Supplementary Financial Data for the Year Ended March 31, 2016

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May 11, 2016

Sumitomo Dainippon Pharma Co., Ltd.

- Forecasts provided in this document are based on the management's assumptions and beliefs, made in light of information available up to the day of announcement. Actual financial results may differ materially from those presented in this document, being dependent upon a number of factors.
- All values are rounded. Therefore totals may not be consistent with aggregated figures.

I. Consolidated Financial Highlights

1. Consolidated Statements of Income

(Billions of yen)

	1. Concomuted Clatements of Income						(=	5110 O. JOI11
		FY2014	FY2015	Change (%)	FY2016 AprSep. (Forecast)	Change (%)	FY2016 (Forecast)	Change (%)
Net s	ales	371.4	403.2	8.6	199.0	0.0	410.0	1.7
	Cost of sales	101.2	104.5	3.2	49.0	(5.9)	99.5	(4.8)
	SG&A expenses	246.9	261.8	6.1	134.0	3.1	270.5	3.3
	SG&A expenses less R&D costs	175.6	179.8	2.4	93.5	4.1	186.0	3.5
	R&D costs	71.3	82.0	15.0	40.5	0.7	84.5	3.0
Oper	ating income	23.3	36.9	58.7	16.0	(5.0)	40.0	8.3
Ordir	nary income	23.3	35.2	51.0	16.0	(8.6)	40.0	13.6
Net income attributable to owners of the parent		15.4	24.7	59.9	8.0	(39.5)	25.0	1.2

Notes 1: Cost of sales includes provision for (reversal of) reserve for sales returns.

2: Change (%) represent ratio of changes from the corresponding period of the previous year.

EBITDA (Billions of yen)	43.1	55.8	26.0	61.0
Earnings per share (yen)	38.88	62.16	20.14	62.92
Return on equity (ROE)	3.6%	5.5%	-	5.5%
Payout ratio	46.3%	29.0%	-	28.6%

2. Consolidated Statements of Cash Flows

(Billions of yen)

	FY2014	FY2015
Net cash provided by operating activities	30.3	49.4
Net cash provided by investing activities	23.4	15.9
Net cash used in financing activities	(15.7)	(42.6)
Cash and cash equivalents at the end of period	122.8	135.6

3. Currency Exchange Rates

(Billions of yen)

, ,	FY2	014	FY2015		FY2016		sensitivity /2016
	Fiscal year end rate	Average rate	Fiscal year end rate	Average rate	Assumed rate	(Impact of yen weakness by 1yen/USD)	
Yen / USD	120.2	109.8	112.6	120.2	110.0	Net Sales	2.0
Yen / RMB	19.4	17.7	17.4	18.9	17.0	Operating Income	(0.2)

Note: Net sales and Operating income in FY2015 increased by 17.1 billion yen and 1.5 billion yen respectively, compared to FY2014 due to exchange rate fluctuation.

4. Capital Expenditures

(Billions of yen)

	FY2014	FY2015	Change	FY	′2016
	FY2014	F12013	Change	Forecast	Change
Capital expenditures	9.7	7.4	(2.3)	10.0	2.6

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

Major capital expenditure projects completed in FY2015

Earthquake resistant repairment of research building No.2 in Osaka research center Total expenditures ¥1.6billion, completed in December 2015

Major capital expenditure project plan for FY2016

Establishment of cell production line in Regenerative & Cellular Medicine Center Total expenditures ¥2.7billion, to be completed in FY2017

5. Depreciation and Amortization

(Billions of yen)

o: Depressation and / infortization		<u> </u>				
	FY2014 FY2015		Change	FY2016		
	1 12014	1 12013	Change	Forecast	Change	
Property, plant and equipment	7.8	7.8	0.1	7.6	(0.2)	
Intangible assets	4.1	4.8	0.7	5.1	0.3	
Goodwill	5.4	6.0	0.5	6.1	0.1	

II. Consolidated Statements of (Comprehensive) Income

1. Consolidated Statements of Income

(Billions of yen)

			(=	on you	_
	FY2014	FY2015			
	(A)	(B)	(B)-(A)	Change (%)	∙Japan Segment (¥10.1B)
Net sales	371.4	403.2	31.8	8.6	•North America Segment ¥36.7B [FX rate impact ¥16.0B]
Overseas sales	174.9	215.1	40.1	23.0	∙China Segment ¥1.2B [FX rate impact ¥1.1B]
[% of net sales]	47.1%	53.3%			[17/1000 11/1000 11/102]
Cost of sales	101.2	104.5	3.2	3.2	
[% of net sales]	27.3%	25.9%			
Gross profit	270.1	298.7	28.6	10.6	
SG&A expenses	246.9	261.8	14.9	6.1	
Labor costs	70.6	77.3	6.7	9.5	• Due to weak yen and increase in North America
Advertising and promotion costs	28.8	27.0	(1.9)	(6.4)	◆ Due to decrease in North America
Sales promotion costs	13.0	14.1	1.0	8.0	
Other costs	63.1	61.5	(1.7)	(2.6)	
SG&A expenses less R&D costs	175.6	179.8	4.2	2.4	
R&D costs	71.3	82.0	10.7	15.0	◆ Due to increase in clinical
[% of net sales]	19.2%	20.3%			development expense in North America and weak yen
Operating income	23.3	36.9	13.7	58.7	
Non-operating income	4.2	3.2	(9.0)		
Non-operating expenses	4.1	4.9	8.0		
Ordinary income	23.3	35.2	11.9	51.0	
Extraordinary income	17.7	6.1	(11.6)		
Gain on sales of investment securities	_	6.1	6.1		Sale of listed stock (North America)
Gain on sales of property, plant and equipment	16.0	_	(16.0)		
Compensation income for damage	1.7	_	(1.7)		
Extraordinary loss	7.3	1.8	(5.5)		
Business structure improvement expenses	2.0	0.6	(1.3)		→ Retirement payments (Japan)
Loss on disposal of fixed assets	_	0.6	0.6		 Earthquake resistant repaiment of researc building No.2 in Osaka research center
Impairment loss	5.3	0.6	(4.8)		(Japan)
Income before income taxes	33.8	39.6	5.8	17.2	
Income taxes	18.3	14.9	(3.4)		
Net income	15.4	24.7	9.2	59.9	
Net income attributable to owners of the parent	15.4	24.7	9.2	59.9	

Notes 1: Cost of sales includes provision for (reversal of) reserve for sales returns.

