



Kobe Biomedical Innovation Cluster

Business opportunities through the Kobe Biomedical Innovation Cluster, Japan's most advanced Life Sciences industry ecosystem

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19th May 2021



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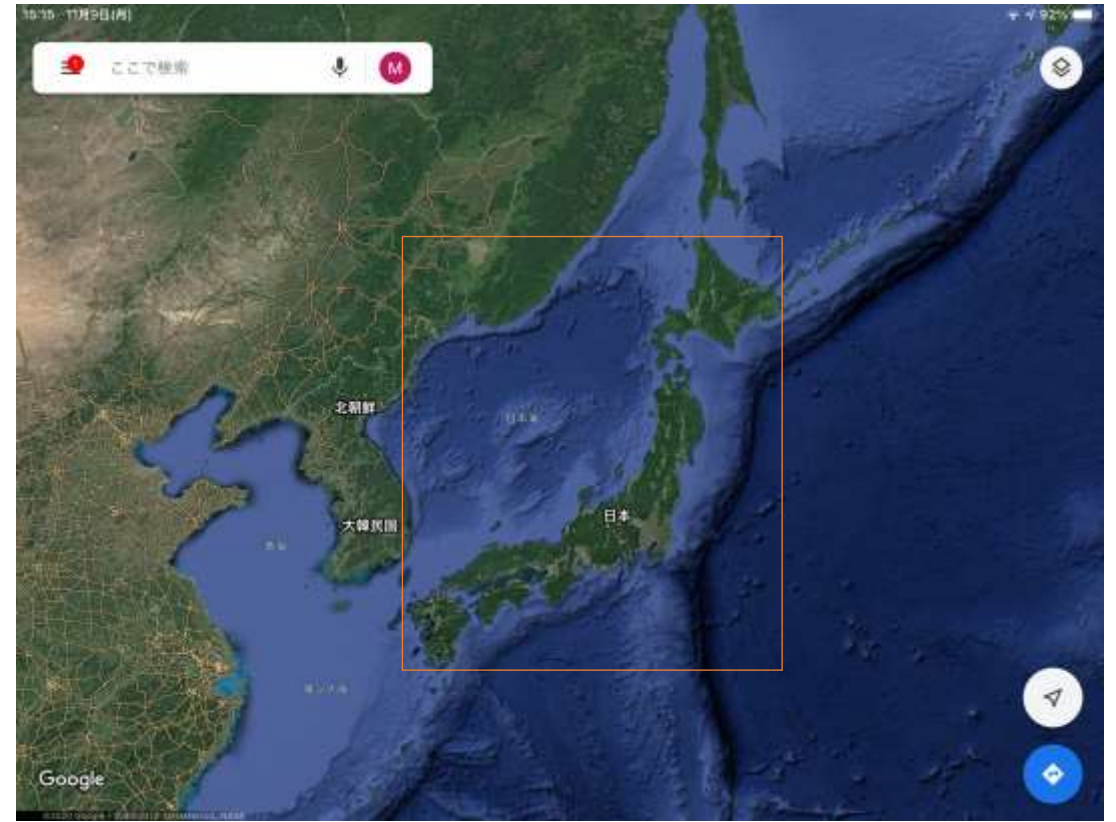
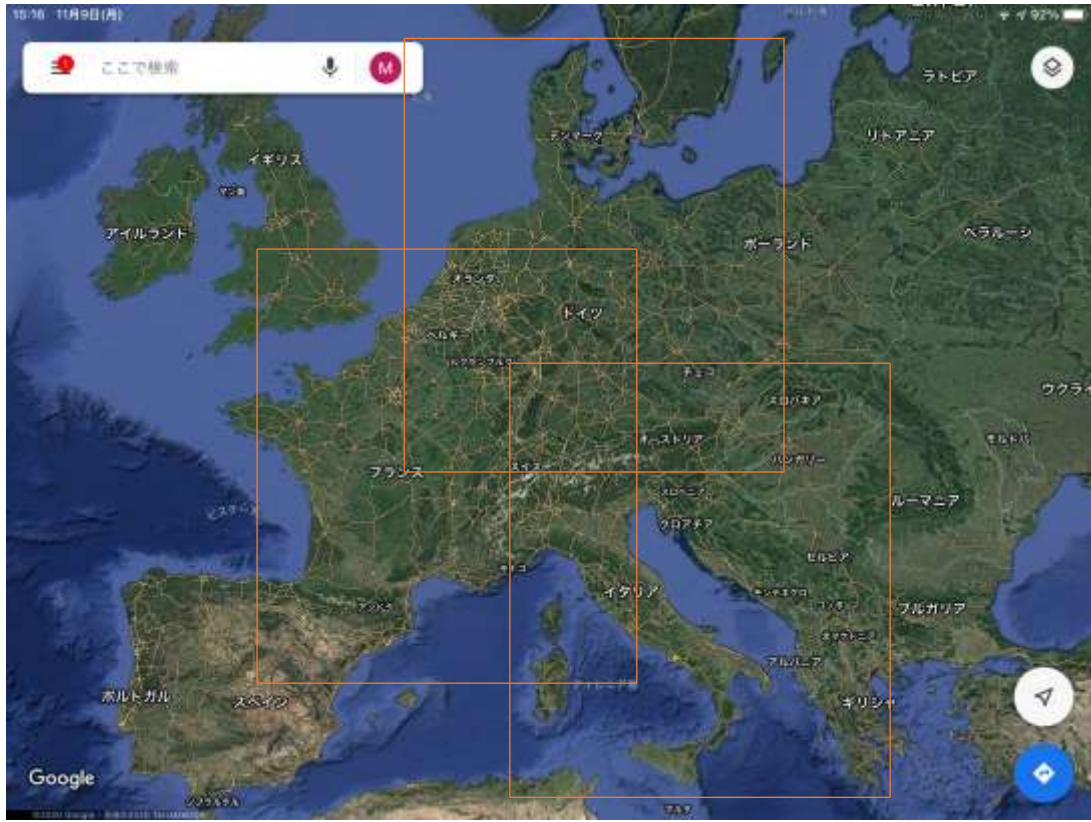
1. Introduction of KBIC and its ecosystem
2. Opportunities of collaboration with KBIC members
3. Your opportunities as a KBIC member



