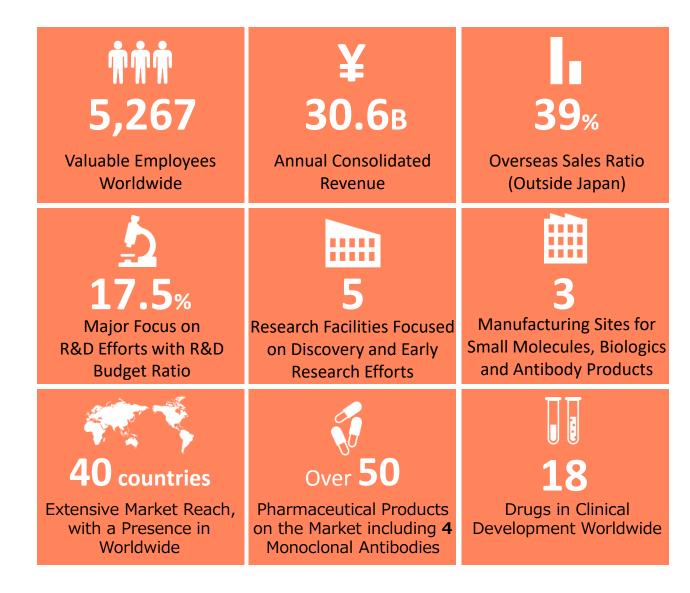
Leaping Forward for a Global Specialty Pharmaceutical Company (GSP)





In Numbers





History of Kyowa Kirin

Consolidation

2014

Archimedes Pharma Ltd.,

Arçhimedes

Acquired UK company

making it a subsidiary

Making the leap to a Global Specialty **Pharmaceutical** Company (GSP)

Kirin Kyowa Hakko

Kyowa Hakko Kirin

1885

Japan Brewery Company founded, forerunner company of Kirin Brewery Co., Ltd.



2003

BioWa's mission is the outlicensing of Kyowa Kirin's Therapeutic Antibody Technologies, POTELLIGENT® and COMPLEGENT®



BioWa

2012

Established FUJIFILM KYOWA KIRIN BIOLOGICS Co., Ltd., a joint-venture with FUJIFILM Corporation, to develop, make and sell biosimilars

FUJ!FILM KYOWA KIRIN





Joint venture with shared strengths

Fujifilm Kyowa Kirin Biologics

1949 Kyowa Hakko Kogyo Co., Ltd. established



1988

Supported the establishment of the La Jolla Institute for Immunology in the US



2011

Acquired UK company ProStrakan Group plc., making it a subsidiary (now Kvowa Kirin International plc.)

ProStrakan

1951

First volume production of streptomycin in Japan using technology from US drug firm Merck & Co.



Kyowa Hakko Kirin Co., Ltd. starts operations

Kyowa Hakko

Kirin Pharma



Pharma

2016-2020

Midterm Business Plan

Laid the foundations for the leap to a GSP



- Crysvita is a treatment for patients with XLH and sells in US/EU/JPN
- Poteligeo is a treatment for **POTELIGEO** patients with MF and SS, and sells in US/JPN.
- NOURIANZ (istradefylline)
 - Nourianz is a treatment for patients with Parkinson's disease and sells in US/JPN



Corporate Profile of Kyowa Kirin



Key Marketed Products

Nephrology

NESP®

Erythropoiesis Stimulating Agent Japan/Asia



Calcium receptor agonist Japan/Asia



Calcium receptor agonist Japan

Oncology



Anti-CCR4 mAb
Japan/US (approved in EU)



