Securities Code: 4506

Supplementary Financial Data (IFRS) for the Third Quarter of the Year Ending March 31, 2022

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January 31, 2022

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.
 Myovant Sciences Ltd. ("Myovant") is listed on the New York Stock Exchange, and the Group holds approximately 53% of the outstanding shares of Myovant. This material contains information about Myovant, which is based on information disclosed by Myovant. For more information on Myovant, please visit https://www.myovant.com/.
- · 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)

(Billions of yen)

	Q3YTD FY2020	Q3YTD FY2021	Change % YoY	- LA.2U.2U		FY2021 (Forecast)		Change % YoY
Revenue	394.8	432.1	9.5	516.0	6.9	[578.0]	554.0	7.4
Cost of sales *1	104.8	117.8	12.4	137.5	7.1	[156.0]	154.0	12.0
Gross profit	290.0	314.2	8.4	378.5	6.8	[422.0]	400.0	5.7
SG&A expenses *1	145.7	188.6	29.5	211.8	11.5	[263.0]	252.0	19.0
R&D expenses *1	71.7	67.8	(5.4)	97.1	4.8	[95.0]	92.0	(5.2)
Other operating income/expenses *2	(0.0)	1.1		(0.0)		[-]	1.0	
Core operating profit	72.6	59.0	(18.7)	69.6	(3.3)	[64.0]	57.0	(18.1)
Changes in fair value of contingent consideration (negative number indicates loss)	(0.4)	(0.2)		22.5			(1.0)	
Other non-recurring items *3 (negative number indicates loss)	15.4	(0.5)		(20.8)		[(2.0)]	(1.0)	
Operating profit	87.5	58.2	(33.5)	71.2	(14.4)	[61.0]	55.0	(22.8)
Net profit	57.9	35.2	(39.2)	36.8	2.5		N/A	
Net profit attributable to owners of the parent	70.3	46.4	(34.0)	56.2	38.0	[41.0]	37.0	(34.2)
Basic earnings per share (yen)	176.84	116.69		141.50			93.13	,
Net profit/ Equity attributable to owners of the parent (ROE)	13.0%	7.8%		10.1%			6.2%	

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

2. Consolidated Statement of Profit or Loss (Full Basis)

(Billions of yen)

or 2000 (Fall Basis)	Q3YTD FY2020	Q3YTD FY2021	Change % YoY
Revenue	394.8	432.1	9.5
Cost of sales	104.8	117.8	12.4
Gross profit	290.0	314.2	8.4
SG&A expenses	147.0	189.0	28.6
R&D expenses	71.7	67.8	(5.4)
Other operating income/expenses	16.3	0.8	
Operating profit	87.5	58.2	(33.5)
Finance income/costs	(7.8)	7.4	
Profit before taxes	79.7	65.6	(17.7)
Income tax expenses	21.8	30.4	
Net profit	57.9	35.2	(39.2)
Net profit attributable to owners of the parent	70.3	46.4	(34.0)

*1	Exclude non-recurring items (impairment
	loss, changes in fair value of contingent
	consideration, etc.)

^{*2} Including P/L on business transfers, share of P/L of associates accounted for using equity method

using equity method
*3 Non-recurring items ("other operating income and expenses" except for *2

3. Consolidated Statement of Cash Flows	Q3YTD FY2020	Q3YTD FY2021	(Billions of yen)
Net cash provided by (used in) operating activities	107.9	9.1	
Net cash provided by (used in) investing activities	35.6	7.3	_
Net cash provided by (used in) financing activities	(18.4)	(20.4)	_
Cash and cash equivalents at the end of period	219.8	196.3	_

4. Foreign Exchange Rates	FY2020 AprDec.		FY2021 AprDec		orDec. FY2021 assumption		sitivity FY2021 en depreciation / ¥1)
	Period end rate	Average rate	Period end rate	Average rate	Average rate	Revenue	Core operating profit
Yen / USD	103.5	106.1	115.0	111.1	110.0	2.9	(0.2)
Yen / RMB	15.9	15.5	18.1	17.3	17.0	2.1	0.7
					-		(Billians of you)

(Billions of yen)

5. Capital Expenditures/ Depreciation and Amortization	Q3YTD FY2020	Q3YTD FY2021	Change	FY2021 (Forecast)	Change	(Billions of yen)
Capital expenditures	6.8	9.2	2.5	12.0	(0.7)	_
Depreciation of Property, plant and equipment	7.9	8.5	0.6	10.1	(0.5)	•
Amortization of Intangible assets	6.7	19.6	12.9	26.4	14.4	
Related to products (patent rights/ marketing rights) included in above	4.8	17.6	12.8	23.7	14.1	_

Note: The amount of capital expenditures are for tangible fixed assets and software.

