Exploring the Innovative Promise of Glycoscience

Financial Results for the Fiscal Year 2014 (April1,2014 – March31,2015)



http://healthy-knee.com/



(TSE:4548)

Overview of Fiscal Year 2014

	FY2014	Year-o	Year-on-Year		vith Forecasts
(Millions of Yen)	Results	Change	% of Change	Change	% of Change
Net sales	29,522	-91	-0.3%	+372	+1.3%
Operating Income	2,383	-2,554	-51.7%	-366	-13.3%
Ordinary Income	4,008	-1,870	-31.8%	-191	-4.6%
Net Income	3,650	-1,095	-23.1%	+200	+5.8%
R&D Expenses (Ratio to net sales)	8,146 (27.6%)	+1,558 (+5.4pt)	+23.7%	+846 (+2.6pt)	+11.6%
Average Exchange Rate (1US\$)	¥109.94	+¥9.70		+¥7.94	

	FY2014 Results	FY2013 Results	FY2014 Forecasts
Net Income per Share	¥64.27	¥83.55	¥60.73
Dividend per Share	¥26.00*	¥26.00	¥26.00
Dividend Payout Ratio	40.5%*	31.1%	42.8%
ROE	5.4%	7.5%	

*Year-end dividend of \pm 13 per share to be decided at the general meeting of shareholders on June 2015. 2

Net sales by Business Segment(FY2014)

(Millions of Yen)	FY2014 Results	Year-on- Year	% of Change
Net sales	29,522	-91	-0.3%
Pharmaceuticals	24,646	-696	-2.7%
Domestic Pharmaceuticals	16,898	-1,097	-6.1%
Overseas Pharmaceuticals	6,339	+622	+10.9%
Bulk Products	1,407	-222	-13.6%
LAL Business	4,876	+604	+14.2%
(Overseas sales)	9,997	+1,194	+13.6%

*Foreign exchange impact on overall net sales: approx. +¥880 million

EIKAGAKU CORPORATION

Domestic Pharmaceuticals

ARTZ (joint-function improvement agent)
 OPEGAN(ophthalmic surgical aid)
 Sales decrease due to NHI drug price
 reductions, despite volumes increase



ARTZ: Joint-function improvement agent with hyaluronic acid as its main ingredient

Drug price revision (2014/4~; excluding consumption tax hike) •ARTZ Dispo®:¥1,453(-7.4%) •Industry average:-5.7%

MucoUp(surgical aids for

endoscopic mucosal resection) Deliveries to medical institutions remained at roughly the prior-year level, and Seikagaku sales down due to sales partner inventory adjustments

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Net sales by Business Segment(FY2014)

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	6,339 1,407		+10.9% -13.6%
Pharmaceuticals		-222	

*Foreign exchange impact on overall net sales: approx. +¥880 million

Overseas Pharmaceuticals

> ARTZ (multiple injection)

•SUPARTZ in the U.S:

Slight decrease in local sales Seikagaku sales down following an inventory build-up by the sales partner in fiscal 2013, despite the impact of yen depreciation

•ARTZ in China:

Seikagaku sales up on growth in local sales



SUPARTZ[®]: Multiple-injection joint function improving agent

Gel-One in the U.S. (single injection)

Seikagaku sales up on higher shipments and the contribution from yen depreciation



Gel-One[®]: Single-injection joint function improving agent



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Bulk Products

Decrease in sales of hyaluronic acid in a fierce market

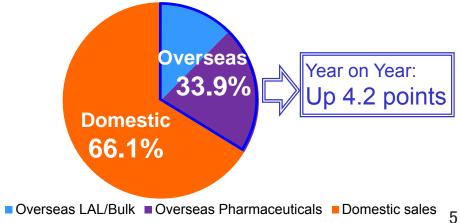
*Bulk Products:

The manufacture and sale of high-purity, high-quality hyaluronic acid and chondroitin sulfate for pharmaceuticals

LAL Business

Increase in sales in Japan and overseas and the contribution from yen depreciation





Income in FY2014 (Year-on-Year)

(Millions of Yen)	FY2014 Results	Year-on- Year	% of Change
Net sales	29,522	-91	-0.3%
Cost of Sales (Cost of Sales ratio)	12,130 (41.1%)	+906 (+3.2pt)	+8.1%
SGA expenses	15,008	+1,555	+11.6%
R&D Expenses (to Net sales ratio)	8,146 (27.6%)	+1,558 (+5.4pt)	+23.7%
Operating Income (to Net sales ratio)	2,383 (8.1%)	-2,554 (-8.6pt)	-51.7%
Ordinary Income	4,008	-1,870	-31.8%
Net Income	3,650	-1,095	-23.1%
Depreciation	2,610	+842	+47.7%

Operating Income

Cost of Sales (+3.2pt):

Increase due to the impact of higher depreciation accompanying the start of operation of new production facilities and NHI drug price reductions

SGA Expenses (+1,555):

 R&D expenses: Sharp increase resulting from progress with development themes

Net Income

Non-operating Income/Expenses (+684):

- Gain on the sale of investment securities (+388)
- Increase in foreign exchange gains on foreign currency-denominated assets (+157)

Corporate Taxes, etc. (-846):

Decrease in the income tax rate due to preferential taxation in connection with the designation of the Takahagi Plant as a special district for industrial revitalization and a capital reduction with compensation at a U.S. subsidiary $(20.2\% \text{ in FY}2013 \rightarrow 8.9\% \text{ in FY}2014)$

Income in FY2014 (Comparison with forecasts)

(Millions of Yen)	FY2014 Results	Compa. with forecasts	% of Change
Net sales	29,522	+372	+1.3%
OperatingIncome (to Net sales ratio)	2,383 (8.1%)	-366 (-1.3pt)	-13.3%
Ordinary Income	4,008	-191	-4.6%
Net Income	3,650	+200	+5.8%

Cost of Sales ratio	41.1%	+0.6pt	
R&D Expenses (to Net sales ratio)	8,146 (27.6%)	+846 (+2.6pt)	+11.6%
Depreciation	2,610	-39	-1.5%

Net sales

Pharmaceuticals Business (+46):

The impact of yen appreciation and higher-thanexpected sales of SUPARTZ in the U.S. compensated for underperformance of ARTZ in Japan.

LAL Business (+326):

Increase due to yen depreciation

Operating Income

SGA Expenses (approx. +460):

R&D expenses higher than expected due to progress with SI-6603 in the U.S. and other pipeline projects

Net Income

Non-operating Income/Expenses (approx. +170):

Foreign exchange gains on foreign currencydenominated assets compensated for lower-thanexpected royalty income.