Sublingual fentanyl Japan/EU



Long-lasting G-CSF/G-CSF Japan/Asia



Rituximab biosimilar Japan

Immunology/ Allergy



Anti-allergic agent Japan/Asia



Ophthalmic Anti-allergic agent Japan



Anti-IL17R mAb Japan/Asia



Vitamin D3/Corticosteroid
Japan

Central Nervous System



テパケン®

Antiepileptic agent Japan



Antiepileptic agent Japan

Others



Romiplate®

Thrombopoietin R agonist Japan/Asia

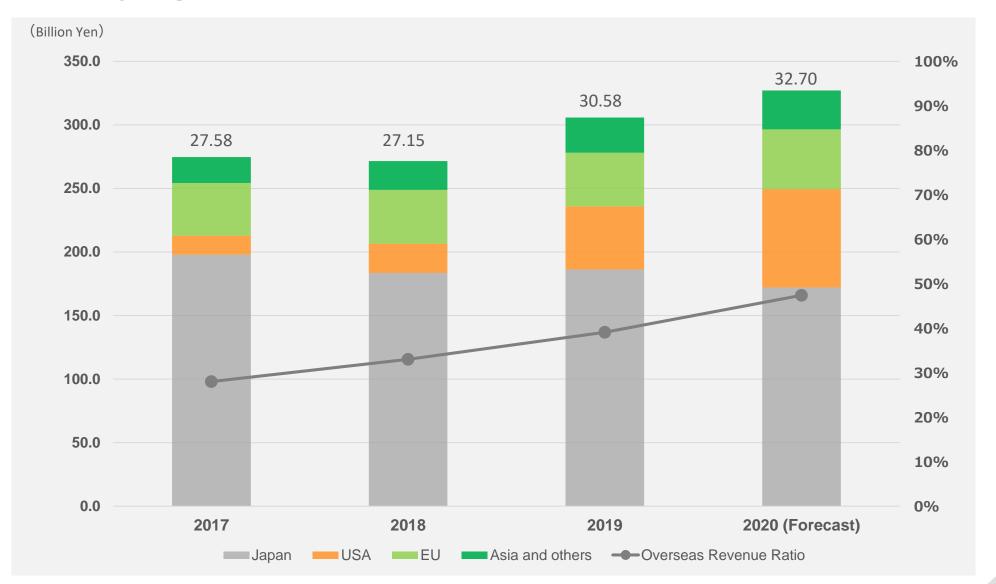
Coniel®

Calcium channel blocker Japan/Asia オングリザ゜

DPP-4 inhibitor
Japan

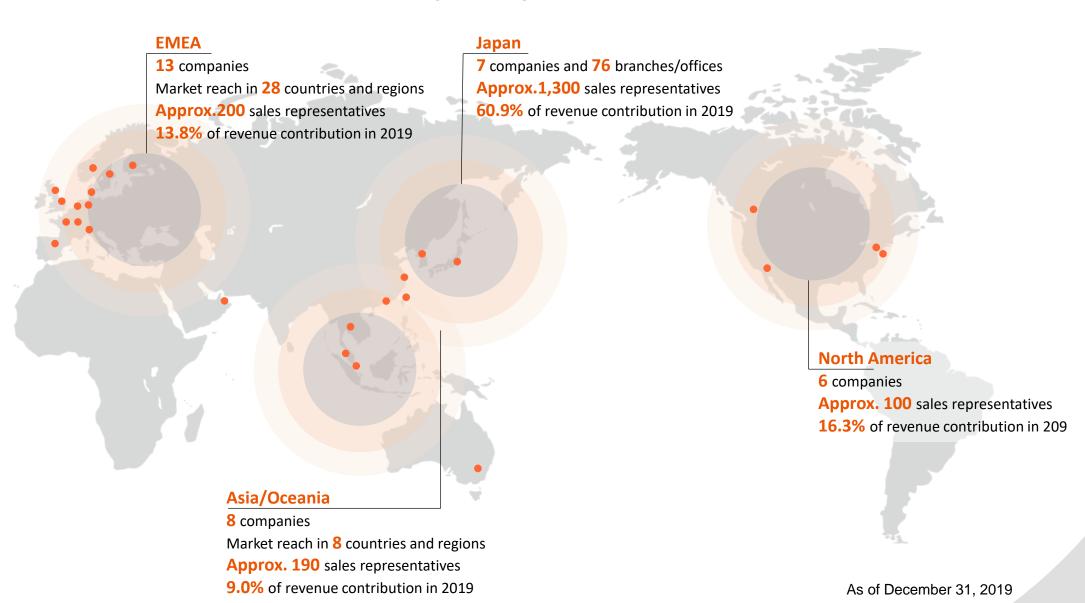


Revenue by Region





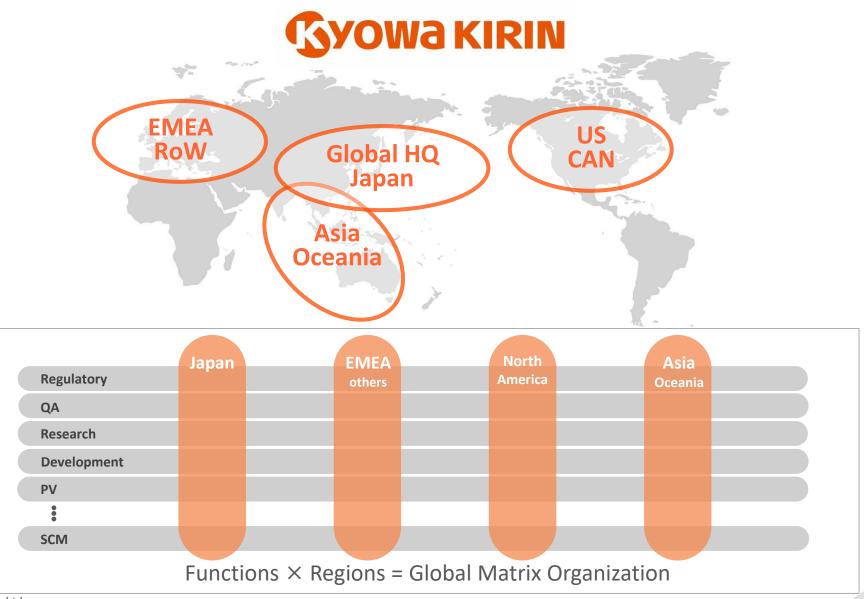
Global Reach & Commercial Capability





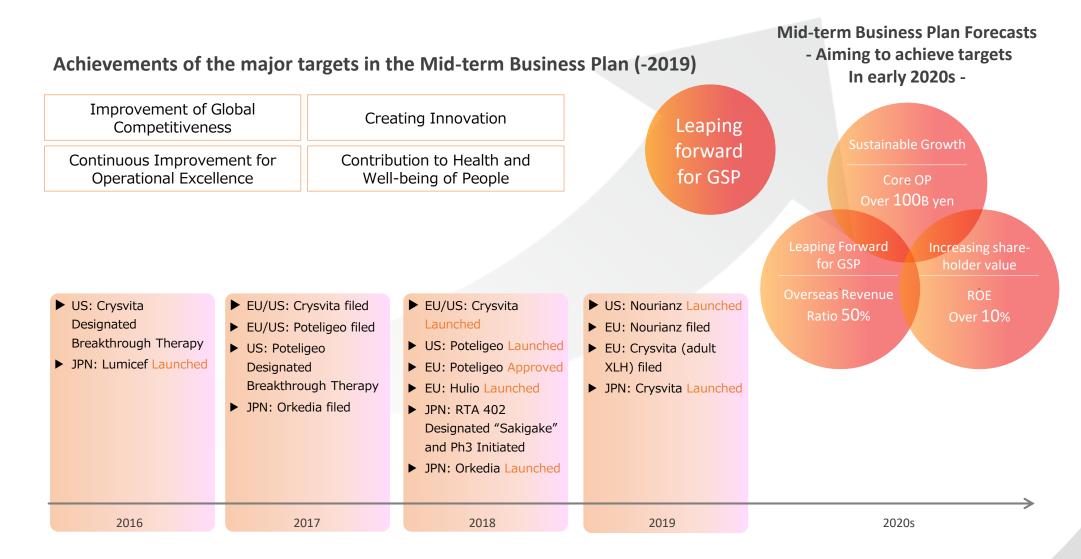
"One Kyowa Kirin" Organization

Global Management System from April 2019





2016-2020 Mid-term Business Plan





