Supplementary Financial Data (IFRS) for the Second Quarter of the Year Ending March 31, 2023

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October 31, 2022

Sumitomo Pharma Co., Ltd.

- This material contains forecasts, projections, goals, 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, forecasts, 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 beneficially owns approximately 52% of the outstanding shares of Myovant. ORGOVYX[®] (relugolix), MYFEMBREE[®]/RYEQO[®] (relugolix combination tablet) are owned by 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)

	Q2 FY2021	Q2 FY2022	Change % YoY	FY2021	FY2022 (Forecast)	Change % YoY
Revenue	293.7	319.3	8.7	560.0	[550.0] 604.0	7.9
Cost of sales *1	76.9	92.8	20.8	157.1	[164.5] 182.0	15.8
Gross profit	216.9	226.4	4.4	402.9	[385.5] 422.0	4.7
SG&A expenses *1	124.4	152.3	22.3	251.6	[283.5] 312.0	24.0
R&D expenses *1	45.7	49.4	8.0	94.0	[93.0] 100.0	6.4
Other operating income/expenses *2	1.2	0.0		1.2	[21.0] 22.0	
Core operating profit	47.9	24.8	(48.2)	58.5	[30.0] 32.0	(45.3)
Changes in fair value of contingent consideration (negative number indicates loss)	(0.1)	1.3		3.3	[(0.5)] 1.0	
Other non-recurring items *3 (negative number indicates loss)	(0.2)	(55.0)		(1.6)	[(5.5)] (63.0)	
Operating profit	47.6	(28.9)	_	60.2	[24.0] (30.0)	_
Net profit	30.0	(15.2)	_	40.6	N/A	
Net profit attributable to owners of the parent	36.5	(7.3)	_	56.4	[22.0] (15.0)	_
Basic earnings per share (yen)	91.75	(18.33)		141.99	(37.76)	
Net profit/ Equity attributable to owners of the parent (ROE)	6.3%	(1.2%)		9.5%	(2.4%)	

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)

,	Q2 FY2021	Q2 FY2022	Change % YoY
Revenue	293.7	319.3	8.7
Cost of sales	76.9	92.8	20.8
Gross profit	216.9	226.4	4.4
SG&A expenses	124.7	207.9	66.8
R&D expenses	45.7	50.0	9.4
Other operating income/expenses	1.1	2.5	
Operating profit (loss)	47.6	(28.9)	_
Finance income/costs	1.7	49.9	
Profit before taxes	49.3	21.0	(57.3)
Income tax expenses	19.3	36.3	
Net profit (loss)	30.0	(15.2)	_
Net profit (loss) attributable to owners of the parent	36.5	(7.3)	_

*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

 *3 Non-recurring items
 ("other operating income
 and expenses" except for

 *2 items, impairment loss,
 etc.)

3. Consolidated Statement of Cash Flows	Q2 FY2021	Q2 FY2022	(Billions of yen)
Net cash provided by (used in) operating activities	(28.2)	29.5	-
Net cash provided by (used in) investing activities	3.6	7.1	-
Net cash provided by (used in) financing activities	(13.2)	(26.7)	-
Cash and cash equivalents at the end of period	156.5	250.6	-

4. Foreign Exchange Rates	FY2021 AprSep.		FY2022 A	FY2022 AprSep.		Y2022 sumption Forex sensitivity FY2022 (Impact of yen depreciation by ¥1)	
	Period end rate	Average rate	Period end rate	Average rate	Average rate	Revenue	Core operating profit
Yen / USD	112.0	109.8	144.8	134.1	140.0	2.8	(0.3)
Yen / RMB	17.3	17.0	20.4	19.9	20.0	1.9	0.2
							(D:II:

(Billions of yen)

5. Capital Expenditures/ Depreciation and Amortization	Q2 FY2021	Q2 FY2022	Change	FY2022 (Forecast)		Change	(Billions of yen)
Capital expenditures	5.7	4.9	(8.0)	[15.9]	16.5	3.8	-
Depreciation of Property, plant and equipment	5.6	6.8	1.1	[10.7]	10.9	(0.6)	_
Amortization of Intangible assets	12.5	15.6	3.1	[29.3]	30.3	3.4	-
Related to products (patent rights/ marketing rights) included in above	11.2	14.2	3.0	[26.2]	27.1	2.9	

Notes: 1: The amount of capital expenditures are for tangible fixed assets and software.

