# Supplementary Financial Data (IFRS) for the Second Quarter of the Year Ending March 31, 2024

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#### October 31, 2023

## 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 disclosure 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.
- Information concerning pharmaceuticals and medical devices (including those under development) contained herein is not intended as advertising or as medical advice.
- 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 FY2022	Q2 FY2023	Change %	FY2022	FY2023 (Forecasts)	Change %
Revenue	319.3	152.6	(52.2)	555.5	362.0	(34.8)
Cost of sales *1	92.8	60.3	(35.0)	176.7	132.0	(25.3)
Gross profit	226.4	92.3	(59.2)	378.8	230.0	(39.3)
SG&A expenses *1	152.3	118.8	(22.0)	305.6	220.0	(28.0)
R&D expenses *1	49.4	45.3	(8.3)	106.1	84.0	(20.8)
Other operating income/expenses *2	0.0	5.9		49.2	12.0	
Core operating profit (loss)	24.8	(65.8)	_	16.4	(62.0)	_
Non-recurring items *3 (negative number indicates net loss)	(53.8)	(20.6)		(93.3)	(16.0)	
Operating profit (loss)	(28.9)	(86.5)		(77.0)	(78.0)	
Net profit (loss)	(15.2)	(67.7)	_	(96.7)	(80.0)	_
Net profit (loss) attributable to owners of the parent	(7.3)	(67.7)	_	(74.5)	(80.0)	_
Basic earnings per share (yen)	(18.33)	(170.51)		(187.55)	(201.36)	
Net profit/ Equity attributable to owners of the parent (ROE)				(14.7%)	(21.9%)	
Return on invested capital (ROIC)				(3.9%)	(8.5%)	

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

(Billions of yen)

	Q2 FY2022	Q2 FY2023	Change %
Revenue	319.3	152.6	(52.2)
Cost of sales	92.8	60.3	(35.0)
Gross profit	226.4	92.3	(59.2)
SG&A expenses	207.9	134.0	(35.5)
R&D expenses	50.0	50.4	8.0
Other operating income/expenses	2.5	5.6	
Operating profit (loss)	(28.9)	(86.5)	_
Finance income/costs	49.9	30.4	
Profit (loss) before taxes	21.0	(56.1)	_
Income tax expenses	36.3	11.6	
Net profit (loss)	(15.2)	(67.7)	_
Net profit (loss) attributable to owners of the parent	(7.3)	(67.7)	_

*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,

3. Consolidated Statement of Cash Flows	Q2 FY2022	Q2 FY2023	(Billions of yen)
Net cash provided by (used in) operating activities	29.5	(174.5)	
Net cash provided by (used in) investing activities	7.1	32.7	
Net cash provided by (used in) financing activities	(26.7)	44.8	
Cash and cash equivalents at the end of period	250.6	60.4	

4. Foreign Exchange Rates	Period end rate		Average rate		FY2023 assumption	Forex sensitivity FY2023 (Impact of yen depreciation by ¥1)	
	Mar. 31 2023	Sep. 30 2023	FY2022 AprSep.	FY2023 AprSep.	Average rate	Revenue	Core operating profit
Yen / USD	133.54	149.58	134.05	141.07	130.00	1.7	(0.6)
Yen / RMB	19.42	20.50	19.89	19.75	19.50	1.7	0.7
							(Billians of you)

(Billions of yen)

(Billions of yen)

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5. Capital Expenditures/ Depreciation and Amortization	Q2 FY2022	Q2 FY2023	Change	FY2022	FY2023 (Forecasts)	Change
Capital expenditures	4.9	6.2	1.2	14.6	17.4	2.8
Depreciation of Property, plant and equipment	6.8	4.9	(1.9)	12.0	10.5	(1.5)
Amortization of Intangible assets	15.6	13.8	(1.8)	29.3	25.8	(3.5)
Related to products (patent rights/ marketing rights) included in above	14.2	12.4	(1.8)	26.5	22.9	(3.6)