2. Consolidated Statements of Comprehensive Income

	(BIIII	ons of yen)
	FY2014	FY2015
Net income	15.4	24.7
Other comprehensive income	44.7	(19.1)
Unrealized gains (losses) on available- for-sale securities, net of tax	5.9	2.2
Deferred gains or losses on hedges	0.0	(0.0)
Foreign currency translation adjustments	41.4	(20.0)
Remeasurements of defined benefit plans	(2.6)	(1.3)
Comprehensive income	60.1	5.6

^{2:} Overseas sales includes exports of non-Pharmaceutical products.

3. Segment Information (FY2015)

(Billions of yen)

Pharmaceuticals Business							
	Japan	North America	China	Other Regions	Subtotal	Other Business *2	Total
Net sales	146.6	184.9	18.4	11.2	361.1	42.1	403.2
Sales to customers	146.5	184.9	18.4	11.2	360.9	42.3	403.2
Intersegment	0.1	_	-	-	0.1	(0.1)	_
Cost of sales	45.8	16.0	2.8	6.1	70.6	33.8	104.5
Gross profit	100.8	168.9	15.6	5.1	290.4	8.3	298.7
SG&A expenses less R&D costs	59.3	103.8	7.6	2.6	173.3	6.5	179.8
Amortization included in above*1	_	5.8	1	l	5.8	_	5.8
Income (loss) of segment	41.5	65.2	8.0	2.4	117.1	1.8	119.0
R&D costs*3					81.1	0.9	82.0
Operating income			0.9	36.9			

Segment Information (FY2016 Forcasts)

(Billions of yen)

	,					(=	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
		Pharma		Other			
	Japan	North America*1	China	Other Regions	Subtotal	Business *2	Total
Net sales	137.6	200.7	16.0	11.8	366.1	43.9	410.0
Sales to customers	137.6	200.7	16.0	11.8	366.1	43.9	410.0
Intersegment	_	_	-	-	-	-	1
Cost of sales	45.4	11.0	2.8	5.0	64.2	35.3	99.5
Gross profit	92.2	189.7	13.2	6.8	301.9	8.6	310.5
SG&A expenses less R&D costs	57.8	110.0	8.1	3.5	179.4	6.6	186.0
Amortization included in above*1	_	9.4	-	-	9.4	-	9.4
Income (loss) of segment	34.4	79.7	5.1	3.3	122.5	2.0	124.5
R&D costs*3					83.5	1.0	84.5
Operating income			1.0	40.0			

Notes *1: Amortization of goodwill and patent rights, fair value change of contingent consideration liability

^{*2:} Including elimination of intersegment transaction.*3: R&D costs are controlled globally and not allocated to each segment.

4. Sales of Pharmaceuticals Business (Sales to customers)

(Billions of yen)

	FY2014 (A)	FY2015 (B)	(B)-(A)	Change (%)	FY2016 AprSep. (Forecasts)	FY2016 (Forecasts)
Japan	156.6	146.5	(10.1)	(6.4)	68.5	137.6
North America	148.2	184.9	36.7	24.8	94.2	200.7
China	17.1	18.4	1.2	7.2	8.3	16.0
Other Regions	8.8	11.2	2.4	27.4	6.9	11.8

5. Sales of Major Products

Japan(Strategic Products)

(Gross sales basis, Billions of yen)

Brand name (Generic name) Therapeutic indication	FY2014 (A)	FY2015 (B)	(B)-(A)	Change (%)	FY2016 AprSep. (Forecasts)	FY2016 (Forecasts)
AIMIX [®] (irbesartan/amlodipine) Therapeutic agent for hypertension (Launch: Dec. 2012)	12.0	14.9	3.0	25.0	7.9	16.1
AVAPRO® (irbesartan) Therapeutic agent for hypertension	11.4	10.8	(0.5)	(4.6)	4.8	9.3
LONASEN® (blonanserin) Atypical antipsychotic	11.5	12.6	1.1	10.0	6.9	13.8
TRERIEF® (zonisamide) Parkinson's disease drug	11.6	13.1	1.5	12.7	6.9	14.5

Japan (Other Products)

(Gross sales basis, Billions of yen)

,				`		, ,
SUREPOST® (repaglinide) Rapid-acting insulin secretagogue (Launch: May 2011)	2.4	3.6	1.2	48.3	2.2	4.6
AmBisome® (amphotericin B) Therapeutic agent for systemic fungal infection	4.3	4.3	0.0	0.6	2.2	4.3
REPLAGAL [®] (agalsidase alfa) Anderson-Fabry disease drug	9.7	10.2	0.5	5.3	5.2	10.5
METGLUCO® (metformin) Biguanide oral hypoglycemic	17.1	14.7	(2.4)	(13.8)	5.0	9.8
AMLODIN® (amlodipine) Therapeutic agent for hypertension and angina pectoris	19.6	16.4	(3.2)	(16.3)	6.4	12.2
GASMOTIN® (mosapride citrate) Gastroprokinetic	10.5	8.4	(2.1)	(19.8)	3.2	6.0
PRORENAL® (limaprost alfadex) Vasodilator	10.6	8.7	(1.9)	(17.8)	3.6	7.0
MEROPEN® (meropenem) Carbapenem antibiotic	7.9	6.2	(1.7)	(21.1)	2.4	4.5
EBASTEL® (ebastine) Antiallergic	3.9	3.1	(0.8)	(21.0)	1.1	2.5