Major capital expenditure project in FY2021

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

Establishment of manufacturing facility for regenerative medicine and cell therapy, total budget ¥1.1billion, to be completed in FY2021

(New) Relocation of Tokyo Head Office $\,\,$ 1.6billion, to be completed in FY2022

II. Consolidated Statement of Profit or Loss

1. Consolidated Statement of Prof	Q3YTD	Q3YTD	Change	(Billions of y Change	en)				
	FY2020	FY2021	Change	%		¥billion	Change	FX rate	
Revenue	394.8	432.1	37.3	9.5	•	Japan	(1.4)	44.0	
Overseas revenue	249.1	284.6	35.4	14.2		North America China	32.7 8.0	11.3 2.8	
% of Revenue	63.1%	65.9%				Other Regions	(4.1)		
Cost of sales	104.8	117.8	13.0	12.4					
% of Revenue	26.5%	27.3%							
Gross profit	290.0	314.2	24.3	8.4					
SG&A expenses	145.7	188.6	42.9	29.5	←	Include Sumitova	nt +64.2		
Labor costs	68.7	84.1	15.4	22.4					
Advertising and promotion costs	14.9	13.4	(1.5)	(10.1)					
Sales promotion costs	11.6	15.3	3.7	32.3					
Amortization/Depreciation	10.1	23.1	13.0	129.6					
Others	40.4	52.7	12.3	30.4					
R&D expenses	71.7	67.8	(3.9)	(5.4)					
% of Revenue	18.2%	15.7%							
Other operating income/expenses	(0.0)	1.1	1.2						
Core operating profit	72.6	59.0	(13.6)	(18.7)		Changes in fair v	value of c	ontingen	
Changes in fair value of contingent consideration *	(0.4)	(0.2)	0.1			consideration former BBI		Q3 '20 (0.5)	Q3 '21
Other non-recurring items *	15.4	(0.5)	(15.8)	,	×	former Tolero		0.1	(0.2)
Operating profit	87.5	58.2	(29.3)	(33.5)		FY20: Gain on sa	e of fixed	assets	
Finance income	1.1	9.6	8.5						
Finance costs	8.9	2.3	(6.6)						
Profit before taxes	79.7	65.6	(14.1)	(17.7)					
Income tax expenses	21.8	30.4	8.6						
Net profit	57.9	35.2	(22.7)	(39.2)					
Net profit attributable to owners of the parent	70.3	46.4	(23.9)	(34.0)					

^{*} Negative number indicates loss.

2. Adjustments to Core Operating Profit

(Billions of yen) Q3YTD FY2021 Full Basis **Core Basis** Adjustment Major adjustment items Revenue 432.1 432.1 Cost of sales 117.8 117.8 **Gross profit** 314.2 314.2 SG&A expenses 189.0 (0.4) Changes in fair value of contingent consideration (0.2)188.6 R&D expenses 67.8 67.8 Other operating income 1.7 1.1 (0.5)0.9 Other operating expenses (0.9)Operating profit 58.2 59.0 0.7

III. Segment Information (Core Basis)

(Billions of yen)

		Pharma	ceuticals l	Business		Other	
Q3YTD FY2021 Results	Japan	North America	China	Other Regions	Subtotal	Business	Total
Revenue (Sales to customers)	117.2	250.7	27.0	7.3	402.2	29.9	432.1
Cost of sales	61.9	23.6	5.3	4.0	94.8	23.0	117.8
Gross profit	55.3	227.1	21.8	3.3	307.5	6.8	314.2
SG&A expenses	38.3	135.6	8.8	1.9	184.7	4.0	188.6
Core segment profit	17.0	91.5	12.9	1.4	122.8	2.8	125.6
R&D expenses *1					67.2	0.6	67.8
Other operating income/expenses (Core basis)*2					1.1	0.0	1.1
Core operating profit					56.7	2.2	59.0

(Billions of yen)

		Pharma	aceuticals (Business		Other	
Q3YTD FY2020 Results	Japan	North America	China	Other Regions	Subtotal	Business	Total
Revenue (Sales to customers)	118.5	218.0	19.1	11.5	367.1	27.7	394.8
Cost of sales	59.5	16.3	3.9	4.2	83.8	21.0	104.8
Gross profit	59.1	201.7	15.2	7.3	283.3	6.6	290.0
SG&A expenses	36.1	97.2	6.7	2.0	142.0	3.8	145.7
Core segment profit	23.0	104.5	8.5	5.3	141.4	2.9	144.2
R&D expenses *1					71.1	0.6	71.7
Other operating income/expenses (Core basis)*2					(0.0)	(0.0)	(0.0)
Core operating profit			•		70.3	2.2	72.6

(Billions of yen)

(Ellions of ye								
		Pharma	aceuticals E	Business		Other	Total	
FY2021 Forecasts	Japan	North America	China	Other Regions	Subtotal	Business		
Revenue (Sales to customers)	148.4	319.3	35.8	12.0	515.5	38.5	554.0	
Cost of sales	79.0	31.7	6.9	6.7	124.3	29.7	154.0	
Gross profit	69.4	287.6	28.9	5.3	391.2	8.8	400.0	
SG&A expenses	52.9	179.4	11.7	2.4	246.4	5.6	252.0	
Core segment profit	16.5	108.2	17.2	2.9	144.8	3.2	148.0	
R&D expenses *1					91.0	1.0	92.0	
Other operating income/expenses (Core basis)*2					1.0	-	1.0	
Core operating profit					54.8	2.2	57.0	

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

^{*2} Including P/L on business transfers, share of P/L of associates accounted for using equity method Note: The forecasts have been revised.

