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

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# July 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)

	Q1 FY2022	Q1 FY2023	Change % YoY	FY2022	FY2023 (Forecasts)	Change % YoY
Revenue	159.9	75.7	(52.7)	555.5	362.0	(34.8)
Cost of sales *1	46.1	30.4	(33.9)	176.7	132.0	(25.3)
Gross profit	113.8	45.3	(60.2)	378.8	230.0	(39.3)
SG&A expenses *1	76.0	61.8	(18.7)	305.6	220.0	(28.0)
R&D expenses *1	24.4	22.8	(6.6)	106.1	84.0	(20.8)
Other operating income/expenses *2	0.0	5.9	_	49.2	12.0	(75.6)
Core operating profit (loss)	13.4	(33.5)	_	16.4	(62.0)	_
Non-recurring items *3 (negative number indicates loss)	1.2	(18.1)		(93.3)	(16.0)	
Operating profit (loss)	14.6	(51.6)	_	(77.0)	(78.0)	_
Net profit (loss)	28.1	(38.9)	_	(96.7)	(80.0)	_
Net profit (loss) attributable to owners of the parent	31.1	(38.9)	_	(74.5)	(80.0)	_
Basic earnings per share (yen)	78.30	(97.82)		(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)

01 2033 (1 uli Du313)	Q1 FY2022	Q1 FY2023	Change % YoY
Revenue	159.9	75.7	(52.7)
Cost of sales	46.1	30.4	(33.9)
Gross profit	113.8	45.3	(60.2)
SG&A expenses	77.3	74.9	(3.1)
R&D expenses	24.4	27.8	14.0
Other operating income/expenses	2.5	5.9	
Operating profit (loss)	14.6	(51.6)	_
Finance income/costs	32.0	20.5	
Profit (loss) before taxes	46.6	(31.1)	_
Income tax expenses	18.5	7.8	
Net profit (loss)	28.1	(38.9)	_
Net profit (loss) attributable to owners of the parent	31.1	(38.9)	_

*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

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	Q1 FY2022	Q1 FY2023	(Billions of yen)
Net cash provided by (used in) operating activities	13.2	(130.2)	
Net cash provided by (used in) investing activities	22.4	38.5	
Net cash provided by (used in) financing activities	(6.6)	33.6	
Cash and cash equivalents at the end of period	255.4	94.5	

4. Foreign Exchange Rates	FY2022 AprJun.		FY2023 AprJun.		FY2023 assumption	Forex sensitivity FY2023 (Impact of yen depreciation by ¥1)	
	Period end rate	Average rate	Period end rate	Average rate	Average rate	Revenue	Core operating profit
Yen / USD	136.64	129.73	144.99	137.50	130.00	1.7	(0.6)
Yen / RMB	20.38	19.60	19.95	19.57	19.50	1.7	0.7

(Billions of yen)

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5. Capital Expenditures/ Depreciation and Amortization	Q1 FY2022	Q1 FY2023	Change	FY2022	FY2023 (Forecasts)	Change
Capital expenditures	2.8	3.5	0.7	14.6	17.4	2.8
Depreciation of Property, plant and equipment	3.9	2.5	(1.4)	12.0	10.5	(1.5)
Amortization of Intangible assets	7.6	6.7	(0.9)	29.3	25.8	(3.5)
Related to products (patent rights/ marketing rights) included in above	6.9	6.0	(0.9)	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