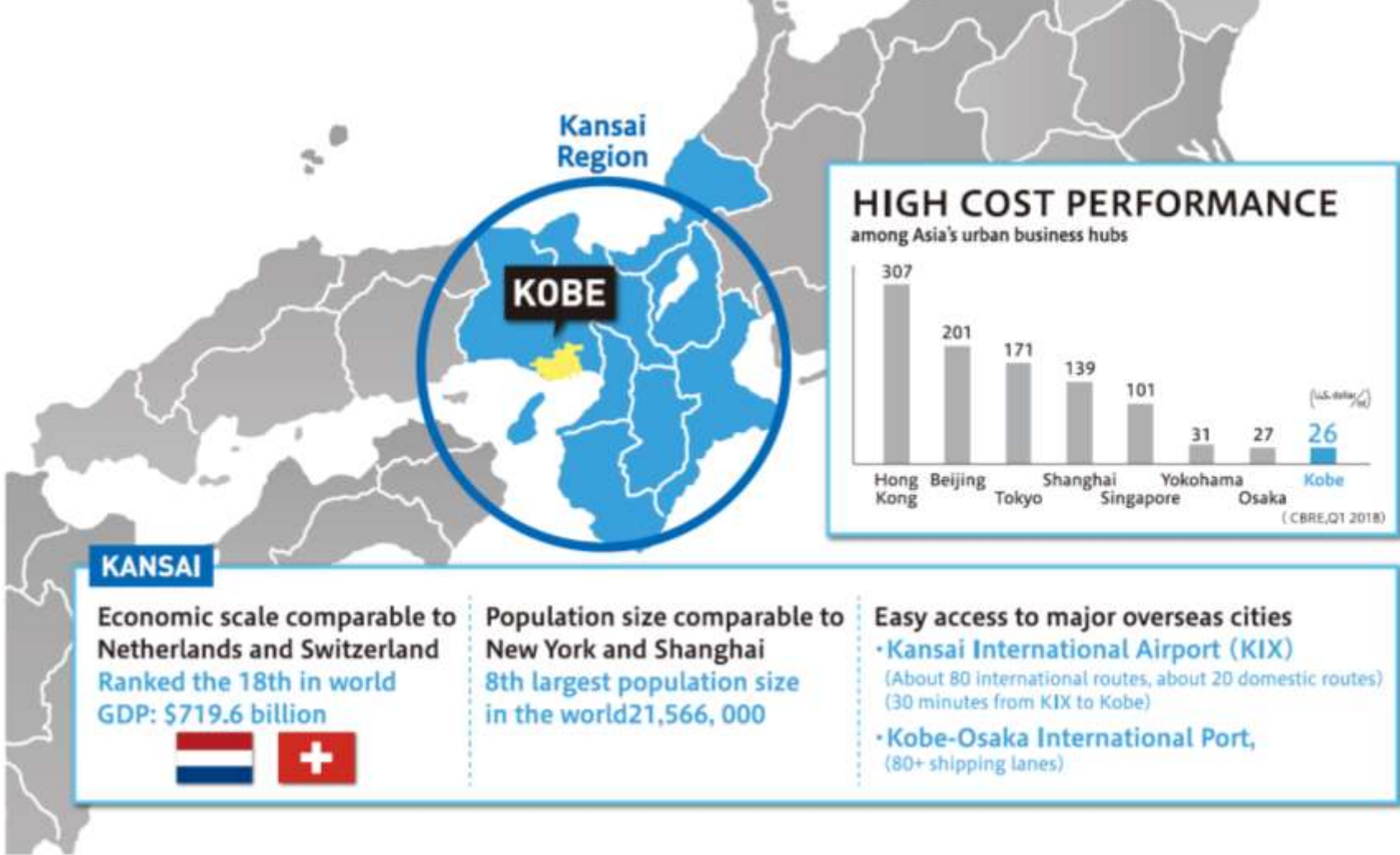
1. Introduction of KBIC and its ecosystem