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

Major capital expenditure project in FY2023

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

## II. Consolidated Statement of Profit or Loss

in conconductor of the					
1. Consolidated Statement of Pro	fit or Loss ( Q2	Core Basis Q2		lions of yen) Change	
	FY2022	FY2023	Change	%	¥billion Change FX rate
Revenue	319.3	152.6	(166.6)	(52.2) <	· ·
Overseas revenue	231.2	98.7	(132.4)	(57.3)	North America (122.1) 3.6
% of Revenue	72.4%	64.7%			Asia (5.0) 0.1
Cost of sales	92.8	60.3	(32.5)	(35.0)	
% of Revenue	29.1%	39.5%			
Gross profit	226.4	92.3	(134.1)	(59.2)	Change by segment
SG&A expenses	152.3	118.8	(33.5)	(22.0)	N =41-
Labor costs	66.2	51.1	(15.1)	(22.9)	Labor costs (2.9) (11.6) (0.6)
Sales promotion costs/ Advertising and promotion costs	31.5 <b>24.3</b> (7.2) (22.0) Advertising and c	Sales promotion costs/ Advertising and promotion (0.5) (6.4) (0.4) costs			
Amortization/Depreciation	18.3	15.7	(2.7)	(14.5)	Amortization/ Depreciation (0.5) (2.2) (0.0)
Others	36.2	27.8	(8.5)	(23.4)	Others (0.7) (8.3) 0.5
R&D expenses	49.4	45.3	(4.1)	(8.3)	
% of Revenue	15.5%	29.7%			
Other operating income/expenses	0.0	5.9	5.9		
Core operating profit (loss)	24.8	(65.8)	(90.7)	_	
Non-recurring items (negative number indicates net loss)	(53.8)	(20.6)	33.1	•	FY22: KYNMOBI® impairment losses (54.4) FY23: Business structure improvement expenses
Operating profit (loss)	(28.9)	(86.5)	(57.6)		in North America (20.3)
Finance income	51.7	32.0	(19.7)		
Finance costs	1.7	1.7	(0.1)		
Profit (loss) before taxes	21.0	(56.1)	(77.2)		
Income tax expenses	36.3	11.6	(24.7)		
Net profit (loss)	(15.2)	(67.7)	(52.5)	_	
Net profit (loss) attributable to owners of the parent	(7.3)	(67.7)	(60.5)	_	

## 2. Adjustments to Core Operating Profit

				(Billions of yen)
Q2 FY2023 Results	Full Basis	Core Basis	Adjustment	Major adjustment items
Revenue	152.6	152.6	_	
Cost of sales	60.3	60.3	_	
Gross profit	92.3	92.3	_	
SG&A expenses	134.0	118.8	(15.3)	Business structure improvement expenses in North America (15.2)
R&D expenses	50.4	45.3	(5.1)	Business structure improvement expenses in North America (5.1)
Other operating income	6.4	5.9	(0.6)	
Other operating expenses	0.9	_	(0.9)	
Operating profit (loss)	(86.5)	(65.8)	20.6	

## **III. Segment Information (Core Basis)**

(Billions of yen)

Q2 FY2023 Results	Japan	North America	Asia	Total
Revenue	58.5	73.3	20.8	152.6
Cost of sales	28.0	27.0	5.3	60.3
Gross profit	30.6	46.3	15.5	92.3
SG&A expenses	24.7	88.4	5.6	118.8
Core segment profit (loss)	5.9	(42.2)	9.9	(26.4)
R&D expenses *1				45.3
Other operating income/expenses (Core basis)*2				5.9
Core operating profit (loss)				(65.8)

(Billions of yen)

Q2 FY2022 Results	Japan	North America	Asia	Total
Revenue	98.1	195.3	25.9	319.3
Cost of sales	56.0	31.2	5.7	92.8
Gross profit	42.1	164.2	20.2	226.4
SG&A expenses	29.2	116.9	6.1	152.3
Core segment profit	12.9	47.3	14.0	74.2
R&D expenses *1				49.4
Other operating income/expenses (Core basis)*2				0.0
Core operating profit				24.8

(Billions of yen)

FY2023 Forecasts	Japan	North America	Asia	Total
Revenue	114.1	208.8	39.1	362.0
Cost of sales	54.2	68.8	9.0	132.0
Gross profit	59.9	140.0	30.1	230.0
SG&A expenses	47.7	160.3	12.0	220.0
Core segment profit (loss)	12.2	(20.3)	18.1	10.0
R&D expenses *1				84.0
Other operating income/expenses (Core basis)*2				12.0
Core operating profit (loss)				(62.0)

<sup>\*1</sup> R&D expenses are controlled globally and not allocated to each segment.

<sup>\*2</sup> Including P/L on business transfers and share of P/L of associates accounted for using equity method Note: From Q1 FY2023, segments have been changed from four (Japan, North America, China, and Other Regions) to three (Japan, North America, and Asia).

Q2 FY2022 results and FY2023 forecasts has been prepared based on the current classification.

