0	1
Deferred tax liabilities				Tolero 27.9 27.5 \$58 Total 81.4 60.9
Deferred tax liabilities	_	0.0	0.0	Tolero 27.9 27.5 \$58 Total 81.4 60.9 Included in "Other financial liabilities (Non current/Current)"
Deferred tax liabilities Current liabilities	 198.2	0.0 193.2	0.0	Tolero 27.9 27.5 \$58 Total 81.4 60.9 Included in "Other financial liabilities (Non current/Current)"
Deferred tax liabilities Current liabilities Bonds and borrowings	198.2 3.0	0.0 193.2 3.0	0.0 (4.9)	Tolero 27.9 27.5 \$58 Total 81.4 60.9 Included in "Other financial liabilities (Non current/Current)" * Decrease in fair value of contingent concideration
Deferred tax liabilities Current liabilities Bonds and borrowings Trade and other payables	198.2 3.0 49.2	0.0 193.2 3.0 50.2	0.0 (4.9) - 1.0	Tolero 27.9 27.5 \$58 Total 81.4 60.9 Included in "Other financial liabilities (Non current/Current)" * Decrease in fair value of contingent concideration
Deferred tax liabilities Current liabilities Bonds and borrowings Trade and other payables Other financial liabilities		0.0 193.2 3.0 50.2 13.3	0.0 (4.9) 1.0 4.6 (4.7)	Tolero 27.9 27.5 \$58 Total 81.4 60.9 Included in "Other financial liabilities (Non current/Current)" * Decrease in fair value of contingent concideration
Deferred tax liabilities Current liabilities Bonds and borrowings Trade and other payables Other financial liabilities Income taxes payable		0.0 193.2 3.0 50.2 13.3 11.0	0.0 (4.9) - 1.0 4.6 (4.7) (5.4)	Tolero 27.9 27.5 \$58 Total 81.4 60.9 Included in "Other financial liabilities (Non current/Current)" * Decrease in fair value of contingent concideration
Deferred tax liabilities Current liabilities Bonds and borrowings Trade and other payables Other financial liabilities Income taxes payable Provisions Other current liabilities		0.0 193.2 3.0 50.2 13.3 11.0 86.8	0.0 (4.9) 1.0 4.6 (4.7)	Tolero 27.9 27.5 \$58 Total 81.4 60.9 Included in "Other financial liabilities (Non current/Current)" * Decrease in fair value of contingent concideration
Deferred tax liabilities Current liabilities Bonds and borrowings Trade and other payables Other financial liabilities Income taxes payable Provisions Other current liabilities		0.0 193.2 3.0 50.2 13.3 11.0 86.8 28.9	0.0 (4.9) 	Tolero 27.9 27.5 \$58 Total 81.4 60.9 Included in "Other financial liabilities (Non current/Current)" * Decrease in fair value of contingent concideration
Deferred tax liabilities Current liabilities Bonds and borrowings Trade and other payables Other financial liabilities Income taxes payable Provisions Other current liabilities Equity		0.0 193.2 3.0 50.2 13.3 11.0 86.8 28.9 489.4	0.0 (4.9) 	Tolero 27.9 27.5 \$58 Total 81.4 60.9 Included in "Other financial liabilities (Non current/Current)" * Decrease in fair value of contingent concideration
Deferred tax liabilities Current liabilities Bonds and borrowings Trade and other payables Other financial liabilities Income taxes payable Provisions Other current liabilities Equity Share capital		0.0 193.2 3.0 50.2 13.3 11.0 86.8 28.9 489.4 22.4	0.0 (4.9) 	Tolero 27.9 27.5 \$58 Total 81.4 60.9 Included in "Other financial liabilities (Non current/Current)" * Decrease in fair value of contingent concideration
Deferred tax liabilities Current liabilities Bonds and borrowings Trade and other payables Other financial liabilities Income taxes payable Provisions Other current liabilities Equity Share capital Capital surplus Treasury shares		0.0 193.2 3.0 50.2 13.3 11.0 86.8 28.9 489.4 22.4 15.9	0.0 (4.9) 1.0 4.6 (4.7) (5.4) (0.5) (8.7) (0.0)	Tolero 27.9 27.5 \$58 Total 81.4 60.9 Included in "Other financial liabilities (Non current/Current)" * Decrease in fair value of contingent concideration
Deferred tax liabilitiesCurrent liabilitiesBonds and borrowingsTrade and other payablesOther financial liabilitiesIncome taxes payableProvisionsOther current liabilitiesEquityShare capitalCapital surplus		0.0 193.2 3.0 50.2 13.3 11.0 86.8 28.9 489.4 22.4 15.9 (0.7)	0.0 (4.9) 1.0 4.6 (4.7) (5.4) (0.5) (8.7) 	Tolero 27.9 27.5 \$58 Total 81.4 60.9 Included in "Other financial liabilities (Non current/Current)" * Decrease in fair value of contingent concideration