Major capital expenditure project in FY2022

(Continued) Reinforcement of production facilities, total budget ¥1.1billion, to be completed in FY2022

Relocation of Tokyo Head Office ¥1.6billion, to be completed in FY2022

Establishment of manufacturing facility for regenerative medicine and cell therapy (USA), total budget \$34million, to be completed in FY2023

^{2:} The forecasts have been revised. Figures in parentheses [] are previous forecasts. Change is calculated by using revised forecasts.

II. Consolidated Statement of Profit or Loss

1. Consolidated Statement of Pro	fit or Loss (Core Basis)	(Billions of y	ren)
	Q2	Q2	Change	Change %	
Revenue	FY2021 293.7	FY2022 319.3	25.6	8.7	¥billion Change FX rate ← Japan (10.0)
Overseas revenue	197.9	231.2	33.2	16.8	North America 20.5 35.3 China 5.9 3.5
% of Revenue	67.4%	72.4%			Other Regions 6.7
Cost of sales	76.9	92.8	16.0	20.8	
% of Revenue	26.2%	29.1%			
Gross profit	216.9	226.4	9.6	4.4	
SG&A expenses	124.4	152.3	27.8	22.3	✓ Include Sumitovant +20.9
Labor costs	56.8	66.2	9.4	16.6	
Advertising and promotion costs	9.0	10.7	1.7	19.4	
Sales promotion costs	8.6	20.8	12.2	141.1	
Amortization/Depreciation	14.8	18.3	3.5	23.8	
Others	35.3	36.2	1.0	2.8	
R&D expenses	45.7	49.4	3.7	8.0	
% of Revenue	15.6%	15.5%			
Other operating income/expenses	1.2	0.0	(1.2)		
Core operating profit	47.9	24.8	(23.1)	(48.2)	
Changes in fair value of contingent consideration *	(0.1)	1.3	1.4		•
Other non-recurring items *	(0.2)	(55.0)	(54.8)		✓ Impairment loss (54.4)
Operating profit (loss)	47.6	(28.9)	(76.5)	_	. ,
Finance income	3.2	51.7	48.5		
Finance costs	1.5	1.7	0.2		
Profit before taxes	49.3	21.0	(28.2)	(57.3)	
Income tax expenses	19.3	36.3	17.0		
Net profit (loss)	30.0	(15.2)	(45.2)	_	
Net profit (loss) attributable to owners of the parent	36.5	(7.3)	(43.7)	_	

^{*} Negative number indicates loss.

owners of the parent

2. Adjustments to Core Operating Profit

(Billions of yen) Q2 FY2022 Results Full Basis **Core Basis** Adjustment Major adjustment items 319.3 Revenue 319.3 Cost of sales 92.8 92.8 226.4 226.4 **Gross profit** SG&A expenses 207.9 152.3 (55.7) KYNMOBI® impairment loss (54.4) R&D expenses 50.0 49.4 (0.6)3.2 (3.2)Other operating income 0.0 0.6 Other operating expenses (0.6)Operating profit (loss) (28.9)24.8 53.8

III. Segment Information (Core Basis)

(Billions of yen)

		Pharma	Other				
Q2 FY2022 Results	Japan	North America	China	Other Regions	Subtotal	Business	Total
Revenue (Sales to customers)	66.6	195.3	24.0	11.3	297.2	22.1	319.3
Cost of sales	36.2	31.2	5.3	3.0	75.6	17.3	92.8
Gross profit	30.4	164.2	18.7	8.3	221.6	4.8	226.4
SG&A expenses	26.1	116.9	5.6	0.8	149.3	2.9	152.3
Core segment profit	4.4	47.3	13.2	7.5	72.3	1.9	74.2
R&D expenses *1					48.4	1.0	49.4
Other operating income/expenses (Core basis)*2					(0.0)	0.0	0.0
Core operating profit					23.9	0.9	24.8

(Billions of yen)