## IV. Revenue Information

## 1. Revenue by segment

(Billions of yen)

Segment	Q2 FY2022	Q2 FY2023	Change	Change %	FY2023 (Forecasts)	Progress %
Japan	98.1	58.5	(39.5)	(40.3)	114.1	51.3
North America	195.3	73.3	(122.1)	(62.5)	208.8	35.1
Asia	25.9	20.8	(5.0)	(19.5)	39.1	53.2

## 2. Revenue of Major Products (1)

(Invoice price basis, Billions of yen)

Brand name Therapeutic indication	Q2 FY2022	Q2 FY2023	Change	Change %	FY2023 (Forecasts)	Progress %
Japan						
Promoted products						
Equa <sup>®</sup> /EquMet <sup>®</sup> Therapeutic agent for type 2 diabetes (Nov. 2019~) TRERIEF <sup>®</sup>	17.3	15.8	(1.5)	(8.7)	32.4	48.7
Therapeutic agent for Parkinson's disease	8.6	8.5	(0.0)	(0.5)	15.0	57.0
LATUDA® Atypical antipsychotic (Jun. 2020~)	4.6	5.7	1.1	23.3	12.5	45.8
METGLUCO® Therapeutic agent for type 2 diabetes	4.0	3.7	(0.2)	(5.8)	7.5	49.6
TWYMEEG® Therapeutic agent for type 2 diabetes (Sep. 2021~)	0.5	2.6	2.1	420.7	4.2	62.9
LONASEN® Tape Atypical antipsychotic (Sep. 2019~)	1.4	1.8	0.4	31.7	3.3	55.5
<b>Trulicity</b> <sub>®</sub> * Therapeutic agent for type 2 diabetes	16.7	_	(16.7)	_	_	_
Other products						
Authorized Generics	4.6	4.6	(0.0)	(0.7)	8.6	53.5
Export products, Lump-sum revenue, Others	40.4	15.7	(24.7)	(61.2)	30.6	51.3

 $<sup>^{\</sup>star}$  Trulicity\_ $\!_{\otimes}$  revenue is shown by NHI drug price.

# 2. Revenue of Major Products (2)

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(Billions of ye								
Brand name Therapeutic indication	Q2 FY2022	Q2 FY2023	Change	Change %	FY2023 (Forecasts)	Progress %		
North America								
ORGOVYX <sup>®</sup>	40.0	40.4	0.0	00.4	E4 E	07.7		
Therapeutic agent for advanced prostate cancer (Jan. 2021~)	10.6	19.4	8.8	82.4	51.5	37.7		
MYFEMBREE®								
Therapeutic agent for uterine fibroids and endometriosis	1.4	4.2	2.8	198.5	24.9	16.7		
(Jun. 2021~/Aug.2022~)								
GEMTESA®	9.5	15.8	6.4	67.2	47.0	33.6		
Therapeutic agent for overactive bladder (Apr. 2021~)	5.5	13.0	0.4	01.2	47.0	33.0		
APTIOM <sup>®</sup>	17.4	16.1	(1.2)	(7.0)	35.5	45.5		
Antiepileptic			( )	(* )				
RETHYMIC® Pediatric congenital athymia	2.6	3.1	0.5	20.3	7.0	44.0		
(Mar. 2022~)		• • • • • • • • • • • • • • • • • • • •		_0.0				
LATUDA <sup>®</sup>	127.6	4.0	(123.6)	(96.8)	20.9	19.3		
Atypical antipsychotic			,	,				
Export products, Lump-sum revenue, Others	26.3	10.7	(15.7)	(59.6)	22.0	48.4		
Asia								
MEROPEN® (China)	40.7	40.0	(O.E.)	(AE 2)	40.7	E4 0		
Carbapenem antibiotic	18.7	10.2	(8.5)	(45.3)	18.7	54.8		
MEROPEN® (Southeast Asia) Carbapenem antibiotic	1.3	4.0	2.7	200.7	4.9	82.5		
(Ref.) Products sales in North	America (ba	ased on loc	al currenc	y)	(Million	ns of dollar)		
	02	02		Oh	EV2023	D		

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Brand name	Q2 FY2022	Q2 FY2023	Change	Change %	FY2023 (Forecasts)	Progress %			
ORGOVYX <sup>®</sup>	79	138	58	73.3	396	34.7			
MYFEMBREE <sup>®</sup>	10	29	19	183.6	192	15.4			
GEMTESA <sup>®</sup>	71	112	42	58.9	362	31.0			
APTIOM <sup>®</sup>	129	114	(15)	(11.6)	273	41.9			
RETHYMIC <sup>®</sup>	19	22	3	14.3	54	40.4			
LATUDA <sup>®</sup>	952	29	(923)	(97.0)	161	17.7			