VI. Changes in Quarterly Results

_				(Billior	ns of yen)
		FY20	18		FY2018
	1Q	2Q	3Q	4Q	1Q
Revenue	115.9	110.2	120.7	112.4	117.5
Cost of sales	28.9	26.7	29.6	27.9	28.8
Gross profit	87.0	83.6	91.1	84.5	88.6
SG&A expenses	47.8	44.4	51.8	42.1	46.3
R&D expenses	20.9	20.5	20.6	20.9	20.0
Other operating income/expenses (Core Basis)	0.0	0.0	0.1	0.0	0.0
Core operating profit	18.4	18.7	18.7	21.4	22.3
Changes in fair value of contingent consideration (negative number indicates loss)	(2.5)	(4.4)	1.4	14.6	18.5
Other non-recurring items (negative number indicates loss)	(0.1)	(0.6)	(2.9)	(25.0)	(0.3)
Operating profit	15.8	13.8	17.2	11.1	40.4
Net profit attributable to owners of the parent	15.2	12.6	12.1	8.7	6.7

VII. Major Consolidated Subsidiaries (As of June 30, 2019)

Domestic	DSP Gokyo Food & Chemical Co., Ltd.	DS Pharma Animal Health Co., Ltd.	DS Pharma Promo Co., Ltd.	
Establishment	October 1947	July 2010	June 1998	
Ownership	100%	100%	100%	
Number of employees	198	90	52	
Businesses	Manufacturing and sales of food ingredients, food additives, chemical product materials, etc.	Manufacturing, and sales of veterinary medicines, etc.	Manufacturing and sales of pharmaceuticals, etc.	
Overseas	Sunovion	Boston	Tolero	Sumitomo Pharmaceuticals
Overseas	Pharmaceuticals Inc.	Biomedical, Inc.	Pharmaceuticals, Inc.	(Suzhou) Co., Ltd.
Establishment	Pharmaceuticals Inc. January 1984	Biomedical, Inc. November 2006	Pharmaceuticals, Inc. June 2011	
		,		(Suzhou) Co., Ltd.
Establishment	January 1984	November 2006	June 2011	(Suzhou) Co., Ltd. December 2003

(Reference) Number of employees and MRs

		As of Mar. 31, 2018	As of Mar. 31, 2019	As of June 30, 2019
	consolidated	6,268	6,140	6,177
	non-consolidated	3,402	3,067	3,078
MRs				
Japa	n (excluding managers)	1,130	1,120	1,120
	(including managers)	1,260	1,240	1,240
U.S.	(excluding managers)	830	720	730
	(including managers)	930	820	830
China	a (excluding managers)	330	340	330
	(including managers)	400	400	410

Number of contracted MRs is included in MRs.

VIII. Development Pipeline (As of July 29, 2019)

- This table shows clinical studies on indications for which the Sumitomo Dainippon Pharma Group aims to obtain approval in Japan, U.S. or China, and does not cover all clinical studies.
- For oncology area, the study for the most advanced development stage is listed if there are multiple studies with the same indication.
- The development stage is changed when Investigational New Drug Application/amended IND/ Clinical Trial Notification is filed/approved by the authority.