IV. Revenues Information

1. Sales of Pharmaceuticals Business (Sales to customers)

(Billions of yen)

Segment	Q3YTD FY2020	Q3YTD FY2021	Change	Change %	FY20 (Forec		Progress %
Japan	118.5	117.2	(1.4)	(1.2)	[150.0]	148.4	78.1
North America	218.0	250.7	32.7	15.0	[349.7]	319.3	71.7
China	19.1	27.0	8.0	41.8	[29.8]	35.8	90.7
Other Regions	11.5	7.3	(4.1)	(36.1)	[10.3]	12.0	71.1

2. Sales of Major Products (1)

(Invoice price basis, Billions of yen)

Brand name Therapeutic indication	Q3YTD FY2020	Q3YTD FY2021	Change	Change %	FY202 (Foreca		Progress %
Japan							
Promoted products							
Equa®/EquMet® Therapeutic agent for type 2 diabetes (Nov. 2019~)	31.3	29.4	(1.9)	(5.9)		37.4	78.7
Trulicity _® * Therapeutic agent for type 2 diabetes	25.9	25.8	(0.1)	(0.5)	[38.2]	33.9	67.4
TRERIEF® Therapeutic agent for Parkinson's disease	12.7	12.9	0.2	1.8	[17.9]	16.5	72.0
REPLAGAL® Therapeutic agent for Fabry disease	10.6	10.7	0.1	1.0	[13.8]	12.1	77.2
METGLUCO® Therapeutic agent for type 2 diabetes	7.2	6.3	(0.9)	(12.5)	[6.9]	8.1	91.2
LATUDA® Atypical antipsychotic (Jun. 2020~)	1.6	5.0	3.4	213.0		6.7	75.0
LONASEN® Tape Atypical antipsychotic (Sep. 2019~)	0.9	1.5	0.6	64.3	[2.5]	2.0	61.6
Other products							
AMLODIN ® Therapeutic agent for hypertension and angina pectoris	5.1	4.5	(0.7)	(12.8)	[5.0]	5.5	89.3
Authorized Generics	5.9	7.5	1.6	27.4	[10.1]	9.8	73.8

 $^{^{\}star}$ Trulicity_{\tiny{\scriptsize \\$}} revenue is shown by NHI price.

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)

MYFEMBREE®/RYEQO®

 $\mathsf{GEMTESA}^{\mathbb{8}}$

(Billions of yen)

Brand name Therapeutic indication	Q3YTD FY2020	Q3YTD FY2021	Change	Change %	FY20 (Fored		Progress %
North America							
LATUDA ® Atypical antipsychotic	160.5	157.1	(3.4)	(2.1)	[220.4]	206.9	71.3
APTIOM® Antiepileptic	19.8	20.7	0.9	4.5	[27.4]	26.3	75.6
BROVANA® Therapeutic agent for COPD	22.5	11.5	(11.0)	(49.0)	[11.7]	12.6	98.1
KYNMOBI® OFF episodes associated with Parkinson's disease (Sep. 2020~)	0.2	0.4	0.2	152.7	[3.1]	0.6	12.9
ORGOVYX® Therapeutic agent for advanced prostate cancer (Jan. 2021~)	_	6.0	6.0	-		N/A	-
MYFEMBREE®/RYEQO® Therapeutic agent for uterine fibroids (Jun. 2021~)	_	0.9	0.9	_		N/A	_
GEMTESA ® Therapeutic agent for overactive bladder (Apr. 2021~)	_	4.2	4.2	_		N/A	_
China							
MEROPEN® Carbapenem antibiotic	15.3	21.2	5.8	38.1	[22.5]	27.8	94.1
Other Regions							
MEROPEN® Carbapenem antibiotic	4.4	4.6	0.2	3.9	[5.7]	7.1	80.7
(Ref.) Products sales in North	America (ba	sed on loca	al currency	y)		(Millior	s of dollar)
Brand name	Q3YTD FY2020	Q3YTD FY2021	Change	Change %	FY20 (Fored		Progress %
LATUDA [®]	1,513	1,413	(99)	(6.6)	[2,004]	1,881	70.5
APTIOM [®]	187	186	(1)	(0.3)	[249]	239	74.9
BROVANA [®]	212	103	(109)	(51.3)	[106]	115	97.4
KYNMOBI [®]	1	4	2	141.2	[28]	5	12.8
ORGOVYX [®]	_	54	54	_		N/A	_

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

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8

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N/A

N/A

V. Consolidated Statement of Financial Position

	(Billions of yen)			
	Mar.31 2021	Dec. 31 2021	Change	
Assets	1,308.1	1,295.9	(12.2)	
Non-current assets	848.3	828.6	(19.7)	
Property, plant and equipment	65.0	64.0	(0.9)	
Goodwill	176.5	183.3	6.9	
Intangible assets	383.4	383.0	(0.4)	
Patent rights/Marketing rights	210.7	346.6	136.0	
In-process R&D	165.9	29.0	(137.0)	
Others	6.8	7.4	0.6	
Other financial assets	193.0	157.3	(35.8)	
Other non-current assets	10.2	11.8	1.6	
Deferred tax assets	20.2	29.2	9.0	
Current assets	459.8	467.3	7.5	
Inventories	92.2	94.3	2.1	
Trade and other receivables	135.9	155.8	19.9	
Other financial assets	29.5	11.7	(17.7)	
Other current assets	8.5	9.1	0.6	
Cash and cash equivalents	193.7	196.3	2.6	
Liabilities	659.9	630.1	(29.8)	
Non-current liabilities	381.8	358.5	(23.4)	
Bonds and borrowings	263.9	244.0	(19.9)	
Other financial liabilities	21.4	17.2	(4.2)	
Retirement benefit liabilities	15.1	15.1	0.1	
Other non-current liabilities	53.0	56.0	2.9	
Deferred tax liabilities	28.4	26.2	(2.3)	
Current liabilities	278.1	271.7	(6.5)	
Borrowings	10.0	25.8	15.8	
Trade and other payables	64.6	50.8	(13.8)	
Other financial liabilities	23.3	17.8	(5.6)	
Income taxes payable	24.5	13.1	(11.5)	
Provisions	99.9	105.9	6.1	
Other current liabilities	55.8	58.3	2.5	
Equity	648.2	665.8	17.6	
Share capital	22.4	22.4	_	
Capital surplus	15.9	15.7	(0.2)	
Treasury shares	(0.7)	(0.7)	(0.0)	
Retained earnings	508.7	547.7	39.0	
Other components of equity	34.3	15.7	(18.6)	
Equity attributable to owners of the	580.6	600.8	20.2	
parent				
Non-controlling interests	67.6	65.0	(2.6)	

