

Chugai Company Information Meeting

Chugai Pharmaceutical Co., Ltd.

June 30, 2023



Important Reminders



This presentation may include forward-looking statements pertaining to the business and prospects of Chugai Pharmaceutical Co., Ltd. (the "Company"). These statements reflect the Company's current analysis of existing information and trends. Actual results may differ from expectations based on risks and uncertainties that may affect the Company's businesses.

Information regarding pharmaceuticals (including products under development) is included in this presentation, but is not intended as advertising or medical advice.

Chugai Company Information Meeting Agenda





A Brief Overview of Chugai

Dr. Osamu Okuda

Representative Director, President & CEO



Proprietary Innovative Antibody Engineering Technologies

Dr. Tomoyuki Igawa

Associate Vice President, Head of Translational Research Div.



A Brief Overview of Chugai

Representative Director, President & CEO

Dr. Osamu Okuda

Company Overview



An R&D-Driven Pharma Company with Expertise in Oncology and Biologics

A Leading Japanese Drug Manufacturer (FY2022 IFRS on a Core basis)

- Revenue 1,168.0 billions of yen, operating profit 451.7 billions of yen, 7,771 employees
- No. 1* share of Japanese oncology market
- No. 1* share of Japanese antibody drug market

A Unique Business Model

Chugai's strategic partner Roche holds 59.89% of Chugai's shares Chugai autonomously operates as an independent listed company

Unique Science and Drug-Discovery Technologies

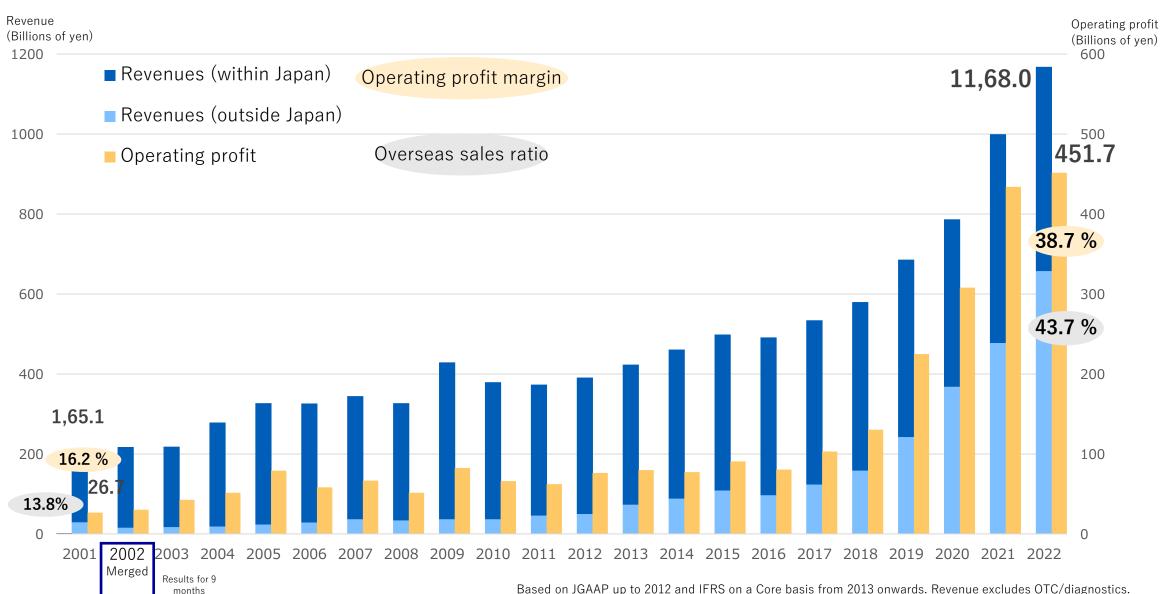
Chugai launched the first Japanese therapeutic antibody and has world-leading drug discovery technologies in antibodies, mid-size molecules, etc.



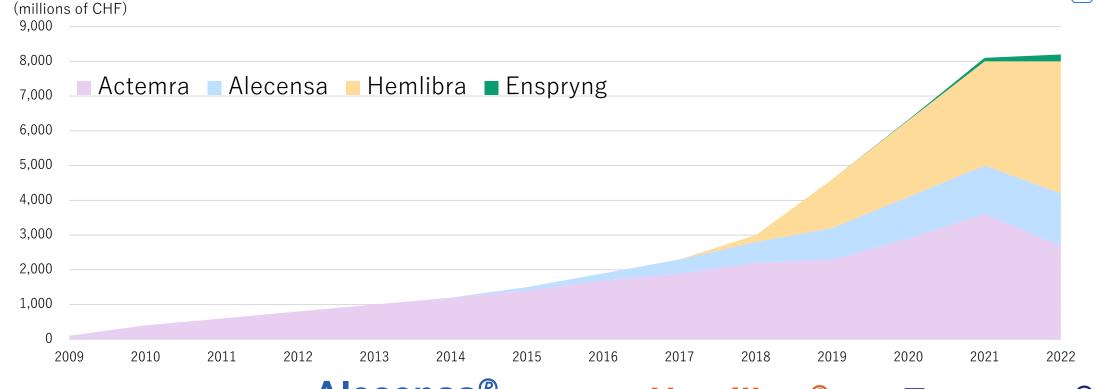


Trajectory of 20 Years





Global Sales of Chugai Originated Products







- First Japanese antibody drug
- Indications: Rheumatoid arthritis, etc.
- Global sales exceed 300.0 billions of yen



- Representative of personalized health care
 promoted by Chugai
- Indication: ALK-positive lung cancer
- Approved as first-line treatment (JP/US/EU)
- Global sales exceed 150.0 billions of yen

Hemlibra®



- Uses proprietary antibody technology
- Indication: Hemophilia A
- Global sales exceed 500.0 billion yen

Enspryng®

Roche Roche Group

- Uses proprietary antibody technology
- Indication: Neuromyelitis
 n optica spectrum disorders