		Pharma	Other				
Q2 FY2021 Results	Japan	North America	China	Other Regions	Subtotal	Business	Total
Revenue (Sales to customers)	76.6	174.9	18.1	4.6	274.2	19.6	293.7
Cost of sales	41.3	15.2	3.1	2.2	61.8	15.1	76.9
Gross profit	35.3	159.6	15.0	2.4	212.4	4.5	216.9
SG&A expenses	25.5	89.4	5.4	1.5	121.9	2.6	124.4
Core segment profit	9.8	70.2	9.6	0.9	90.5	1.9	92.4
R&D expenses *1					45.3	0.4	45.7
Other operating income/expenses (Core basis)*2					1.2	0.0	1.2
Core operating profit	·				46.4	1.5	47.9

(Billions of yen)

		Pharma	Other				
FY2022 Forecasts	Japan	North America	China	Other Regions	Subtotal	Business	Total
Revenue (Sales to customers)	125.8	382.3	37.2	17.0	562.3	41.7	604.0
Cost of sales	66.1	69.9	7.9	5.6	149.5	32.5	182.0
Gross profit	59.7	312.4	29.3	11.4	412.8	9.2	422.0
SG&A expenses	53.0	239.0	11.9	1.9	305.8	6.2	312.0
Core segment profit	6.7	73.4	17.4	9.5	107.0	3.0	110.0
R&D expenses *1					97.4	2.6	100.0
Other operating income/expenses (Core basis)*2					22.0	-	22.0
Core operating profit					31.6	0.4	32.0

^{*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	Q2 FY2021	Q2 FY2022	Change	Change %	FY20 (Fore		Progress %
Japan	76.6	66.6	(10.0)	(13.1)	[130.0]	125.8	51.2
North America	174.9	195.3	20.5	11.7	[334.3]	382.3	58.4
China	18.1	24.0	5.9	32.5	[27.6]	37.2	87.1
Other Regions	4.6	11.3	6.7	146.2	[16.1]	17.0	70.0

Note: The forecasts have been revised. Figures in parentheses [] are previous forecasts.

Progress rate is against previous forecast.

2. Sales of Major Products (1)

(Invoice price basis, Billions of yen)

Brand name Therapeutic indication	Q2 FY2021	Q2 FY2022	Change	Change %	FY20 (Forec		Progress %
Japan							
Promoted products							
Equa®/EquMet® Therapeutic agent for type 2 diabetes (Nov. 2019~)	19.3	17.3	(2.0)	(10.3)		34.9	49.5
Trulicity _® * Therapeutic agent for type 2 diabetes	17.2	16.7	(0.5)	(3.1)	[31.0]	23.8	53.7
TRERIEF® Therapeutic agent for Parkinson's disease	8.4	8.6	0.2	1.9	[17.3]	17.0	49.6
LATUDA® Atypical antipsychotic (Jun. 2020~)	3.0	4.6	1.6	54.3		9.9	46.9
METGLUCO® Therapeutic agent for type 2 diabetes	4.1	4.0	(0.2)	(4.5)		7.8	50.7
LONASEN® Tape Atypical antipsychotic (Sep. 2019~)	1.0	1.4	0.4	45.6		2.7	51.5
TWYMEEG ® Therapeutic agent for type 2 diabetes (Sep. 2021~)	0.1	0.5	0.4	521.1		1.5	33.8
Other products							
Authorized Generics	4.8	4.6	(0.2)	(3.9)		9.7	47.7

^{*} Trulicity $_{\scriptsize{\scriptsize{\scriptsize{\scriptsize{\$}}}}}$ 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)

(Billions of yen)