Goodwill	21/3	21/12		
Other than oncology(SDPO)	152.3	158.2		
Oncology(SDPO)	24.2	25.2		
Major patent rights	21/3	21/12		
KYNMOBI [®] (apomorphine)	51.3	49.6		
ORGOVYX® (relugolix)	62.3	61.8		
MYFEMBREE® (relugolix)	-	*133.3		
GEMTESA® (vibegron)	91.3	89.9		
*Transferred from IPR&D				

Major IPR&D	21/3	21/12
former Tolero products	17.7	18.4
relugolix	133.2	*-

*Transferred to Patent rights

Decrease by change in value and sale of securities

Decrease by collection of short-term loan

Total bonds and borrowings 273.8 → 269.8

Contingent consideration	Total possible				
liabilities	21/3	21/12	payment		
former Tolero	8.3	7.8	(Max) \$360M		
Included in "Other financial liabilities (Non-current/Current)"					

VI. Changes in Quarterly Results

(Billions of yen)

Core Basis		FY20	20			FY2021	
Core Dasis	Q1	Q2	Q3	Q4	Q1	Q2	Q3
Revenue	133.9	127.6	133.3	121.2	131.2	162.5	138.3
Cost of sales	36.0	34.7	34.1	32.7	38.5	38.4	41.0
Gross profit	97.9	92.9	99.2	88.5	92.7	124.2	97.4
SG&A expenses	47.8	45.8	52.1	66.0	62.0	62.5	64.2
R&D expenses	25.7	23.5	22.5	25.4	22.4	23.3	22.1
Other operating income/expenses	(0.0)	(0.0)	0.0	(0.0)	0.2	1.0	(0.0)
Core operating profit	24.4	23.6	24.6	(3.0)	8.5	39.4	11.0
Changes in fair value of							
contingent consideration (negative number indicates loss)	(1.2)	1.3	(0.4)	22.8	(0.1)	(0.1)	(0.1)
9	0.1	1.3 (0.6)	(0.4) 15.9	22.8 (36.2)	(0.1)	(0.1)	(0.1)
(negative number indicates loss) Other non-recurring items							
(negative number indicates loss) Other non-recurring items (negative number indicates loss)	0.1	(0.6)	15.9	(36.2)	(0.1)	(0.1)	(0.3)

VII. Major Consolidated Subsidiaries (As of December 31, 2021)

Domestic	Establish- ment	Ownership	Number of employees	Businesses
DSP GOKYO FOOD & CHEMICAL Co., Ltd.	1947/10	100%	204	Manufacturing and sales of food ingredients, food additives, chemical product materials, etc.
DS Pharma Animal Health Co., Ltd.	2010/7	100%	94	Manufacturing, and sales of veterinary medicines, etc.
DS Pharma Promo Co., Ltd.	1998/6	100%	38	Manufacturing and sales of pharmaceuticals, etc.
Overseas	Establish- ment	Ownership	Number of employees	Businesses
Sumitomo Dainippon Pharma America, Inc.	2009/7	100%	164	Holding company, shared service for general management operations
Sunovion Pharmaceuticals Inc.	1984/ 1	100%	*1,210	Manufacturing and sales of pharmaceuticals
Sumitomo Dainippon Pharma Oncology, Inc.	2006/11	100%	190	R&D in the oncology area
Sumitovant Biopharma, Inc.	2019/10	100%	102	Management of Sumitovant group companies, and formulation and promotion of business strategies, etc.
Myovant Sciences Ltd.	2016/ 2	54%	*565	R&D, manufacturing and sales of pharmaceuticals in the women's health, prostate cancer area
Urovant Sciences Ltd.	2016/ 1	100%	*302	R&D, manufacturing and sales of pharmaceuticals in the urology area
Enzyvant Therapeutics Ltd.	2016/ 1	100%	*30	R&D in the pediatric rare diseases area
Altavant Sciences Ltd.	2017/9	100%	*20	R&D in the respiratory rare diseases area
Spirovant Sciences Ltd.	2019/ 2	100%	*34	R&D in the cystic fibrosis gene therapy area
Sumitomo Pharmaceuticals (Suzhou) Co., Ltd.	2003/12	100%	774	Manufacturing and sales of pharmaceuticals