North America (Billions of yen)

Brand name (Generic name) Therapeutic indication	FY2014 (A)	FY2015 (B)	(B)-(A)	Change (%)	FY2016 AprSep. (Forecasts)	FY2016 (Forecasts)
LATUDA [®] (lurasidone) Atypical antipsychotic (Launch: Feb. 2011)	82.5	120.4	37.9	45.9	61.4	126.7
APTIOM® (eslicarbazepine acetate) Antiepileptic (Launch: Apr. 2014)	2.5	7.6	5.1	200.0	6.0	13.7
BROVANA® (arformoterol tartrate) Long-acting beta-agonist	22.2	29.9	7.7	34.9	14.3	31.5
Ciclesonide * Inhaled corticosteroid / corticosteroid nasal spray	6.7	7.0	0.3	4.5	3.1	6.1
XOPENEX [®] (levalbuterol HCI) Short-acting beta-agonist	8.5	6.7	(1.8)	(21.6)	2.8	4.7
LUNESTA® (eszopiclone) Sedative hypnotic	11.5	4.6	(6.9)	(60.1)	1.5	2.9
Industrial property revenues	9.9	4.8	(5.0)	(51.1)	2.2	4.4

China (Billions of yen)

Brand name (Generic name)	FY2014 (A)	FY2015 (B)	(B)-(A)	Change (%)	FY2016 AprSep. (Forecasts)	FY2016 (Forecasts)
MEROPEN® (meropenem)	14.3	15.6	1.3	9.2	7.1	13.7

Other Regions (Billions of yen)

Brand name (Generic name)	FY2014 (A)	FY2015 (B)	(B)-(A)	Change (%)	FY2016 AprSep. (Forecasts)	FY2016 (Forecasts)
MEROPEN® (meropenem) (Export)	4.6	6.3	1.7	36.4	3.0	5.7
Industrial property revenues	0.3	1.1	0.7	210.0	3.0	4.0

(Reference) Sales of Products in North America Segment (based on local currency) (Millions of dollars)

Brand name (Generic name)	FY2014 (A)	FY2015 (B)	(B)-(A)	Change (%)	FY2016 AprSep. (Forecasts)	FY2016 (Forecasts)
LATUDA® (lurasidone)	752	1,002	250	33.3	558	1,152
APTIOM® (eslicarbazepine acetate)	23	64	40	174.0	54	124
BROVANA® (arformoterol tartrate)	202	249	47	23.2	130	286
Ciclesonide *	61	58	(3)	(4.6)	28	55
XOPENEX® (levalbuterol HCI)	78	56	(22)	(28.4)	25	43
LUNESTA® (eszopiclone)	105	38	(67)	(63.6)	13	26
Industrial property revenues	90	40	(50)	(55.3)	20	40

^{*} Total of 3 ciclesonide products (ALVESCO $^{\! \rm B}\!,$ OMNARIS $^{\! \rm B}\!,$ ZETONNA $^{\! \rm B}\!)$

III. Consolidated Balance Sheets

ASSETS

(Billions of yen)

		(Dillic	ilis oi yeii)	1
	As of Mar. 31, 2015 (A)	As of Mar. 31, 2016 (B)	(B)-(A)	
[Assets]	711.6	707.7	(3.9)	
Current assets:	401.7	421.6	19.9	
Cash and time deposits	30.6	54.9	24.4	←
Notes and accounts receivable	103.1	107.2	4.1	•Change of fund management method
Marketable securities	111.3	81.0	(30.3)	
Inventories	62.4	59.6	(2.8)	
Deferred tax assets	38.9	64.0	25.1∢	Increase in eliminated intercompany
Short-term loans receivable	49.1	48.4	(0.6)	profit on inventory
Others	6.6	6.5	(0.1)	
Allowance for doubtful receivables	(0.1)	0.0	0.1	
Fixed assets:	309.9	286.1	(23.8)	
Property, plant and equipment:	65.2	61.8	(3.3)	
Buildings and structures	41.4	40.3	(1.0)	
Machinery, equipment and carriers	9.1	7.8	(1.3)	
Land	6.3	6.3	(0.0)	
Construction in progress	1.2	1.5	0.3	
Others	7.2	5.9	(1.3)	
Intangible assets:	173.9	156.6	(17.3)	Amortization (¥6.0B)
Goodwill	88.1	77.0	(11.1)	Exchange rate (¥5.1B)
In-process research & development	64.5	60.1	(4.3)	
Others	21.3	19.5	(1.8)	Impairment (¥0.2B)
Investments and other assets:	70.9	67.7	(3.1)	
Investment securities	58.2	60.4	2.2	
Asset for retirement benefit	1.9	0.1	(1.9)	
Deferred tax assets	4.8	2.3	(2.5)	
Others	6.0	0.5	(1.0)	
Allowance for doubtful receivables	(0.0)	(0.0)	0.0	
Total assets	711.6	707.7	(3.9)	

Accounts receivable turnover period (in months)

3.33 3.19

LIABILITIES AND NET ASSETS

(Billions of yen)