Business Model That Implements Managerial Autonomy Based on a Strategic Alliance with Roche





- Chugai products are maximized in the global market
- Abundant Roche products are marketed in Japan

Products from Chugai research

Specialize in innovative, challenging drug discovery

Out-licensing products to Roche enables accelerated global development and marketing



- Roche products are maximized in the Japanese market
- Innovative Chugai originated products are marketed globally

Products in-licensed from Roche

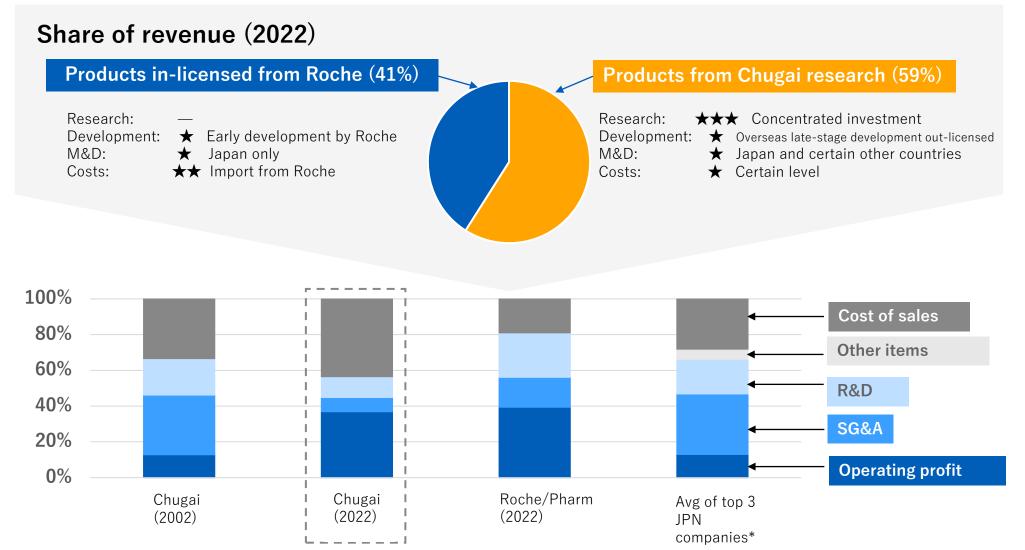
Exclusively develop and deliver promising new-drug candidates in Japanese market

Secure stable revenue base in domestic market

Features of the Earnings Structure Apparent in Our Unique Business Model



Chugai achieves a high operating profit margin of approx. 40%



*Average of the top three listed pharmaceutical companies in Japan for ethical drugs (Takeda Pharmaceutical Company Limited, Astellas Pharma Inc., and Daiichi Sankyo Co., Ltd.); from each company's financial results materials for the fiscal year ended March 31, 2022

Growth Strategy for 2030, "TOP I 2030"



"Double R&D output" & "Launch global in-house products every year"

Global First-class Drug Discovery

- Expansion of existing technological bases and building a new technological foundation to materialize unique drug discovery ideas
- Launch in-house global products every year by doubling R&D output
- Accelerating innovation opportunities by strengthening collaboration with leading global players and leveraging digital technologies

Futuristic Business Model

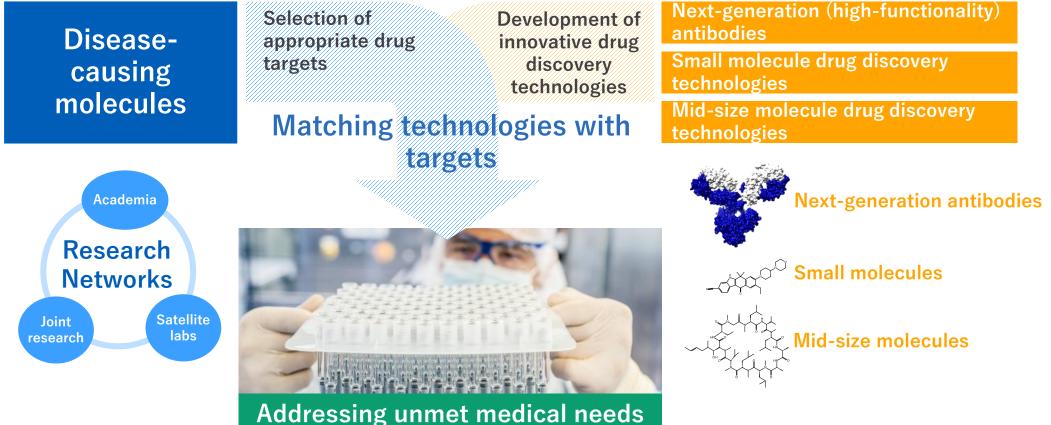
- Dramatic improvement in product / patient value by restructuring business model, having digital utilization as a core
- Improve productivity of entire value chain by leveraging digital technologies.
- Commercialization of insight business with the aim of maximizing the value of pharmaceuticals and having a new business pillar

Key Drivers **DX RED SHIFT Open Innovation**

Chugai Research Strategy: A technology-driven approach



- Enabling an optimal approach for disease targets by developing mid-size molecule drug discovery technologies in addition to antibody engineering technologies and small molecule drug discovery technologies
- Acquiring innovative "seeds" by enhancing oncology and immunology research infrastructure





Proprietary Innovative Antibody Technologies

Associate Vice President, Head of Translational Research Div.