Brand name/ Product code	Proposed indication	Region	Development stage	
(Generic name)		Region	Development stage	
SM-13496	Schizophrenia	Japan	Phase 3	
(lurasidone hydrochloride)	Bipolar I depression	Japan	Phase 3	
SEP-225289	Binge eating disorder (BED)	U.S.	Submitted in May 2019	
(dasotraline)	Attention-deficit hyperactivity disorder (ADHD)	U.S.	Submitted in August 2017 Received Complete Response Letter in August 2018	
		Japan	Phase 1	
APL-130277 (apomorphine hydrochloride)	OFF episodes associated with Parkinson's disease	U.S.	Submitted in March 2018 Received Complete Response Letter in January 2019	
LONASEN [®] (blonanserin)	(New usage: pediatric) Schizophrenia	Japan	Phase 3	
SEP-363856	Schizophrenia	U.S.	Phase 3	
		Japan	Phase 1	
	Parkinson's disease psychosis	U.S.	Phase 2	
EPI-743 (vatiquinone)	Leigh syndrome	Japan	Phase 2/3	
EPI-589	Parkinson's disease	U.S.	Phase 2	
	Amyotrophic lateral sclerosis (ALS)	U.S. Japan	Phase 2 Phase 1	
SEP-4199	Bipolar I depression	U.S., Japan	Phase 2 (Global clinical study)	
DSP-6745	Parkinson's disease psychosis	U.S.	Phase 1	
SEP-378608	Bipolar disorder	U.S.	Phase 1	
DSP-3905	Neuropathic pain	U.S.	Phase 1	
SEP-378614	Treatment resistant depression	U.S.	Phase 1	
SEP-380135	Agitation in Alzheimer's disease	U.S.	Phase 1	

1. Psychiatry & Neurology

2. Oncology (1/2)

Brand name/			
Product code	Proposed indication	Region	Development stage
(Generic name)			
RETHIO [®] (thiotepa)	 (New indication) Conditioning Treatment Prior to Autologous Hematopoietic Stem Cell Transplantation (HSCT) for malignant lymphoma * Development for the use of unapproved or off-labeled drugs 	Japan	Submitted in March 2019
BBI608 (napabucasin)	Colorectal cancer (Combination therapy)	U.S., Japan	Phase 3 (Global clinical study)
(napabucasin)	Hepatocellular carcinoma (Combination therapy)	U.S.	Phase 1/2
	Gastrointestinal cancer (Combination therapy)	U.S.	Phase 1/2
	Solid tumors (Combination therapy)	U.S.	Phase 1/2
BBI503 (amcasertib)	Hepatocellular carcinoma (Combination therapy)	U.S.	Phase 1/2
	Solid tumors (Monotherapy/ Combination therapy)	U.S.	Phase 1/2
DSP-2033 (alvocidib)	Acute myeloid leukemia (AML) (Combination therapy) (Refractory or relapsed patients)	U.S.	Phase 2
	Myelodysplastic syndromes (MDS) (Combination therapy)	U.S.	Phase 1/2
	Acute myeloid leukemia (AML) (Combination therapy) (Newly diagnosed patients)	U.S.	Phase 1
	Acute myeloid leukemia (AML) (Combination therapy) (Newly diagnosed and refractory or relapsed patients)	Japan	Phase 1
DSP-7888 (adegramotide/	Glioblastoma (Combination therapy)	U.S., Japan	Phase 2 (Global clinical study)
nelatimotide)	Myelodysplastic syndromes (MDS) (Monotherapy)	Japan	Phase 1/2
	Pediatric malignant gliomas (Monotherapy)	Japan	Phase 1/2
	Solid tumors, Hematologic malignancies (Monotherapy)	U.S.	Phase 1
	Solid tumors (Combination therapy)	U.S.	Phase 1
BBI608+BBI503 (napabucasin +amcasertib)	Solid tumors (Combination therapy)	U.S.	Phase 1