Brand name Therapeutic indication	Q2 FY2021	Q2 FY2022	Change	Change %	FY20 (Fored	022	Progress
North America							
LATUDA[®] Atypical antipsychotic	101.0	127.6	26.6	26.3	[215.8]	241.6	59.1
APTIOM [®] Antiepileptic	13.6	17.4	3.7	27.4	[31.8]	35.7	54.6
RETHYMIC [®] Pediatric congenital athymia	_	2.6	2.6	_	[6.0]	6.4	42.7
BROVANA® Therapeutic agent for COPD	9.1	2.8	(6.3)	(69.0)	[3.2]	3.4	88.0
KYNMOBI® OFF episodes associated with Parkinson's disease (Sep. 2020~)	0.3	0.2	(0.1)	(29.2)	[2.3]	0.4	10.4
ORGOVYX® Therapeutic agent for advanced prostate cancer (Jan. 2021~) MYFEMBREE®	3.2	10.6	7.4	232.4		N/A	_
Therapeutic agent for uterine fibroids and endometriosis (Jun. 2021~/Aug.2022~)	0.2	1.4	1.2	643.4		N/A	_
GEMTESA [®] Therapeutic agent for overactive bladder (Apr. 2021∼)	2.1	9.5	7.3	344.9		N/A	_
China							_
MEROPEN® Carbapenem antibiotic	14.4	18.7	4.3	29.8	[16.8]	25.8	111.6
Other Regions							
MEROPEN® Carbapenem antibiotic	2.6	3.6	1.0	39.0	[6.1]	7.0	59.4
(Ref.) Products sales in North	America (ba	sed on loca	al currency	y)		(Million	s of dollar)
Brand name	Q2 FY2021	Q2 FY2022	Change	Change %	FY20 (Fored		Progress %
LATUDA [®]	920	952	32	3.5		1,726	55.1
APTIOM [®]	124	129	5	4.4		255	50.8
RETHYMIC [®]	_	19	19	_	[48]	46	39.8
BROVANA [®]	83	21	(62)	(74.6)	[26]	24	80.8
KYNMOBI [®]	3	2	(1)	(41.9)	[18]	3	10.0
ORGOVYX [®]	29	79	50	172.3		N/A	
MYFEMBREE®	3	10	7	199.2		N/A	
GEMTESA [®]	19	71	51	264.4		N/A	

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

	(Billions of yen)			
	Mar. 31 2022	Sep. 30 2022	Change	
Assets	1,308.0	1,408.0	99.9	
Non-current assets	808.5	825.1	16.6	
Property, plant and equipment	64.1	62.7	(1.4)	
Goodwill	195.1	230.9	35.7	
Intangible assets	398.7	394.9	(3.8)	
Patent rights/Marketing rights	361.6	353.4	(8.2)	
In-process R&D	29.8	34.4	4.6	
Others	7.3	7.2	(0.2)	
Other financial assets	115.8	104.9	(11.0)	
Other non-current assets	12.1	11.8	(0.3)	
Deferred tax assets	22.7	19.9	(2.7)	
Current assets	499.5	582.9	83.4	
Inventories	99.0	109.9	10.9	
Trade and other receivables	151.4	181.2	29.8	
Other financial assets	35.6	25.5	(10.1)	
Other current assets	10.5	15.8	5.3	
Cash and cash equivalents	203.0	250.6	47.6	
Liabilities	634.4	689.3	54.9	
Non-current liabilities	356.1	368.2	12.1	
Bonds and borrowings	244.0	244.0	0.1	
Other financial liabilities	16.5	15.0	(1.5)	
Retirement benefit liabilities	11.5	11.5	0.1	
Other non-current liabilities	57.6	66.1	8.5	
Deferred tax liabilities	26.6	31.5	4.9	
Current liabilities	278.4	321.1	42.8	
Borrowings	25.1	5.7	(19.4)	
Trade and other payables	46.2	57.5	11.4	
Other financial liabilities	13.3	13.4	0.1	
Income taxes payable	7.6	26.9	19.3	
Provisions	119.1	149.8	30.6	
Other current liabilities	67.1	67.9	0.9	
Equity	673.6	718.6	45.0	
Share capital	22.4	22.4	_	
Capital surplus	16.7	17.7	1.0	
Treasury shares	(0.7)	(0.7)	(0.0)	
Retained earnings	514.2	500.6	(13.6)	
Other components of equity	55.2	106.1	50.9	
Equity attributable to owners of the parent	607.9	646.1	38.3	
Non-controlling interests	65.7	72.5	6.8	