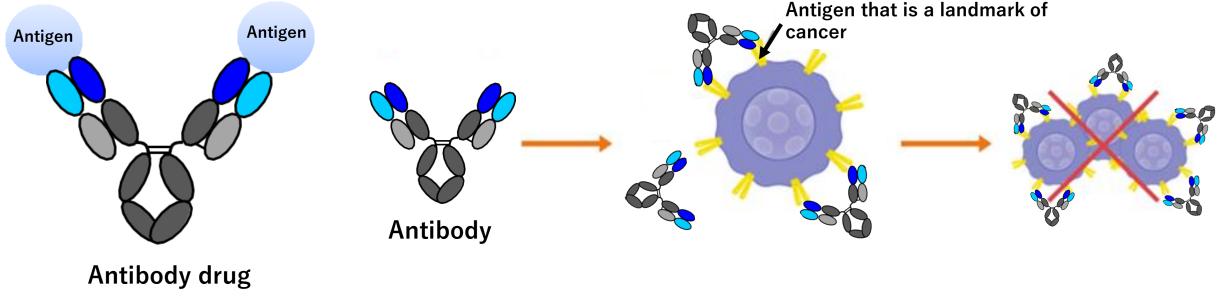
Dr. Tomoyuki Igawa

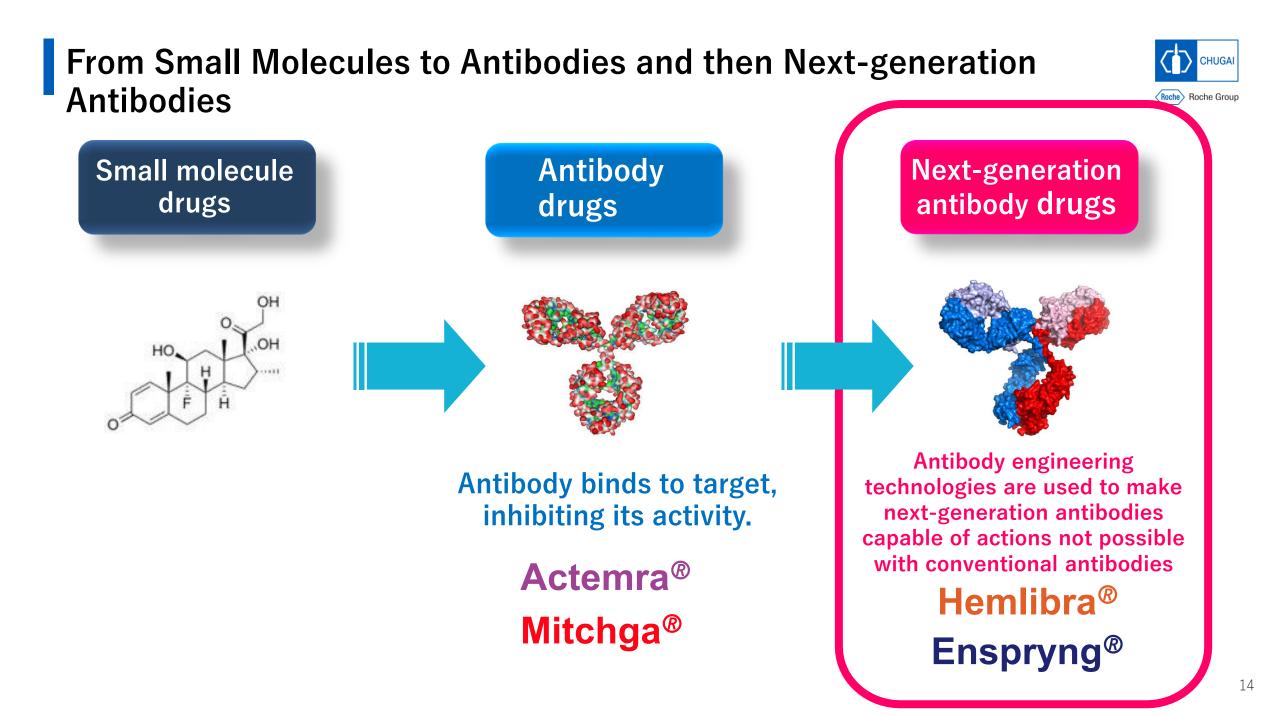
What is an Antibody Drug?



When a pathogen or other foreign substance (antigen) enters the body, antibodies exhibit an antigen-antibody reaction that binds to the foreign substance and detoxifies it as an immune reaction.

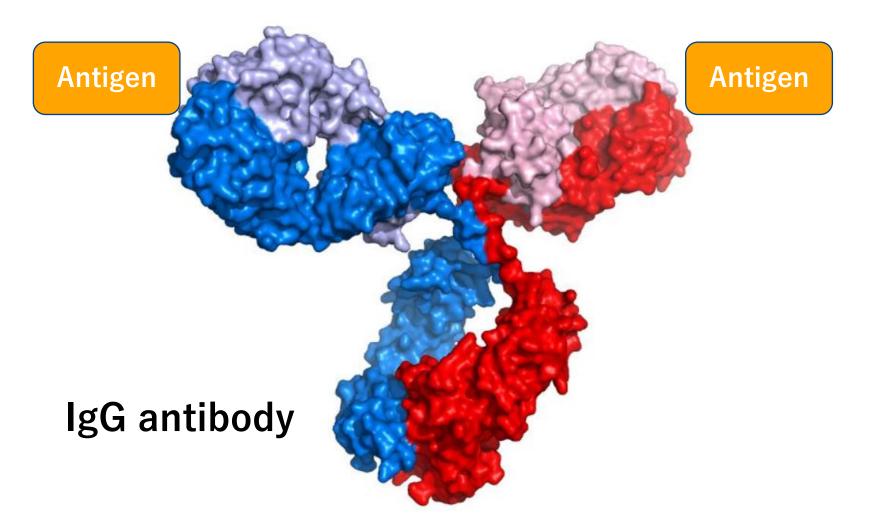
Antibody drugs are drugs that artificially use this antigen-antibody reaction. Uniform antibodies are mass produced using biotechnology and used as drugs.