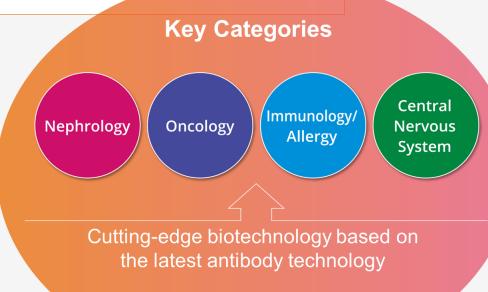
Kyowa Kirin's R&D Activities



Kyowa Kirin's R&D

VISION

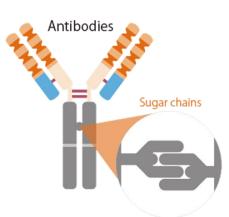
Kyowa Kirin will be a Japan-based Global Specialty Pharmaceutical Company contributing to human health and wellbeing worldwide through innovative drug discovery and global commercialization, driven by state of-the-art antibody technologies mainly in the core therapeutic areas of oncology, nephrology and immunology





Biologics/Antibody Engineering Technology

POTELLIGENT technology



The main feature of POTELLIGENT, originally developed by Kyowa Kirin, is its ability to remarkably increase the ADCC* activity by reducing the amount of the fucose in the structure of antibodies, thus causing the extremely effective elimination of targets, such as cancer cells.