1. Consolidated Statement of Pro			)	(Billions of yen)					
	Q1 FY2022	Q1 FY2023	Change	Change %					
Revenue	159.9	75.7	(84.2)	(52.7) ◀	¥billion — Japan	Change (21.7)	FX rate		
Overseas revenue	115.4	47.4	(68.0)	(58.9)	North America	(59.7)	2.0		
% of Revenue	72.2%	62.6%	(0010)	()	Asia	(2.8)	0.2		
Cost of sales	46.1	30.4	(15.6)	(33.9)					
% of Revenue	28.8%	40.2%	(1010)	()					
Gross profit	113.8	45.3	(68.6)	(60.2)					
SG&A expenses	76.0	61.8	(14.2)	(18.7) ←	_	Japan	North	Asia	
Labor costs	32.2	23.8	(8.4)	(26.2)	Labor costs	(1.3)	America (6.8)	(0.3)	
Advertising and promotion costs	7.3	1.1	(6.3)	(85.5)	Advertising and promotion costs	(0.3)	(6.0)	0.0	
Sales promotion costs	8.5	12.0	3.4	40.2	Sales promotion costs	0.0	3.4	0.0	
Amortization/Depreciation	9.2	7.7	(1.6)	(16.8)	Amortization/	(0.3)	(1.2)	(0.0)	
Others	18.8	17.4	(1.4)	(7.4)	Depreciation Others	0.2	(1.8)	` ,	
R&D expenses	24.4	22.8	(1.6)	(6.6)			,		
% of Revenue	15.3%	30.1%							
Other operating income/expenses	0.0	5.9	5.9						
Core operating profit (loss)	13.4	(33.5)	(46.9)	_					
Non-recurring items *	1.2	(18.1)	(19.3)		Business structor		ement expe	nses	
Operating profit (loss)	14.6	(51.6)	(66.2)	_	III NOITII AMERIC	a			
Finance income	32.9	21.3	(11.6)						
Finance costs	0.9	0.8	(0.1)						
Profit (loss) before taxes	46.6	(31.1)	(77.7)	_					
Income tax expenses	18.5	7.8	(10.7)						
Net profit (loss)	28.1	(38.9)	(67.0)	_					
Net profit (loss) attributable to owners of the parent	31.1	(38.9)	(70.0)	_					

owners of the parentNegative number indicates loss.

# 2. Adjustments to Core Operating Profit

				(Billions of yen)
Q1 FY2023 Results	Full Basis	Core Basis	Adjustment	Major adjustment items
Revenue	75.7	75.7	_	
Cost of sales	30.4	30.4	_	
Gross profit	45.3	45.3	_	
SG&A expenses	74.9	61.8	(13.1)	Business structure improvement expenses in North America (13.0)
R&D expenses	27.8	22.8	(5.0)	Business structure improvement expenses in North America (5.0)
Other operating income	6.3	5.9	(0.5)	
Other operating expenses	0.4	_	(0.4)	
Operating profit (loss)	(51.6)	(33.5)	18.1	

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

(Billions of yen)

Q1 FY2023 Results	Japan	North America	Asia	Total
Revenue	30.4	35.5	9.9	75.7
Cost of sales	14.7	13.0	2.7	30.4
Gross profit	15.6	22.5	7.1	45.3
SG&A expenses	12.8	46.2	2.8	61.8
Core segment profit (loss)	2.8	(23.7)	4.3	(16.6)
R&D expenses *1				22.8
Other operating income/expenses (Core basis)*2				5.9
Core operating profit (loss)				(33.5)

(Billions of yen)

Q1 FY2022 Results	Japan	North America	Asia	Total
Revenue	52.1	95.2	12.7	159.9
Cost of sales	28.6	13.5	3.9	46.1
Gross profit	23.5	81.7	8.7	113.8
SG&A expenses	14.6	58.6	2.9	76.0
Core segment profit	8.9	23.1	5.8	37.8
R&D expenses *1				24.4
Other operating income/expenses (Core basis)*2				0.0
Core operating profit				13.4

(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).

Q1 FY2022 results and FY2023 forecasts are recalculated based on the current classification.