		(,,,,,	-
	As of Mar. 31, 2015 (A)	As of Mar. 31, 2016 (B)	(B)-(A)	
[Liabilities]	260.6	261.2	0.7	
Current liabilities:	156.8	179.7	22.9	
Notes and accounts payable	12.5	12.2	(0.3)	
Short-term loans payable	_	1.0	1.0	
Current portion of bonds payable	30.0	10.0	(20.0)	Total interest-bearing debt 86.5→51.0
Current portion of long-term loans payable	6.5	12.0	5.5	[Redeemed bond (30.0)]
Income taxes payable	3.3	26.4	23.1	◆ ·Increse in volume and price in
Reserve for bonuses	9.4	10.8	1.4	intercompany trading of LATUDA®
Reserve for sales returns	8.6	9.1	0.5	
Reserve for sales rebates	36.4	49.2	12.9	◆ Increase in LATUDA® sales
Accounts payable-other	35.3	34.2	(1.0)	
Others	14.9	14.9	(0.1)	
Long-term liabilities:	103.7	81.5	(22.2)	
Bonds payable	30.0	20.0	(10.0)	
Long-term loans payable	20.0	8.0	(12.0)	
Deferred tax liabilities	17.4	16.2	(1.1)	
Liability for retirement benefit	15.3	16.2	0.9	
Others	21.1	21.2	0.1	
[Net assets]	451.0	446.5	(4.5)	
Shareholders' equity:	364.3	379.0	14.7	
Common stock	22.4	22.4	_	
Capital surplus	15.9	15.9	0.0	
Retained earnings	326.7	341.4	14.7	
Treasury stock	(0.7)	(0.7)	(0.0)	
Accumulated other comprehensive income (loss):	86.7	67.5	(19.3)	
Unrealized gains on available-for-sale securities, net of tax	23.1	25.3	2.2	
Deferred gains or losses on hedges	0.0	(0.0)	(0.0)	
Foreign currency translation adjustments	68.2	48.0	(20.1)	
Remeasurement of defined benefit plans	(4.5)	(5.8)	(1.3)	
Total liabilities and net assets	711.6	707.7	(3.9)	

IV. Quarterly Business Results

(Billions of yen)

		FY2	014		FY2015			10 01 y011 <u>j</u>
	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q
Net sales	89.7	88.5	100.8	92.2	98.1	100.8	105.6	98.7
Cost of sales	24.1	24.4	26.6	26.1	26.4	25.7	27.0	25.4
SG&A expenses	57.0	60.9	63.3	65.6	67.3	62.7	64.4	67.4
SG&A expenses less R&D costs	41.8	43.0	45.3	45.5	47.2	42.6	45.6	44.3
R&D costs	15.2	18.0	18.0	20.1	20.1	20.1	18.8	23.1
Operating income (loss)	8.7	3.3	10.9	0.5	4.4	12.4	14.2	5.8
Non-operating income	1.3	1.0	0.5	1.4	0.9	1.6	0.6	0.2
Non-operating expenses	0.5	1.1	1.6	1.0	0.6	1.3	1.2	1.9
Ordinary income (loss)	9.6	3.2	9.8	8.0	4.7	12.8	13.6	4.1
Extraordinary income	1.7	8.3	7.7	0.0	6.0	0.1	(0.0)	0.0
Extraordinary loss	0.1	0.5	5.3	1.4	0.2	0.0	0.1	1.5
Income (Loss) before income taxes	11.1	10.9	12.2	(0.5)	10.6	12.8	13.5	2.6
Net income (loss) attributable to owners of the parent	5.8	6.0	7.2	(3.5)	5.9	7.3	10.1	1.4

Note: Cost of sales includes provision for (reversal of) reserve for sales returns.

V. Major Consolidated Subsidiaries (As of March 31, 2016)

Domestic	DSP Gokyo Food & Chemical Co., Ltd.	DS Pharma Animal Health Co., Ltd.	DS Pharma Biomedical Co., Ltd.
Establishment	October 1947	July 2010	June 1998
Ownership	100%	100%	100%
Number of employees	164	102	59
Businesses	Manufacturing and sales of food ingredients, food additives, chemical product materials, etc.	Manufacturing, and sales of veterinary medicines, etc.	Manufacturing and sales of diagnostics, etc.

Overseas	Sunovion Pharmaceuticals Inc.	Boston Biomedical, Inc.	Sumitomo Pharmaceuticals (Suzhou) Co., Ltd.
Establishment	January 1984	November 2006	December 2003
Ownership	100%	100%	100%
Number of employees	1,620	101	635
Businesses	Manufacturing and sales of pharmaceuticals	R&D in the oncology area	Manufacturing and sales of pharmaceuticals

(Reference) Number of employees and MRs

		As of	As of	As of
		Mar. 31, 2014	Mar. 31, 2015	Mar. 31, 2016
cc	onsolidated	7,015	6,868	6,697
non	-consolidated	4,331	4,126	4,000
MRs Japan	(excluding managers)	1,400	1,350	1,300
	(including managers)	1,600	1,530	1,460
MRs U.S.	(excluding managers)	710	700	710
	(including managers)	810	800	810
MRs China	(excluding managers)	390	370	300
	(including managers)	480	470	370

VI. Shareholder Positioning (As of March 31, 2016)

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

2. Total number of shares outstanding: 397,900,154 (Including number of treasury stock 598,599)

3. Number of shareholders by category:

	Number of shareholders	Number of shares (Thousands)	Percentage of total (%)
Financial institutions	56	80,044	20.12
Securities companies	52	4,880	1.23
Other Japanese corporations	347	237,888	59.78
Corporations outside Japan, etc.	440	41,856	10.52
Individuals and others (Including treasury stock)	28,712	33,229	8.35
Total	29,607	397,900	100

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

4. Major shareholders:

	Status of ownership			
Shareholders	Number of shares held (Thousands)	Percentage of shareholding(%)		
Sumitomo Chemical Co., Ltd.	199,434	50.20		
Inabata & Co., Ltd.	27,282	6.87		
The Master Trust Bank of Japan, Ltd. (Trust account)	16,373	4.12		
Japan Trustee Services Bank, Ltd. (Trust account)	10,018	2.52		
Nippon Life Insurance Company	7,581	1.91		
Japan Trustee Services Bank, Ltd. (Trust account for Sumitomo Mitsui Banking Corporation's retirement benefits)	7,000	1.76		
Sumitomo Life Insurance Company	5,776	1.45		
Aioi Nissay Dowa Insurance Co., Ltd.	4,435	1.12		
NORTHERN TRUST CO. (AVFC) RE U.S. TAX EXEMPTED PENSION FUNDS	4,310	1.08		
Sumitomo Dainippon Pharma Employee shareholders' association	4,248	1.07		

Notes: *1: Percentage of shareholding is calculated excluding treasury stock (598,599 stocks).