Corporate Taxes, etc. (approx. -340):

Decrease from the impact of a lower income tax rate due to preferential taxation in connection with the designation of the Takahagi Plant as a special district for industrial revitalization.



Overview of Forecasts in FY2015

	_				
	F	FY2015 FY2014 Results			5
(Millions of Yen)	Fo	recasts	Results	Change	% of Change
Net sales		30,650	29,522	+1,127	+3.8%
Operating Income		2,400	2,383	+16	+0.7%
Ordinary Income		3,800	4,008	-208	-5.2%
Net Income		2,900	3,650	-750	-20.6%
R&D Expenses (to Net sales ratio)		7,850 (25.6%)	8,146 (27.6%)	-296 (-2.0pt)	-3.6%
Average Exchange Rate (1US\$)		¥118.00	¥109.94	+¥8.06	
		FY2015 Forecasts	FY2014 Results		ate Sensitivity of ¥1against the US\$)
Net Income per sh	are	¥51.05	¥64.27	Net sales	Approx. ¥95 million
Dividend per sha	re	¥26.00	¥26.00*	Operating income	Approx. ¥35 million
Dividend Payout ra	atio	50.9%	40.5%*	*Year-end dividend of	¥13 per share to be
SEIKAGAKU CORPORATIO	decided at the general meeting of shareholder			meeting of shareholders	

Forecasts(Net sales) in FY2015

	FY2015	Year-o	n-Year
(Millions of Yen)	Forecasts	Change	% of Change
Net sales	30,650	+1,127	+3.8%
Pharmaceuticals	25,400	+753	+3.1%
Domestic Pharmaceuticals	16,950	+51	+0.3%
Overseas Pharmaceuticals	7,100	+760	+12.0%
Bulk Products	1,350	-57	-4.1%
LAL Business	5,250	+373	+7.7%
(Overseas sales)	11,150	+1,152	+11.5%

*Foreign exchange impact on overall net sales: approx. +¥870 million

Net sales

Forecast of higher sales due to the impact of yen depreciation and growth from overseas pharmaceuticals

Pharmaceuticals

Domestic Pharmaceuticals:

Forecast of sales at the prior-year level

Overseas Pharmaceuticals

Higher volumes of Gel-One and ARTZ in China and the contribution from yen depreciation

LAL Business

Sales increase at the U.S. subsidiary



Forecasts(Income) in FY2015

	FY2015	Year-o	n-Year
(Millions of Yen)	Forecasts	Change	% of Change
Net sales	30,650	+1,127	+3.8%
OperatingIncome (to Net sales ratio)		+16 (-0.3pt)	+0.7%
Ordinary Income	3,800	-208	-5.2%
Net Income	2,900	-750	-20.6%
Cost of Sales ratio	41.8%	+0.7pt	
R&D Expenses (to Net sales ratio)	7,850 (25.6%)	-296 (-2.0pt)	-3.6%
Depreciation	3,300	+689	+26.4%

Income

Despite lower R&D expenses, a decrease in net income on higher depreciation and the end of a temporary tax rate reduction

Operating Income

Cost of Sales (approx. +650):

 Increase in depreciation of new production facilities

SGA Expenses (approx. +450):

- Forecast of lower R&D expenses
- Increase in sales-related expenses for Gel-One and other products

Net Income

Decrease in Non-operating Income (approx. -200):

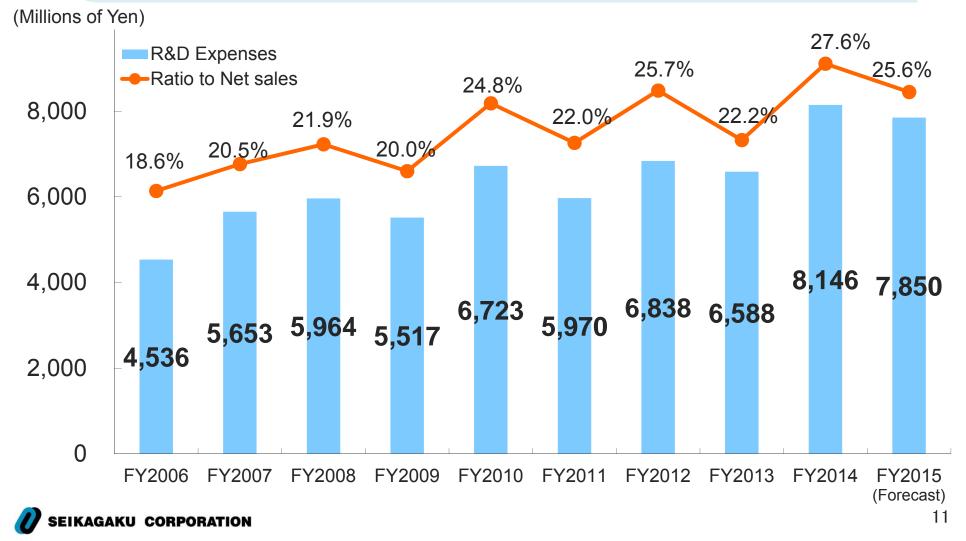
 Forecast of higher royalty income but lower foreign exchange gains

Tax Rate Increase:

The end of a temporary reduction

Trend in R&D Expenses

R&D expenses to remain at a high level in FY2015 due to progress with an open-label trial for SI-6603 in the U.S. and other projects