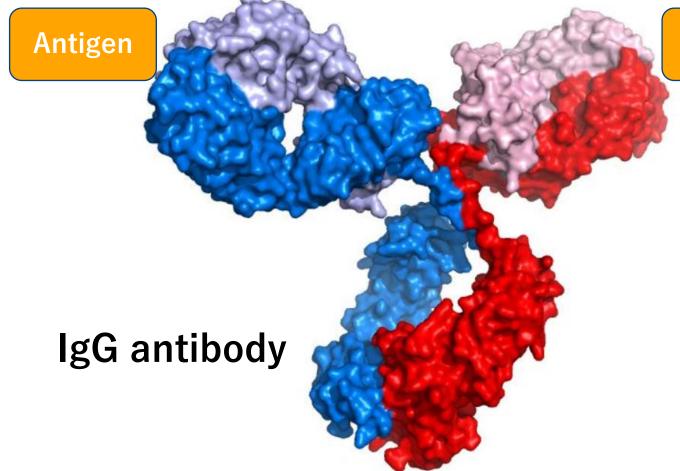
Looking Deep into Antibodies to Make the Impossible Possible





What Antibody Drugs Cannot Do (1)





Antigen

Conventional antibodies can bind to an antigen only once.

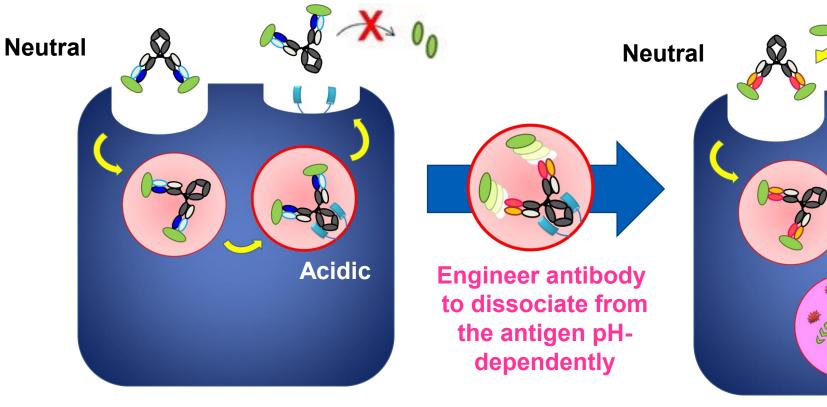
Might it be possible to make an antibody that binds to antigens multiple times and thereby works more efficiently?

Recycling Antibody[®]

Antibody that binds to antigens many times, maintaining long-term efficacy



Conventional Antibody



Recycling Antibody[®]

Antibody binds to the antigen only once

Antibody can bind to antigens multiple times Igawa T. et al. Nat Biotechnol 2010.

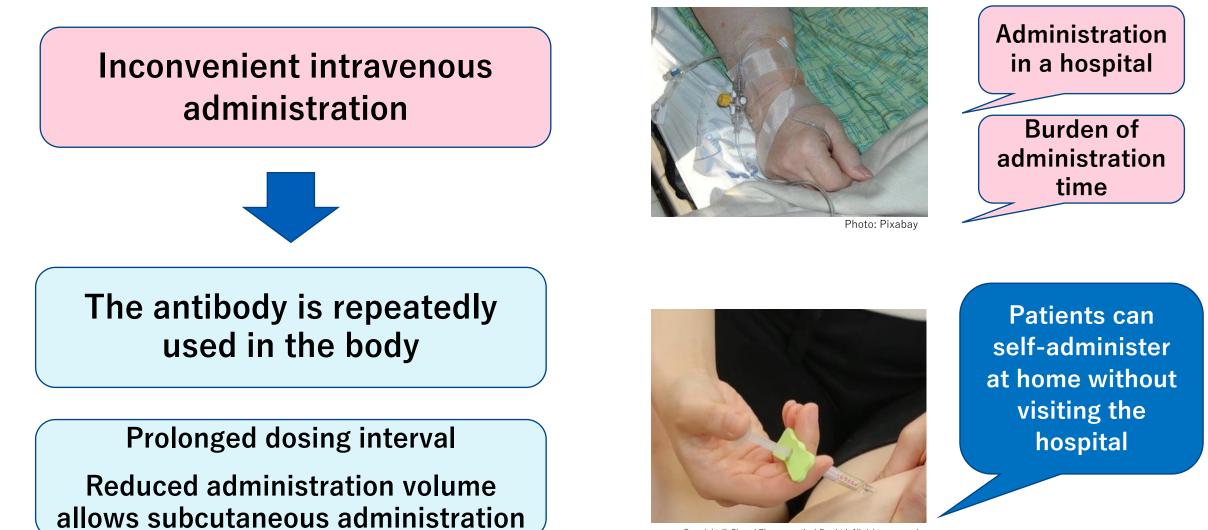
Acidic

Conceptual illustration

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Advantages of Recycling Antibody[®]





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What Antibody Drugs Cannot Do (2)