Fully Human antibody-Producing Technology

Kyowa Kirin pioneered an epochal technique of transferring a fragment of human chromosome containing a very large cluster of genes to cell nuclei that generate fully human antibodies. This technology enables us to generate fully human antibodies with the same diversity as naturally produced human antibodies.

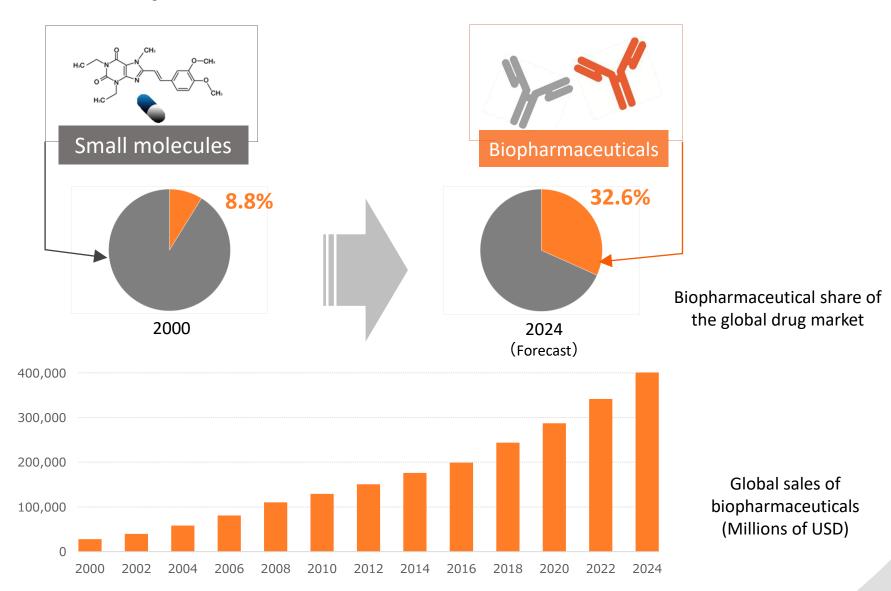
Takasaki Plant / Bio Process Research and Development Laboratories



Drawing on Kyowa Kirin's unique technologies accumulated over more than 20 years which started with the production of erythropoietin, the Takasaki Plant produces and supplies high-quality pharmaceuticals to patients worldwide using a system that complies with GMP standards in JPN, the US and Europe. The Bio Process Research and Development Laboratories supports our production of biologics by combining advanced technologies with four key factors, -technology to create, visualize, preserve and refine.



Market Potential of Biopharmaceuticals





Innovative New Drugs into the World

Other



Crysvita

FGF 23-related hypophosphatemic rickets/osteomalacia

An antibody that inhibits the action of excess FGF 23 due to genetic abnormality, improves hypophosphatamia-related symptoms such as rickets/ osteomalacia by improving urinary phosphate wasting.

Oncology





Poteligeo

Cutaneous T-cell lymphoma Peripheral T-cell lymphoma Adult T-cell leukemia /lymphoma

Poteligeo is a POTELLIGENT antibody targeting CCR4 expressed on leukemic cells. By binding to CCR4 on malignant T-cells, Poteligeo elicits an antitumor activity mediated by ADCC.

CNS





Parkinson's disease

It has a new mode of action that blocks adenosine A_{2A} receptor action. It has shown efficacy in patients with the wearing-off phenomenon, which is one of the motor complications.

Immunology/ Allergy

benralizumab

Asthma

It is a monoclonal antibody utilizing our POTELLIGENT technology. It quickly removes eosinophil that is considered to be highly involved in inflammatory respiratory diseases by the ADCC activity.

Sold by AstraZeneca.