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

VII. Development Pipeline (As of May 11, 2016)

■ Submitted

Stage	Brand name/ Product code Formulation	Generic name	Proposed indication	Origin	Country/ Area	Remarks
	Blonanserin Oral	blonanserin	Schizophrenia	In-house	China	Submitted in September 2013 Brand name in Japan: LONASEN®
Submitted	APTIOM [®] Oral	eslicarbazepine acetate	(New indication) Epilepsy (Monotherapy)	BIAL	Canada	Submitted in October 2014 Approved indication in the U.S.: Epilepsy (Adjunctive therapy / Monotherapy) Approved indication in Canada: Epilepsy (Adjunctive therapy)
	SM-13496 Oral	lurasidone hydrochloride	Schizophrenia	In-house	China	Submitted in December 2015 Approved in the U.S., Canada, Europe and Australia

■ Phase III (1/2)

Stage	Brand name/ Product code Formulation	Generic name	Proposed indication	Origin	Country/ Area	Remarks
			Schizophrenia			Approved in the U.S., Canada, Europe, Australia and Taiwan
Phase III	SM-13496 Oral		Bipolar I depression	In-house	Japan	Approved in the U.S. and Canada
			Bipolar maintenance			

■ Phase III (2/2)

Stage	Brand name/ Product code Formulation	Generic name	Proposed indication	Origin	Country/ Area	Remarks
			Colorectal cancer (Monotherapy)		U.S., Canada, Japan, etc.	Global clinical trial Further enrollment of new patients was stopped and all patients discontinued study therapy in May 2014
	BBI608 Oral	napabucasin	Gastric and Gastro-esophag eal junction adenocarcinoma (Combination therapy)	In-house	U.S., Canada, Japan, etc.	Global clinical trial
			Colorectal cancer (Combination therapy)		U.S.	Global clinical trial
Phase III	SEP-225289 Oral	dasotraline	Adult attention-deficit hyperactivity disorder (ADHD)	In-house	U.S.	
	SUN-101 Inhalant	glycopyrronium bromide	Chronic obstructive pulmonary disease (COPD)	In-house	U.S.	From the former Elevation Pharmaceuticals
	LONASEN [®] Oral		(Addition of pediatric usage) Schizophrenia			
	LONASEN [®] Transdermal Patch	blonanserin	(New formulation – Transdermal patch) Schizophrenia	In-house	Japan	Joint development with Nitto Denko Approved formulation: Oral
	TRERIEF [®] Oral	zonisamide	(New indication) Parkinsonism in Dementia with Lewy Bodies (DLB)	In-house	Japan	

■ Phase II / III

Stage	Brand name/ Product code Formulation	Generic name	Proposed indication	Origin	Country/ Area	Remarks
	EPI-743 Oral	vatiquinone	Leigh syndrome	Edison Pharma- ceuticals	Japan	Phase II / III study completed, development strategy under consideration
Phase II/III	SEP-225289 Oral	dasotraline	Pediatric attention-deficit hyperactivity disorder (ADHD) Binge eating disorder (BED)	In-house	U.S.	

■ Phase II

Stage	Brand name/ Product code Formulation	Generic name	Proposed indication	Origin	Country/ Area	Remarks
	BBI608 Oral	napabucasin	Colorectal cancer (Combination therapy)	In-house	U.S., Canada	
	DSP-1747 Oral	obeticholic acid	Nonalcoholic steatohepatitis (NASH)	Intercept Pharma- ceuticals	Japan	
	DSP-6952 Oral	TBD	IBS with constipation, Chronic idiopathic constipation	In-house	Japan	
			Renal cell carcinoma, Urothelial carcinoma (Monotherapy)		Canada	
Phase II	BBI503 Oral		Hepatocellular carcinoma, Cholangio carcinoma (Monotherapy)	In-house		
			Gastrointestinal stromal tumor (Monotherapy)			
			Ovarian cancer (Monotherapy)		U.S.	
	SB623 Injection	TBD	Chronic Stroke	SanBio	U.S.	Joint development with SanBio
	EPI-589		Parkinson disease	Edison Pharma- ceuticals	U.S.	Conducted by
	Oral	TBD	Amyotrophic lateral sclerosis (ALS)		U.S.	Edison

■ Phase I / II

Stage	Brand name/ Product code Formulation	Generic name	Proposed indication	Origin	Country/ Area	Remarks
			Solid tumors (Combination therapy)		U.S., Canada	Phase II: Ovarian cancer, Breast cancer, Non-small cell lung cancer, Melanoma, etc.
	BBI608		Malignant pleural mesothelioma (Combination therapy)		Japan	Phase II
	Oral	napabucasin	Hepatocellular carcinoma (Combination therapy)	In-house	U.S.	
			Glioblastoma (Combination therapy)		Canada	
			Solid tumors (Combination therapy)		U.S.	
Phase I/II	Phase I/II BBI503 Oral		Solid tumors (Monotherapy)		U.S., Canada	Phase II: Colorectal cancer, Head and Neck cancer, Ovarian cancer, etc.
			Hepatocellular carcinoma (Combination therapy)	In-house	U.S.	
			Solid tumors (Combination therapy)		U.S., Canada	
	DSP-7888	DSP-7888 TBD -	Myelodysplastic syndromes	In house	lanan	Phase II
			Pediatric malignant glioma	In-house	Japan	
	WT4869 Injection	TBD	Myelodysplastic syndromes	Joint research with Chugai Pharma- ceutical	Japan	Independent development after April 2013

■ Phase I (1/2)

Stage	Brand name/ Product code Formulation	Generic name	Proposed indication	Origin	Country/ Area	Remarks
	WT4869 Injection	TBD	Solid tumors	Joint research with Chugai Pharma- ceutical	Japan	Independent development after April 2013
	WT2725 Injection	TBD	Solid tumors, Hematologic malignancies	Joint research with Chugai Pharma-	U.S.	Independent development
	,		Solid tumors	ceutical	Japan	after April 2013
	DSP-2230 Oral	TBD	Neuropathic pain	In-house	U.K., U.S., Japan	
	SEP-363856 Oral	TBD	Schizophrenia	In-house	U.S.	
Phase I		BBI608 Oral napabucasin	Gastrointestinal cancer (Combination therapy)	In-house	U.S., Canada	
			Pancreatic cancer (Combination therapy)			
			Hematologic malignancies (Monotherapy / Combination therapy)		U.S.	
			Hepatocellular carcinoma (Combination therapy)		Japan	
			Colorectal cancer (Combination therapy)		σαραιι	
	DSP-3748 Oral	TBD	Cognitive impairment associated with schizophrenia	In-house	U.S.	