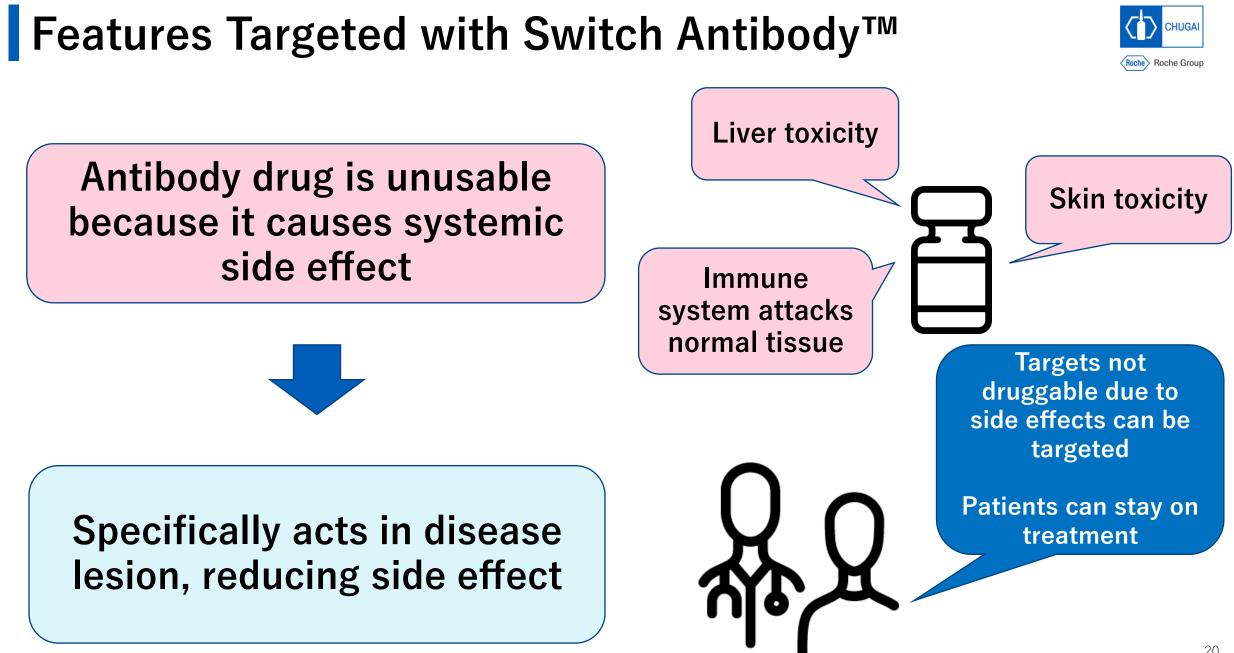
IgG antibody

Antigen

Antigen

Conventional antibody binds to the target antigen in both disease lesion and normal tissue

Might it be possible to make an antibody that binds to the target antigen only in disease lesion to reduce side effect in normal tissue?

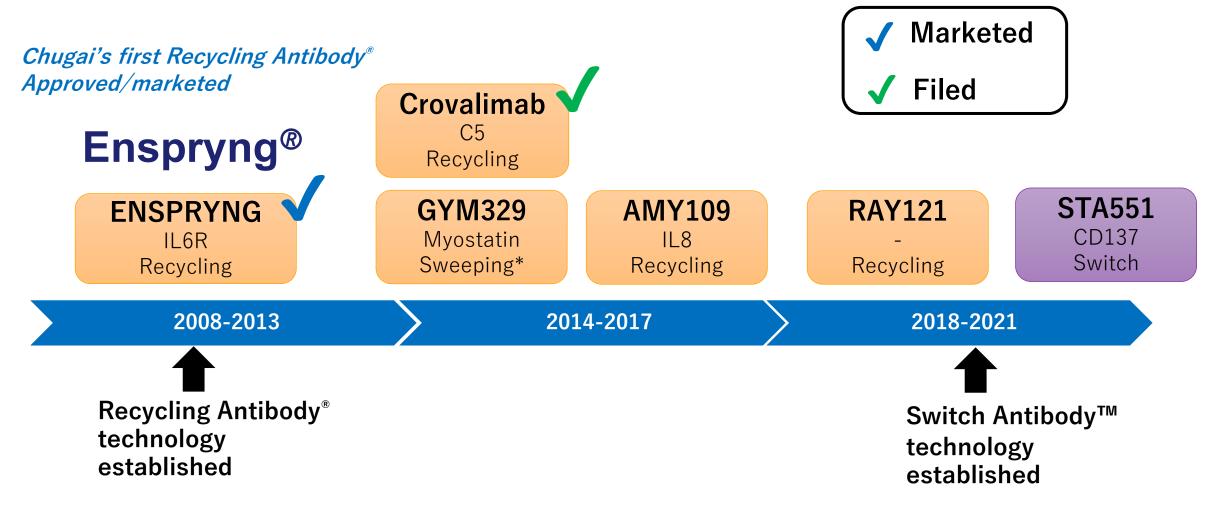


Switch Antibody[™] Technology Antibody that specifically acts in disease lesion Switch OFF Switch Antibody[™] Does not bind to the target antigen in normal tissue because there are few switch molecules Normal tissue Normal cell Tumor Switch ON Binds to the target antigen in tumors because there are many switch molecules Tumor cell

Roche Roche Group

Conceptual illustration

Creating a Proprietary Pipeline with Recycling Antibody[®] and Switch Antibody™



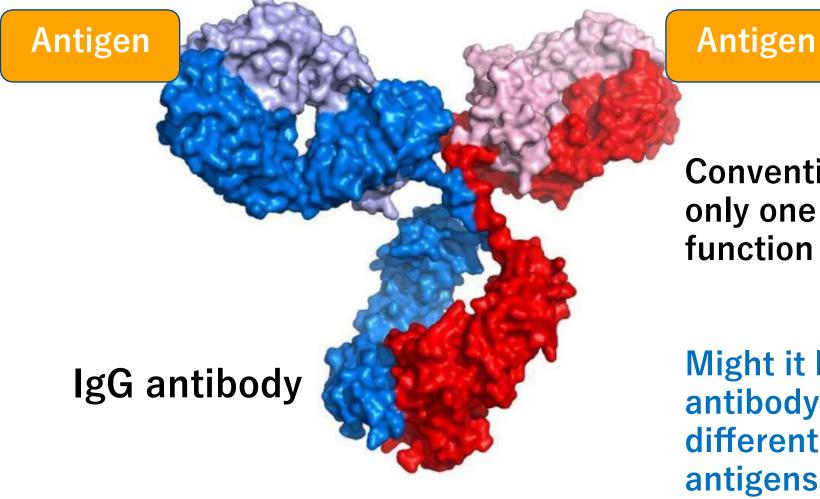
* Sweeping Antibody[®] is a further improved version of Recycling Antibody[®]

CHUGA

(Roche) Roche Group

What Antibody Drugs Cannot Do (3)





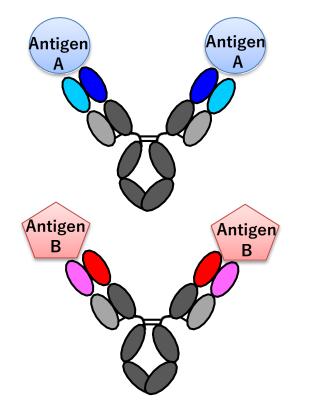
Conventional antibody binds to only one type of antigen and the function is limited to inhibition.