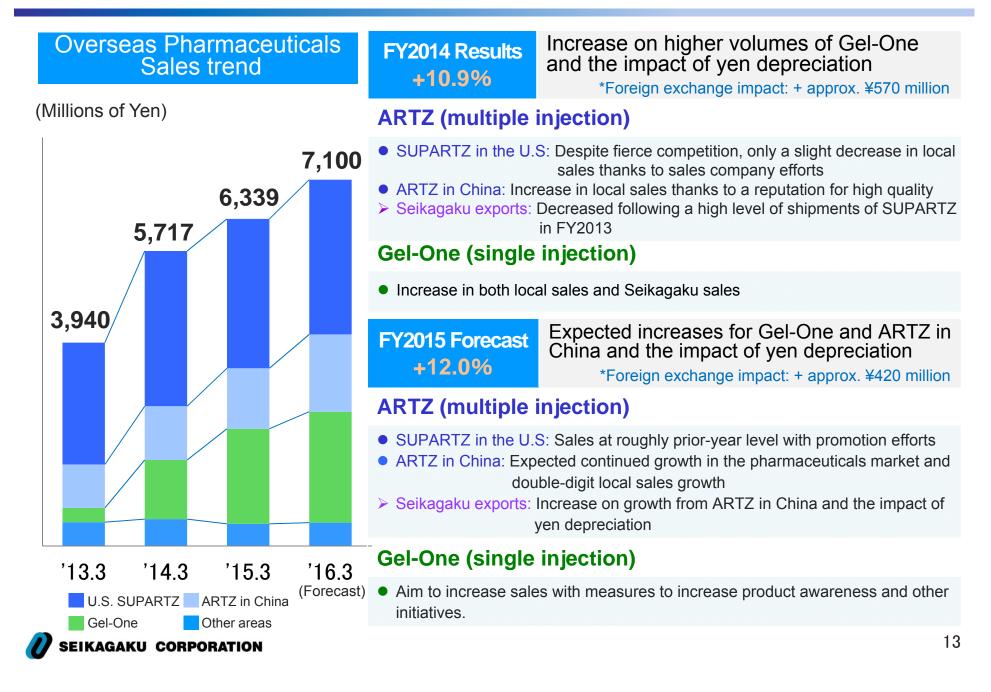
Domestic Sales(unit deliveries to medical institutions/Year-on-Year)

	FY2014 Results	FY2015 Forecasts	
ARTZ	Expand market share due to sales promotion efforts	Engage in sales activi	ng market share ties in selected key areas. brand to take share from
	Market share: 57.7% ARTZ growth rate: +1.1% (Market growth rate: -1.0%)	 Market share 59.5%(forecast) 	 ARTZ growth rate +1.2%(forecast)
OPEGAN			e with market growth n materials and step up activities.
And	Market share: 34.4% OPEGAN growth rate: +0.6% (Market growth rate: +1.7%)	 Market share 34.4%(forecast) 	 OPEGAN growth rate +2.4% (forecast)

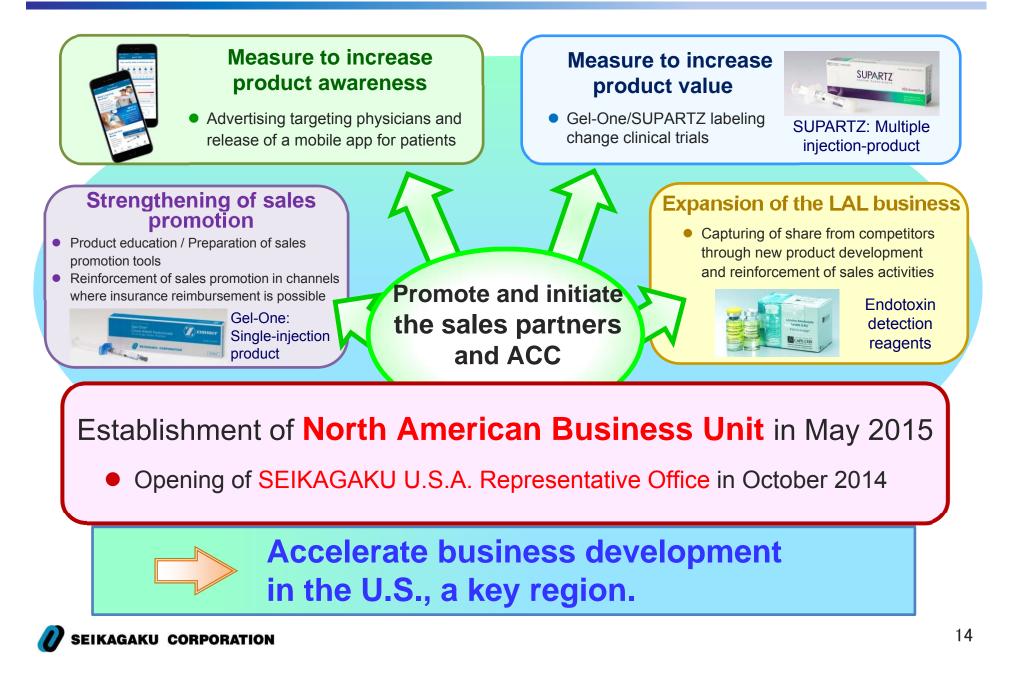
Unit / Market share Trend	FY2013 Results		FY2014 Results		FY2016 Forecasts		
	Unit(thousand)	Share	Unit(thousand)	Share	Unit(thousand)	Share	
ARTZ	23,229	56.5%	23,490	57.7%	23,770	59.5%	
OPEGAN	578	34.8%	581	34.4%	596	34.4%	



Overseas Pharmaceuticals (value basis/Year-on-Year)



Measures for business expansion in the U.S.



The LAL Business

What is the LAL business?

The manufacturing and sale of reagents used in the quality control of pharmaceuticals and in water quality Control in dialysis at hospitals

*Endotoxin detection reagents are reagents whose main ingredient is Limulus Amebocyte Lysate (LAL).

*Endotoxins are substances derived from bacteria. Since they cause fever even in minute amounts, testing for endotoxin contamination in pharmaceuticals is compulsory

Size of the global market: Approx. ¥20.0 billion (Seikagaku estimate, including associated equipment)

Associates of Cape Cod, Inc. (ACC)

- U.S. subsidiary of Seikagaku Corporation (established in 1974, acquired by Seikagaku in 1997)
- Developed the world's first endotoxin detection reagent and obtained FDA approval in 1977
- A sales network spanning 80 countries
- Solid business performance in recent years





Endotoxin detection reagents (for quality control of pharmaceuticals and medical devices)

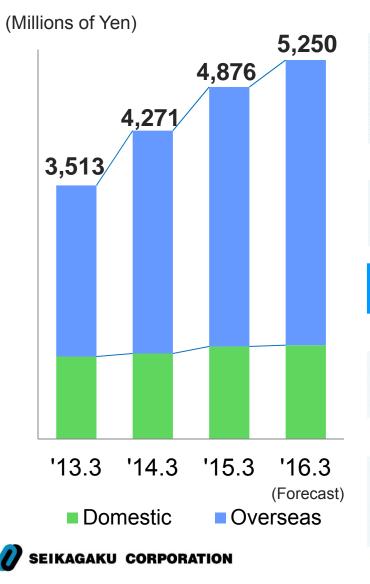


PYROCHROME[®]

🕖 SEIKAGAKU CORPORATION

Sales of LAL Business (value basis/year-on-year)

LAL Business Sales trend



FY2014 Results: +14.2% (Year-on-Year)