#### V. Consolidated Statement of Financial Position

	(Billions of ye				
	Mar. 31 2023	Sep. 30 2023	Change		
Assets	1,134.7	1,148.9	14.1		
Non-current assets	752.9	856.1	103.2		
Property, plant and equipment	58.9	60.2	1.3		
Goodwill	209.4	234.6	25.2		
Intangible assets	329.3	356.6	27.3		
Patent rights/Marketing rights	310.9	335.5	24.6		
In-process R&D	11.7	14.3	2.6		
Others	6.7	6.8	0.1		
Other financial assets	134.0	182.9	48.9		
Other non-current assets	10.4	12.4	2.0		
Deferred tax assets	10.8	9.5	(1.4)		
Current assets	381.9	292.7	(89.1)		
Inventories	94.4	107.6	13.2		
Trade and other receivables	95.9	93.9	(2.0)		
Other financial assets	20.2	8.0	(12.1)		
Other current assets	20.4	22.8	2.4		
Cash and cash equivalents	143.5	60.4	(83.1)		
Assets held for sale	7.5		(7.5)		
Liabilities	728.0	736.8	8.9		
Non-current liabilities	355.3	366.1	10.8		
Bonds and borrowings	244.1	244.2	0.1		
Other financial liabilities	11.9	12.5	0.7		
Retirement benefit liabilities	5.0	4.9	(0.1)		
Other non-current liabilities	57.8	47.6	(10.2)		
Deferred tax liabilities	36.5	56.8	20.3		
Current liabilities	372.7	370.7	(1.9)		
Borrowings	90.6	139.6	49.0		
Trade and other payables	52.1	57.7	5.6		
Other financial liabilities	7.0	13.9	6.9		
Income taxes payable	24.1	12.6	(11.5)		
Provisions	119.1	92.5	(26.6)		
Other current liabilities	78.0	54.4	(23.6)		
Liabilities directly associated with assets held for sale	1.8	_	(1.8)		
Equity	406.8	412.0	5.3		
Share capital	22.4	22.4			
Treasury shares	(0.7)	(0.7)	(0.0)		
Retained earnings	281.0	217.4	(63.6)		
Other components of equity	103.4	172.9	69.5		
Other comprehensive income	0.7	_	(0.7)		
associated with assets held for sale Equity attributable to owners of the					
parent	406.7	412.0	5.3		
Non-controlling interests	0.0	0.0	0.0		

Goodwill	23/3	23/9
Other than oncology	183.7	205.7
Oncology	25.8	28.9
Major patent rights	23/3	23/9
ORGOVYX® (relugolix)	66.1	71.5
MYFEMBREE® (relugolix)	142.5	154.1
GEMTESA® (vibegron)	94.7	101.7

Increase by change in value of securities

Total bonds and borrowings 334.7 → 383.8

## VI. Changes in Quarterly Results

## 1. Consolidated Statement of Profit or Loss (Core Basis)

			(Billio	ns of yen)			
		FY2	022		FY2023		
	Q1	Q2	Q3	Q4	Q1	Q2	
Revenue	159.9	159.4	141.0	95.3	75.7	77.0	
Cost of sales	46.1	46.8	46.9	37.0	30.4	29.9	
Gross profit	113.8	112.6	94.1	58.3	45.3	47.1	
SG&A expenses	76.0	76.2	75.3	78.1	61.8	56.9	
R&D expenses	24.4	25.0	25.5	31.2	22.8	22.5	
Other operating income/expenses	0.0	(0.0)	24.7	24.4	5.9	(0.0)	
Core operating profit (loss)	13.4	11.5	18.1	(26.6)	(33.5)	(32.3)	
Non-recurring items (negative number indicates net loss)	1.2	(55.0)	(6.9)	(32.6)	(18.1)	(2.6)	
Operating profit (loss)	14.6	(43.5)	11.1	(59.2)	(51.6)	(34.9)	
Net profit (loss)	28.1	(43.3)	(17.4)	(64.1)	(38.9)	(28.9)	
Net profit (loss) attributable to owners of the parent	31.1	(38.4)	(11.2)	(56.0)	(38.9)	(28.9)	

## 2. Revenue of Major Products

		FY2	FY2023			
	Q1	Q2	Q3	Q4	Q1	Q2
Japan				(Invoice pri	ce basis, Billi	ions of yen)
Equa <sup>®</sup> /EquMet <sup>®</sup>	8.8	8.5	10.0	6.3	8.2	7.6
TRERIEF®	4.4	4.2	4.5	3.6	4.4	4.1
LATUDA <sup>®</sup>	2.3	2.4	2.6	2.3	2.8	2.9
METGLUCO <sup>®</sup>	2.0	2.0	2.0	1.7	1.9	1.8
TWYMEEG <sup>®</sup>	0.1	0.4	0.8	0.9	1.2	1.5
LONASEN® Tape	0.7	0.7	0.8	0.7	0.9	0.9
Trulicity <sub>®</sub> *	8.6	8.0	8.1	(0.0)	_	_
<b>Authorized Generics</b>	2.3	2.3	2.4	2.1	2.3	2.3
Export products, Lump-sum revenue, Others	23.9	18.5	18.2	19.3	8.6	7.1

<sup>\*</sup> Trulicity® revenue is shown by NHI drug price.

