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HOKKAIDO UNIVERSITY

Outline and the progress of the Matching Program for Innovations in Future Drug Discovery and Medical Care

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October 2, 2012

Formation of the Matching Program for Innovations in Future Drug Discovery and Medical Care

Establishing a drug discovery infrastructure that enables the continual generation of drug candidates

Proposing therapies that are noninvasive, personalized and patient-friendly

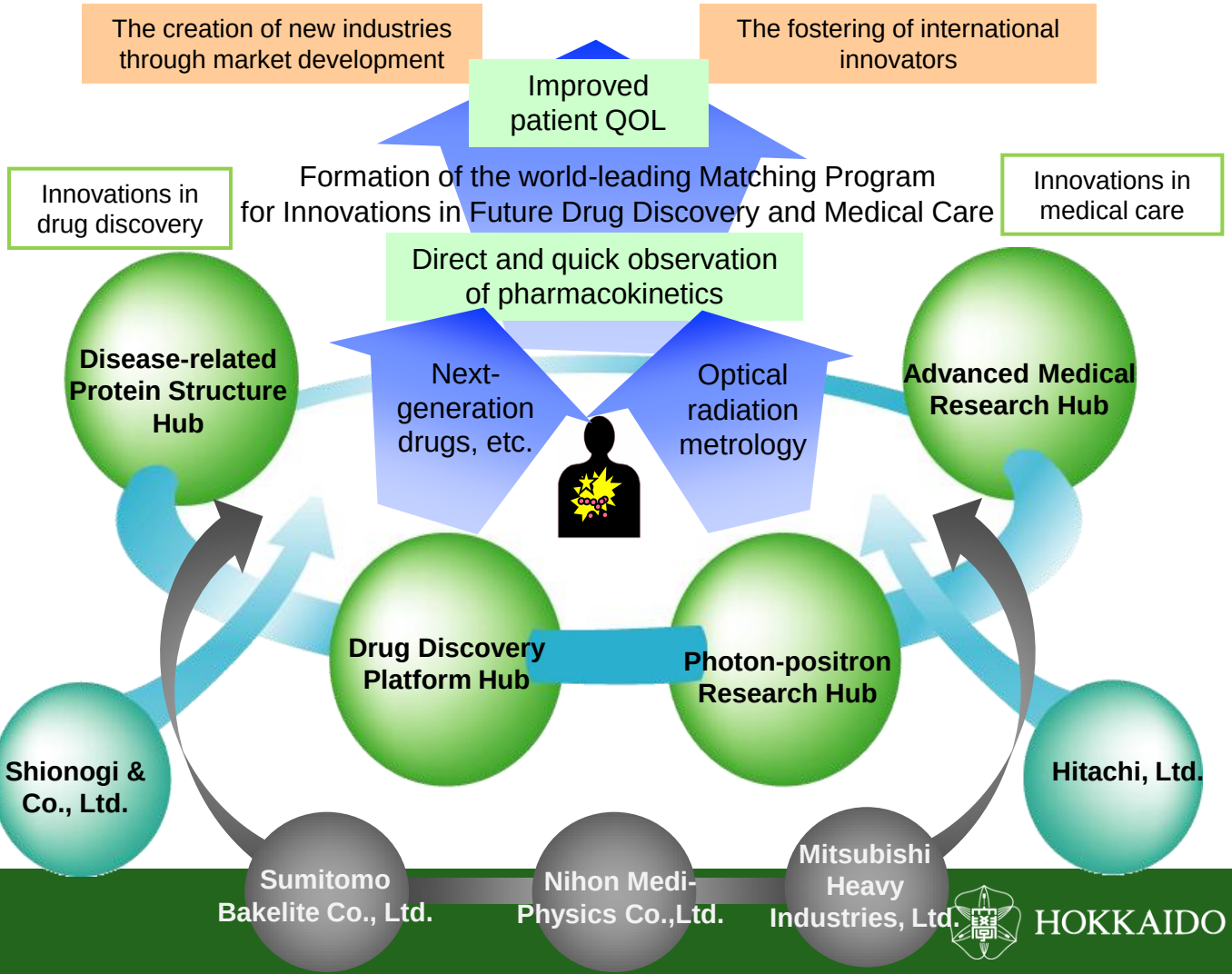
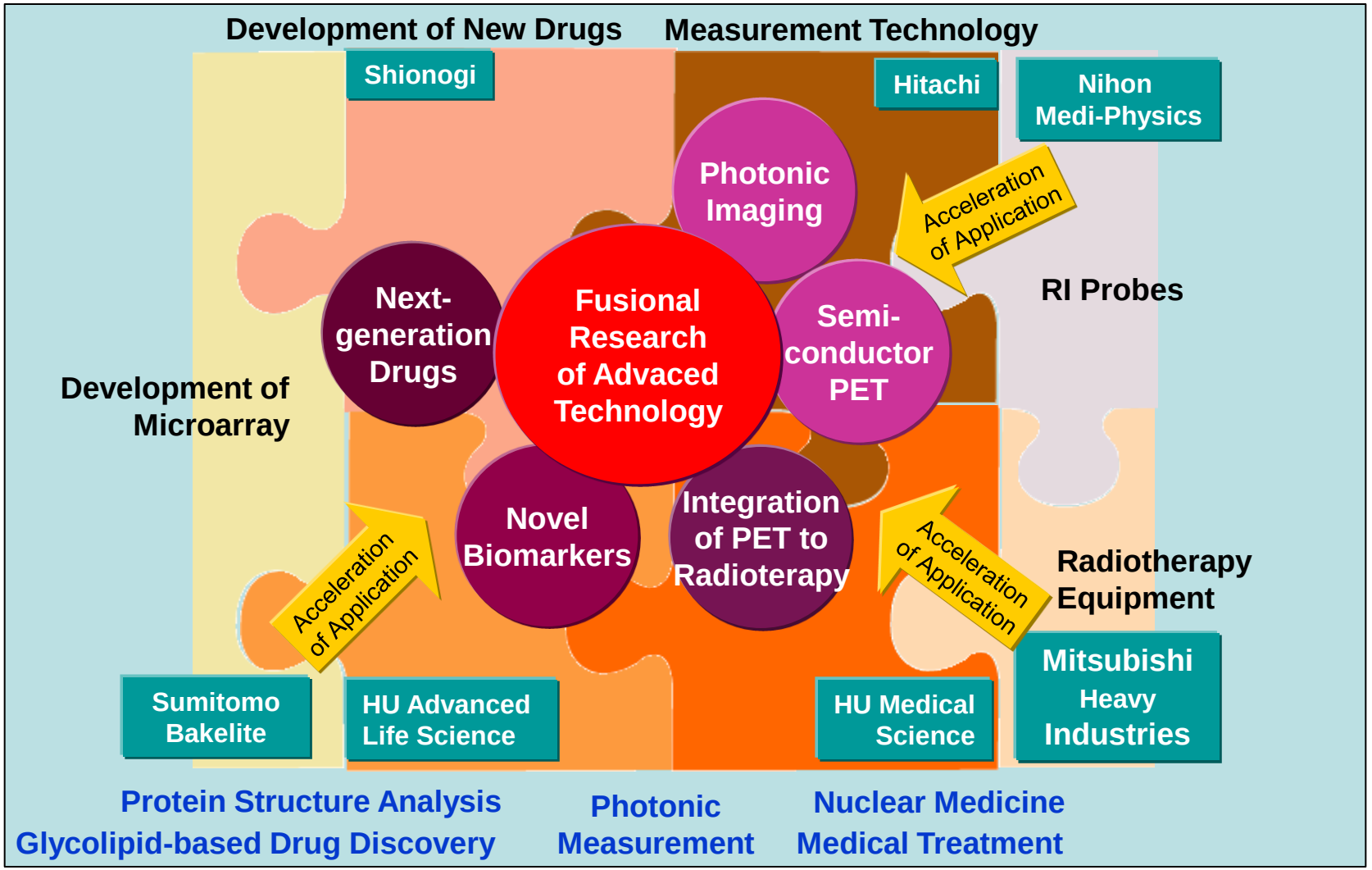
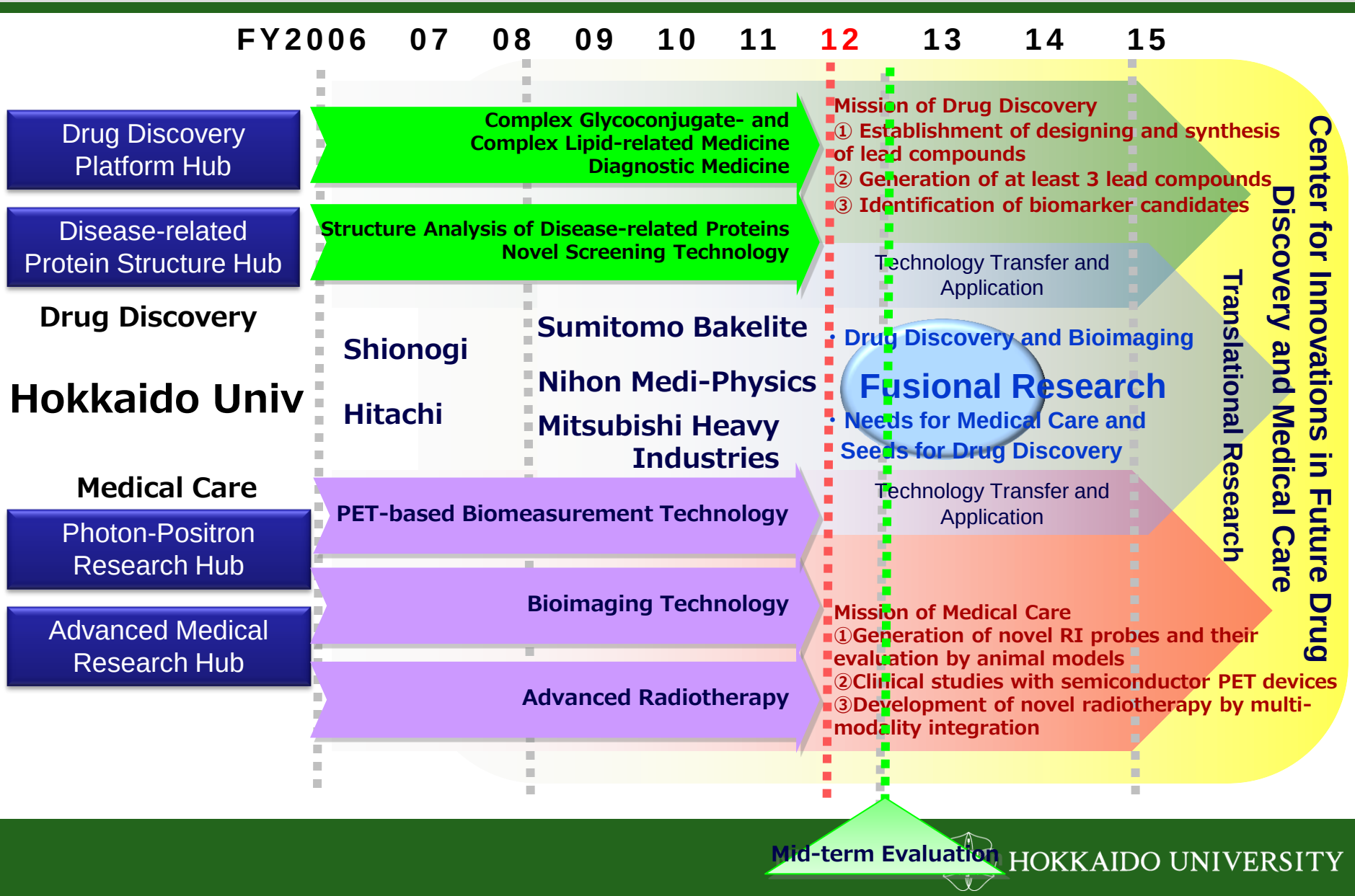