Goodwill	22/3	22/9
Other than oncology(SMPO)	168.3	199.2
Oncology(SMPO)	26.8	31.7
Major patent rights	22/3	22/9
KYNMOBI [®] (apomorphine)	51.5	-
ORGOVYX® (relugolix)	64.7	74.1
MYFEMBREE® (relugolix)	139.6	159.8
GEMTESA® (vibegron)	93.9	106.9
Major IPR&D	22/3	22/9
former Tolero products	18.6	22.0

Mainly due to decrease in Short-term loan receivable

Total bonds and borrowings 269.0 → 249.7

Contingent consideration liabilities 22/3 22/9 former Tolero 4.4 3.8 Included in "Other financial liabilities (Non-current/Current)"

VI. Changes in Quarterly Results

(Billions of yen)

Core Basis	FY2021				FY2022	
Core basis	Q1	Q2	Q3	Q4	Q1	Q2
Revenue	131.2	162.5	138.3	128.0	159.9	159.4
Cost of sales	38.5	38.4	41.0	39.3	46.1	46.8
Gross profit	92.7	124.2	97.4	88.7	113.8	112.6
SG&A expenses	62.0	62.5	64.2	62.9	76.0	76.2
R&D expenses	22.4	23.3	22.1	26.2	24.4	25.0
Other operating income/expenses	0.2	1.0	(0.0)	0.0	0.0	(0.0)
Core operating profit	8.5	39.4	11.0	(0.4)	13.4	11.5
Changes in fair value of contingent consideration (negative number indicates loss)	(0.1)	(0.1)	(0.1)	3.5	(0.1)	1.4
Other non-recurring items (negative number indicates loss)	(0.1)	(0.1)	(0.3)	(1.1)	1.3	(56.3)
Operating profit (loss)	8.3	39.3	10.7	2.0	14.6	(43.5)
Net profit (loss)	8.0	29.2	5.2	5.4	28.1	(43.3)
Net profit (loss) attributable to owners of the parent	4.8	31.6	9.9	10.1	31.1	(38.4)

VII. Major Consolidated Subsidiaries (As of September 30, 2022)

Domestic	Establish- ment	Ownership	Number of employees	Businesses
Sumitomo Pharma Food & Chemical Co., Ltd.	1947/10	100%	206	Manufacturing and sales of food ingredients, food additives, chemical product materials, etc.
Sumitomo Pharma Animal Health Co., Ltd.	2010/7	100%	102	Manufacturing and sales of veterinary medicines, etc.
Sumitomo Pharma Promo Co., Ltd.	1998/ 6	100%	33	Manufacturing and sales of pharmaceuticals, etc.
Overseas	Establish- ment	Ownership	Number of employees	Businesses
Sumitomo Pharma America Holdings, Inc.	2009/7	100%	242	Holding company, shared services for general management operations
Sunovion Pharmaceuticals Inc.	1984/ 1	100%	*1,020	Manufacturing and sales of pharmaceuticals
Sumitomo Pharma Oncology, Inc.	2006/11	100%	154	R&D in the oncology area
Sumitovant Biopharma, Inc.	2019/10	100%	119	Management of Sumitovant group companies, and formulation and promotion of business strategies, etc.
Myovant Sciences Ltd.	2016/ 2	52%	*587	Manufacturing and sales of pharmaceuticals in the women's health, prostate cancer area
Urovant Sciences Ltd.	2016/ 1	100%	*317	Manufacturing and sales of pharmaceuticals in the urology area
Enzyvant Therapeutics Ltd.	2016/ 1	100%	*33	Manufacturing and sales of pharmaceuticals in the pediatric rare diseases area
Altavant Sciences Ltd.	2017/9	100%	*25	R&D in the respiratory rare diseases area
Spirovant Sciences, Inc.	2019/ 2	100%	*44	R&D in the cystic fibrosis gene therapy area
Sumitomo Pharma (Suzhou) Co., Ltd.	2003/12	100%	718	Manufacturing and sales of pharmaceuticals

* Include employees of consolidated subsidiaries

(Reference) Number of employees and MRs

	March 31	, 2021	March 31	, 2022	Sep. 30,	2022
consolidated / non-consolidated	6,822	3,067	6,987	3,040	6,911	3,081
MRs (include number of contracted	MRs)					·
Japan Exclude managers/Total	1,150	1,270	1,110	1,220	1,050	1,150
U.S. Exclude managers/Total	720	840	820	950	750	870
China Exclude managers/Total	340	410	340	420	320	400