Might it be possible to make an antibody whose arms bind to different antigens to bring those antigens into proximity, and exhibit a new action not previously seen?

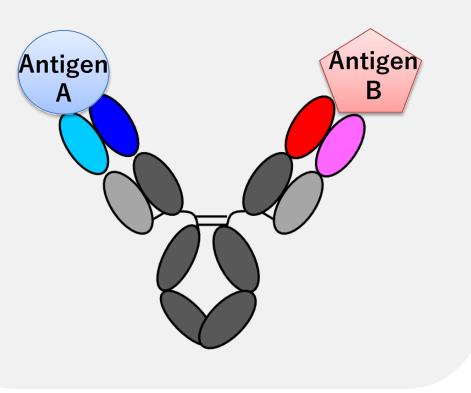
Bispecific Antibodies Capable of Binding to Two Different Antigens



Conventional antibody



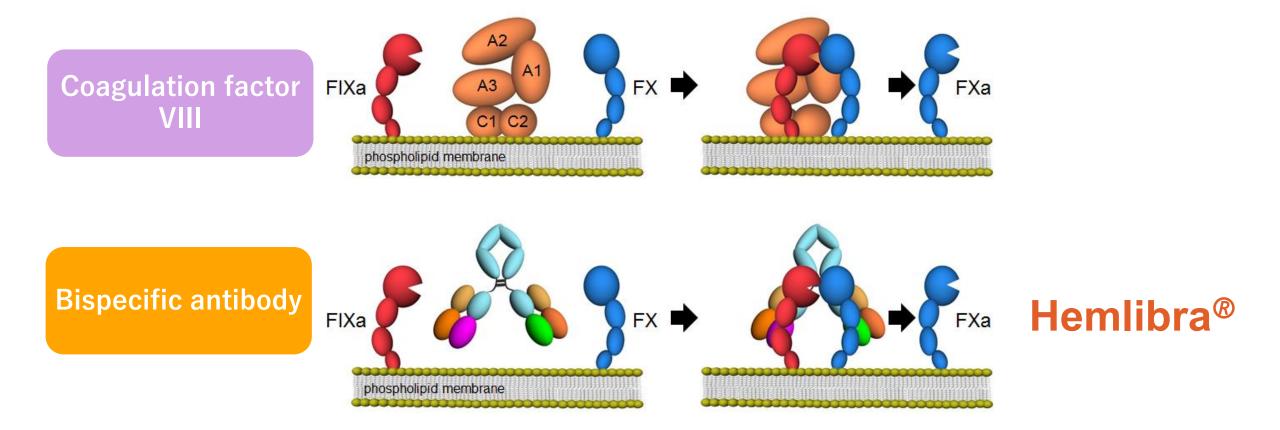
Bispecific antibody



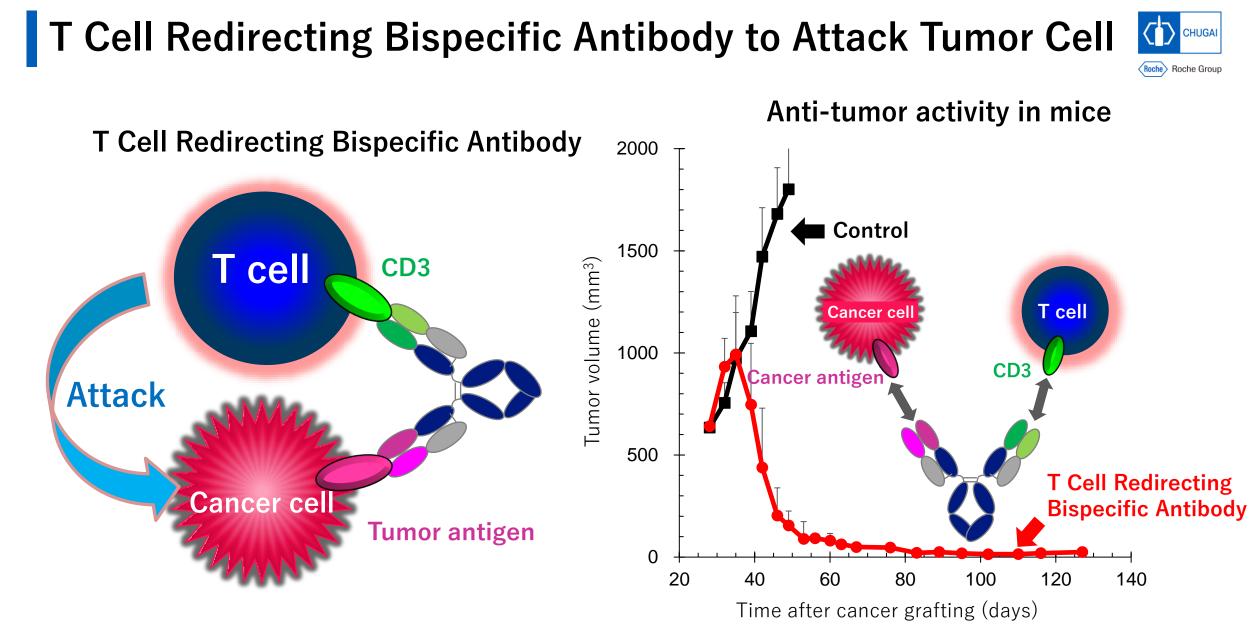
Treatment of Hemophilia A with Bispecific Antibody

CHUGAI

Convenient subcutaneous formulation that can be self-injected at home



Kitazawa et al, Nature Medicine, 2012.