<https://www.youtube.com/watch?v=bTD6encK4aY>





Kobe as a Strategic Business Location



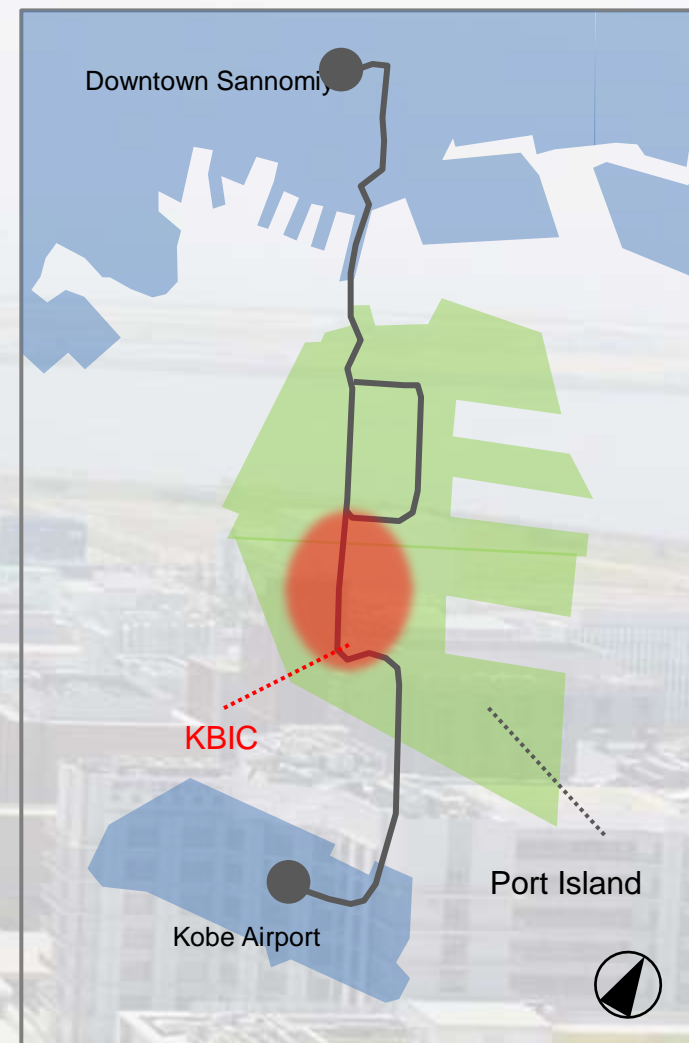
Kobe Biomedical Innovation Cluster (KBIC)