3. Oncology (2/2)

Brand name/ Product code (Generic name)	Proposed indication	Region	Development stage
TP-0903	Chronic lymphocytic leukemia (CLL) (Monotherapy / Combination therapy)	U.S.	Phase 1/2
	Solid tumors (Monotherapy / Combination therapy)	U.S., Japan	Phase 1
DSP-0509	Solid tumors (Monotherapy)	U.S.	Phase 1
TP-0184	Solid tumors (Monotherapy)	U.S.	Phase 1
DSP-0337	Solid tumors (Monotherapy)	U.S.	Phase 1
TP-1287	Solid tumors (Monotherapy)	U.S.	Phase 1
TP-3654	Solid tumors (Monotherapy)	U.S.	Phase 1

4. Regenerative medicine / cell therapy

Brand name/ Product code (Generic name)	Proposed indication	Region	Development stage
SB623	Chronic stroke	U.S.	Phase 2
Allo iPS cell-derived dopamine neural progenitor	Parkinson's disease	Japan	Phase 1/2 (Investigator-initiated clinical study)
HLCR011 (Allo iPS cell- derived retinal pigment epithelium)	Age-related macular degeneration (AMD)	Japan	Preparing for start of clinical study

5. Others

Brand name/ Product code (Generic name)	Proposed indication	Region	Development stage
PXL008 (imeglimin)	Type 2 diabetes	Japan	Phase 3

[Main revisions since the announcement of May 2019]

Changes	Brand name/ Product code (Generic name)	Proposed indication	Area	Development stage
Approval	LONASEN [®] (blonanserin)	(New formulation – Transdermal patch) Schizophrenia	Japan	Approved in June 2019
Submitted	SEP-225289 (dasotraline)	Binge eating disorder (BED)	U.S.	Submitted in May 2019
Change of Phase	SEP-363856	Schizophrenia	U.S.	Started Phase 3
Deleted from the table due to the study discontinued	BBI608 (napabucasin)	Pancreatic cancer (Combination therapy)	U.S., Japan	Phase 3 (Global clinical study)

X. Profiles of Major Products under Development (As of July 29, 2019)

1. Psychiatry & Neurology

dasotraline (SEP-225289) Developed in-house (Sunovion Pharmaceuticals Inc.), Formulation: oral

- SEP-225289 is a dopamine and norepinephrine reuptake inhibitor (DNRI). SEP-225289 has an extended half-life (47-77 hours) that supports the potential for plasma concentrations yielding a continuous therapeutic effect over the 24-hour dosing interval.
- Development stage: Binge eating disorder (BED): NDA submitted in the U.S. in May 2019 Attention-deficit hyperactivity disorder (ADHD):
 - U.S.: NDA submitted in August 2017, Complete Response Letter received in August 2018, development strategy under consideration

Japan: Phase 1 in Japan

apomorphine hydrochloride (APL-130277) Developed in-house (Sunovion Pharmaceuticals Inc., from former Cynapsus Therapeutics), Formulation: sublingual film

- APL-130277 is a sublingual film formulation of apomorphine, a dopamine agonist, which is the molecule approved for acute intermittent treatment of OFF episodes associated with Parkinson's disease. It is designed to rapidly, safely and reliably convert a Parkinson's disease patient from the OFF to the ON state while avoiding many of the issues associated with subcutaneous delivery of apomorphine.
- Development stage: NDA submitted in the U.S. in March 2018.

Complete Response Letter received in January 2019

SEP-363856 Developed in-house (Joint research with Sunovion Pharmaceuticals Inc. and PsychoGenics Inc.), Formulation: oral

- SEP-363856 is an antipsychotic agent with a novel mechanism of action discovered using a variety of preclinical models, including the PsychoGenics' SmartCube[®] System phenotypic screening platform and doesn't show affinity to dopamine D₂ receptors. The molecular target(s) responsible for the profile of effects is unknown, but may include agonist effects at serotonin 5-HT_{1A} and TAAR1 (trace amine-associated receptor 1) receptors. Results obtained with the preclinical models suggest that SEP-363856 may be able to treat the positive and negative symptoms of schizophrenia as well as Parkinson's disease psychosis. SEP-363856 is expected to have high efficacy in the treatment of schizophrenia and Parkinson's disease psychosis, with an improved safety profile compared with currently marketed antipsychotics.
- Development stage: Schizophrenia: Phase 3 in the U.S. Parkinson's disease psychosis: Phase 2 in the U.S. Schizophrenia: Phase 1 in Japan

vatiquinone (EPI-743)