# IV. Revenues Information

# 1. Revenue by segment

(Billions of yen)

Segment	Q1 FY2022	Q1 FY2023	Change	Change %	FY2023 (Forecasts)
Japan	52.1	30.4	(21.7)	(41.7)	114.1
North America	95.2	35.5	(59.7)	(62.7)	208.8
Asia	12.7	9.9	(2.8)	(22.1)	39.1

# 2. Revenue of Major Products (1)

(Invoice price basis, Billions of yen)

Brand name Therapeutic indication	Q1 FY2022	Q1 FY2023	Change	Change %	FY2023 (Forecasts)
Japan					
Promoted products					
Equa®/EquMet® Therapeutic agent for type 2 diabetes (Nov. 2019~) TRERIEF®	8.8	8.2	(0.6)	(7.0)	32.4
Therapeutic agent for Parkinson's disease	4.4	4.4	0.0	0.2	15.0
LATUDA® Atypical antipsychotic (Jun. 2020~)	2.3	2.8	0.6	24.0	12.5
METGLUCO® Therapeutic agent for type 2 diabetes	2.0	1.9	(0.1)	(4.3)	7.5
<b>TWYMEEG</b> ® Therapeutic agent for type 2 diabetes (Sep. 2021~)	0.1	1.2	1.1	_	4.2
LONASEN® Tape Atypical antipsychotic (Sep. 2019~)	0.7	0.9	0.2	35.3	3.3
$\begin{array}{ll} \textbf{Trulicity}_{\circledcirc} \ \ ^{*} \\ \text{Therapeutic agent for type 2 diabetes} \end{array}$	8.6	_	(8.6)	_	_
Other products					
Authorized Generics	2.3	2.3	0.0	1.1	8.6
Export products, Lump-sum revenue, Others	22.9	8.6	(14.2)	(62.3)	30.6

<sup>\*</sup> Trulicity $_{\ensuremath{\$}}$  revenue is shown by NHI drug price.

# 2. Revenue of Major Products (2)

2. Revenue of Major Products (2)						
Brand name Therapeutic indication	Q1 FY2022	Q1 FY2023	Change	Change %	FY2023 (Forecasts)	
North America						
ORGOVYX® Therapeutic agent for advanced prostate cancer (Jan. 2021~) MYFEMBREE®	4.7	9.3	4.7	99.7	51.5	
Therapeutic agent for uterine fibroids and endometriosis (Jun. 2021~/Aug.2022~)	0.5	1.8	1.3	245.7	24.9	
GEMTESA® Therapeutic agent for overactive bladder (Apr. 2021~)	4.4	8.7	4.3	98.1	47.0	
APTIOM <sup>®</sup> Antiepileptic	8.4	7.9	(0.4)	(5.3)	35.5	
RETHYMIC® Pediatric congenital athymia (Mar. 2022~)	0.7	1.5	0.8	112.0	7.0	
<b>LATUDA</b> <sup>®</sup> Atypical antipsychotic	62.5	1.2	(61.3)	(98.1)	20.9	
Export products, Lump-sum revenue, Others	14.0	5.0	(8.9)	(64.0)	22.0	
Asia						
MEROPEN® (China) Carbapenem antibiotic	9.1	4.4	(4.7)	(51.2)	18.7	
MEROPEN® (Southeast Asia) Carbapenem antibiotic	0.8	2.3	1.5	179.5	4.9	
(Ref.) Products sales in North	America (ba	sed on loca	al currenc	y)	(Millions of dollar)	
Brand name	Q1 FY2022	Q1 FY2023	Change	Change %	FY2023 (Forecasts)	
ORGOVYX <sup>®</sup>	36	68	32	88.4	396	
MYFEMBREE <sup>®</sup>	4	13	9	226.3	192	
GEMTESA <sup>®</sup>	34	63	29	86.9	362	
APTIOM <sup>®</sup>	65	58	(7)	(10.6)	273	
RETHYMIC®	5	11	5	100.0	54	
LATUDA <sup>®</sup>	482	8	(473)	(98.2)	161	