■ Phase I (2/2)

Stage	Brand name/ Product code Formulation	Generic name	Proposed indication	Origin	Country/ Area	Remarks
	BBI503 Oral	amcasertib	Solid tumors (Monotherapy), Hepatocellular carcinoma (Combination therapy)	In-house	Japan	
Phase I	BBI608+BBI503 Oral	-	Solid tumors (Combination therapy)	In-house	U.S.	
	DSP-7888 Injection	TBD	Solid tumors, Hematologic malignancies	In-house	U.S.	
	DSP-1200 Oral	TBD	Treatment- resistant depression	In-house	U.S.	

[Main revisions since the announcement of January 2016]

DSP-7888 (Pediatric malignant glioma)
DSP-1200 (Treatment-resistant depression)
Amrubicin hydrochloride (Small cell lung cancer)

Ranirestat (Diabetic neuropathy)

Newly added in Phase I / II in Japan Newly added in Phase I in the U.S. Deleted due to the receipt of "not approval" notification in China Deleted due to discontinued development in Japan

Major Products under Development by Licensees

Generic / Product code (Brand name in JPN)	Proposed indications	Status of development
vosaroxin AG-7352	Cancer	Out-licensed to Sunesis Pharmaceuticals Inc. for the worldwide territory in October 2003. Multinational Phase III study completed by Sunesis (Sunesis' product code: SNS-595) in October 2014. Sunesis submitted an MAA in Europe for Acute Myeloid Leukemia (AML) in December 2015.
amrubicin hydrochloride (CALSED®)	Small cell lung cancer	Out-licensed to Celgene (former Pharmion) for the U.S. and European territories in June 2005. Phase III study completed in the U.S. and Europe by Celgene.
lurasidone hydrochloride SM-13496	Schizophrenia Bipolar disorder	Out-licensed to Daiichi Sankyo for rights or option rights for commercialization in four South American countries to commercialize in January 2014. Daiichi Sankyo submitted an NDA in Venezuela for schizophrenia in December 2014. Entered into a distribution, marketing and sales agreement with DKSH Thailand for Thailand, Hong Kong and Singapore in January 2015. DKSH submitted an NDA for schizophrenia in Thailand in November 2014, in Hong Kong in December 2014, in Singapore in April 2015. Daiichi Sankyo submitted an NDA in Brazil for schizophrenia and biplolar I depression in September 2015

[Main revisions since the announcement of January 2016]

Europe: Deleted from the list due to the termination of the alliance with Takeda Pharmaceutical
(The agreement was terminated as of January 31st, 2016)
Taiwan: Deleted from the list since Standard Chem. & Pharm.
obtained the approval for schizophrenia in March 2016.
Deleted from the list since Nippon Shinyaku discontinued the

development

VIII. Profile of Major Products under Development (As of May 11, 2016)

LATUDA® (lurasidone hydrochloride) Atypical antipsychotic

- Developed in-house
- LATUDA[®] (lurasidone hydrochloride) is an atypical antipsychotic agent that is believed to have an affinity for dopamine D₂, serotonin 5-HT_{2A} and serotonin 5-HT₇ receptors where it has antagonist effects. In addition, LATUDA is a partial agonist at the serotonin 5-HT_{1A} receptor and has no appreciable affinity for histamine or muscarinic receptors.
- For the treatment of schizophrenia, LATUDA was approved in the U.S. in October 2010, in Canada in June 2012, in Switzerland in August 2013, in Europe and Australia in March 2014, in Taiwan in March 2016.

For the treatment of bipolar I depression, LATUDA was approved as the first atypical antipsychotic indicated for the treatment of bipolar I depression as a monotherapy and as an adjunctive therapy to lithium or valproate in the U.S. in June 2013. In addition, LATUDA was approved in Canada in March 2014.

Development stage:

Stage	Proposed indication	Country, Area	Partners	
Submitted	Schizophrenia	Thailand, Hong Kong, Singapore	DKSH	
	Schizophrenia	Venezuela		
	Schizophrenia,	Brazil	Daiichi Sankyo	
	Bipolar I depression	DI dZII		
	Schizophrenia	Russia, Turkey		
	Schizophrenia	China		
Phase III	Schizophrenia	Japan	In-house	
	Bipolar I depression,	lanan		
	Bipolar maintenance	Japan		

napabucasin (BBI608) Cancer

- Developed in-house (Boston Biomedical, Inc.)
- BBI608 is an orally administered small molecule investigational agent that targets Stat3, leading to inhibition of the critical genes for maintaining cancer stemness. By targeting cancer stem cell pathways, it may provide a new therapeutic option against cancer challenges such as treatment resistance, recurrence and metastasis.
- BBI608 has been shown to inhibit the Stat3 pathways, Nanog pathways and β-catenin pathways in the pre-clinical studies.
- Development stage:

Stage	Proposed indication	Country, Area	Combination products	Study number
Phase III	Colorectal cancer (monotherapy)	U.S., Canada, Japan, etc.	-	CO.23
	Gastric and Gastro-esophageal junction adenocarcinoma (combination therapy)	U.S., Canada, Japan, etc.	Paclitaxel	336 (BRIGHTER)
	Colorectal cancer (combination therapy)	U.S.	FOLFIRI ^{*3} , FOLFIRI ^{*3} + bevacizumab	303CRC
Phase II	Colorectal cancer (combination therapy)	U.S., Canada	cetuximab, panitumumab, capecitabine	224

Stage	Proposed indication	Country, Area	Combination products	Study number
Phase I / II	Solid tumors ^{*2} (combination therapy)	U.S., Canada	Paclitaxel	201
	Malignant pleural mesothelioma (combination therapy)	Japan	cisplatin + pemetrexed	D8807005
	Hepatocellular carcinoma (combination therapy)	U.S.	Sorafenib	HCC-103
	Glioblastoma (combination therapy)	Canada	Temozolomide	251
	Solid tumors (combination therapy)	U.S.	ipilimumab, pembrolizumab, nivolumab	201CIT
Phase I	Gastrointestinal cancer (combination therapy)	U.S., Canada	FOLFOX*3, FOLFOX*3 + bevacizumab, CAPOX*3, FOLFIRI*3, FOLFIRI*3 + bevacizumab, regorafenib, irinotecan	246
	Pancreatic cancer (combination therapy)	U.S.	gemcitabine + nab-paclitaxel, FOLFIRINOX*3, FOLFIRI, irinotecan liposome injection + fluorouracil + leucovorin	118
	Hematologic malignancies (monotherapy / combination therapy)	U.S.	dexamethasone, bortezomib, imatinib, ibrutinib	103HEME
	Hepatocellular carcinoma (combination therapy)	Japan	Sorafenib	D8808001
	Solid tumors (combination therapy)	U.S.	Amcasertib	401-101
	Colorectal cancer (combination therapy)	Japan	FOLFIRI*3 + bevacizumab	D8809001

^{*1} Further enrollment of new patients was stopped and all patients discontinued study therapy in May 2014.

CAPOX: Combination therapy with capecitabine, oxaliplatin

FOLFIRI: Combination therapy with fluorouracil, leucovorin, irinotecan

FOLFIRINOX: Combination therapy with fluorouracil, leucovorin, irinotecan, oxaliplatin

dasotraline (SEP-225289) Attention-deficit hyperactivity disorder (ADHD), Binge eating disorder (BED)

- Developed in-house (Sunovion Pharmaceuticals Inc.)
- SEP-225289 is a new chemical entity that is a dopamine and norepinephrine reuptake inhibitor (DNRI). SEP-225289 has an extended half-life (47-77 hours) that supports the potential for plasma concentrations yielding a continuous therapeutic effect by dosing at 24-hour intervals.
- Development stage:

Adult attention-deficit hyperactivity disorder (ADHD): Phase III in the U.S.

Pediatric attention-deficit hyperactivity disorder (ADHD): Phase II/III in the U.S.

Binge eating disorder (BED): Phase II/III in the U.S.

^{*2} Phase II: Ovarian cancer, Brest cancer, Non-small cell lung cancer, Melanoma, etc.

^{*3} FOLFOX: Combination therapy with fluorouracil, leucovorin, oxaliplatin

glycopyrronium bromide (SUN-101) Chronic obstructive pulmonary disease (COPD)

- Developed in-house (Sunovion Pharmaceuticals Inc.)
- SUN-101 is an inhalation solution of a long-acting muscarinic antagonist (LAMA) bronchodilator delivered via the Pari eFlow[®] nebulizer system, which is portable and able to deliver medication in approximately two minutes utilizing a vibrating membrane. Currently, there are no LAMAs delivered via nebulizer that are approved by the U.S. Food and Drug Administration (FDA). SUN-101 is a nebulizer delivered LAMA for COPD at the most advanced development stage.
- Development stage: Phase III in the U.S.

vatiquinone (EPI-743) Mitochondrial disease

- In-licensed from Edison Pharmaceuticals
- EPI-743 is for synchronizing energy generation in the mitochondria with the counterbalancing of redox stress. It is expected to be the world's first treatment for mitochondrial diseases beginning with Leigh syndrome.
- Development stage:
 A Phase II/III study for Leigh syndrome in Japan completed, development strategy under consideration

obeticholic acid (DSP-1747) Nonalcoholic steatohepatitis (NASH), Primary biliary cholangitis (PBC)

- In-licensed from Intercept Pharmaceuticals Inc. (Intercept's product code: INT-747)
- DSP-1747 is an agonist for farnesoid X receptor (FXR) whose ligand is the primary human bile acid chenodeoxycholic acid, the natural endogenous FXR agonist. The compound is expected to be effective for hepatic dysfunction and hepatic fibrosis associated with an increase of bile acid in the liver.
- Development stage: Phase II in Japan for NASH. Phase II for PBC is under consideration.

DSP-6952 IBS with constipation, Chronic idiopathic constipation

- Developed in-house
- DSP-6952 is a high-affinity serotonin-4 receptor partial agonist with enterokinetic effect. DSP-6952 is expected to be effective for IBS with constipation and chronic idiopathic constipation by increasing complete spontaneous bowel movement.
- Development stage: Phase II in Japan

amcasertib (BBI503) Cancer

- Developed in-house (Boston Biomedical, Inc.)
- BBI503 is an orally administered small-molecule investigational agent designed to inhibit Nanog and other cancer stem cell pathways by targeting kinases. By targeting cancer stem cell pathways, it may provide a new therapeutic option against cancer challenges such as treatment resistance, recurrence and metastasis.
- BBI503 has been shown to inhibit multi-kinase in pre-clinical studies.
- Development stage:

Stage	Proposed indication	Country, Area	Combination products	Study number
Phase II	Renal cell carcinoma, Urothelial carcinoma (monotherapy)	Canada	-	205a
	Hepatocellular carcinoma, Cholangiocarcinoma (monotherapy)	Canada	-	205b
	Gastrointestinal stromal tumor (monotherapy)	Canada	-	205c
	Ovarian cancer (monotherapy)	U.S.	-	205GYN-M

Stage	Proposed indication	Country, Area	Combination products	Study number
Phase I / II	Solid tumors [*] (monotherapy)	U.S., Canada	-	101
	Hepatocellular carcinoma (combination therapy)	U.S.	sorafenib	HCC-103
	Solid tumors (combination therapy)	U.S., Canada	capecitabine, doxorubicin, nivolumab, pembrolizumab, paclitaxel, sunitinib	201
Phase I	Solid tumors (monotherapy), Hepatocellular carcinoma (combination therapy)	Japan	sorafenib	DA101003
	Solid tumors (combination therapy)	U.S.	napabucasin	401-101

^{*} Phase II: Colorectal cancer, Head and Neck cancer, Ovarian cancer, etc.