In-licensed from BioElectron Technology Corporation (former Edison Pharmaceuticals, Inc.), Formulation: oral

• EPI-743 is expected to show efficacy by removing the oxidative stress that is generated excessively by decreased mitochondrial function. It is expected to be the world's first treatment for mitochondrial diseases, beginning with Leigh syndrome, for which there is no effective therapy.

Development stage: A Phase 2 / 3 study for Leigh syndrome in Japan completed, development strategy under consideration

EPI-589

In-licensed from BioElectron Technology Corporation

(former Edison Pharmaceuticals, Inc.), Formulation: oral

EPI-589 is expected to show efficacy by removing the oxidative stress that is generated excessively by decreased mitochondrial function. It is expected to be developed for neurodegenerative indications arising through redox stress.

Development stage:

Parkinson's disease:Phase 2 in the U.S. by BioElectron Technology CorporationAmyotrophic lateral sclerosis (ALS):Phase 2 in the U.S. by BioElectron Technology CorporationAmyotrophic lateral sclerosis (ALS):Phase 1 in Japan

- SEP-4199 Developed in-house (Sunovion Pharmaceuticals Inc.), Formulation: oral
 - SEP-4199 is investigated for the treatment of major depressive episodes associated with bipolar I disorder. The mechanism of action is not disclosed at this time.
 - Development stage: Bipolar I depression: Phase 2 in the U.S. and Japan

DSP-6745

Developed in-house, Formulation: oral

- DSP-6745 is a serotonin 5-HT_{2A} and serotonin 5-HT_{2C} receptors dual antagonist, which is expected to be effective for Parkinson's disease psychosis and one or more Parkinson's disease non-motor symptoms (depression, anxiety, or cognitive impairment). In addition, DSP-6745 has negligible affinity for dopamine D₂ receptors.
- Development stage: Parkinson's disease psychosis: Phase 1 in the U.S.

SEP-378608Developed in-house (Joint research with Sunovion Pharmaceuticals Inc.)and PsychoGenics Inc.), Formulation: oral

- SEP-378608 is a novel CNS-active molecule discovered using a variety of preclinical models, including the PsychoGenics' SmartCube[®] System phenotypic screening platform. Pre-clinical studies suggest that it may modulate neuronal activity in key areas of the brain associated with the regulation of mood.
- Development stage: Bipolar disorder: Phase 1 in the U.S.

DSP-3905 Developed in-house, Formulation: oral DSP-3905 is an agent that selectively inhibits voltage-gated sodium channels Nav1.7. Based on its inhibitory mode of action, the agent is expected to show a potent analgesic effect on the pain occurring when neurons get excessively excited. In addition, DSP-3905 has a high selectivity for Nav1.7 expressed in peripheral neuron and may not produce central nervous system or cardiovascular system side effects, which are present with the current drugs for neuropathic pain.

• Development stage: Neuropathic pain: Phase 1 in the U.S.

SEP-378614 Developed in-house (Joint research with Sunovion Pharmaceuticals Inc.) and PsychoGenics Inc.), Formulation: oral

- SEP-378614 is a novel CNS-active molecule discovered using a variety of preclinical models, including the PsychoGenics' SmartCube[®] System phenotypic screening platform. Pre-clinical studies suggest that it showed rapid onset and long lasting antidepressant-like activity and neuroplasticity effects.
- Development stage: Treatment resistant depression: Phase 1 in the U.S.

