

Kyowa Hakko Kirin Co., Ltd.

Appendix to the Consolidated Financial Summary (IFRS)
Fiscal 2018 Interim

(January 1, 2018 - June 30, 2018)

[•] These materials were made as a supplement to the Kessan Tanshin (Consolidated Financial Summary, IFRS), disclosed at the Tokyo Stock Exchange on July 31, 2018 for the first six months of Fiscal 2018, from January 1, 2018 to June 30, 2018.

This document is an English translation of parts of the Japanese-language original. The statements, including earnings
forecasts, contained in these materials are based on the information currently available to the Company and on certain
assumptions deemed to be reasonable by management. As such, they do not constitute guarantees by the Company of
future performance. Actual results may differ materially from these projections for a wide variety of reasons.

[•] Figures presented in these materials have been rounded to the nearest tenth.

[·] Figures inside parenthesis presented in these materials indicate negative values.

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The average exchange rates for each period were as follows:

Unit: Yen

	FY 2	2017	FY 2018	FY 2018
	res	ults	results	forecasts
	Jan - Jun	Jan - Dec	Jan - Jun	Jan - Dec
USD	113	112	109	110
EUR	122	126	132	130
GBP	142 144		151	150

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I. Consolidated Financial Results (IFRS)

1. Trends in consolidated profit

Unit: Billions of yen

	FY 2017	results	FY 2018	3 results	FY 2018 forecasts		
	Jan - Jun	Jan - Dec	Jan - Jun	Change amount	Jan - Dec	%	
Revenue	177.0	353.4	172.1	(4.9)	335.0	95%	
Cost of sales	(66.0)	(129.1)	(60.2)	5.9	(114.0)	88%	
Gross profit	111.0	224.3	112.0	1.0	221.0	99%	
Selling, general and administrative expenses	(54.2)	(113.0)	(57.7)	(3.5)	(117.0)	104%	
Research and development expenses	(24.3)	(49.2)	(23.1)	1.3	(49.5)	101%	
Share of profit (loss) of investments accounted for using equity method	(2.4)	(4.5)	0.9	3.3	(3.5)	78%	
Core operating profit	30.1	57.7	32.1	2.0	51.0	88%	
Other income	1.0	6.6	14.7	13.7			
Other expenses	(2.1)	(8.4)	(0.7)	1.3			
Finance income (costs)	0.0	(0.1)	(0.4)	(0.5)			
Profit before tax	29.1	55.8	45.7	16.6	61.0	109%	
Income tax expense	(8.7)	(13.0)	(11.4)	(2.7)			
Profit	20.3	42.9	34.3	13.9	44.0	103%	
EPS (¥/share)	37.18	78.38	62.61	25.43	80.39	-	
Annual dividend (¥/share)		27.00			30.00	-	
Dividend payout ratio (%)		34.4			37.3	-	
ROE (%)		7.2				-	

^{* &}quot;FY 2018 forecasts" have not been revised from the consolidated earnings forecasts released on February 8, 2018.

2. Revenue by geographic region

Unit: Billions of yen

							Grine Billione et yen		
			FY 2017 results		FY 2018	3 results	FY 2018	forecasts	
		Jan - Jun	Jan - Dec	Percentage of consolidated revenue	Jan - Jun	Percentage of consolidated revenue	Jan - Dec	Percentage of consolidated revenue	
Japan		120.6	240.9	68.2%	111.6	64.8%	221.2	66.0%	
International		56.4	112.5	31.8%	60.5	35.2%	113.8	34.0%	
	Americas	12.2	24.7	7.0%	15.6	9.1%	29.7	8.9%	
	Europe	28.9	56.0	15.8%	28.7	16.7%	55.2	16.5%	
	Asia	14.9	30.2	8.6%	15.8	9.2%	28.0	8.3%	
	Others	0.4	1.6	0.5%	0.4	0.2%	0.9	0.3%	
Total consolidated revenue		177.0	353.4	100%	172.1	100%	335.0	100%	

 $^{^{\}star}$ Revenue is classified by region or country based on location of customer.