North America					(Millions	of dollar)
ORGOVYX <sup>®</sup>	36	43	49	54	68	70
MYFEMBREE <sup>®</sup>	4	6	11	12	13	16
GEMTESA <sup>®</sup>	34	37	54	57	63	49
APTIOM <sup>®</sup>	65	65	61	58	58	57
RETHYMIC <sup>®</sup>	5	14	3	11	11	11
LATUDA <sup>®</sup>	482	470	362	151	8	20
Export products, Lump-sum revenue, Others	108	98	41	33	37	39
Asia					(Billion	ns of yen)
MEROPEN® (China)	9.1	9.6	5.1	4.7	4.4	5.8
MEROPEN <sup>®</sup> (Southeast Asia)	8.0	0.5	0.9	8.0	2.3	1.8

# VII. Major Consolidated Subsidiaries (As of September 30, 2023)

Domestic	Establish- ment	Ownership	Number of employees	Businesses
Sumitomo Pharma Promo Co., Ltd.	1998/6	100%	32	Manufacturing and sales of pharmaceuticals, etc.
Overseas	Establish- ment	Ownership	Number of employees	Businesses
Sumitomo Pharma UK Holdings, Ltd.	2019/10	100%	0	Holding company, management of the group companies, and formulation and promotion of business strategies, etc.
Sumitomo Pharma America, Inc.	1984/ 1	100%	*1,715	Manufacturing and sales of pharmaceuticals
Sumitomo Pharma Switzerland GmbH	2016/8	100%	20	Manufacturing and sales of pharmaceuticals in the women's health and prostate cancer area
Spirovant Sciences, Inc.	2019/ 2	100%	30	R&D in the cystic fibrosis gene therapy area
Sumitomo Pharma (China) Co., Ltd.	2022/6	100%	54	Holding company, management of the Company's China business, etc.
Sumitomo Pharma (Suzhou) Co., Ltd.	2003/12	100%	589	Manufacturing and sales of pharmaceuticals

<sup>\*</sup> Include employees of consolidated subsidiaries

Note: To unify the corporate brand as one of the Group companies, Sunovion Pharmaceuticals Inc. changed its name to Sumitomo Pharma America, Inc., Sumitovant Biopharma Ltd. became Sumitomo Pharma UK Holdings, Ltd., and Myovant Sciences GmbH rebranded as Sumitomo Pharma Switzerland GmbH.

#### (Reference)

Number of employees	March 31, 2022		March 31	, 2023	Sep. 30, 2023				
consolidated / non-consolidated	6,987	3,040	6,250	3,026	5,686	3,002			
Number of MRs (approx., include contracted MRs)									
Japan Exclude managers/Total	1,110	1,220	1,040	1,140	920	1,020			
<b>U.S.</b> Exclude managers/Total	820	950	500	580	420	500			
China Exclude managers/Total	340	420	270	340	270	340			

## VIII. Shareholder Positioning (As of September 30, 2023)

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

**2. Total number of shares outstanding:** 397,900,154 (Including number of treasury stock 608,798)

## 3. Number of shareholders by category:

Shareholder category	Number of shareholders	Number of shares (Thousands)	Percentage of total (%)
Financial institutions	29	70,261	17.66
Securities companies	50	4,620	1.16
Other Japanese corporations	389	222,498	55.92
Corporations outside Japan, etc.	541	46,695	11.74
Individuals and others (Including treasury stock)	42,781	53,822	13.52
Total	43,790	397,900	100.00

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)	27,308	6.87
Custody Bank of Japan, Ltd. (Trust account)	12,517	3.15
Inabata & Co., Ltd.	8,782	2.21
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
Custody Bank of Japan, Ltd. (Trust account 4)	3,847	0.97
BNYM AS AGT/CLTS 10 PERCENT	3,467	0.87
Sumitomo Pharma Employee shareholders' association	3,292	0.83

Notes: 1: Percentage of shareholding is calculated excluding treasury stock (608,798 shares\*).