^{*} Include employees of consolidated subsidiaries

(Reference) Number of employees and MRs

	March 31	, 2020	March 31	, 2021	Dec 31,	2021
consolidated / non-consolidated	6,457	3,023	6,822	3,067	7,023	3,074
MRs (include number of contracted	MRs)					
Japan Exclude managers/Total	1,220	1,340	1,150	1,270	1,110	1,220
U.S. Exclude managers/Total	650	740	720	840	810	940
China Exclude managers/Total	330	400	340	410	340	420

VIII. Development Pipeline (As of January 31, 2022)

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

1. Psychiatry & Neurology

i. Psycinally & Ne	1. Psychiatry & Neurology						
Brand name/ Product code (Generic name)	Proposed indication	Region	Development stage				
SEP-363856	Schizophrenia	U.S.	Phase 3				
(ulotaront)		Japan, China	Phase 2/3 (Global study)				
	Parkinson's disease psychosis	U.S.	Phase 2				
SEP-4199	Bipolar I depression	U.S., Japan	Phase 3 (Global study)				
LATUDA [®]	(New indication) Bipolar I depression	China	Phase 3				
(lurasidone	(New usage: pediatric) Schizophrenia	Japan	Phase 3				
hydrochloride)							
EPI-589	Parkinson's disease	U.S.	Phase 2				
	Amyotrophic lateral sclerosis (ALS)	U.S.	Phase 2				
		Japan	Phase 2				
			(Investigator-initiated 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	To be determined	U.S.	Phase 1				
SEP-380135	To be determined	U.S.	Phase 1				
DSP-0038	Alzheimer's disease psychosis	U.S.	Phase 1				
DSP-9632P	Levodopa-induced dyskinesia in	Japan	Phase 1				
	Parkinson's disease						
DSP-0187	Narcolepsy	Japan	Phase 1				

2. Oncology

Brand name/ Product code (Generic name)	Proposed indication	Region	Development stage
relugolix	Prostate cancer	Europe	MAA submitted in
			March 2021
DSP-7888 (adegramotide/ nelatimotide)	Solid tumors	U.S.	Phase 1/2
TP-0903 (dubermatinib)	Acute myeloid leukemia (AML)	U.S.	Phase 1/2 (Research group- initiated study)

DSP-0509	Solid tumors	U.S.	Phase 1/2
(guretolimod)			
TP-0184	Anemia associated with myelodysplastic	U.S.	Phase 1/2
(itacnosertib)	syndromes		
DSP-5336	Hematologic malignancies	U.S., Japan	Phase 1/2
TP-1287	Solid tumors	U.S.	Phase 1
TP-3654	Myelofibrosis	U.S., Japan	Phase 1
TP-1454	Solid tumors	U.S.	Phase 1
DSP-0390	Solid tumors	U.S., Japan	Phase 1

3. Regenerative medicine / cell therapy

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

4. Others

Brand name/ Product code (Generic name)	Proposed indication	Region	Development stage
MYFEMBREE®	(New indication) Endometriosis	U.S.	sNDA submitted in July
(relugolix)			2021
lefamulin	Bacterial community-acquired pneumonia	China	NDA submitted in
			October 2021
GEMTESA®	(New indication) Overactive bladder (OAB)	U.S.	Phase 3
(vibegron)	in men with benign prostatic hyperplasia		
	(BPH)		
rodatristat ethyl	Pulmonary arterial hypertension (PAH)	U.S.	Phase 2
MVT-602	Female infertility	Germany	Phase 2
URO-902	Overactive bladder (OAB)	U.S.	Phase 2
KSP-1007	Complicated urinary tract infections and	U.S.	Phase 1
	Complicated intra-abdominal infections		

[Main revisions since the announcement of October 2021]

Brand name/ Product code (Generic name)	Proposed indication	Region	Development stage	Changes
SEP-4199	Bipolar I depression	Japan	Phase 3 (Global study)	Development stage changed
DSP-0187	Narcolepsy	Japan	Phase 1	Newly added
KSP-1007	Complicated urinary tract infections and Complicated intra-abdominal infections	U.S.	Phase 1	
DSP-5336	Hematologic malignancies	U.S., Japan	Phase 1	Added Japan
DSP-7888 (adegramotide/ nelatimotide)	Glioblastoma	U.S., Japan	Phase 3 (Global study)	Deleted from the table due to the study terminated
SMC-01 (mobile app for management of type 2 diabetic patients)	Type 2 diabetes	Japan	Phase 3	Deleted from the table due to discontinuation
DSP-1181	Obsessive compulsive disorder	Japan	Phase 1	

IX. Profiles of Major Products under Development (As of January 31, 2022)

1. Psychiatry & Neurology

ulotaront (SEP-363856)

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

• Ulotaront (SEP-363856) is a TAAR1 (trace amine-associated receptor 1) agonist with serotonin 5-HT_{1A} agonist activity. Ulotaront does not bind to dopamine D₂ or serotonin 5-HT_{2A} receptors. Sunovion discovered ulotaront in collaboration with PsychoGenics using its in vivo phenotypic SmartCube® platform and associated artificial intelligence algorithms. Phase 2 results in patients with schizophrenia support the efficacy of ulotaront in treating both positive and negative symptoms of schizophrenia, while demonstrating a side effect of profile with notable similarities to placebo: extrapyramidal symptoms, weight gain, lipid and glucose derangements or prolactin elevation.