3. Other trends

(1) Research and development expenses

Unit: Billions of yen

	Research and development (R&D) expenses R&D expenses to revenue ratio	FY 2017	results	FY 2018 results	FY 2018 forecasts
		Jan - Jun	Jan - Dec	Jan - Jun	Jan - Dec
Research and development (R&D) expenses		24.4	49.2	23.1	49.5
R&D exper	R&D expenses to revenue ratio		13.9%	13.4%	14.8%
	Pharmaceuticals	22.8	46.1	21.6	46.5
	R&D expenses to revenue ratio	16.5%	16.7%	16.1%	17.7%
	Bio-Chemicals	1.6	3.1	1.5	3.0

(2) Capital expenditures (property, plant and equipment)

Unit: Billions of yen

		FY 2017	results	FY 2018 results	FY 2018 forecasts	
		Jan - Jun	Jan - Dec	Jan - Jun	Jan - Dec	
Capital ex	Capital expenditures		14.3	5.0	12.5	
	Pharmaceuticals	4.1	6.6	1.8	5.3	
	Bio-Chemicals	2.6	7.7	3.2	7.2	

(3) Depreciation and amortization (property, plant and equipment and intangible assets)

Unit: Billions of yen

<u> </u>	1 1 371 1 1		,			
		FY 2017	results	FY 2018 results	FY 2018 forecasts	
		Jan - Jun	Jan - Dec	Jan - Jun	Jan - Dec	
Depreciation and amortization Amortization of intangible assets		10.9 3.9	22.0 7.8	10.5 <i>4.2</i>	24.6 9.1	
	Pharmaceuticals Amortization of intangible assets	7.5 3.8	15.3 7.7	7.7 4.2	17.3 9.1	
	Bio-Chemicals	3.3	6.7	2.8	7.3	

II. Consolidated Statement of Cash Flows (IFRS)

Cash reserves at end of period

Unit: Billions of yen

	FY 2017	⁷ results	FY 2018 results		
	Jan - Jun	Jan - Dec	Jan - Jun	Change amount	
Cash flows from operating activities	32.0	64.9	29.8	(2.3)	
Cash flows from investing activities	(23.1)	(45.3)	(23.0)	0.1	
Cash flows from financing activities	(6.9)	(18.3)	(8.4)	(1.5)	
Effect of exchange rate changes on cash and cash equivalents	0.8	1.3	(0.6)	(1.4)	
Net increase (decrease) in cash and cash equivalents	2.8	2.7	(2.2)	(4.9)	
Transfer to assets held for sale	-	(1.1)	1.1	1.1	
Cash and cash equivalents at beginning of period	13.1	13.1	14.7	1.6	
Cash and cash equivalents at end of period*	15.8	14.7	13.6	(2.3)	

* Cash reserves at end of period				_
Cash and cash equivalents at end of period	15.8	14.7	13.6	(2.3)
+ Loans receivable from parent in excess of three months	128.0	143.2	172.4	44.4
+ Time deposits whose maturity periods exceed three months	0.0	0.0	0.0	(0.0)

143.8

157.9

186.0



III. Core Operating Profit or Loss by Segment (IFRS)

1. Pharmaceuticals segment

Unit: Billions of yen

				FY 2017	results	FY 2018 res	sults	FY 2018 fore	FY 2018 forecasts		
				Jan - Jun	Jan - Dec	Jan - Jun	Change amount	Jan - Dec	%		
Rev	enu	ie		138.0	275.8	134.3	(3.6)	262.0	95%		
Ī	Rev	enue from exter	nal customers	137.5	274.8	133.8	(3.7)	261.0	95%		
		Japan		99.2	197.8	90.8	(8.4)	181.0	91%		
		International		38.3	76.9	43.0	4.7	80.0	104%		
			International revenue ratio	28%	28%	32%	-	31%	-		
		Ame	ericas	7.2	15.0	10.8	3.7	20.8	138%		
		Euro	ope	21.7	41.5	21.5	(0.1)	39.8	96%		
		Asia	a	9.2	19.6	10.5	1.3	18.8	96%		
		Othe	ers	0.2	0.8	0.1	(0.1)	0.6	82%		
Ī	Inte	r-segment reven	nue	0.5	1.0	0.6	0.1	1.0	101%		
Cos	t of	sales		(40.6)	(79.1)	(37.0)	3.6	(70.0)	89%		
Gro	ss p	profit		97.4	196.7	97.4	0.0	192.0	98%		
Se	Selling, general and administrative expenses		dministrative expenses	(45.4)	(95.5)	(48.3)	(2.9)	(99.0)	104%		
Re	tesearch and development expenses		(22.8)	(46.1)	(21.6)	1.2	(46.5)	101%			
		of profit (loss) on the of profit (loss) on the office of		(2.4)	(4.5)	0.9	3.3	(3.5)	78%		
Cor	e op	perating profit		26.8	50.5	28.4	1.6	43.0	85%		