<sup>\*</sup>Exclude 1,000 shares under name of the Company which are not owned by the Company substancially

<sup>2:</sup> The numbers of shares held are rounded down to the nearest thousand shares.

## IX. Development Pipeline (As of October 31, 2023)

- 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

(	Brand name/ Product code (Generic name)	Proposed indication	Region	Development stage	
Small molecule	SEP-363856 (ulotaront)	Schizophrenia	U.S. Japan, China	Phase 3 Phase 2/3	
		Adjunctive major depressive disorder (aMDD)	U.S.	Phase 2/3	
		Generalized anxiety disorder (GAD)	U.S., Japan	Phase 2/3	
		Parkinson's disease psychosis	U.S.	Phase 2	
	LATUDA <sup>®</sup> (lurasidone hydrochloride)	(New usage: pediatric) Schizophrenia	Japan	Phase 3	
	EPI-589	Parkinson's disease	U.S.	Phase 2	
		Amyotrophic lateral sclerosis	U.S.	Phase 2	
		(ALS)	Japan	Phase 2 (Investigator- initiated study)	
	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 Parkinson's disease	Japan	Phase 1	
	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	
	DSP-2342	To be determined	U.S.	Phase 1	
Regenerative medicine / cell therapy	CT1-DAP001/ DSP-1083 (Allogeneic iPS [induced pluripotent stem] cell-	Parkinson's disease	Japan	Phase 1/2 (Investigator- initiated study)	
	derived dopamine neural progenitor cells)		U.S.	Preparing the start of clinical study	
	HLCR011 (Allogeneic iPS cell-derived retinal pigment epithelial cells)	Retinal pigment epithelium tear	Japan	Phase 1/2	

2. Oncology

Brand name/ Product code (Generic name)	Proposed indication	Region	Development stage
TP-3654	Myelofibrosis	U.S., Japan	Phase 1/2
DSP-5336	Acute leukemia	U.S., Japan	Phase 1/2
DSP-0390	Glioblastoma	U.S., Japan	Phase 1
TP-1287	Solid tumors	U.S.	Phase 1
TP-1454	Solid tumors	U.S.	Phase 1

## 3. Others

Brand name/ Product code (Generic name)	Proposed indication	Region	Development stage
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)		
vibegron	Overactive bladder (OAB)	China	Phase 3
SP-101	Cystic fibrosis	U.S.	Phase 1/2
KSP-1007	Complicated urinary tract infections and	U.S.	Phase 1
	Complicated intra-abdominal infections		

[Main revisions since the announcement of July 2023]

Brand name/ Product code (Generic name)	Proposed indication	Region	Development stage	Changes
SEP-4199	Bipolar I depression	U.S., Japan	Phase 3	Deleted from the table due to discontinuation of the study, development strategy under consideration
DSP-3905	Neuropathic pain	U.S.	Phase 1	Deleted from the table due to out-licensing

#### X. Profiles of Major Products under Development (As of October 31, 2023)

## 1. Psychiatry & Neurology

(Small molecule)

<u>ulotaront (SEP-363856)</u> Origin: in-house (Joint research with former Sunovion Pharmaceuticals Inc.

and PsychoGenics Inc.), Formulation: oral

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.

Generalized anxiety disorder (GAD): Phase 2/3 in the U.S. and Japan

Parkinson's disease psychosis: Phase 2 in the U.S.

- Ulotaront (SEP-363856) is a TAAR1 (trace amine-associated receptor 1) agonist with serotonin 5-HT<sub>1A</sub> agonist activity. Ulotaront does not bind to dopamine D<sub>2</sub> or serotonin 5-HT<sub>2A</sub> receptors. Former Sunovion discovered ulotaront in collaboration with PsychoGenics using its in vivo phenotypic SmartCube<sup>®</sup> platform and associated artificial intelligence algorithms. The Food and Drug Administration (FDA) granted Breakthrough Therapy Designation for ulotaront for the indication of schizophrenia in May 2019.
- 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. Although Phase 3 (DIAMOND 1 and 2) did not achieve their primary endpoint, significant improvements were observed in the placebo group in both studies, which may have masked the efficacy of the drug. Regarding safety, ulotaront was generally safe and well-tolerated throughout both studies. Future development strategy for schizophrenia is currently being discussed with Otsuka Pharmaceutical.

**EPI-589** Origin: PTC Therapeutics, Inc.

(Acquired from BioElectron Technology Corporation), Formulation: oral

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

• 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.

SEP-378614 Origin: in-house (Joint research with former Sunovion Pharmaceuticals Inc.

and PsychoGenics Inc.), Formulation: oral

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

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

- Development stage: Phase 1 in the U.S. (Co-development with Otsuka Pharmaceutical Co., Ltd.)
- · SEP-380135 is a novel CNS-active molecule. Former 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.