#### V. Consolidated Statement of Financial Position

		(Billi	ons of yen)
	Mar. 31 2023	Jun. 30 2023	Change
Assets	1,134.7	1,140.7	6.0
Non-current assets	752.9	819.9	67.0
Property, plant and equipment	58.9	60.1	1.1
Goodwill	209.4	227.4	18.0
Intangible assets	329.3	351.0	21.7
Patent rights/Marketing rights	310.9	331.8	20.9
In-process R&D	11.7	12.3	0.6
Others	6.7	6.9	0.2
Other financial assets	134.0	159.4	25.4
Other non-current assets	10.4	11.2	8.0
Deferred tax assets	10.8	10.9	0.1
Current assets	381.9	320.8	(61.1)
Inventories	94.4	101.5	7.1
Trade and other receivables	95.9	95.8	(0.1)
Other financial assets	20.2	6.3	(13.9)
Other current assets	20.4	22.8	2.4
Cash and cash equivalents	143.5	94.5	(49.0)
Subtotal	374.4	320.8	(53.6)
Assets held for sale	7.5		(7.5)
Liabilities	728.0	723.7	(4.3)
Non-current liabilities	355.3	360.1	4.8
Bonds and borrowings	244.1	244.2	0.0
Other financial liabilities	11.9	13.0	1.2
Retirement benefit liabilities	5.0	4.9	(0.1)
Other non-current liabilities	57.8	48.9	(8.9)
Deferred tax liabilities	36.5	49.1	12.6
Current liabilities	372.7	363.6	(9.1)
Borrowings	90.6	127.6	37.0
Trade and other payables	52.1	46.3	(5.8)
Other financial liabilities	7.0	7.3	0.3
Income taxes payable	24.1	9.5	(14.6)
Provisions	119.1	93.1	(26.0)
Other current liabilities Liabilities directly associated	78.0	79.8	1.8
with assets held for sale	1.8	_	(1.8)
Equity	406.8	417.0	10.2
Share capital	22.4	22.4	_
Capital surplus	_	_	_
Treasury shares	(0.7)	(0.7)	(0.0)
Retained earnings	281.0	246.3	(34.7)
Other components of equity	103.4	149.0	45.6
Other comprehensive income associated with assets held for sale	0.7	_	(0.7)
Equity attributable to owners of the	406.7	417.0	10.2
parent Non-controlling interests	0.0	0.0	0.0
Non-controlling interests	0.0	0.0	0.0

Goodwill	23/3	23/6
Other than oncology(SMPO)	183.7	199.4
Oncology(SMPO)	25.8	28.0
Major patent rights	23/3	23/6
ORGOVYX® (relugolix)	66.1	70.5
MYFEMBREE® (relugolix)	142.5	152.0
GEMTESA® (vibegron)	94.7	100.7

Increase by change in value of securities

Total bonds and borrowings 334.7 → 371.8

#### VI. Changes in Quarterly Results

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

(Billions of yen) FY2022 FY2023 Q2 Q3 Q4 Q1 Q1 95.3 75.7 Revenue 159.9 159.4 141.0 Cost of sales 46.1 46.8 46.9 37.0 30.4 Gross profit 45.3 113.8 112.6 94.1 58.3 SG&A expenses 76.0 76.2 75.3 78.1 61.8 22.8 R&D expenses 24.4 25.0 25.5 31.2 Other operating income/expenses 0.0 24.7 24.4 5.9 (0.0)Core operating profit (loss) 13.4 11.5 18.1 (26.6)(33.5)Other non-recurring items 1.2 (55.0)(18.1)(6.9)(32.6)(negative number indicates loss) (51.6) Operating profit (loss) 14.6 (43.5)(59.2)11.1 Net profit (loss) 28.1 (43.3)(17.4)(64.1)(38.9)Net profit (loss) attributable to 31.1 (38.4)(11.2)(56.0)(38.9)owners of the parent

#### 2. Revenue of Major Products

			FY2023		
	Q1	Q2	Q3	Q4	Q1
Japan			(Invoice	price basis,	Billions of yen)
Equa <sup>®</sup> /EquMet <sup>®</sup>	8.8	8.5	10.0	6.3	8.2
TRERIEF <sup>®</sup>	4.4	4.2	4.5	3.6	4.4
LATUDA <sup>®</sup>	2.3	2.4	2.6	2.3	2.8
METGLUCO®	2.0	2.0	2.0	1.7	1.9
TWYMEEG <sup>®</sup>	0.1	0.4	0.8	0.9	1.2
LONASEN® Tape	0.7	0.7	0.8	0.7	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
Export products, Lump-sum revenue, Others	23.9	18.5	18.2	19.3	8.6