VIII. Shareholder Positioning (As of September 30, 2022)

1. Total number of authorized shares: 1,500,000,000

2. Total number of shares outstanding: 397,900,154 (Including number of treasury stock 607,859)

3. Number of shareholders by category:

	Number of shareholders	Number of shares (Thousands)	Percentage of total (%)
Financial institutions	36	86,851	21.83
Securities companies	48	7,361	1.85
Other Japanese corporations	329	225,941	56.78
Corporations outside Japan, etc.	476	47,600	11.96
Individuals and others (Including treasury stock)	32,530	30,145	7.58
Total	33,419	397,900	100

Note: The numbers of shares are rounded down to the nearest thousand shares.

4. Major shareholders:

Shareholders	Number of shares held (Thousands)	Percentage of shareholding(%)
Sumitomo Chemical Co., Ltd.	205,634	51.76
The Master Trust Bank of Japan, Ltd. (Trust account)	39,792	10.02
Custody Bank of Japan, Ltd. (Trust account)	13,552	3.41
Inabata & Co., Ltd.	11,965	3.01
Nippon Life Insurance Company	7,581	1.91
SMBC Trust Bank Ltd. (Trust account for Sumitomo Mitsui Banking Corporation's retirement benefits)	7,000	1.76
Sumitomo Life Insurance Company	5,776	1.45
JPMorgan Securities Japan Co., Ltd.	3,365	0.85
Sumitomo Pharma Employee shareholders' association	3,010	0.76
Aioi Nissay Dowa Insurance Co.,Ltd.	2,661	0.67

Notes: 1: Percentage of shareholding is calculated excluding treasury stock (607,859 stocks*).

^{*}Exclude 1,000 stocks under name of the Company which are not owned by the Company substancially

^{2:} The numbers of shares held are rounded down to the nearest thousand shares.

IX. Development Pipeline (As of October 31, 2022)

- This table shows clinical studies on indications for which the Sumitomo 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

1. Psychiatry & Ne	surology		
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)
	Adjunctive major depressive disorder (aMDD)	U.S.	Phase 2/3
	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)
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
DSP-3456	Treatment resistant depression	U.S.	Phase 1
DSP-0378	Dravet syndrome, Lennox-Gastaut syndrome	Japan	Phase 1

2. Oncology

Brand name/ Product code (Generic name)	Proposed indication	Region	Development stage
DSP-0509	Solid tumors	U.S., Japan	Phase 1/2
(guretolimod)			
DSP-5336	Acute leukemia	U.S., Japan	Phase 1/2
TP-1287	Solid tumors	U.S.	Phase 1
TP-3654	Myelofibrosis	U.S., Japan	Phase 1/2
TP-1454	Solid tumors	U.S.	Phase 1

DSP-0390 Glioblastoma	U.S., Japan	Phase 1
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3. Regenerative medicine / cell therapy

Brand name/ Product code (Generic name)	Proposed indication	Region	Development stage
CT1-DAP001/ DSP-1083	Parkinson's disease	Japan	Phase 1/2 (Investigator-initiated
(Allo iPS (induced			study)
pluripotent stem)		U.S.	Preparing to start of
cell-derived			clinical study
dopamine neural progenitor)			
HLCR011	Age-related macular degeneration (AMD)	Japan	Preparing to start of
(Allo iPS cell-			clinical study
derived retinal pigment epithelium)			

4. Others

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

[Main revisions since the announcement of July 2022]

Brand name/ Product code (Generic name)	Proposed indication	Region	Development stage	Changes
MYFEMBREE® (relugolix)	(New indication) Endometriosis	U.S.	Approved in August 2022	Deleted from the table due to
METGLUCO® (metformin hydrochloride)	(New indication) "ovulation induction for patients with polycystic ovary syndrome" and "controlled ovarian stimulation in assisted reproductive technology for patients with polycystic ovary syndrome"	Japan	Approved in September 2022	approval