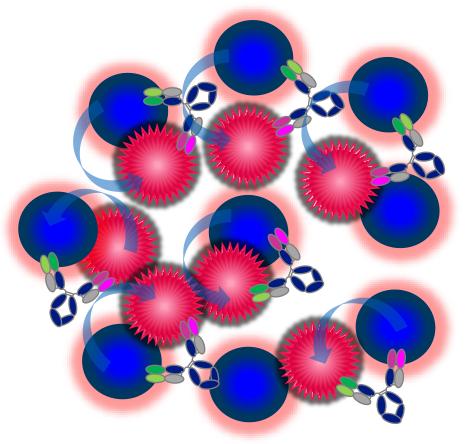


Ishiguro T. et al. Sci Trans Med 2017.

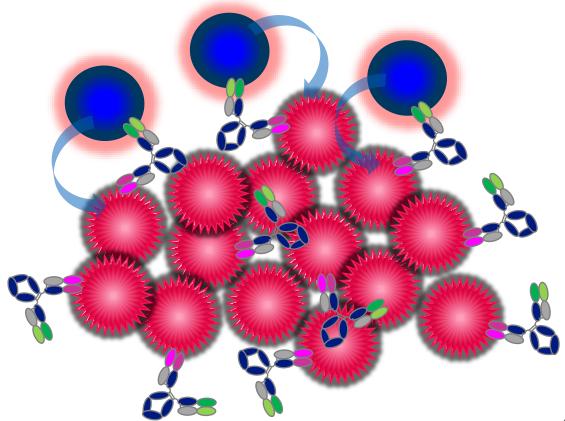
When Few T Cells are Present in Tumor site, the Effects of T Cell Redirecting Bispecific Antibody are Limited



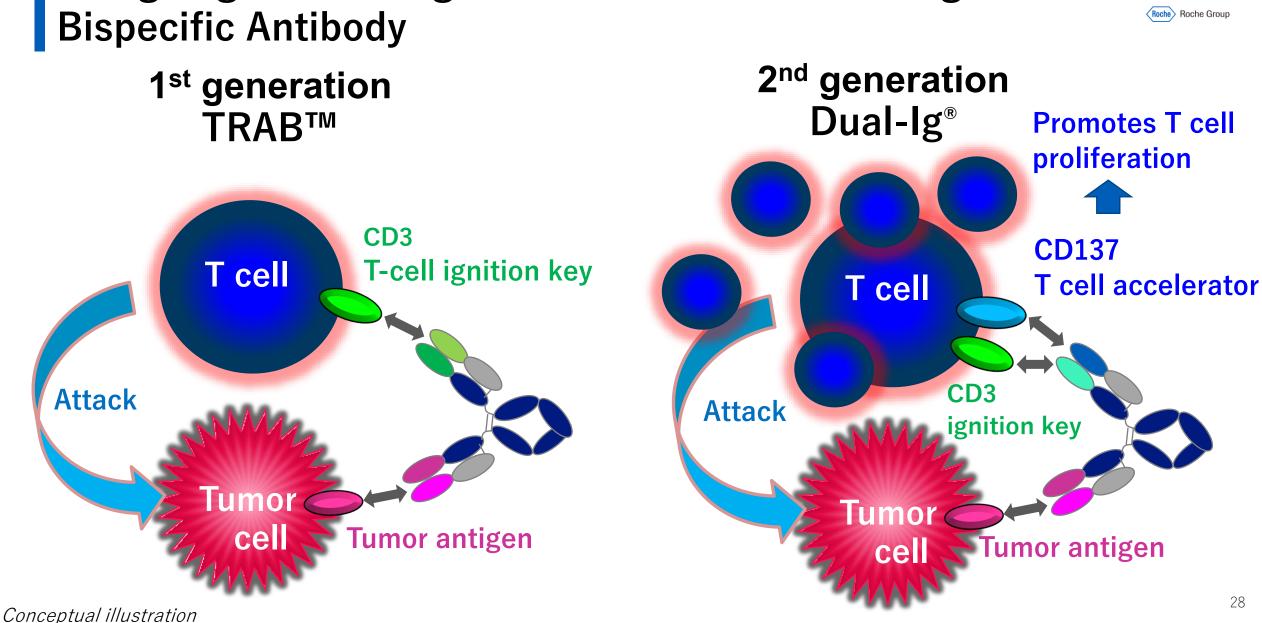
High anti-tumor activity is achieved when sufficient T cells are present



Anti-tumor activity is limited when few T cells are present



Conceptual illustration



Designing a Second-generation T Cell Redirecting

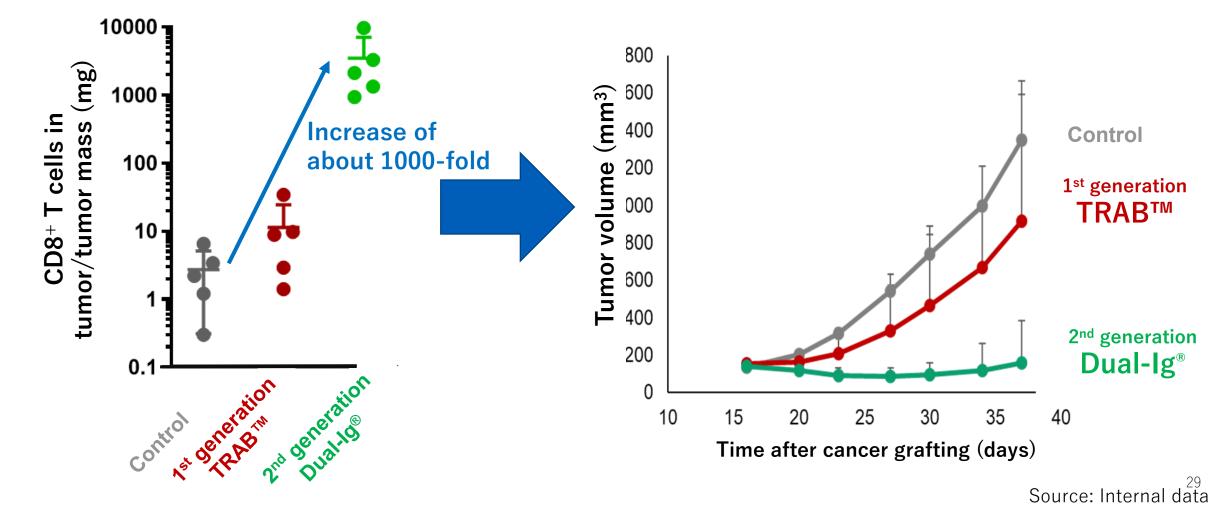
CHUGA

2nd Generation T cell Redirecting Bispecific Antibody, Dual-Ig[®] Greatly Increases the Level of T Cells Capable of Attacking Tumors