SEP-380135 Developed in-house (Joint research with Sunovion Pharmaceuticals Inc. and PsychoGenics Inc.), Formulation: oral

 SEP-380135 is a novel CNS-active molecule discovered using a variety of preclinical models, including the PsychoGenics' SmartCube[®] System phenotypic screening platform. Pre-clinical studies suggest that it showed a broad range of in vivo activities suggesting efficacy against a number of behavioral and psychological symptoms in dementia, including agitation/aggression, psychomotor hyperactivity, depression and deficits in social interaction.

• Development stage: Agitation in Alzheimer's disease: Phase 1 in the U.S.

2. Oncology

napabucasin (BBI608) Developed in-house (Boston Biomedical, Inc.), Formulation: oral
 BBI608 is an orally administered small molecule agent with a novel mechanism of action which is bioactivated by the enzyme NQO1 in cancer cells, which generates reactive oxygen species (ROS) to inhibit cancer stemness and tumor progression-related pathways including STAT3, which is expected to result in cancer cell death.

Development stage:

Stage	Proposed indication	Country/ Area	Combination products	Study number
Phase 3	Colorectal cancer (combination therapy)	U.S., Japan	FOLFIRI' ³ , FOLFIRI' ³ + bevacizumab	CanStem303C
Phase 2	Colorectal cancer (combination therapy)	U.S.	cetuximab, panitumumab, capecitabine	224
	Solid tumors ^{*1} (combination therapy)	U.S.	paclitaxel	201
	Hepatocellular carcinoma ^{*2} (combination therapy)	U.S.	sorafenib	HCC-103
Phase 1 / 2	Solid tumors (combination therapy)	U.S.	ipilimumab, pembrolizumab, nivolumab	201CIT
	Gastrointestinal cancer (combination therapy)	U.S., Canada	FOLFOX ^{*3} , FOLFOX ^{*3} + bevacizumab, CAPOX ^{*3} , FOLFIRI ^{*3} , FOLFIRI ^{*3} + bevacizumab, regorafenib, irinotecan	246
Phase 1	Pancreatic cancer (combination therapy)	U.S.	gemcitabine + nab-paclitaxel, FOLFIRINOX ^{*3} , FOLFIRI ^{*3} , irinotecan liposome injection + fluorouracil + leucovorin	118
	Solid tumors (combination therapy)	U.S.	amcasertib	401-101

*1 Phase 2 stage: Ovarian cancer, Breast cancer, Melanoma, etc.

*2 Phase 2 stage

*3 FOLFOX: Combination therapy with fluorouracil, leucovorin, oxaliplatin CAPOX: Combination therapy with capecitabine, oxaliplatin FOLFIRI: Combination therapy with fluorouracil, leucovorin, irinotecan FOLFIRINOX: Combination therapy with fluorouracil, leucovorin, irinotecan, oxaliplatin

amcasertib (BBI503)

Developed in-house (Boston Biomedical, Inc.), Formulation: oral

- BBI503 is an orally administered small molecule agent with a novel mechanism of action designed to inhibit cancer stemness pathways, including Nanog, by targeting stemness kinases. By inhibiting pathways involved in the maintenance of cancer stemness, it may provide a new therapeutic option against the challenges in cancer treatment such as treatment resistance, recurrence and metastasis. BBI503 has been shown to inhibit multiple kinases in pre-clinical studies.
- Development stage:

Stage	Proposed indication	Country/ Area	Combination products	Study number
Phase 2	Hepatocellular carcinoma, Cholangiocarcinoma (monotherapy)	Canada	-	205b
Phase 1 / 2	Solid tumors* (monotherapy)	U.S.	-	101
	Hepatocellular carcinoma (combination therapy)	U.S.	sorafenib	HCC-103

Stage	Proposed indication	Country/ Area	Combination products	Study number
Phase 1 / 2	Solid tumors (combination therapy)	U.S.	capecitabine, doxorubicin, nivolumab, pembrolizumab, paclitaxel, sunitinib	201
	Solid tumors (combination therapy)	U.S.	napabucasin	401-101

* Phase 2 stage: Colorectal cancer, Head and neck cancer, Ovarian cancer, etc.

alvocidib (DSP-2033)