■ Japan First Biomedical Hub

(since 1998)

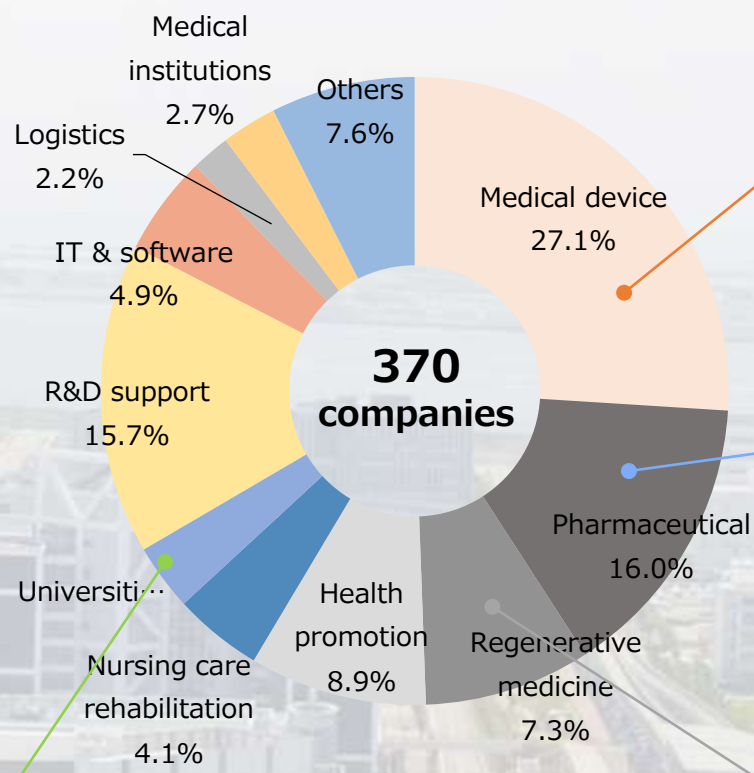
■ 3 Focus

- Medical Devices
- Drugs
- Regenerative Medicines





Company Breakdown as of April 30, 2021



Medical device



Pharmaceutical



Regenerative medicine



Universities



2. Opportunity of collaboration with KBIC members





Opportunity to collaborate with hospitals at KBIC

Provision of optimum medical care through collaboration within the cluster



Total number of beds: approx. 1,500
Total number of patients in 2017:
Inpatient approx. 400,000
Outpatient approx. 600,000



Companies, Institutes, Universities
wish to collaborate with medical institutions

Clinical trial

Joint research,
development

Product
evaluation

Comments on
the product

Needs
identification

Others

KBIC

Hospital



Opportunity to collaborate with Research institutes at KBIC



RIKEN Center for Biosystems Dynamics Research (BDR)



RIKEN Integrated Innovation Building (IIB)



Institute of Biomedical Research and Innovation (IBRI)



Translational Research and Informatics Center (TRI)

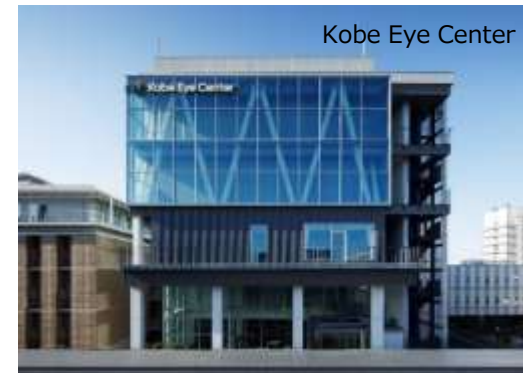


"CoLaborator Kobe"



Supporting development of cell therapy and standardization of regenerative medicine