^{*} Revenue is classified by region or country based on location of customer.

2. Bio-Chemicals segment

Unit: Billions of yen

				FY 2017	' results	FY 2018 res	ults	FY 2018 fored	casts
				Jan - Jun	Jan - Dec	Jan - Jun	Change amount	Jan - Dec	%
R	even	nue		40.8	81.1	39.3	(1.5)	76.0	94%
	Re	venue from	external customers	39.5	78.6	38.3	(1.2)	74.0	94%
		Japan		21.4	43.0	20.7	(0.7)	40.2	93%
		Internation	al	18.1	35.6	17.6	(0.5)	33.8	95%
			International revenue ratio	46%	45%	46%	-	46%	-
			Americas	5.0	9.7	4.8	(0.2)	9.0	93%
			Europe	7.2	14.4	7.2	0.0	15.4	107%
			Asia	5.7	10.7	5.3	(0.4)	9.2	86%
			Others	0.2	0.8	0.3	0.1	0.3	32%
	Inte	er-segment	revenue	1.3	2.5	0.9	(0.4)	2.0	79%
С	ost o	of sales		(27.2)	(53.3)	(25.0)	2.2	(47.0)	88%
G	Gross profit		13.6	27.8	14.3	0.7	29.0	104%	
	Sellii	Selling, general and administrative expenses		(8.8)	(17.6)	(9.4)	(0.6)	(18.0)	102%
	Rese	Research and development expenses Core operating profit		(1.6)	(3.1)	(1.5)	0.1	(3.0)	98%
С	ore c			3.2	7.2	3.4	0.2	8.0	111%

 $^{^{\}star}$ Revenue is classified by region or country based on location of customer.

 $[\]ensuremath{^{*}}$ The figures represent amounts before elimination of inter-segment transactions.

 $^{^{\}ast}$ The figures represent amounts before elimination of inter-segment transactions.