In-licensed from Sanofi S.A., Formulation: injection

- Alvocidib is a small molecule inhibitor of cyclin-dependent kinase 9 (CDK9), a member of cyclindependent kinase family, which activates transcription of cancer-related genes. The subsequent down-regulation of MCL-1, an anti-apoptotic gene, may be responsible for the potential clinical anticancer activity observed with alvocidib.
- Development stage:

Stage	Proposed indication	Country/ Area	Combination products	Study number	
	Acute myeloid leukemia (combination therapy) (refractory or relapsed patients)		cytarabine, mitoxantrone	TPI-ALV-201 (Zella 201)	
Phase 2	Acute myeloid leukemia (monotherapy/combination therapy) (refractory or relapsed patients following treatment with venetoclax combination therapy)	U.S.	cytarabine	TPI-ALV-202	
Phase 1/2	Myelodysplastic syndromes (combination therapy)	U.S.	decitabine	TPI-ALV-102 (Zella 102)	
Phase 1	Acute myeloid leukemia (combination therapy) (newly diagnosed patients)	U.S.	cytarabine, daunorubicin	TPI-ALV-101 (Zella 101)	
	Acute myeloid leukemia (combination therapy) (newly diagnosed and refractory or relapsed patients)	Japan	newly diagnosed: cytarabine, daunorubicin refractory or relapsed : cytarabine, mitoxantrone	DC850101	
	Acute myeloid leukemia (combination therapy) (refractory or relapsed patients)	U.S.	venetoclax	M16-186*	

* Co-development with AbbVie

adegramotide/nelatimotide (DSP-7888) DSP-7888 is a therapeutic cancer peptide vaccine derived from Wilms' tumor gene 1 (WT1) protein. DSP-7888 is a vaccine containing peptides that induces WT1-specific cytotoxic T lymphocytes (CTLs) and helper T cells. DSP-7888 is expected to become a treatment option for patients with various types of hematologic malignancies and solid tumors that express WT1, by inducing WT1-specific CTLs that attack WT1-expressing cancer cells. By adding a helper T cell-inducing peptide, improved efficacy over that observed with a CTL-inducing peptide alone may be achieved. DSP-7888 is expected to be an option for a wide range of patients.

Development stage:

Stage	Proposed indication	Country/ Area	Combination products	Study number
Phase 2	Glioblastoma (combination therapy)	U.S., Japan	Bevacizumab	BBI-DSP7888- 201G
Phase 1/2	Myelodysplastic syndromes (monotherapy)*	Japan	-	DB650027
	Pediatric malignant gliomas (monotherapy)*	Japan	-	DB601001

Stage	Proposed indication	Country/ Area	Combination products	Study number
Phase	Solid tumors, Hematologic malignancies (monotherapy)	U.S.	-	BBI-DSP7888- 101
1	Solid tumors (combination therapy)	U.S.	nivolumab, atezolizumab	BBI-DSP7888- 102CI

* Phase 2 stage

TP-0903

In-licensed from University of Utah, Formulation: oral

- TP-0903 is an AXL receptor tyrosine kinase inhibitor, which is known to be involved in acquiring
 resistance to conventional agents and developing metastatic capacity in cancer cells. TP-0903 may
 have anti-cancer activities on various cancer types through blocking transition from epithelial to
 mesenchymal phenotype by inhibiting AXL. TP0903 has been shown to inhibit AXL signaling and
 reverse the mesenchymal to epithelial phenotype in pre-clinical studies.
- Development stage: Chronic lymphocytic leukemia (monotherapy / combination therapy): Phase 1/2 in the U.S. Solid tumors (monotherapy / combination therapy): Phase 1 in the U.S. and Japan