SB623 Stroke

- In-licensed from SanBio and joint development with SanBio
- SB623 is an allogeneic cell product, derived from bone marrow stromal cells isolated from healthy donors. Unlike autologous cell therapy, which requires individualized cell preparation at the health care institution, SB623 production can be scaled up from a single donor's cells, enabling delivery of uniform-quality products to a large number of stroke patients.
- Development stage: Phase II in the U.S.

EPI-589 Neurodegenerative diseases

- In-licensed from Edison Pharmaceuticals
- EPI-589 is for synchronizing energy generation in the mitochondria with the counterbalancing of redox stress. It is expected to be developed for neurodegenerative indications arising through redox stress.
- Development stage:

Parkinson disease: Phase II in the U.S. by Edison Pharmaceuticals

Amyotrophic lateral sclerosis (ALS): Phase II in the U.S. by Edison Pharmaceuticals

DSP-7888 Cancer

- Developed in-house
- DSP-7888 is a therapeutic cancer peptide vaccine candidate derived from Wilms' tumor gene 1 (WT1) protein. DSP-7888 is a novel peptide vaccine candidate containing peptides that induces WT1-specific cytotoxic T lymphocytes (CTLs) and helper T cells. DSP-7888 is expected to become a treatment option for patients with various types of hematologic malignancies and solid tumors that express WT1, by inducing of WT1-specific CTLs that attack WT1-expressing cancers cells. By adding a helper T cell-inducing peptide, stronger efficacy is expected than for a CTL-inducing peptide alone. DSP-7888 is expected to be a treatment option for a wide range of patients.
- Development stage:

Myelodysplastic syndromes (MDS): Phase I/II in Japan

Solid tumors, Hematologic malignancies: Phase I in the U.S.

Pediatric malignant glioma: Phase I/II in Japan

WT4869 Cancer

- Developed in-house (Joint research with Chugai Pharmaceutical)
- WT4869 is a therapeutic cancer peptide vaccine candidate derived from Wilms' tumor gene 1 (WT1) protein. WT4869 is expected to treat various types of hematologic malignancies and solid tumors that express WT1, by inducing WT1-specific cytotoxic T-lymphocytes that attack WT1-expressing cancerous cells.
- Development stage:

Myelodysplastic syndromes (MDS): Phase I/II in Japan

Solid tumors: Phase I in Japan

DSP-2230 Neuropathic pain

Developed in-house

- DSP-2230 is a novel compound that selectively inhibits voltage-gated sodium channels Nav1.7 and Nav1.8 with higher potencies than those against the other sodium channel subtypes studied. In addition, DSP-2230 has demonstrated antiallodynic effects in animal models of neuropathic pain that have been shown to be predictive of efficacy in humans. Due to its novel mechanism, DSP-2230 is expected not to produce CV or CNS side effects, which are present with the current drugs, such as non-selective sodium channel blockers and anti-epilepsy medicines.
- Development stage: Phase I in the U.K., the U.S. and Japan

WT2725 Cancer

- Developed in-house (Joint research with Chugai Pharmaceutical)
- WT2725 is a therapeutic cancer peptide vaccine candidate derived from Wilms' tumor gene 1 (WT1) protein. WT2725 is expected to treat various types of hematologic malignancies and solid tumors that express WT1, by inducing WT1-specific cytotoxic T-lymphocytes that attack WT1-expressing cancerous cells.
- Development stage:

Solid tumors, Hematologic malignancies: Phase I in the U.S.

Solid tumors: Phase I in Japan

SEP-363856 Schizophrenia

- Developed in-house (Sunovion Pharmaceuticals Inc.)
- SEP-363856 is an antipsychotic with a novel mechanism of action. In addition to having the efficacy
 for positive symptoms, SEP-363856 has efficacy for negative symptoms in the pre-clinical model
 where existing antipsychotics don't show efficacy. Even in combination treatment with atypical
 antipsychotics, extrapyramidal side effects were not exacerbated. High efficacy and improved QOL
 are expected for the treatment for schizophrenia.
- Development stage: Phase I in the U.S.

DSP-3748 Cognitive impairment associated with schizophrenia (CIAS)

- Developed in-house
- DSP-3748 is a positive allosteric modulator (PAM) of α7-type nicotinic acetylcholine receptor (α7nAChR). DSP-3748 is expected to treat patients with cognitive impairment associated with schizophrenia (CIAS) by enhancing the ACh transmission via α7nAChR. DSP-3748 is expected to cause less desensitization compared with a conventional agonist.
- Development stage: Phase I in the U.S.

DSP-1200 Treatment-resistant depression

- Developed in-house
- DSP-1200 is a new chemical entity which acts as a dopamine D₂, serotonin 5-HT_{2A} and adrenergic α2A receptors antagonist. DSP-1200 is expected to enhance acetylcholine, dopamine, and noradrenaline release in prefrontal cortex, which would provide improvement of depressive symptoms and cognitive function. DSP-1200 may have fewer safety concerns compared with marketed antipsychotics, because it has low or negligible affinities for receptors associated with safety profile.
- Development stage: Phase I in the U.S.