Development stage: (Co-development with Otsuka Pharmaceutical Co., Ltd.)

Schizophrenia: Phase 3 in the U.S.

Schizophrenia: Phase 2/3 in Japan and China Parkinson's disease psychosis: Phase 2 in the U.S.

SEP-4199 Origin: in-house (Sunovion Pharmaceuticals Inc.), Formulation: oral

- SEP-4199 is a non-racemic ratio of amisulpride enantiomers. Sunovion discovered that the pharmacology of amisulpride is enantiomer-specific, and that increasing the ratio of R-amisulpride to S-amisulpride increases the potency for serotonin 5-HT₇ receptors relative to dopamine D₂ receptors. SEP-4199 was designed with an 85:15 ratio of R-amisulpride to S-amisulpride to increase levels of serotonin 5-HT₇ activity intended to enhance antidepressant efficacy and produce reduced levels of D₂ receptor occupancy appropriate for the treatment of bipolar depression.
- Development stage: (Co-development with Otsuka Pharmaceutical Co., Ltd.)

 Bipolar I depression: Phase 3 in the U.S. and Japan

EPI-589

Origin: PTC Therapeutics, Inc.

(Acquired from BioElectron Technology Corporation), 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.

Amyotrophic lateral sclerosis (ALS): Phase 2 in the U.S.

Amyotrophic lateral sclerosis (ALS): Phase 2 (Investigator-initiated study*) in Japan

* Sponsor: Tokushima University

DSP-6745

Origin: 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-378608

Origin: in-house (Joint research with Sunovion Pharmaceuticals Inc.

and PsychoGenics Inc.), Formulation: oral

 SEP-378608 is a novel CNS-active molecule. Sunovion discovered SEP-378608 in collaboration with PsychoGenics using its in vivo phenotypic SmartCube[®] platform and associated artificial intelligence algorithms. 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

Origin: 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

Origin: in-house (Joint research with Sunovion Pharmaceuticals Inc.

and PsychoGenics Inc.), Formulation: oral

- SEP-378614 is a novel CNS-active molecule. Sunovion discovered SEP-378614 in collaboration with PsychoGenics using its in vivo phenotypic SmartCube[®] platform and associated artificial intelligence algorithms. Pre-clinical studies suggest that it may have rapid onset and long lasting antidepressant-like activity and enhance neuroplasticity.
- Development stage: Phase 1 in the U.S. (Co-development with Otsuka Pharmaceutical Co., Ltd.)

SEP-380135

Origin:in-house (Joint research with Sunovion Pharmaceuticals Inc.

and PsychoGenics Inc.), Formulation: oral

- SEP-380135 is a novel CNS-active molecule. Sunovion discovered SEP-380135 in collaboration with PsychoGenics using its in vivo phenotypic SmartCube[®] platform and associated artificial intelligence algorithms. Pre-clinical studies 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: Phase 1 in the U.S. (Co-development with Otsuka Pharmaceutical Co., Ltd.)

DSP-0038

Origin: in-house (Joint research with Exscientia Ltd.), Formulation: oral

- DSP-0038 is a novel compound discovered at Sumitomo Dainippon Pharma using Exscientia's AI technologies. DSP-0038 is a serotonin 5-HT_{2A} receptor antagonist and a serotonin 5-HT_{1A} receptor agonist. DSP-0038 is expected to demonstrate a greater antipsychotic effect, based on the additive effect of 5-HT_{2A} receptor antagonist and 5-HT_{1A} receptor agonist. The compound could also have a broader efficacy in the treatment of behavioral and psychological symptoms of dementia (BPSD) which include agitation, aggression, anxiety, and depression. Furthermore, DSP-0038 has negligible affinity for dopamine D₂ receptors, and therefore it can be expected to show improved safety and tolerability compared to existing antipsychotic.
- Development stage: Alzheimer's disease psychosis: Phase 1 in the U.S.

DSP-9632P

Origin: in-house, Formulation: patch

- DSP-9632P is a serotonin 5-HT_{1A} receptor partial agonist. It is expected to exert an effect on dyskinesia expressed after administration of levodopa by suppressing the excessive release of levodopa-derived dopamine. Pre-clinical studies suggest DSP-9632P suppresses the dyskinesia symptom induced by levodopa. The transdermal patch formulation of DSP-9632P could potentially have an effective treatment option for levodopa-induced dyskinesia in Parkinson's disease by showing stable blood concentration, and may also lead to improved convenience for patients in terms of drug administration.
- Development stage: Levodopa-induced dyskinesia in Parkinson's disease: Phase 1 in Japan

DSP-0187

Origin: in-house, Formulation: oral

- DSP-0187 is an orexin 2 receptor agonist. It is expected to improve excessive daytime sleepiness

(EDS) and cataplexy of narcolepsy caused by orexin deficiency. DSP-0187 is also expected to demonstrate an efficacy for EDS other than narcolepsy.