IV. Revenue from Main Products of Pharmaceuticals Segment (IFRS)

Accumulative>
Unit: Billions of yen

		FY 2017 results		FY 2018 r	esults	Unit: Billions of yen FY 2018 forecasts		
	Indication / Product name	Jan - Jun	Jan - Dec	Jan - Jun	Change amount	Jan - Dec	%	
	Renal anemia treatment drug Nesp	26.6	56.3	25.6	(1.1)	52.4	93%	
	Secondary hyperparathyroidism Regpara	9.4	18.5	7.8	(1.7)	13.2	71%	
	Secondary hyperparathyroidism Orkedia		-	0.4	0.4	3.5		
	Secondary hyperparathyroidism Rocaltrol	1.9	4.1	1.9	(0.1)	3.5	87%	
	Type-2 diabetes Onglyza	3.4	7.3	3.6	0.2	7.6	103%	
	Cardiovascular (Hypertension & angina pectoris) Coniel	3.2	6.3	2.5	(0.7)	4.9	77%	
	Agent for decreasing the incidence of febrile neutropenia G-Lasta	8.2	18.1	9.5	1.3	20.1	111%	
	Transdermal persistent pain Fentos	2.9	6.0	2.6	(0.3)	5.7	96%	
an	Anticancer Poteligeo	0.9	1.9	0.9	0.0	1.8	95%	
Jap	Anticancer Rituximab BS [KHK]	0.9	1.9	1.1	1.1	3.2	3370	
	Chronic idiopathic thrombocytopenic purpura Romiplate	1.6	3.4	1.5	(0.1)	3.4	100%	
	Antiallergenic Allelock	9.1	15.9	7.5	` ′			
	Antiallergic eyedrops				(1.7)	11.7	74%	
	Patanol Ulcerative colitis	8.8	12.8	9.7	0.9	12.1	94%	
	Asacol Psoriasis vulgaris	2.1	4.2	1.5	(0.6)	3.4	80%	
	Dovobet Psoriasis	2.7	5.3	2.8	0.1	6.2	117%	
	Lumicef Parkinson's disease	0.2	1.0	0.9	0.6	2.7	281%	
	Nouriast Antiepileptic	4.0	8.5	4.4	0.4	9.4	111%	
	Depakene	3.2	6.5	2.7	(0.6)	5.4	82%	
	Technology out-licensing Renal anemia treatment drug	2.0	2.4	1.5	(0.6)	4.6	191%	
	Nesp Secondary hyperparathyroidism	2.9	5.7	3.1	0.2	5.8	103%	
	Regpara Agent for decreasing the incidence of febrile neutropenia	1.1	2.2	1.5	0.4	2.8	123%	
	Neulasta/Peglasta	1.0	2.0	1.0	0.0	2.0	101%	
	Neutropenia treatment drug Gran	2.3	5.2	2.7	0.4	4.4	86%	
	X-linked hypophosphatemia (XLH) Crysvita	-	-	0.8	0.8			
atiol	Cancer pain Abstral	5.7	11.9	6.5	0.8	13.2	111%	
ter	Cancer pain PecFent	2.0	4.1	2.0	0.1	5.2	128%	
	Anticancer Mitomycin-C	1.6	3.4	1.3	(0.4)	2.0	57%	
	Chemotherapy-induced nausea and vomiting drug Sancuso	1.3	3.0	1.3	0.0	2.8	92%	
	Opioid-induced constipation (OIC) Moventig	0.3	0.8	0.6	0.3	2.4	299%	
	Replacement therapy with testosterone for male hypogonadism Tostran/Fortesta	1.1	2.2	1.4	0.3	2.1	93%	
	Osteoporosis drug Adcal-D3	1.7	3.6	1.8	0.1	3.3	93%	
ŀ		9.5	16.0	12.4	2.9	17.3		

 $^{^{\}star}$ Revenue is classified as Japan or International (other than Japan) based on customer location.

Revenue is classified as "Technology out-licensing" specifies revenue from the upfront payment, milestone revenue, and running royalties revenue that are obtained based on licensing agreements recognizing the granting to third parties the rights for development, manufacturing and sales of the Group's pipeline compounds or the use of technology, etc.