#### **DSP-0038** Origin: in-house (Joint research with Exscientia Ltd.), Formulation: oral

- Development stage: Alzheimer's disease psychosis: Phase 1 in the U.S.
- DSP-0038 is a novel compound discovered at Sumitomo Pharma using Exscientia's AI technologies. DSP-0038 is a serotonin 5-HT<sub>2A</sub> receptor antagonist and a serotonin 5-HT<sub>1A</sub> receptor agonist. DSP-0038 is expected to demonstrate a greater antipsychotic effect, based on the additive effect of 5-HT<sub>2A</sub> receptor antagonist and 5-HT<sub>1A</sub> 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 D<sub>2</sub> receptors, and therefore it can be expected to show improved safety and tolerability compared to existing antipsychotic.

**DSP-9632P** Origin: in-house, Formulation: patch

- Development stage: Levodopa-induced dyskinesia in Parkinson's disease: Phase 1 in Japan
- DSP-9632P is a serotonin 5-HT<sub>1A</sub> 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.

**DSP-0187** Origin: in-house, Formulation: oral

- Development stage: Narcolepsy: Phase 1 in Japan
- 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.

**DSP-3456** Origin: in-house, Formulation: oral

- Development stage: Treatment resistant depression: Phase 1 in the U.S.
- 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).

**DSP-0378** Origin: in-house, Formulation: oral

- Development stage: Dravet syndrome and Lennox-Gastaut syndrome: Phase 1 in Japan
- DSP-0378 is a gamma-aminobutyric acid (GABA) A receptor positive allosteric modulator. It acts on various subtypes of GABA<sub>A</sub> receptors expressed in synaptic and extrasynaptic regions in a manner different from common GABA<sub>A</sub> 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.

**DSP-2342** Origin: in-house (Joint research with Exscientia Ltd.), Formulation: oral

Development stage: Phase 1 in the U.S.

DSP-2342 is a novel compound discovered at Sumitomo Pharma using Exscientia's AI technologies.
 DSP-2342 is a serotonin 5-HT<sub>2A</sub> and 5-HT<sub>7</sub> receptor antagonist. DSP-2342 is expected to demonstrate a broader antipsychotic effect which includes psychosis, anxiety, and depression, based on the additive effect of 5-HT<sub>2A</sub> and 5-HT<sub>7</sub> receptor antagonist. Furthermore, DSP-2342 has high selectivity for 5-HT<sub>2A</sub> and 5-HT<sub>7</sub> receptors, which can be expected to show a high level of safety and tolerability.

## (Regenerative medicine / cell therapy)

In cooperation with the partners in the industry-academia collaboration, we are developing Parkinson's disease, regenerative medicine / cell therapy using allogeneic iPS (induced pluripotent stem) cell (healthy patients) for RPE (retinal pigment epithelium) tear, AMD (age-related macular degeneration), retinitis pigmentosa, and spinal cord injury.

## CT1-DAP001/ DSP-1083 (Allogeneic iPS cell-derived products)

- Partnering: Kyoto University CiRA
- Development stage:

Parkinson's disease: Phase 1/2 (Investigator-initiated study, Sponsor: Kyoto University Hospital) in Japan

Parkinson's disease: Preparing the start of clinical study in the U.S.

 The Ministry of Health, Labour and Welfare (MHLW) designated "Sakigake Designation System" product for regenerative medicine & cell therapy for the indication of Parkinson's disease in February 2017.

#### HLCR011 (Allogeneic iPS cell-derived products)

- Partnering: RIKEN, Healios
- Development stage: Retinal pigment epithelium tear: Phase 1/2 in Japan

#### 2. Oncology

#### TP-3654 Origin: in-house (former Tolero Pharmaceuticals, Inc.), Formulation: oral

- Development stage: Myelofibrosis: Phase 1/2 in the U.S. and Japan
- 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. The FDA granted Orphan Drug Designation for TP-3654 for the indication of
  myelofibrosis in May 2022.

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

- Development stage: Acute leukemia: Phase 1/2 in the U.S. and Japan
- 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. The FDA granted Orphan Drug Designation for DSP-5336 for the indication of acute myeloid leukemia in June 2022.