Overseas

- Increase in sales of quality control endotoxin detection reagents and in-vitro diagnostic used by pharmaceutical companies and other customers
- Contribution from yen depreciation

Domestic

 Increase in sales of endotoxin detection reagents and equipment

FY2015 Forecast: +7.7% (Year-on-Year)

Overseas

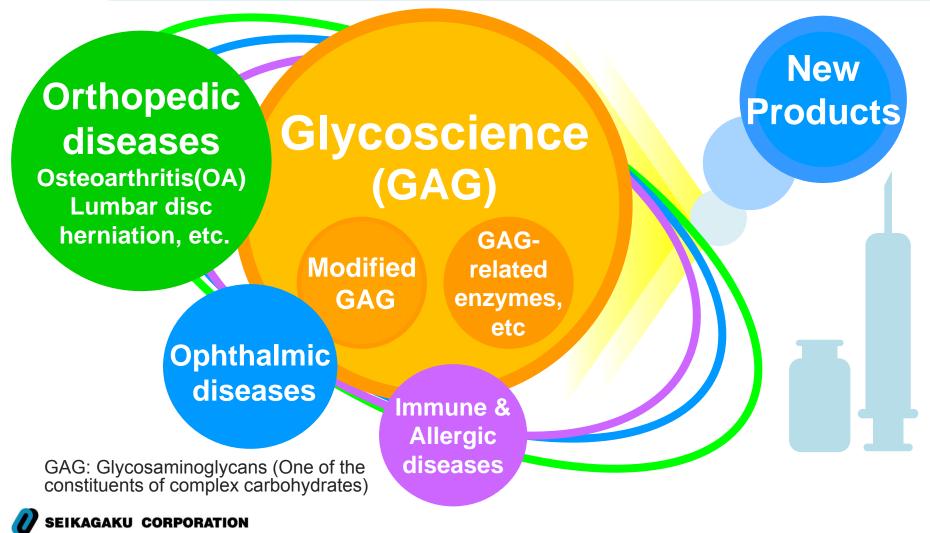
Forecast of a sales increase from steady sales coupled with the impact of yen depreciation

Domestic

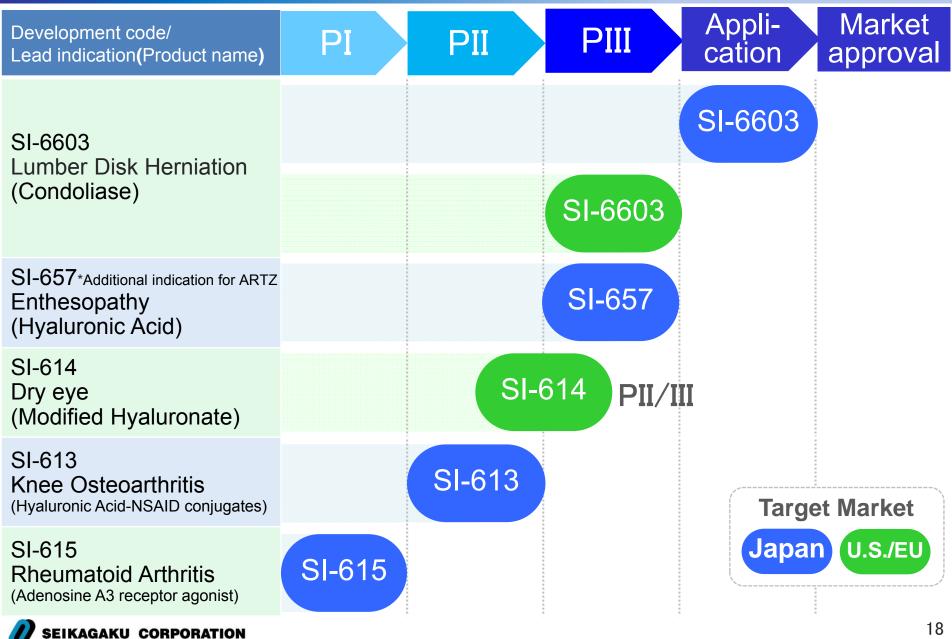
Forecast of an increase in sales of reagentassociated equipment due to sales campaigns and other factors

Basic Policy on Research and Development

Aiming for the rapid, continuous introduction of new products that meet high treatment needs, focusing on glycoscience as an area of specialization.

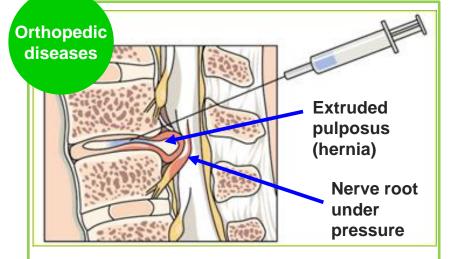


Pipeline List



SI-6603 Outline(treatment of lumbar disc herniation)

Reduces nerve pressure and alleviates pain by shrinking



- Substance: Condoliase
- Indication: Lumbar disc herniation
- Method of use: Injection into lumbar disc (under X-ray observation)

Japan : NDA filed

- January 2014: NDA filed, examination ongoing
- Trial results announced at three academic conferences:

Jun. 2014: 41st ISSLS Annual Meeting (Seoul) Nov. 2014: NASS 29th Annual Meeting (San Francisco) Apr. 2015: 44th Japanese Society for Spine Surgery and Related Research Annual Meeting (Fukuoka)

U.S. / EU : PIII

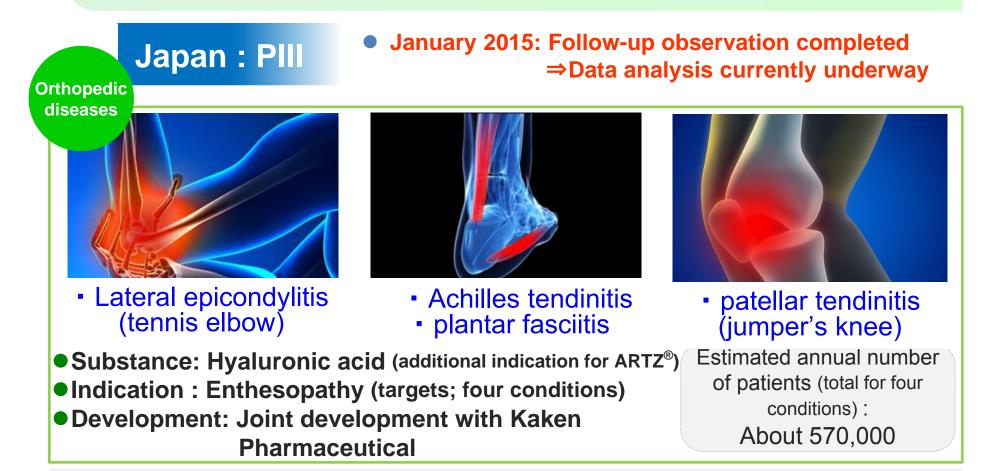
- October 2013: Case registration started
- April 2015: Open-label for the purpose of safety evaluation started