IV. Revenue from Main Products of Pharmaceuticals Segment (IFRS)

<Quarterly> Unit: Billions of yen

\Q	<quarterly></quarterly>		' results	Unit: Billions of yen FY 2018 results		
	Indication / Product name	Jan - Mar	Apr - Jun	Jan - Mar	Apr - Jun	Change amount
	Renal anemia treatment drug Nesp	12.5	14.2	12.0	13.6	(0.6)
	Secondary hyperparathyroidism Regpara	4.6	4.8	3.6	4.2	(0.6)
	Secondary hyperparathyroidism Orkedia	-	-	-	0.4	0.4
	Secondary hyperparathyroidism Rocaltrol	0.9	1.0	0.9	1.0	(0.1)
	Type-2 diabetes Onglyza	1.6	1.8	1.6	1.9	0.1
	Cardiovascular (Hypertension & angina pectoris) Coniel	1.6	1.6	1.2	1.3	(0.4)
	Agent for decreasing the incidence of febrile neutropenia G-Lasta	3.8	4.3	4.3	5.1	0.8
	Transdermal persistent pain Fentos	1.3	1.6	1.2	1.4	(0.1)
Japan	Anticancer Poteligeo	0.4	0.5	0.4	0.5	0.0
Ja	Anticancer Rituximab BS [KHK]	-	-	-	1.1	1.1
	Chronic idiopathic thrombocytopenic purpura Romiplate	0.8	0.9	0.7	0.8	(0.0)
	Antiallergenic Allelock Antiallergic eyedrops	5.6	3.5	4.6	2.9	(0.7)
	Patanol Ulcerative colitis	7.0	1.8	7.7	2.0	0.2
	Asacol Psoriasis vulgaris	1.0	1.1	0.7	0.8	(0.3)
	Dovobet Psoriasis	1.2	1.4	1.2	1.6	0.2
	Lumicef Parkinson's disease	0.1	0.1	0.4	0.5	0.4
	Nouriast Antiepileptic	1.8	2.1	1.9	2.5	0.4
	Depakene	1.6	1.7	1.3	1.4	(0.3)
	Technology out-licensing Renal anemia treatment drug	0.8	1.2	1.1	0.4	(0.8)
	Nesp Secondary hyperparathyroidism	1.4	1.5	1.5	1.6	0.1
	Regpara Agent for decreasing the incidence of febrile neutropenia	0.5	0.5	0.7	0.8	0.3
	Neulasta/Peglasta Neutropenia treatment drug	0.5	0.5	0.4	0.6	0.1
	Gran X-linked hypophosphatemia (XLH)	1.0	1.3	1.4	1.3	0.0
onal	Crysvita Cancer pain	-	-	-	0.8	8.0
Internationa	Abstral Cancer pain	2.9	2.8	3.4	3.1	0.3
Intel	PecFent Anticancer	1.1	0.9	1.0	1.0	0.1
	Mitomycin-C Chemotherapy-induced nausea and vomiting drug	0.8	0.8	0.6	0.6	(0.2)
	Sancuso Opioid-induced constipation (OIC)	0.6	0.7	0.6	0.7	0.0
	Moventig Replacement therapy with testosterone for male hypogonadism	0.2	0.1	0.3	0.3	0.2
	Tostran/Fortesta Osteoporosis drug	0.4	0.6	0.6	0.8	0.2
	Adcal-D3	0.8	0.9	0.9	0.9	(0.0)
* Day	Technology out-licensing enue is classified as Japan or International (other than Japan) based on customer le	8.0	1.6	6.5	5.9	4.3

^{*} Revenue is classified as Japan or International (other than Japan) based on customer location.

* Revenue listed as "Technology out-licensing" specifies revenue from the upfront payment, milestone revenue, and running royalties revenue that are obtained based on licensing agreements recognizing the granting to third parties the rights for development, manufacturing and sales of the Group's pipeline compounds or the use of technology, etc.



Filed • Approved			🌱 antibody 🧗 protein 🔏 small molecule As					
Area		Code Name Generic Name Formulation	Mechanism of Action	Indication	Stage	In-House or Licensed	Remarks	
	8	KRN321 Darbepoetin Alfa		Renal Anemia (on Dialysis)	NDA in preparation in CN	Kirin-Amgen		
Nephrology	Ø.	Injection	Stimulating Agent	Renal Anemia	Filed in ID	Kiiii-Aiigeii		
	水	KRN1493 Cinacalcet Hydrochloride Oral	Calcium Receptor Agonist	Secondary Hyperparathyroidism	Approved in BN	Licensed from Shire-NPS		
		KW-0761 Mogamulizumab Injection	Anti-CCR4 Humanized Antibody	Cutaneous T-cell Lymphoma	Filed in US	In-House	POTELLIGENT®	
Oncology	Y				Filed in EU			
					Filed in JP		Additional Indication, Dosage and Administration	
		KHK4827 Brodalumab Injection	Anti-IL-17 Receptor A	Psoriasis	Approved in TW	Kirin-Amgen		
					Filed in TH			
nmunology/A llergy	Y				Filed in SG			
					Filed in MY			
					Filed in HK			
Central Nervous System	x.	KW-6002 Istradefylline Oral	Adenosine A _{2A} Receptor Antagonist	Parkinson's Disease	NDA in preparation in US	In-House		
Other	Y	©KRN23 Burosumab	Anti-FGF23 Fully Human Antibody	X-linked Hypophosphatemia (XLH)	Approved in US	In-House	Human Antibody-Producing Technolog Jointly Developed with Ultragenyx in U	
	-	Injection	Tiuman Antibody	Trypophiosphatellia (ALTT)	Filed in CA		and EU	