Global Strategic Products

WW Revenue

32.6 Billion JPY (2019)

60.1 Billion JPY (2020)

WW Revenue

12.8 Billion JPY (2019)

16.3 Billion JPY (2020)

WW Revenue

9.8 Billion JPY (2019)

13.3 Billion JPY (2020)

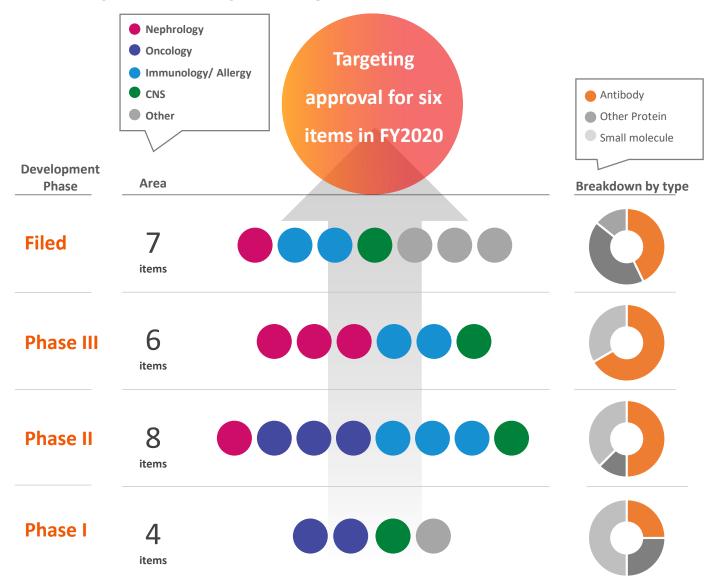
Out-licensed to AstraZeneca

Tech-licensing Revenue

8.9 Billion JPY (2019)



Research & Development Capability



As of December, 31 2019

Kyowa Kirin is developing innovative drugs using cutting-edge biopharmaceutical technology



Kyowa Kirin - To Pursue Further Growth - Enhance Synergies within the Kirin Group



Enhance synergies within the Kirin Group - our shared philosophies -

Gyowa Kirin

The Kyowa Kirin Group companies strive to contribute to the health and well-being of people around the world by creating new value through the pursuit of advances in life sciences and technologies.



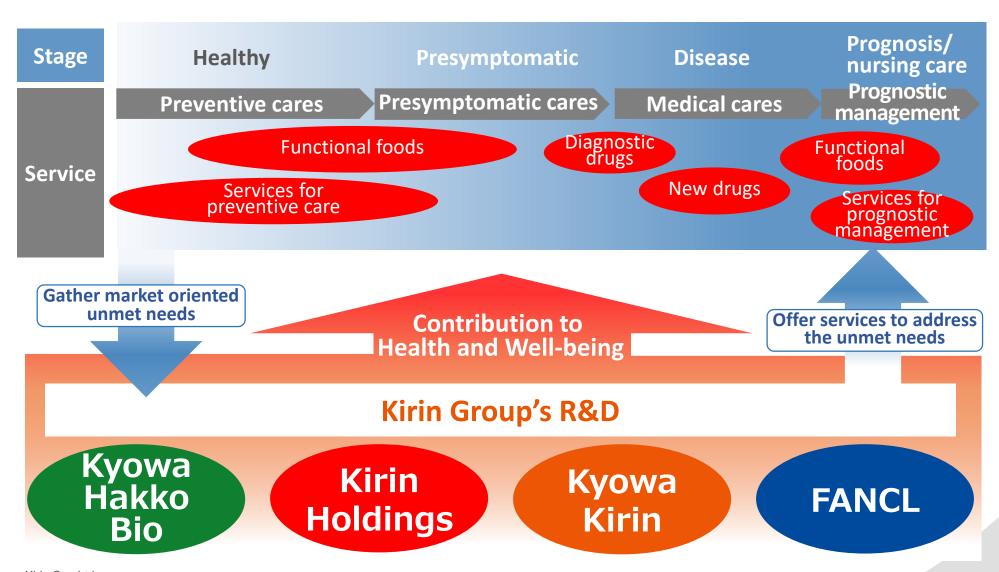
KIRIN brings joy to society by crafting food and healthcare products inspired by the blessings of nature and the insights of our customers.

New drug development based on corporate philosophy Contribution to the health, pleasure, and comforts of people around the world through innovative style of "Food and Health"

As a member of Kirin Group, Kyowa Kirin contributes to the next-generation healthcare via services including preventive cares, prognosis cares and personalized cares



Contributions to the next-generation healthcare -





Enhance synergies within the Kirin Group

Basic research collaborations targeting disease of brain,

kidney, immune system, and intestine

R&D know-how Hop derived for CNS area in ingredients Kyowa Kirin **R&D** know-how **Functional foods**

Parkinson's disease 2 million patients in

Japan, the US, and **Europe**

Alzheimer's disease 10 million patients in Japan, the US, and Europe

> **Chronic Kidney** disease 13 million patients in Japan

High unmet medical needs and great market opportunities

for kidney area in

Kirin Kirin



Enhance synergies within the Kirin Group

- ◆ Basic research collaborations targeting disease of brain, kidney, immune system, and intestine
 - From 2016, research collaboration activities are conducted periodically to find new and cutting-edge approaches in healthcare services. (Kyowa Kirin, Kirin Holdings and Kyowa Hakko Bio)
 - Initiate projects after making contract agreement in each case to create new business values and secure intellectual properties

GYOWA KIRIN