Features:

- Pain alleviated by reducing hernia-related nerve pressure through the specific degradation of GAGs (chondroitin sulfate, etc.), which are the main components of the nucleus pulposus
- No breakdown of proteins, so no effect on other tissues (blood vessels, nerves, etc.)
- Single-injection treatment with SI-6603 expected to become an alternative to surgery

SI-657 Outline(an additional indication for ARTZ)

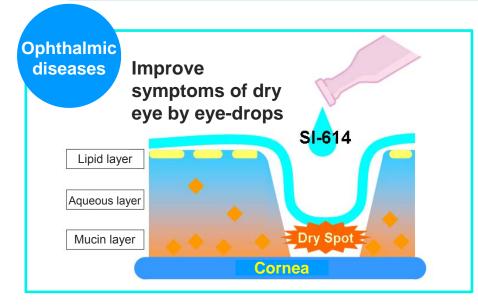
Exerts an inhibitory action to improve symptoms of enthesopathy



The aim is to contribute to symptom improvement in more patients by further increasing the added value of ARTZ

SI-614 Outline(treatment of dry eye)

Improves symptoms of dry eye by protecting the ocular surface and promoting corneal epithelial wound healing



- Substance : SI-614(Modified Hyaluronate)
- Indication : Dry eye
- Formulation : Ophthalmic solution

U.S. / EU : PII/III

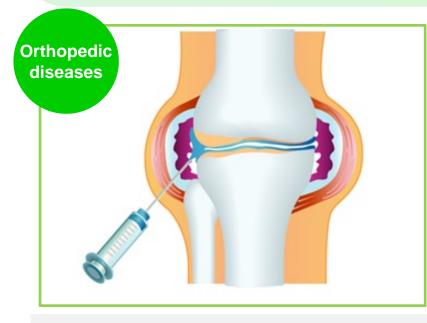
- January 2015: Phase II/III clinical trials completed
 - ⇒ Next phase trial being considered

Features:

- SI-614 is a modified hyaluronate produced by Seikagaku's proprietary technology.
- It is expected to improve symptoms of dry eye by protecting the ocular surface and promoting corneal epithelial wound healing in dry eye patients.
- Although dry eye is a multifactorial disease, only an anti-inflammatory drug is available in the U.S. currently. SI-614 will provide a new alternative to the treatment of dry eye through the promising mode of action

SI-613 Outline(treatment of knee osteoarthritis)

Prompt and long-term relief of severe pain and inflammation associated with knee osteoarthritis



- Substance: SI-613 (Hyaluronic acid-NSAID^{*1} conjugates)
- Indication: Knee Osteoarthritis
- Formulation: Injection into knee joint

Japan : Pll

October 2014: Submission of notification of a phase II trial (multiple dose study)
 December 2014: Case registration started

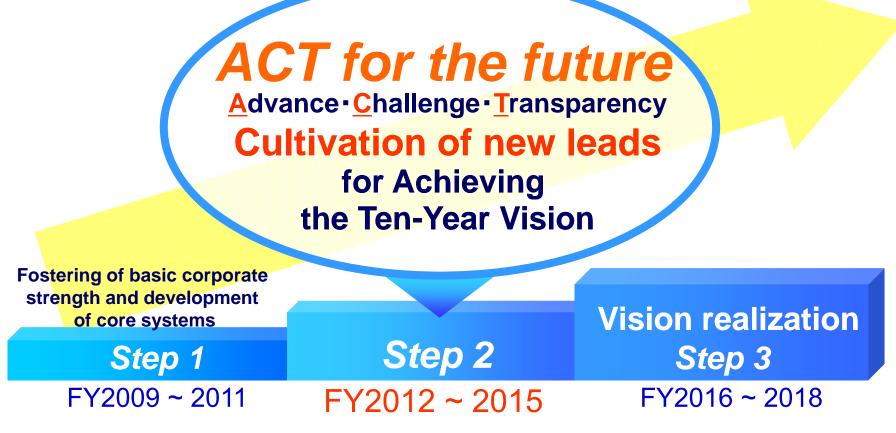
Features:

- Hyaluronic acid combined with NSAID^{*1} for relief of severe pain and inflammation of OA using Seikagaku's unique technology
- •Sustained-release^{*2} of the NSAID for long-term improvement of severe pain and inflammation
- Minimal side effects compared to oral or topical treatment of the NSAID
- -Aiming global deployment including Japan and U.S.
- *1 NSAID: Non-Steroidial Anti-Inflammatory Drug
- *² Sustained release: Gradual release of active ingredients to produce a sustained therapeutic effect over a long period

SEIKAGAKU CORPORATION

Ten-Year Vision and Mid-term Management Plan

Ten-Year Vision "Global Category Pharma" Converge major R&D resources on Glycoscience and establish global competitiveness





Basic Policy on Profit Distribution

• Dividends

Aim for stable and continuous dividends with a basis of an annual dividend of ¥26 per share.

Internal Reserve

Appropriated for R&D, and capital investment, etc., in accordance with medium-to-long term perspective