Phase	Π	Phase	Ш

Phase II, P	hase	${\rm I\hspace{1em}I}$								
Area		Code Name Generic Name Formulation	Mechanism of Action	Indication	Stage	In-House or Licensed	Remarks			
	ж.	©RTA 402 Bardoxolone Methyl Oral	Antioxidant Inflammation Modulator	Diabetic Kidney Disease	Phase Ⅲ in JP	Licensed from Reata				
Nephrology	Å.	KHK7580 Evocalcet Oral	Calcium Receptor Agonist	Hypercalcemia In Patients With Parathyroid Carcinoma or Primary Hyperparathyroidism	Phase Ⅲ in JP	Licensed from Mitsubishi Tanabe Pharma				
Oncology	水		HDAC Inhibitor	Breast Cancer	Phase Ⅱ in JP	Syndax				
Oncology	Y	KW-0761 Mogamulizumab Injection	Anti-CCR4 Humanized Antibody	Adult T-cell Leukemia/Lymphoma	Phase Ⅱ in US, EU and others	In-House	POTELLIGENT [®]			
	Y	©KHK4083 Injection	Anti-OX40 Fully Human Antibody	Ulcerative Colitis	Phase II in US, EU and others	In-House	POTELLIGENT® Human Antibody-Producing Technology			
				Observation Observation			POTELLIGENT®			
	Y	KHK4563 Benralizumab Injection	Anti-IL-5 Receptor Humanized Antibody	Chronic Obstructive Pulmonary Disease (COPD)	Phase Ⅲ in JP	In-House	Jointly Developed with AstraZeneca/MedImmune			
Immunology/A llergy	1		Humanized Antibody	Eosinophilic Chronic Rhinosinusitis (ECRS)	Phase Ⅱ in JP					
	~	KHK4827 Brodalumab Injection	Anti-IL-17 Receptor A Fully Human Antibody	Psoriasis	Phase ∭ in KR	Kirin-Amgen				
				Axial Spondyloarthritis (axSpA)	Phase Ⅲ in JP, KR and TW					
	Y	<pre> @ASKP1240 Bleselumab Injection</pre>	Anti-CD40 Fully Human Antibody	Recurrence of Focal Segmental Glomerulosclerosis (FSGS) in <i>de</i> <i>novo</i> kidney transplant recipients	Phase Ⅱ in US	In-House	Human Antibody-Producing Technology Jointly Developed with Astellas			
Central Nervous	Y	KW-0761 Mogamulizumab Injection	Anti-CCR4 Humanized Antibody	HTLV-1 associated myelopathy (HAM)	Phase Ⅲ in JP	In-House	POTELLIGENT [®]			
System	水	⊚KW-6356 Oral	Adenosine A _{2A} Receptor Antagonist	Parkinson's Disease	Phase ∐ in JP	In-House				
			sumab Anti-FGF23 Fully Human Antibody	X-linked Hypophosphatemia (XLH) in adult patients	Phase Ⅲ in US, CA, EU, JP and KR	In-House				
	Y	⊚KRN23 Burosumab Injection		X-linked Hypophosphatemia (XLH) in pediatric patients	Phase ∭ in US, CA, EU, AU, JP and KR		Human Antibody-Producing Technology Jointly Developed with Ultragenyx in US and EU			
Other				Tumor Induced	Phase					
0.0.0.							Osteomalacia(TIO)/Epidermal Nevus Syndrome (ENS)	Phase Ⅱ in JP and KR		
	de	do	4	AMG531 Romiplostim	Thrombopoietin	Aplastic Anemia	Phase ∏ / ∭ in JP and KR	Kirin Amgon		
	8	Injection	Receptor Agonist	Idiopathic (Immune) Thrombocytopenic Purpura	Phase Ⅲ in CN	Kirin-Amgen				