Development stage: Narcolepsy: Phase 1 in Japan

2. Oncology

adegramotide/nelatimotide (DSP-7888)

Origin: in-house, Formulation: injection

- DSP-7888 is an immunotherapeutic cancer peptide vaccine targeting 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: Solid tumors: Phase 1/2 in the U.S.

dubermatinib (TP-0903)

Origin: University of Utah, Formulation: oral

- Dubermatinib (TP-0903) is an inhibitor of multikinase including AXL receptor tyrosine kinase inhibitor, which is known to be involved in acquiring resistance to conventional agents and developing metastatic capacity in cancer cells. Dubermatinib may have anti-cancer activities on various cancer types through blocking transition from epithelial to mesenchymal phenotype by inhibiting AXL. Dubermatinib has been shown to inhibit AXL signaling and reverse the mesenchymal to epithelial phenotype in preclinical studies.
- Development stage: Acute Myeloid Leukemia: Phase 1/2 (Research group-initiated study*) in the U.S.
 * One arm in the Beat AML study led by the U.S. non-profit organization LLS (The Leukemia & Lymphoma Society)

guretolimod (DSP-0509)

Origin: in-house, Formulation: injection

- Guretolimod (DSP-0509) is a novel Toll-like receptor (TLR) 7 agonist. Guretolimod may promote the
 cytokine induction and cytotoxic T lymphocyte (CTL) activation mediated by agonistic effect of TLR 7
 expressing in plasmacytoid dendritic cell. Furthermore, guretolimod is expected to sustain the immunemediated anti-cancer activity by induction of immune system memory T cells.
- Development stage: Solid tumors: Phase 1/2 in the U.S.

itacnosertib (TP-0184) Origin: in-house (former Tolero Pharmaceuticals, Inc.), Formulation: oral

- Itacnosertib (TP-0184) has an inhibitory effect against kinase such as ALK2 and ALK5, part of the
 transforming growth factor beta (TGFβ) receptor superfamily. In myelodysplastic syndromes, the
 ALK5 pathway is activated and caused abnormal erythroid differentiation. Itacnosertib is expected to
 show anti-cancer activities through the kinase inhibitory effect decrease hepcidin expression, increase
 bioavailable iron, and restore normal levels of hemoglobin.
- Development stage:
 - Anemia associated with myelodysplastic syndromes: Phase 1/2 in the U.S.

DSP-5336 Origin: in-house (Joint research with Kyoto University), Formulation: oral

- DSP-5336 is a small molecule inhibitor against the binding of menin and mixed-lineage leukemia (MLL) protein. Acute leukemia with MLL rearrangements or nucleophosmin 1 (NPM1) mutations rely on the menin-MLL interaction for upregulation of genes instrumental to leukemogenesis. DSP-5336 has been shown to have anti-cancer activity through downregulation of the genes by inhibition of menin-MLL interaction in pre-clinical studies.
- Development stage: Hematologic malignancies: Phase 1/2 in the U.S. and Japan

- TP-1287 is a small molecule oral agent that inhibits cyclin-dependent kinase 9 (CDK9). TP-1287 has shown favorable oral bioavailability in pre-clinical 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: Phase 1 in the U.S.

TP-3654 Origin: in-house (former 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:

Myelofibrosis: Phase 1 in the U.S. and Japan

TP-1454 Origin: in-house (former Tolero Pharmaceuticals, Inc.), Formulation: oral

- TP-1454 inhibits tumor growth through activation of PKM2 (pyruvate kinase M2) which lead to the inhibition of tumor cell proliferation and enhances antitumor immune response in tumor microenvironment. TP-1454 induces the activity of PKM2 through tetramerization of the enzyme which mainly exists in enzymatically less active dimer state in cancer cells. Tetramerization of PKM2 lead to the reduction of aerobic glycolysis in cancer cells and revert the immunosuppressive microenvironment. TP-1454 is expected to show synergistic effect with immune checkpoint inhibitor.
- Development stage:

Solid tumors: Phase 1 in the U.S.

DSP-0390

Origin: in-house, Formulation: oral

- DSP-0390 is an inhibitor of Emopamil Binding Protein (EBP), which is one of cholesterol biosynthetic enzymes. EBP is an endoplastic reticulam membrane protein involved in cholesterol biosynthesis. When functional, EBP mediates de novo cholesterol synthesis for cell membrane structure and signaling, enabling aberrant growth of tumors. Inhibition of EBP causes an efficient cellular cholesterol depletion and it is expected to show anti-cancer activities.
- Development stage: Solid tumors: Phase 1 in the U.S. and Japan

3. Regenerative medicine / cell therapy

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 (induced pluripotent stem) 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 study, Sponser: Kyoto University Hospital)
HLCR011	RIKEN, Healios	Age-related macular degeneration (AMD)	Japan	Preparing for start of clinical study

4. Others

relugolix

Origin: Takeda Pharmaceutical Company Ltd, Formulation: oral

- Relugolix is a once-daily, oral gonadotropin-releasing hormone (GnRH) receptor antagonist that reduces testicular testosterone production, the hormone primarily responsible for stimulating prostate cancer, and ovarian estradiol production, hormones known to stimulate the growth of uterine fibroids and endometriosis. Myovant received approval in the U.S. in December 2020 for a relugolix single agent tablet (120 mg) for men with advanced prostate cancer and in May 2021 for a distinct product, a relugolix combination tablet (relugolix 40 mg plus estradiol 1.0 mg and norethindrone acetate 0.5 mg) for uterine fibroids. Myovant submitted sNDA for the relugolix combination tablet in the U.S. for endometriosis.
- Development stage:

Prostate cancer: MAA submitted in Europe in March 2021

(New indication) Endometriosis: sNDA submitted in the U.S. in July 2021

GEMTESA® (vibegron)

Origin: Merck Sharp & Dohme Corp., Formulation: oral

- Vibegron is an oral, once-daily, small molecule β3 adrenergic receptor agonist. Vibegron selectively
 acts on the β3 adrenergic receptor in the bladder that relax the bladder, enhance urinary storage, and
 improve symptoms of urgency, urinary frequency, and urge urinary incontinence in patients with
 overactive bladder. Urovant has received approval for overactive bladder in the U.S in December 2020.
- Development stage: (New indication) Overactive bladder in men with BPH: Phase 3 in the U.S.