Flexible Capital Policy

Share buy-back is an option for improving capital efficiency

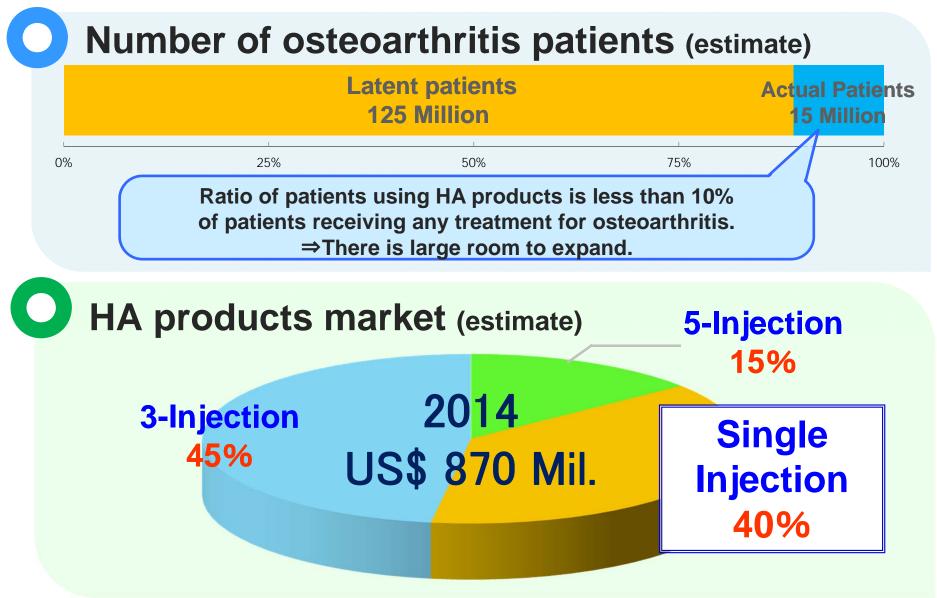
	FY2011	FY2012	FY2013	FY2014	FY2015 (Forecast)
Net Income per share	¥57.58	¥57.33	¥83.55	¥64.27	¥51.05
Annual Total Dividend	¥25.00	¥25.00	¥26.00	¥26.00	¥26.00
Dividend Payout Ratio	43.4%	43.6%	31.1%	40.5%	50.9%

*Year-end dividend of ¥13 per share to be decided at the general meeting of shareholders on June 2015.





U.S. Market for HA Products





Opening of the SEIKAGAKU U.S.A. Representative Office



Single-injection product Gel-One®



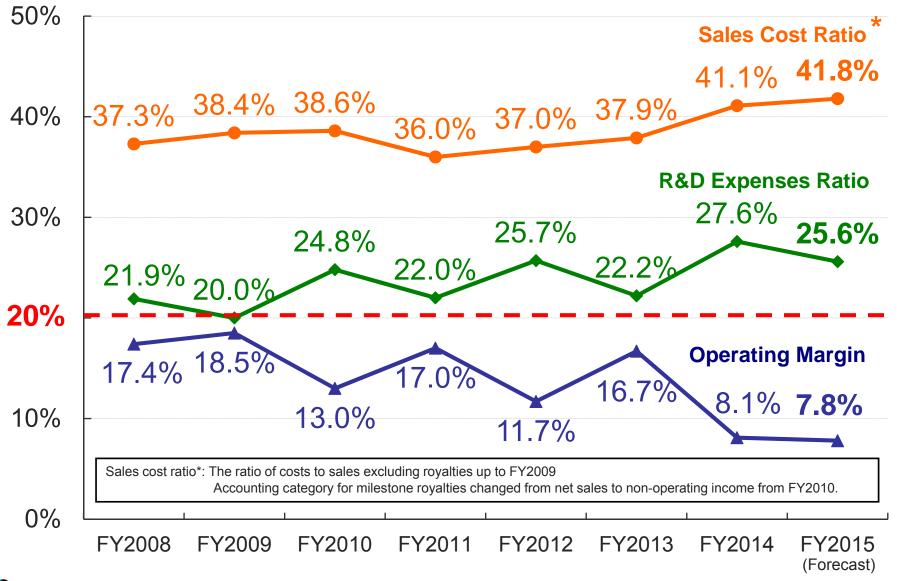
Multiple-injection product SUPARTZ®



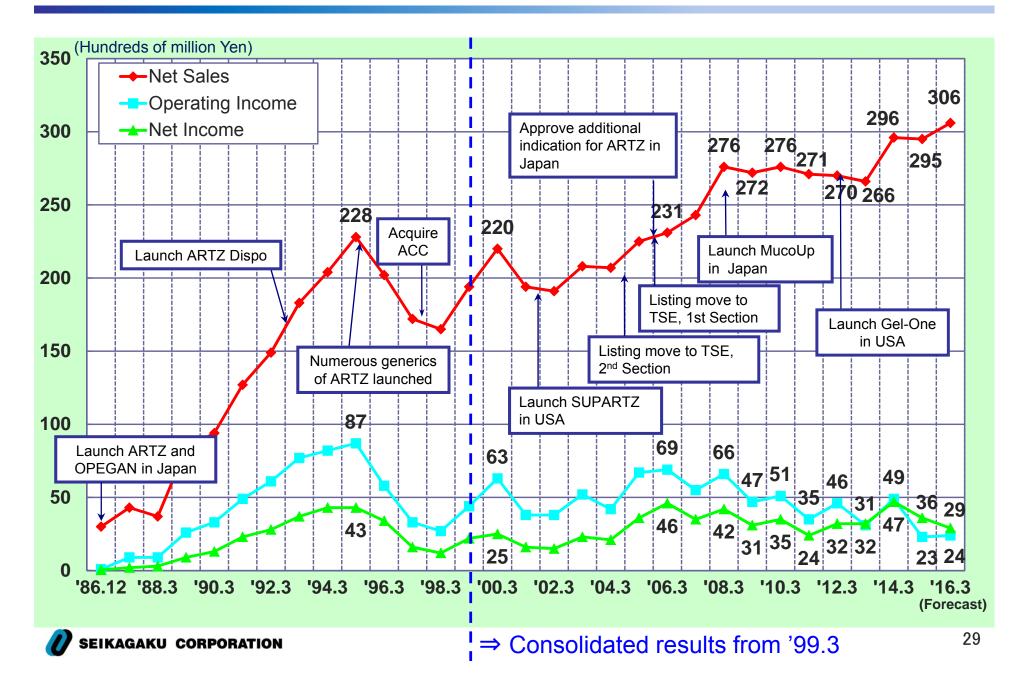
- Overview of the Representative Office
- Date of opening: October 15, 2014 (local time)
- Purpose: Provision of product education to local sales reps, gathering of information on the U.S. market