V. R&D Pipeline



PhI			🌱 antibody	🧗 protein 👬 sm	all molecule		As of Jun. 30, 2018	
Area		Code Name Generic Name Formulation	Mechanism of Action	Indication	Stage	In-House or Licensed	Remarks	
	*	⊚KHK2455 Oral	IDO 1 Inhibitor	Solid Tumor	Phase I in US	In-House	Combination with KW-0761	
	Y	©KHK2823 Injection	Anti-CD123 Fully Human Antibody	Cancer	Phase I in UK	In-House	POTELLIGENT [®] Human Antibody-Producing Technology	
Oncology						In-House	POTELLIGENT®	
	Y	KW-0761 Mogamulizumab Injection	Anti-CCR4 Humanized Antibody	Solid Tumor	Phase I / Ⅱ in US		Combination with Nivolumab (Jointly Developed with Bristol-Myers Squibb)	
					Phase I in JP		Combination with Nivolumab (Jointly Developed with Ono Pharmaceutical)	
		©KHK4083 Injection	Anti-OX40 Fully Human	Ulcerative Colitis	Phase I in JP	In-House	POTELLIGENT [®] Human Antibody-Producing Technology	
Immunology/	T		Antibody	Atopic Dermatitis	Phase I in JP	III-House		
Allergy	Y	KHK4827 Brodalumab Injection	Anti-IL-17 Receptor A Fully Human Antibody	Autoimmune Disease	Phase I in JP	Kirin-Amgen		
Central	<	™ ©KHK6640 Anti–Amyloid Bett Injection Peptide Antibody	Anti–Amyloid Beta		Phase I in EU	Licensed from		
Nervous System	T		Peptide Antibody	Alzheimer's Disease	Phase I in JP	Immunas Pharma		
Others	8	KW-3357 Antithrombin Gamma Injection	Recombinant Human Antithrombin	Disseminated Intravascular Coagulation, Congenital Antithrombin Deficiency	Phase	In-House		

Updated since Mar. 31, 2018 (Area, Stage, Filed, Approved, etc.)

New Molecular Entity

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Area		Code Name Generic Name Formulation	Mechanism of Action	Indication	Stage	In-House or Licensed	Remarks
Nephrology	×	KRN1493 Cinacalcet Hydrochloride Oral	Calcium Receptor Agonist	Secondary Hyperparathyroidism	Approved in BN	Licensed from Shire-NPS	
Immunology/A	Y	KHK4827 Brodalumab Injection	Anti-IL-17 Receptor A Fully Human Antibody	Psoriasis -	Approved in TW	Kirin-Amgen	
llergy					Filed in HK	Kilin-Aingen	
Other	Y	◎KRN23 Y Burosumab Injection	Anti-FGF23 Fully Human Antibody	X-linked Hypophosphatemia (XLH)	Approved in US	- In-House	Human Antibody-Producing Technology Jointly Developed with Ultragenyx in US
Other					Filed in CA		and EU
Phase I, P	hase	Ш					
Area		Code Name Generic Name Formulation	Mechanism of Action	Indication	Stage	In-House or Licensed	Remarks
Nephrology	×.	©RTA 402 Bardoxolone Methyl	Antioxidant Inflammation Modulator	Diabetic Kidney Disease	Phase Ⅲ in JP	Licensed from	

Updated since Mar. 31, 2018 (Area, Stage, Filed, Approved, etc.)



<Appendix> Fujifilm Kyowa Kirin Biologics co. Ltd., Pipeline of Biosimilar

As of June 30th 2018

Code Name	Generic Name	Stage	Remarks	
FKB327	Adalimumab (fully human anti-TNF-α monoclonal antibody)	Filed in EU	Fujifilm Kyowa Kirin Biologics Co., Ltd.	
FKB238	Bevacizumab (humanized anti-VEGF monoclonal antibody)	Phase Ⅲ in US, Europe and others	Centus Biotherapeutics Ltd.(*)	

^{*} Centus Biotherapeutics Ltd. is a fifty-fifty joint venture between Fujifilm Kyowa Kirin Biologics Co., Ltd. and AstraZeneca.