#### **DSP-0390** Origin: in-house, Formulation: oral

- Development stage: Glioblastoma: Phase 1 in the U.S. and Japan
- DSP-0390 is an inhibitor of Emopamil Binding Protein (EBP), which is one of cholesterol biosynthetic enzymes. EBP is an endoplastic reticulum 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. The FDA granted Orphan Drug Designation

#### **TP-1287** Origin: in-house (former Tolero Pharmaceuticals, Inc.), Formulation: oral

- Development stage: Solid tumors: Phase 1 in the U.S.
- 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. The FDA granted Rare Pediatric Disease Designation and Orphan Drug Designation for TP-1287 for the indication of ewing sarcoma in February and March 2023, respectively.

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

- Development stage: Solid tumors: Phase 1 in the U.S.
- 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.

#### 3. Others

#### **GEMTESA®** (vibegron)

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

Development stage:

(New indication) Overactive bladder in men with BPH: Phase 3 in the U.S.

Overactive bladder: Phase 3 in China

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. Former Urovant has received approval for overactive bladder in the U.S. in
December 2020.

#### lefamulin Origin: Nabriva Therapeutics plc, Formulation: oral, injection

- Development stage: Bacterial community-acquired pneumonia: NDA submitted in China in October 2021
- 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.

#### SP-101 Origin: in-house (Spirovant Sciences, Inc.), Formulation: Inhalation Suspension

- Development stage: Cystic Fibrosis: Phase 1/2 in the U.S.
- SP-101 is a novel adeno-associated viral (AAV) vector engineered to efficiently transduce human airway epithelia from the apical (lumen) surface. It is designed to deliver a shortened but fully functional cystic fibrosis transmembrane conductance regulator (CFTR) gene to the airways of people living with Cystic Fibrosis (CF). Based on preclinical data, the addition of doxorubicin substantially improves SP-101 transduction and subsequent expression of the CFTR gene. SP-101 followed by doxorubicin administered via a nebulizer is being developed as a combination product for the treatment of CF. SP-101 is expected to restore CFTR function and halting disease progression in the lungs of people living with CF.

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

- Development stage: Complicated urinary tract infections and Complicated intra-abdominal infections:
   Phase 1 in the U.S.
- 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<sup>®</sup>). The FDA granted Qualified Infectious Disease Product (QIDP) status and Fast Track Designation for KSP-1007 for the indication of complicated urinary tract infections, complicated intra-abdominal infections, hospital-acquired bacterial pneumonia, and ventilator-associated bacterial pneumonia in August 2022.

#### XI. Development Status of Major Programs in Frontier Business (As of October 31, 2023)

 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	Under trial sale as a general wellness product, "Aikomi Care®" and "Aikomi DS."  We are researching and developing a DTx product for tailor-made contents for stimulating five senses that digitally realize non-pharmacotherapy, and aim for the NHI reimbursement as an approved device.	Japan Preparing for clinical research (medical device)	Aikomi Ltd.
	VR contents for social anxiety disorder (BVR-100)	We are researching and developing a DTx product that converts modules, etc. based on cognitive behavioral therapy (CBT) such as exposure therapy and cognitive restructuring training into VR content.  Launched mental health VR contents "First Resort <sup>TM</sup> " as a general wellness product.	U.S. Preparing for clinical study (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. We aim to develop a service that enables early detection of mental illness by grasping brain wave trends.	Japan Product development (medical device)	NeuroSky Co., Ltd.
	Support Program for Screening of Depression/ Rating of Severity	This product is designed to detect depressive episodes caused by depression or bipolar disorder and help rate the severity of the disease by analyzing patients' vital signs and activity data collected from wearable devices. We aim to develop a medical device.	Japan Product development (medical device)	Keio University, i2medical LLC
	Violet light	We aim to develop neuromodulation technology via vision with violet lights flashing at 40 Hz to treat and prevent mental illness.	Japan Product development (medical device)	Tsubota Laboratory , Inc.
Motor dysfunction	Neurorehabili tation device for hand/fingers paralysis	Launched "MELTz®" as a medical device. We are developing Robotic neurorehabilitation device utilizing motion intention of patients with hand/fingers paralysis from electromyogram for the patients, and aim for the NHI reimbursement as an approved device.	Japan Product development (medical device)	MELTIN
	Training device for hand/fingers paralysis	Under development as "MELTz® Portable". We aim to develop a small and simple device that trains patients with hand/fingers paralysis using a robot that uses myoelectric signals.	Japan Product development (non-medical device)	MELTIN
Metabolic disease	Automated blood collection/sta bilization device	We aim to develop blood collection device designed for low pain, long-term storage, and simple transportation for the self-management tool such as metabolic disease*.	Japan Product development (medical device)	Drawbridge Health, Inc.

<sup>\*</sup>The details and rights regarding business rights in Japan are currently under discussion with Drawbridge Health, and they have not been agreed upon with the company.