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

North America				(Millions	s of dollar)
ORGOVYX <sup>®</sup>	36	43	49	54	68
MYFEMBREE®	4	6	11	12	13
GEMTESA <sup>®</sup>	34	37	54	57	63
APTIOM <sup>®</sup>	65	65	61	58	58
RETHYMIC <sup>®</sup>	5	14	3	11	11
LATUDA <sup>®</sup>	482	470	362	151	8
Export products, Lump-sum revenue, Others	108	98	41	33	37
Asia				(Billio	ns of yen)
MEROPEN <sup>®</sup> (China)	9.1	9.6	5.1	4.7	4.4
MEROPEN® (Southeast Asia)	0.8	0.5	0.9	8.0	2.3

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

-		•		•
Domestic	Establish- ment	Ownership	Number of employees	Businesses
Sumitomo Pharma Promo Co., Ltd.	1998/ 6	100%	34	Manufacturing and sales of pharmaceuticals, etc.
Overseas	Establish- ment	Ownership	Number of employees	Businesses
Sumitomo Pharma America Holdings, Inc.	2009/7	100%	152	Holding company, shared services for general management operations
Sunovion Pharmaceuticals Inc.	1984/ 1	100%	*545	Manufacturing and sales of pharmaceuticals
Sumitomo Pharma Oncology, Inc.	2006/11	100%	113	R&D in the oncology area
Sumitovant Biopharma, Inc.	2019/10	100%	97	Management of Sumitovant group companies, and formulation and promotion of business strategies, etc.
Myovant Sciences, Inc.	2016/4	100%	*487	Manufacturing and sales of pharmaceuticals in the women's health and prostate cancer area
Urovant Sciences, Inc.	2016/11	100%	*303	Manufacturing and sales of pharmaceuticals in the urology area
Enzyvant Therapeutics, Inc.	2015/3	100%	*71	R&D, manufacturing and sales of pharmaceuticals in the pediatric and respiratory rare diseases area
Spirovant Sciences, Inc.	2019/ 2	100%	*40	R&D in the cystic fibrosis gene therapy area
Sumitomo Pharma (Suzhou) Co., Ltd.	2003/12	100%	582	Manufacturing and sales of pharmaceuticals

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

Note: In July 2023, functions and human resources of seven U.S. group companies, Sunovion Pharmaceuticals Inc., Sumitomo Pharma America Holdings, Inc., Sumitomo Pharma Oncology, Inc., Sumitovant Biopharma, Inc., Myovant Sciences, Inc., Urovant Sciences, Inc., Enzyvant Therapeutics, Inc. are consolidated, and the company name of the remaining company, Sunovion Pharmaceuticals Inc. was changed to Sumitomo Pharma America, Inc.

# (Reference) Number of employees

	March 31	, 2022	March 31	, 2023	June 30,	2023
consolidated / non-consolidated	6,987	3,040	6,250	3,026	5,744	3,031
Number of MRs (include contract	ted MRs)					
Japan Exclude managers/Total	1,110	1,220	1,040	1,140	950	1,050
U.S. Exclude managers/Total	820	950	500	580	480	540
China Exclude managers/Total	340	420	270	340	270	340