- **Ensuring the safety of cell products**
 - Developing test measures to ensure safety
 - R&D on standardization of cell culture and quality inspection method
- **Cell production and Management of Cell processing center**
 - Cell production in accordance with GMP (Good Manufacturing practice)
 - Management of cell processing and quality inspection center
- **Development for cell processing system**
 - Developing the system to enhance productivity and ensure security



Director
Shin KAWAMATA

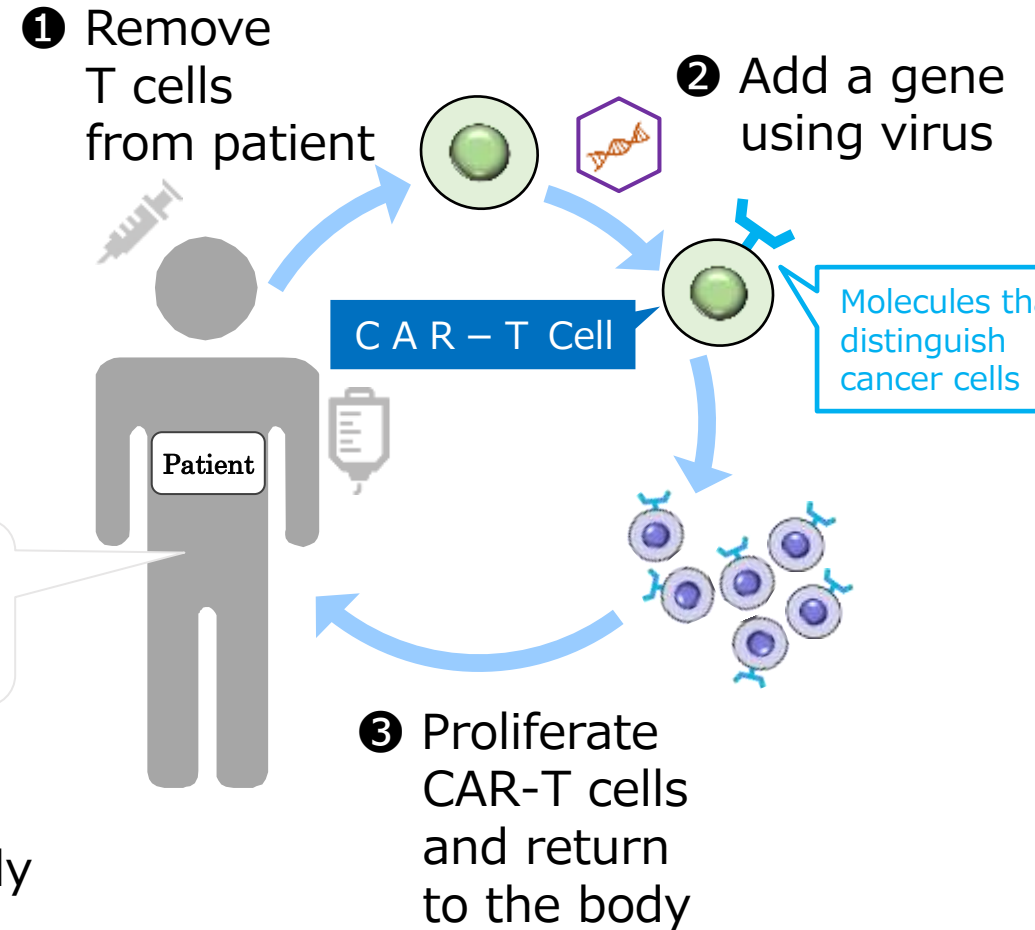


- ❑ FBRI as first CAR-T cell therapy commercial manufacturing site in Asia!
- ❑ Prestigious FBRI is recognized for its world-class expertise and established practice in CAR-T cell therapy

The expertise and infrastructure of FBRI, a world-leading manufacturing organization, allows Novartis bring CAR-T manufacturing to Asia.