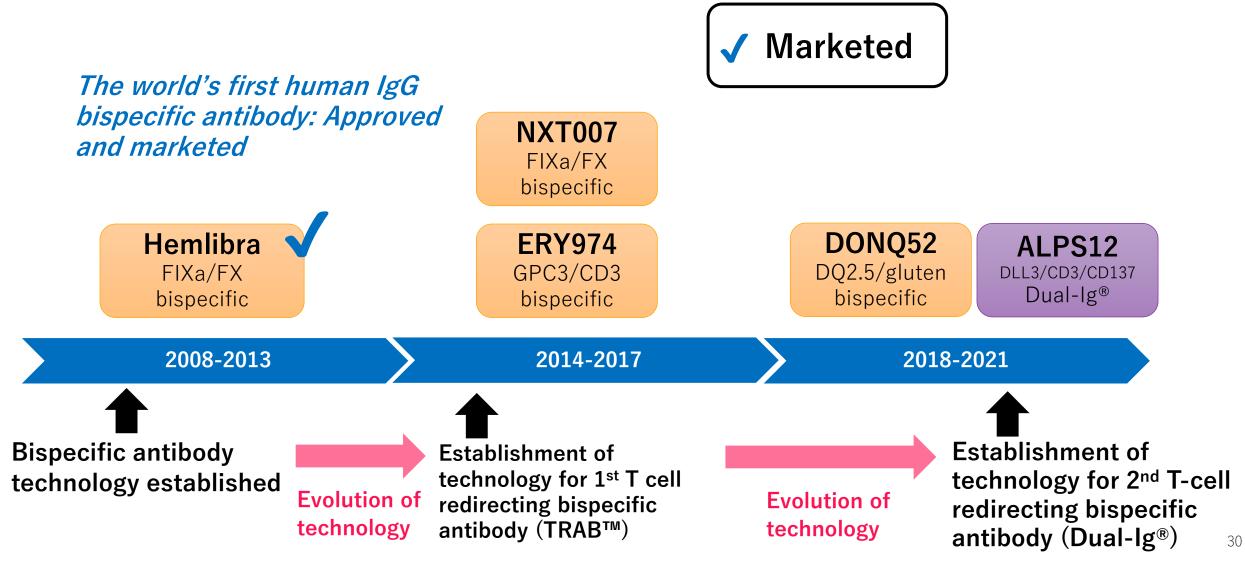
Number of T cells in mouse tumor

Anti-tumor activity in mice



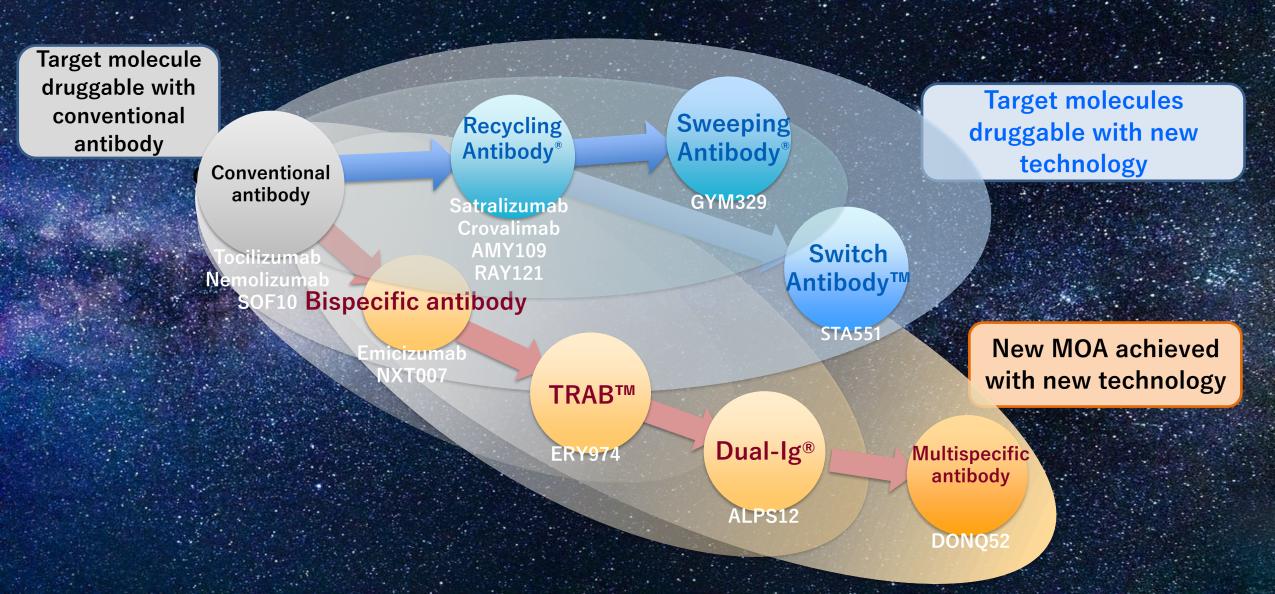
Creating a Proprietary Pipeline with Bispecific Antibody Technology





Expanding Drug Space with Proprietary Innovative Antibody Technologies





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INNOVATION BEYOND IMAGINATION