SEP-363856 (ulotaront)	Adjunctive major depressive disorder (aMDD)	U.S.	Phase 2/3	Newly added
DSP-0378	Dravet syndrome, Lennox- Gastaut syndrome	Japan	Phase 1	
DSP-6745	Parkinson's disease psychosis	U.S.	Phase 1	Deleted from the table due to discontinuation
DSP-7888 (adegramotide/ nelatimotide)	Solid tumors	U.S.	Phase 1/2	Deleted from the table due to discontinuation of
TP-0903 (dubermatinib)	Acute myeloid leukemia (AML)	U.S.	Phase 1/2 (Research group- initiated study)	the study, development strategy under consideration

X. Profiles of Major Products under Development (As of October 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 an acute exacerbation of schizophrenia support the efficacy of ulotaront in treating both positive and negative symptoms of schizophrenia, with a side effect profile similar to placebo. Notably, ulotaront was not associated with extrapyramidal symptoms, weight gain, changes in lipids or glucose, 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

Adjunctive major depressive disorder (aMDD): Phase 2/3 in the U.S.

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 discovered 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

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 antidepressant-like activity.
- Development stage: Phase 1 in the U.S. (Co-development with Otsuka Pharmaceutical Co., Ltd.)

<u>SEP-380135</u> 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 and depression.
- 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 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. Sumitomo Pharma granted Jazz Pharmaceuticals plc the exclusive development and commercialization rights in the territories, except for Japan, China, and certain other Asia/Pacific markets in April 2022.
- Development stage: Narcolepsy: Phase 1 in Japan

- DSP-3456 is a metabotropic glutamate receptor 2/3 negative allosteric modulator (mGluR2/3 NAM).
 DSP-3456 is expected to exhibit a ketamine-like antidepressant effect through selective activation of the prefrontal cortex by enhancing the glutamate release, while avoiding side effects (psychotic symptoms, cognitive dysfunction).
- Development stage: Treatment resistant depression: Phase 1 in the U.S.

DSP-0378

Origin: in-house, Formulation: oral

- DSP-0378 is a gamma-aminobutyric acid (GABA) A receptor positive allosteric modulator. It acts on various subtypes of GABA_A receptors expressed in synaptic and extrasynaptic regions in a manner different from common GABA_A receptor potentiators such as benzodiazepines and neurosteroids. It is expected to exhibit an antiepileptic effect against broad epilepsies including intractable rare diseases like Dravet syndrome and Lennox-Gastaut syndrome.
- Development stage: Dravet syndrome and Lennox-Gastaut syndrome: Phase 1 in Japan

2. Oncology

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. and Japan

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: Acute leukemia: Phase 1/2 in the U.S. and Japan

TP-1287 Origin: in-house (former 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 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 1/2 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 leads 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 leads to the reduction of aerobic glycolysis in cancer cells and reverts 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: Glioblastoma: 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	
CT1-DAP001/ DSP-1083	Kyoto University CiRA	Parkinson's disease	Japan	Phase 1/2 (Investigator-initiated study, Sponsor: Kyoto University Hospital) Preparing to start of clinical	
			U.S.	study	
HLCR011	RIKEN, Healios	Age-related macular degeneration (AMD)	Japan	Preparing to start of clinical study	

4. Others

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 relaxes the bladder, enhances urinary storage,
 and improves 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 Origin: Ion Channel Innovations, LLC., Formulation: injection

- 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 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.

XI. Development Status of Major Programs in Frontier Business (As of October 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
Psychiatry 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 mental health wellnesss	VR program for the self-management of mental health issues related to stress, worry and low mood. Users will set goals and objectives meaningful to them while they learn how to cope with negative situations encountered in their daily lives	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.
	Smart device for hard of hearing people	Develop smart devices that display multiple utterances as subtitles as a new communication support tool for hard of hearing people	Japan Product development (non-medical device)	Pixie Dust Technologies, Inc.
Motor dysfunction	Neurorehabilitation device for hand/fingers	Robotic neurorehabilitation device utilizing motion intention of patients with hand/fingers paralysis from electromyogram for the patients	Japan Product development (medical device)	MELTIN
Metabolic disease	Automated blood collection/stabilization device	Blood collection device designed for low pain, long-term storage, and simple transportation for the self-management tool such as diabetes	Japan Product development (medical device)	Drawbridge Health, Inc.