Mechanism of CAR-T therapy



Why FBRI was selected



- Develop human resources for cell manufacturing
- Efficient operation and management of CPC
- Meeting strict quality standards for pharmaceutical manufacturing

- Technological capabilities that enable manufacturing of cell preparations in overseas standards
- CPC management system results in Regenerative medicine initiatives in Kobe Medical Industrial City

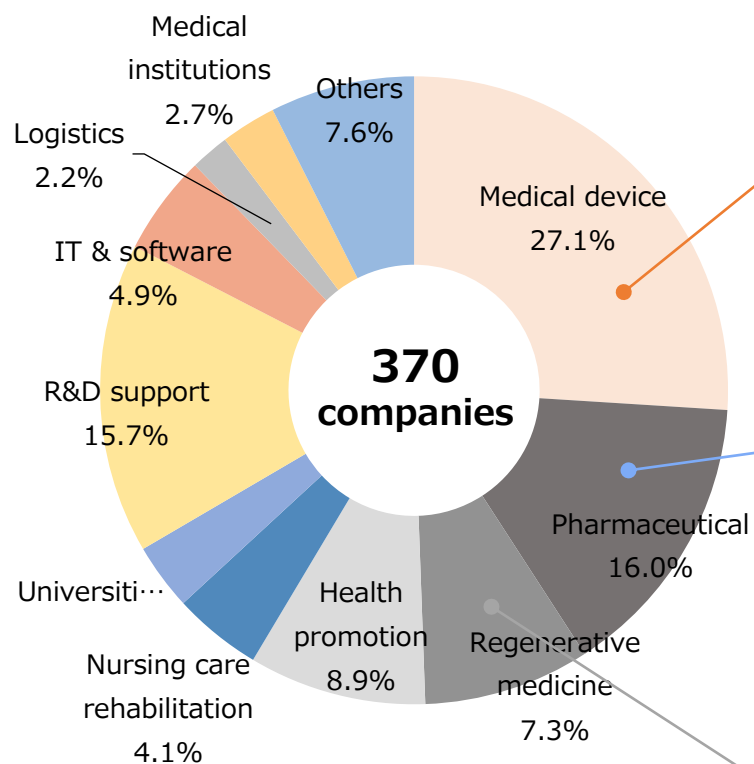
Novartis global CAR-T footprint now spans four continents, bringing Kymriah closer to patients and healthcare professionals around the world



Kymriah® manufacturing sites – international supply chain network



Opportunity to collaborate with companies at KBIC



Company Breakdown as of 30th April 2021

Medical device

Pharmaceutical

Regenerative medicine





Established in August 2013
Product development since April 2015

Marketing, R&D, Manufacturing,
Sales, Customer Support
in Medical Robot

Technology, safety and
reliability cultivated in the
industrial robot business

Technologies and networks
cultivated in the healthcare
Business in IVD

Kawasaki Heavy Industries, Ltd.

Sysmex Corporation







Medicaroid and KARL STORZ concluded an umbrella agreement to form a business alliance for the equipment of robotic assisted surgery systems.

Based on this agreement, Medicaroid will be supplied with surgical devices from KARL STORZ, and develop a clinically useful robotic system by applying such premium products to the robotic system which is currently under development by Medicaroid.

<Extracted from the press release by Medicaroid Corporation on 4/10/2018>

3. Your opportunity as a KBIC member





Valuable Programs for KBIC Companies and Organizations

- ◆ Networking
- ◆ Support commercialization
- ◆ Support for HR recruitment
- ◆ Joint participation in exhibitions
- ◆ Subsidies and grants



Business Support for KBIC Companies and Organizations

One-stop service
A dedicated coordination service as a guide to provide comprehensive support for the various matters, such as administrative affairs, and strategy plan/execution.

Support for HR Recruitment
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A dedicated coordination service as a guide to provide comprehensive support for the various matters, such as administrative affairs, and strategy plan/execution.



Enhanced Business Environment (Initiative of KBIC support organizations)

- Platform to Promote Medical Device Commercialization**
- Drug Discovery Accelerator Program**
- Pharmaceutical Development/Innovation of New and Novel Drugs**
- Small Business Service Development Support Program** (2,283)
- Safe Research Complex Program**
- Industrial Use of the Supercomputer (Fugaku, FUGO)**
- Research Hospital**
- Biomedical Center, Kobe University Hospital**



Incentives for Expansion

Expanding Business Network
In addition to field-specific study activities, we provide business networking through field-specific events, exchange meetings, career counseling and computer-aided search work.