<u>lefamulin</u> Origin: Nabriva Therapeutics plc, Formulation: oral, injection

- Lefamulin is an antimicrobial agent of pleuromutilin class and a novel treatment for infectious diseases with a mechanism of action that differs from existing antibiotics. Lefamulin is designed to inhibit the synthesis of bacterial protein, which is required for bacteria to grow. Lefamulin's binding occurs with high affinity, high specificity and at molecular sites that are distinct from other antibiotic classes. Lefamulin has been marketed by Nabriva Therapeutics in the U.S. since 2019.
- Development stage:
 Bacterial community-acquired pneumonia: NDA submitted in China in October 2021

rodatristat ethyl

Origin: Karos Pharmaceuticals, Inc., Formulation: oral

- Rodatristat ethyl is a prodrug of tryptophan hydroxylase (TPH) inhibitor designed to reduce peripheral
 production of serotonin without entering the brain. It is believed that rodatristat ethyl may halt or
 reverse the pathology of diseases that are driven by excessive serotonin production, such as PAH,
 idiopathic pulmonary fibrosis (IPF) and sarcoidosis.
- Development stage: Pulmonary arterial hypertension (PAH): Phase 2 in the U.S.

MVT-602

Origin: Takeda Pharmaceutical Company Ltd, Formulation: oral

- MVT-602 is an oligopeptide kisspeptin-1 receptor agonist. Activation of kisspeptin in upstream hypothalamic neurons is hypothesized to lead to the transmission of a signal that stimulates downstream neurons to increase the secretion of GnRH. However continued stimulation of kisspeptin is thought to result in the desensitization of receptor transduction, which is anticipated to result in a complete cessation of the signaling pathway. Myovant is developing MVT-602 as part of the hormonal preparation for women with infertility undergoing in vitro fertilization. MVT-602 is believed to stimulate GnRH which in turn increases secretion of luteinizing hormone (LH) that acts as a trigger for egg maturation prior to oocyte collection.
- Development stage: Female infertility: Phase 2 in Germany

URO-902

- URO-902 is a novel gene therapy for patients with overactive bladder symptoms who have failed oral
 pharmacologic therapy. URO-902 is a plasmid vector containing a human cDNA encoding the poreforming component of the Maxi-K ion channel. Expression of the Maxi-K protein in muscle cells is
 hypothesized to increase potassium ion flow across the cell membrane, reducing excitability of smooth
 muscle cells. This mechanism could potentially normalize the heightened detrusor smooth muscle tone
 in overactive bladder, thereby reducing the related symptoms.
- Development stage: Overactive bladder: Phase 2 in the U.S.

KSP-1007 Origin: in-house (Joint research with The Kitasato Institute), Formulation: injection

- KSP-1007 can broadly and strongly inhibit β-lactamases, enzymes produced by bacteria that can
 degrade carbapenem antibiotics. KSP-1007 is expected to become an effective treatment option
 against carbapenem-resistant bacterial infections in a combination drug with meropenem hydrate, a
 carbapenem antibiotic in general use worldwide (name of Sumitomo Dainippon Pharma's product for
 the domestic market: MEROPEN®).
- Development stage: Complicated urinary tract infections and Complicated intra-abdominal infections:
 Phase 1 in the U.S.

X. Development Status of Major Programs in Frontier Business (As of January 31, 2022)

 Through collaborations with academia and startup companies, we work for the research and development of new non-pharmaceutical healthcare solutions by utilizing digital technologies focusing on "mental resilience" (detect signs of mental disease and prevent deterioration) and "active aging" (improve, maintain, and enhance the health of the elderly by enhancing their awareness). Development status of major programs is as follows.

Area	Program	Summary	Development status	Partnering
Psychiartry Neurology	Digital devices for relieving BPSD	Tailor-made contents for stimulating five senses that digitally realize non-pharmacotherapy	Japan In trial sale (non-medical device)	Aikomi Ltd., Sompo Japan Insurance Inc.
	VR contents for social ansxiety disorder (SAV-985)	Homecare tool developed by reproducing cognitive behavioral therapy with VR contents which are complimentary to the conventional treatment	U.S. Product development (non-medical device)	BehaVR, Inc.
	Wearable EEG meter	Service for early detection of mental diseases by daily capture of the EEG profile with simple wearable EEG meter	Japan Product development (medical device)	NeuroSky Co., Ltd
Motor dysfunction	Neurorehabilitation device for hand/fingers	Robotic neurorehabilitation device utilizing motion intention of patients with post-stroke hand/fingers paralysis from electromyogram for the patients	Japan Product development (medical device)	MELTIN
Lifestyle- related disease	Automated blood collection/stabilization device	Blood collection device designed for low pain, long-term storage, and simple transportation for the self- management tool of lifestyle-related disease	Japan Product development (medical device)	Drawbridge Health, Inc.