DSP-0509

Developed in-house, Formulation: injection

- DSP-0509 is a novel Toll-like receptor (TLR) 7 agonist. DSP-0509 may promote the cytokine induction and cytotoxic T lymphocyte (CTL) activation mediated by agonistic effect of TLR 7 expressing in plasmacytoid dendritic cell. Furthermore, DSP-0509 is expected to sustain the immune-mediated anticancer activity by induction of immune system memory T cells.
- Development stage: Solid tumors (monotherapy): Phase 1 in the U.S.
- TP-0184 Developed in-house (Tolero Pharmaceuticals, Inc.), Formulation: oral
 TP-0184 inhibits activin A receptor type 1 (ACVR1, also known as ALK2), part of the transforming growth factor beta (TGFβ) receptor superfamily. Mutations in the ACVR1 gene have been identified in various tumors, including diffuse intrinsic pontine glioma (DIPG; one of common pediatric brain tumors). TP-0184 has been shown to inhibit the growth of tumors harboring ACVR1 mutations in the pre-clinical studies.
 - Development stage: Solid tumors (monotherapy): Phase 1 in the U.S.
- DSP-0337 Developed in-house, Formulation: oral
 DSP-0337 is a small molecule oral prodrug of napabucasin. DSP-0337 is expected to be stable and dispersed in the stomach, and converted to napabucasin in the intestine, which may be absorbed and exert its pharmacologic activities.
 - Development stage: Solid tumors (monotherapy): Phase 1 in the U.S.

<u>TP-1287</u>

- Developed in-house (Tolero Pharmaceuticals, Inc.), Formulation: oral
 TP-1287 is a small molecule oral agent that inhibits cyclin-dependent kinase 9 (CDK9). TP-1287 has shown favorable oral bioavailability in preclinical studies. It is enzymatically cleaved, yielding alvocidib, a potent inhibitor of CDK9. The oral administration of TP-1287 may allow for administration for a prolonged period, which may lead to a continuous inhibition of CDK9.
- Development stage: Solid tumors (monotherapy): Phase 1 in the U.S.
- TP-3654 Developed in-house (Tolero Pharmaceuticals, Inc.), Formulation: oral
 TP-3654 inhibits the inflammatory signaling pathways through inhibition of PIM (proviral integration site for Moloney murine leukemia virus) kinases. PIM kinases are frequently overexpressed in various hematologic malignancies and solid tumors, allowing cancer cells to evade apoptosis and promoting tumor growth.
 - Development stage: Solid tumors (monotherapy): Phase 1 in the U.S.

3. Regenerative medicine / cell therapy

- SB623 In-licensed from and co-developed with SanBio, Inc., Formulation: injection
 SB623 is an allogeneic cell product, derived from bone marrow stromal cells isolated from healthy donors. SB623 is expected to be effective for chronic stroke, which has no effective treatments available, by promoting regeneration of central nerve cells. Unlike autologous cell therapies that require individualized cell preparation at the clinical site, SB623 production can be scaled up from a single donor's cells, enabling delivery of uniform-quality products to a large number of stroke patients.
 - Development stage: Chronic stroke: Phase 2 in the U.S. (Co-development with SanBio)

Allo iPS cell-derived products

- In cooperation with the partners in the industry-academia collaboration, we are promoting toward the commercialization of regenerative medicine / cell therapy using allo iPS cell (healthy patients) for AMD (age-related macular degeneration), Parkinson's disease, retinitis pigmentosa, and spinal cord injury.
- Development stage:

Development code	Partnering	Proposed indication	Area	Development stage
-	Kyoto University CiRA	Parkinson's disease	Japan	Phase 1/2 (Investigator-initiated clinical study)
HLCR011	RIKEN, Healios	Age-related macular degeneration (AMD)	Japan	Preparing for start of clinical study

4. Others

imeglimin (PXL008) In-licensed from and co-developed with Poxel SA, Formulation: oral

- Imeglimin is the first clinical candidate in a new chemical class of oral agents called the Glimins by the World Health Organization. Imeglimin has a unique mechanism of action that targets mitochondrial bioenergetics. Imeglimin acts on all three key organs which play an important role in the treatment of type 2 diabetes: the liver, muscles, and the pancreas, and it has demonstrated glucose lowering benefits by increasing insulin secretion in response to glucose, improving insulin sensitivity and suppressing gluconeogenesis.
- Development stage: Type 2 diabetes: Phase 3 in Japan (Co-development with Poxel)