- Cluster Networking Events**
- Regenerative Medicine Study Group**
- Drug Discovery Forum**
- Medical Environment Incentives Program**

Joint Participation in Domestic and International Exhibitions
Create opportunities to display and expand sales channels.


- Regenerative Medicine and Pharmaceutical Biotechnology & New Materials**
- Medical Devices**
- Healthcare & Medical Robotics/Healthcare**



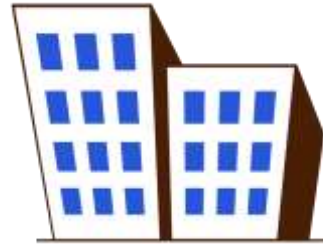
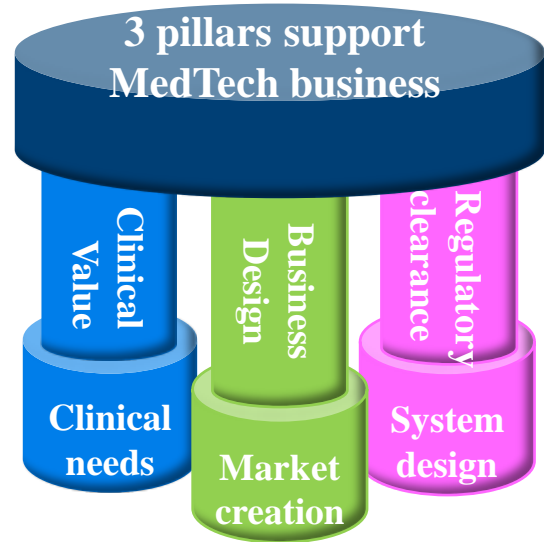
Subsidies and Grants
Various support services are available.

- Office Rent Subsidy System**
- Office and Lab Rent Subsidy System**
- Support System for Foreign and Foreign-affiliated Companies**
- Startup Subsidy System**
- Building Acquisition Subsidy System**
- Construction Price Discount System**
- KBIC Grants and Subsidies**
- Support for HR Recruitment**

For more in details, please visit at;
https://www.fbri-kobe.org/kbic/english/movies/download/kbic_attract_eng_A4.pdf



Platform to support MedTech commercialization



Companies in KBIC

Questions

Advice

Coordinators in CCD/ FBRI



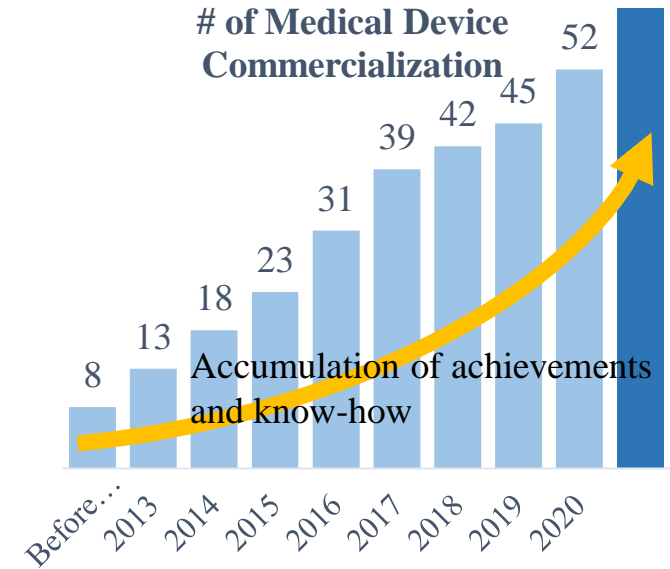
Ask Opinions



Professional Advice



Professional Adviser for KBIC





Medical Institute



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Regulatory Authorities in JAPAN

<p>Pharmaceutical Safety and Environmental Health Bureau, MHLW</p> <ul style="list-style-type: none"> Final Authorization of applications Publishing Guidelines Advisory committee Supervising PMDA Activities <p style="text-align: right;">MHLW</p>	<p>Pharmaceuticals and Medical Devices Agency</p> <ul style="list-style-type: none"> Scientific Review for Drugs & Medical Devices GCP, GMP Inspection Consultation on Clinical Trials etc. <p style="text-align: right;">PMDA</p>
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Toyama