# VIII. Development Pipeline (As of July 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

1. Psychiatry	& Neurology			
	Brand name/			Development
,	Product code	Proposed indication	Region	stage
,	Generic name)			
Small	SEP-363856	Schizophrenia	U.S.	Phase 3
molecule	(ulotaront)		Japan,	Phase 2/3
			China	
		Adjunctive major depressive	U.S.	Phase 2/3
		disorder (aMDD)		
		Generalized anxiety disorder	U.S.,	Phase 2/3
		(GAD)	Japan	
		Parkinson's disease psychosis	U.S.	Phase 2
	SEP-4199	Bipolar I depression	U.S.,	Phase 3
			Japan	
	LATUDA®	(New usage: pediatric)	Japan	Phase 3
	(lurasidone hydrochloride)	Schizophrenia		
	EPI-589	Parkinson's disease	U.S.	Phase 2
		Amyotrophic lateral sclerosis	U.S.	Phase 2
		(ALS)	Japan	Phase 2
				(Investigator-
				initiated study)
	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	Japan	Phase 1
		in Parkinson's disease		
	DSP-0187	Narcolepsy	Japan	Phase 1
	DSP-3456	Treatment resistant depression	U.S.	Phase 1
	DSP-0378	Dravet syndrome, Lennox-	Japan	Phase 1
		Gastaut syndrome		
	DSP-2342	To be determined	U.S.	Phase 1
Regenerative	CT1-DAP001/ DSP-1083	Parkinson's disease	Japan	Phase 1/2
medicine /	(Allogeneic iPS [induced			(Investigator-
cell therapy	pluripotent stem] cell-			initiated study)
	derived dopamine neural		U.S.	Preparing the
	progenitor cells)			start of clinical
				study

HLCR011	Retinal pigment epithelium tear Ja	apan Phase 1/2
(Allogeneic iPS cell-d	erived	
retinal pigment epithe	lial	
cells)		

2. Oncology

Brand name/				
Product code	Proposed indication	Region	gion Development stage	
(Generic name)				
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® (vibegron)	(New indication) Overactive bladder (OAB) in men with benign prostatic hyperplasia (BPH)	U.S.	Phase 3
vibegron	Overactive bladder (OAB)	China	Phase 3
SP-101	Cystic fibrosis	U.S.	Phase 1/2
KSP-1007	Complicated urinary tract infections and Complicated intra-abdominal infections	U.S.	Phase 1

[Main revisions since the announcement of May 2023]

Brand name/ Product code (Generic name)	Proposed indication	Region	Development stage	Changes
HLCR011 (Allogeneic iPS cellderived retinal pigment epithelial cells)	Retinal pigment epithelium tear	Japan	Phase 1/2	Development stage changed
rodatristat ethyl	Pulmonary arterial hypertension (PAH)	U.S.	Phase 2	Deleted from the table due to discontinuation of the study, development strategy under consideration
MVT-602	Female infertility	Germany	Phase 2	Deleted from the table due to discontinuation of the development

#### IX. Profiles of Major Products under Development (As of July 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

• 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. 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. The Food and Drug Administration (FDA) granted Breakthrough Therapy Designation for ulotaront for the indication of schizophrenia in May 2019.

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.

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

- SEP-4199 is a non-racemic ratio of amisulpride enantiomers. Former 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-HT<sub>7</sub> receptors relative to dopamine D<sub>2</sub> receptors. SEP-4199 was discovered with an 85:15 ratio of R-amisulpride to S-amisulpride to increase levels of serotonin 5-HT<sub>7</sub> activity intended to enhance antidepressant efficacy and produce reduced levels of D<sub>2</sub> 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-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.

# and PsychoGenics Inc.), Formulation: oral

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

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

- SEP-380135 is a novel CNS-active molecule. Former Sunovion discovered SEP-380135 in collaboration with PsychoGenics using its in vivo phenotypic SmartCube<sup>®</sup> 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<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.
- 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<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.
- 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**

Origin: in-house, Formulation: oral

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<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.
- Development stage: Dravet syndrome and Lennox-Gastaut syndrome: Phase 1 in Japan

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

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

#### (Regenerative medicine / cell therapy)

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

- 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.
- Development stage: Myelofibrosis: 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. The FDA granted Orphan Drug Designation for DSP-5336 for the indication of acute myeloid leukemia in June 2022.

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

#### **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 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 for DSP-0390 for the indication of brain cancer in May 2022.
- Development stage: Glioblastoma: Phase 1 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. 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.
- Development stage: Solid tumors: Phase 1 in the U.S.

# 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.

#### 3. 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.

Overactive bladder: Phase 3 in China

#### <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

- 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.
- Development stage: Cystic Fibrosis: Phase 1/2 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®). 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.
- 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 July 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.