Open Innovation Hub for Drug Discovery and Development

Process for drug discovery and development

Basic research (seeds) → Preclinical study → Clinical study → Application/Approval → Manufacturing

- Seeds from venture companies
- Seeds from research institutions (RIKEN, Kobe Univ., IBRI, etc.)
- RIKEN (BDR), Institute of Biomedical Research & Innovation (IBRI)
- Medical cluster: Kobe City Medical Center General Hospital, Kobe Children's Hospital, etc.
- Screening: PMDA-FBRI Cooperation Center for Pharmaceutical affairs consultation on R&D strategy
- Manufacturing site: Next-generation antibody drug manufacturing site

Program proposal for establishment of a center for drug discovery and development

One stop service coordinating a necessary drug discovery/development environment
“Researchers” “Facilities” “Clinical environment”

Number of proposed companies: 51
Joint research contracts: 5

* Including 1 pilot study

- Propose to pharmaceutical companies in Japan and abroad a program that clusters and consolidates research functions of R&D institutions in KBIC, including infrastructure
- Dedicated coordinators conduct a follow-up to tackle the realization of innovative drug discovery and development through industrial - academic - government collaborations.
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(Examples of joint research contracts)

(1) **Drug discovery/development for autoimmune diseases and cancer**

**[Institutions participating in joint research]**
Meiji Seika Pharma, FBRI

**[Research theme]**
Treat inflammatory diseases including autoimmune diseases using anti-PD-1 immunosuppression activity

(2) **Development of new treatments for retinal diseases**

**[Institutions participating in joint research]**
Santen Pharmaceutical, RIKEN, FBRI

**[Research theme]**
Drug discovery/development research in ophthalmic disorders using iPS cells

(3) **(Undisclosed program)**

**[Institutions participating in joint research]**
Nissan Chemical, Kobe University, FBRI

**[Research theme]**
(Undisclosed)

(4) **Development of technologies for diagnosing immunological diseases**

**[Institutions participating in joint research]**
Sysmex, Kyoto University, FBRI

**[Research theme]**
Establish new analytic method and develop an early diagnostic system for immune functions