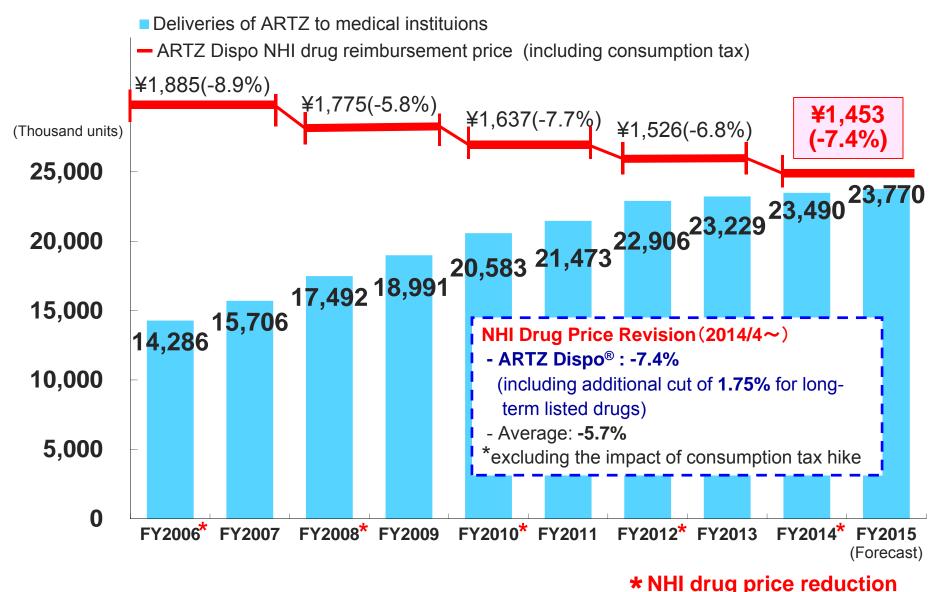
Trend in Financial Index



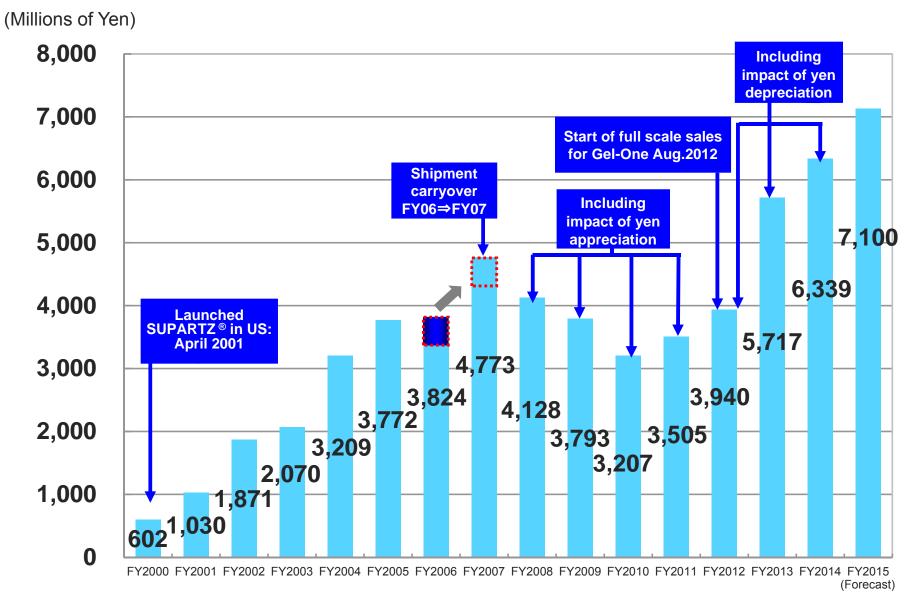
Business Progress & Highlights



Trend in NHI Reimbursement Price and Trend in Deliveries of ARTZ to Domestic Medical Institutions



Trend in Overseas Sales of Hyaluronic Acid Products



SI-613 Target Patients

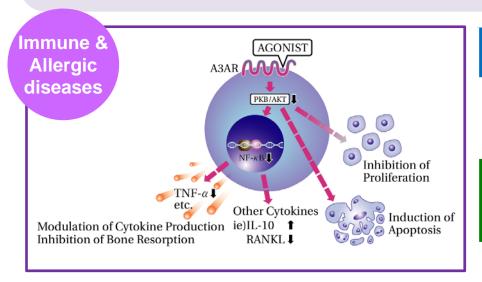
Patients with severe pain and being treated with oral or topical NSAIDs or intra-articular steroid injection Artificial joint replacement Severe SI-613 target area Steroid joint Oral and injections topical NSAIDs Moderate Hyaluronic acid products (ARTZ[®], etc.) **Oral NSAIDs** ¥100 billion Target market size in Japan **Topical NSAIDs** ¥200 billion (Including applications **HA** injections ¥52 billion outside the knee) **Steroid injections** ¥15 billion

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*Numbers in this slide are estimated by Seikagaku 32

SI-615 Outline(treatment of rheumatoid arthritis)

Oral agent for rheumatoid arthritis in-licensed from Can-Fite



Substance: Adenosine A3 receptor agonist

- Indication : Rheumatoid arthritis
- Formulation : Oral agent

Features:

- In-license theme from Can-Fite BioPharma Ltd.
- Adenosine A3 receptor agonist selectively stimulates the adenosine A3 receptor, which is highly expressed in inflamed sites. It is thought to suppress cellular signal transduction, which contributes to inflammation, and the production of inflammatory cytokines.

Japan: Pl

• May 2009: Phase I single administration clinical trial completed

Europe: Pllb

Implemented by Can-Fite

Seikagaku will reassess its future
 development policy based on results from
 the PIIb mono-therapy implemented by
 the licensor, Can-Fite.