Hokuriku Branch
(Seminars for GMP & others)

Osaka



Kansai Branch
(consultation on R&D Strategy)

Kobe Branch
(consultation on R&D Strategy)



Tokyo

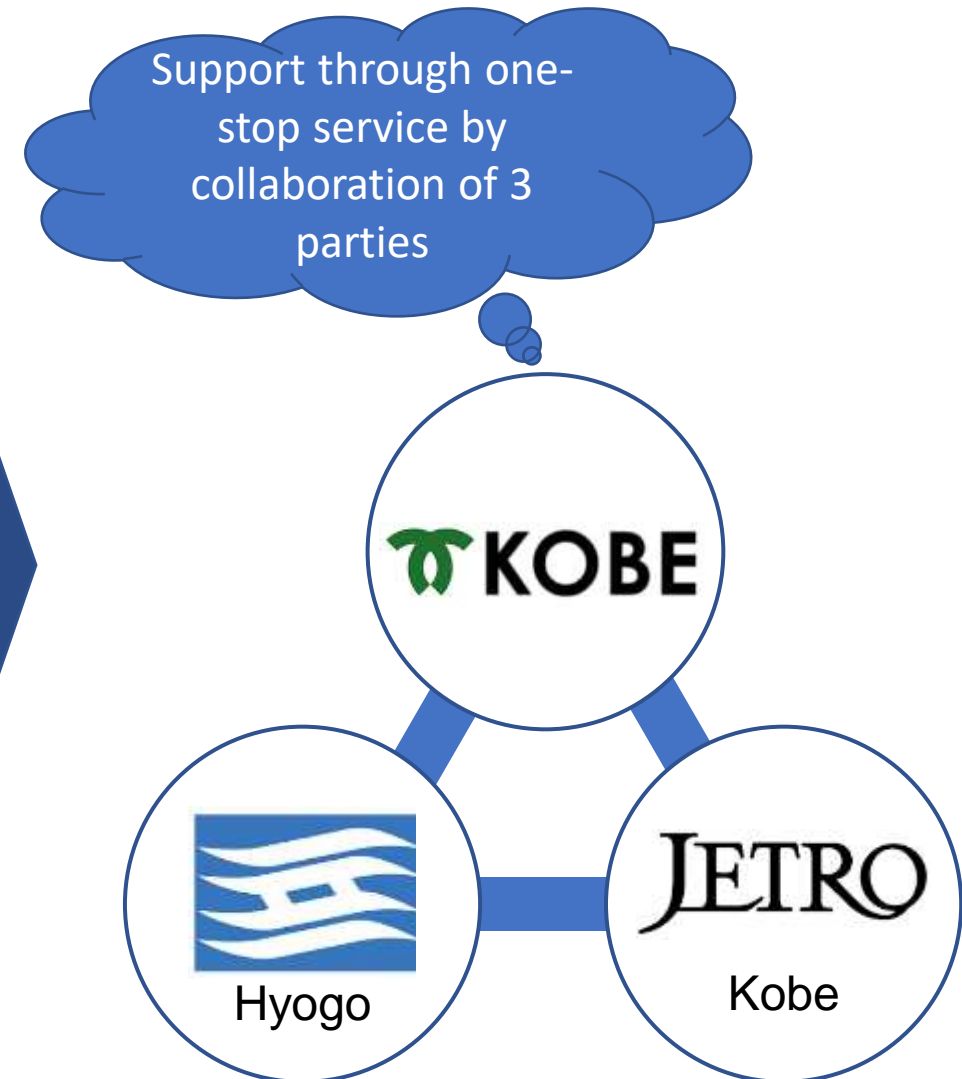


Main office



PMDA website:
<http://www.pmda.go.jp/english/index.html>

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Dürr Dental Japan

Established in 2014

KBIC member since 2019



Thank you for your attention!



inquiry@fbri.org



<https://www.fbri-kobe.org/kbic/english/>



<https://www.linkedin.com/company/kbic/>



Foundation for Biomedical Research and Innovation at Kobe