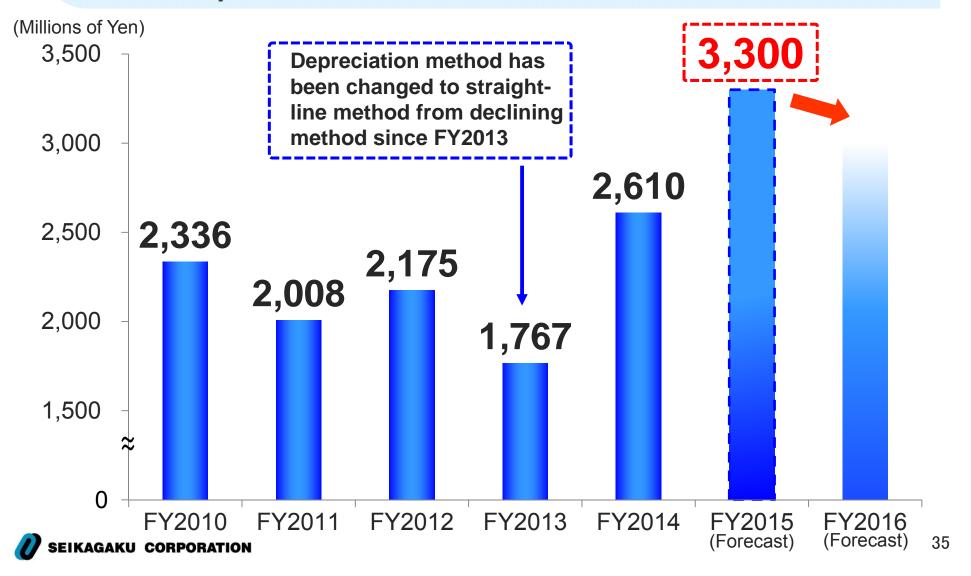
Trend in Capital Investments

Facilities	Amounts (¥ bill.)	FY2010	FY2011	FY2012	FY2013	FY2014	FY2015 (Forecast)
SI-6603 Bulk Production Facilities	1.1					Start 14.10	
No. 5 Production Building (for ARTZ Dispo®)	9.6		Start '12.3				Operation '15.1
Hyaluronic Acid Bulk Production Facilities	3.1		Start '12.1			Operation '14.2	
Facilities for Gel-One [®]	3.0		Start '11.12			peration 13.10	
Chondroitin Sulfate Bulk Production Facilities	1.2	Star '11.6		Operati '12.7			
Amounts (Millions of Yen)		1,306	5,718	9,164	7,222	2,095	2,600

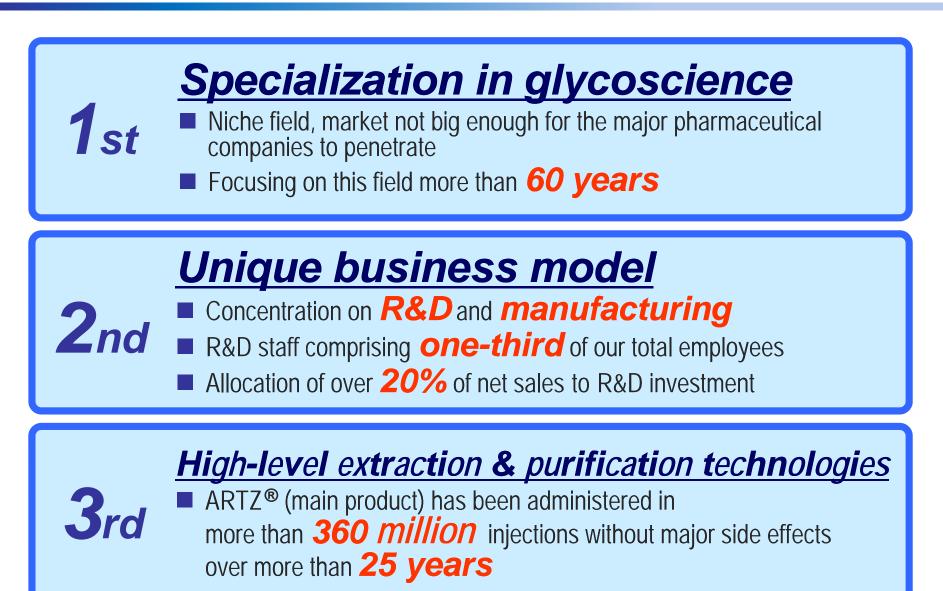
// SEIKAGAKU CORPORATION

Trend in Depreciation

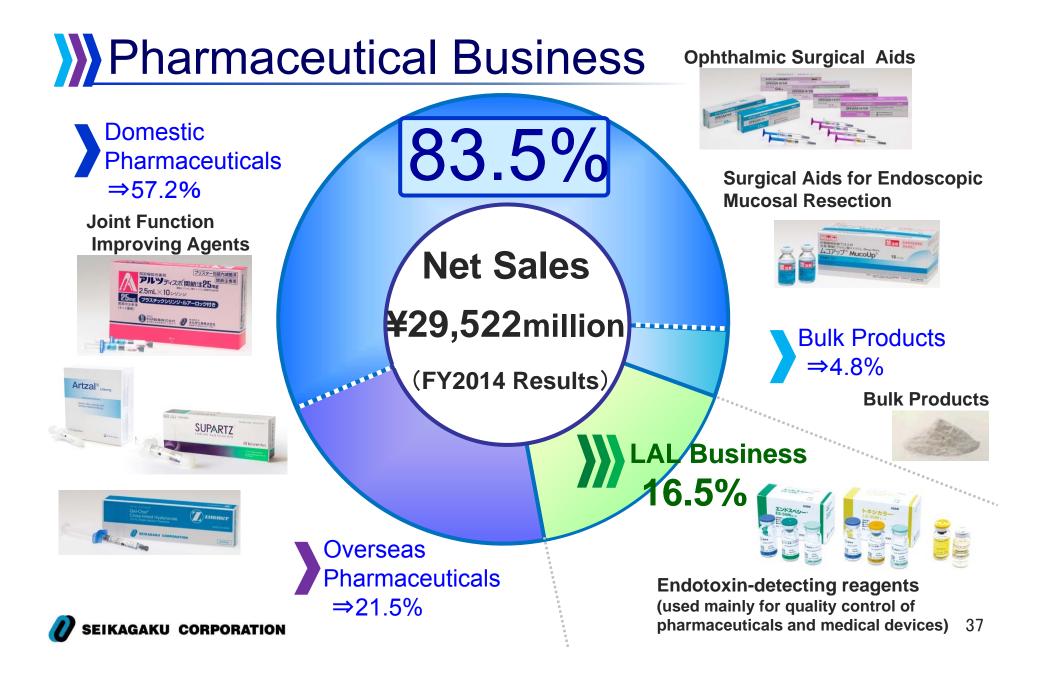
Depreciation will peak with ¥3,300 million at FY2015 by active capital investments



Special Profile



Our Business Segment



Main Hyaluronic Acid (HA) Products

- ARTZ[®] Knee osteoarthritis (OA) pain relief by multiple injections
- The first HA joint function improving agent in the world
- Main distributors:

Kaken Pharmaceutical (Japan): ARTZ®

Bioventus (U.S.): SUPARTZ®



Kunming Baker Norton Pharmaceutical (China): ARTZ®

Gel-One[®] Knee OA pain relief by a single injection

- Requires only 3ml to be as effective as multiple injections
- Full-scale sales since August 2012
- Distributor: Zimmer (U.S.)



Exploring the Innovative Promise of Glycoscience

Cautionary statement regarding forward-looking information

This material includes forward-looking statements based on assumptions and beliefs in light of the information currently available to management and subject to significant risks and uncertainties. Actual financial results may differ materially depending on a number of factors including adverse economic conditions, currency exchange rate fluctuations, adverse legislative and regulatory developments, delays in new product launch, pricing and product initiatives of competitors, the inability of the company to market existing and new products effectively, interruptions in production, infringements of the company's intellectual property rights and the adverse outcome of material litigation.

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