Image for Whole Collaborations of the Project



Progress and Promotion of the Project



System of the Center for the Project

Frontier Research Center for Post-genome Science and Technology

Glycoconjugate-related Drug Discovery

Drug Discovery Platform Hub

Research Center for Cooperative Projects "Furate"

Disease-related Protein Structure Hub

Protein Structure Analysis

Leadership by the supervisor

Comprehensive instructions determined by the headquarters

Photon-positron Research Hub

Semiconductor PET and Bioimaging

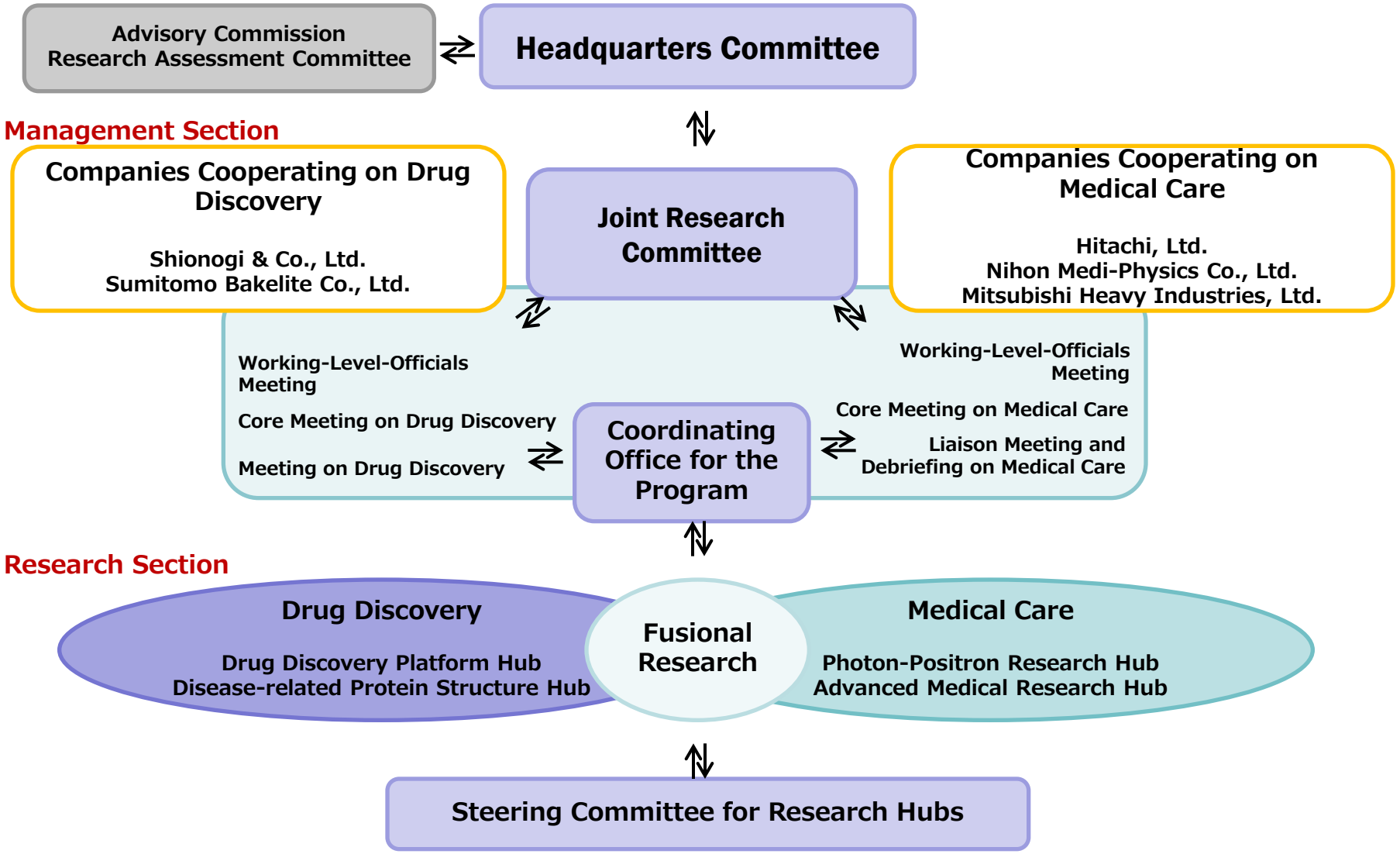
Shionogi Innovation Center for Drug Discovery

Advanced Medical Research Hub

Practical Diagnosis and Medical Treatment (Molecular Tracking Radiotherapy)

Department of Nuclear Medicine, and Radiation Oncology at the Hokkaido University Hospital

Comprehensive Instructions Determined by the Headquarters



Cooperation with the Supporting Office at the University Hospital

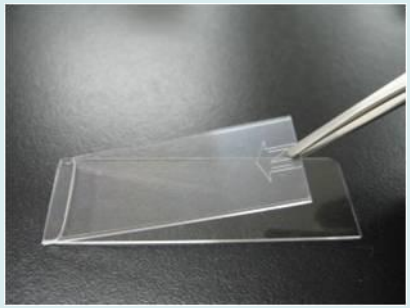
The University Hospital cooperates in the Project, “the Matching Program for Innovation in Future Drug Discovery and Medical Care”

“Supporting Office, Future Drug Discovery” Set up at the Translational Research and Clinical Trial Center

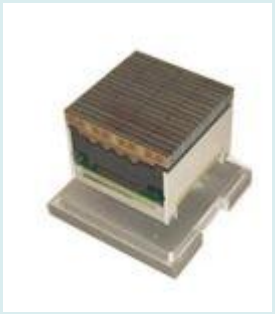
- **Promotion of Fusional Research**
- **Bridge to Clinical Research**
- **Finding Unmet Medical Needs**
- **Matching with Clinical Researchers**

Ripple Effects

- A spin-off venture company Ezose Science, Inc., was established by Sumitomo Bakelite Co., Ltd., and Shionogi & Co., Ltd. (Mar. 2009)
- Advanced Radiation Therapy Project “Real-time Tumor-tracking with Molecular Imaging Technique” of FIRST Program has been launched. (Mar, 2010)
- Two cooperating companies have succeeded in utilizing project results for production on a commercial basis. (Sumitomo Bakelite Co., Ltd. Sep. 2011, an affiliate of Hitachi, Ltd. Nov. 2011)
- The Center for Promotion of Platform for Research on Biofunctional Molecules, a place of collaboration between researchers from the university and those from companies, has been launched.



Microarray with immobilized glycans



Semiconductor sensor module for radiation detector

Systemic Reforms

《 System for Promoting Cooperation with Companies 》

- Intramural collaboration spaces have been secured, e.g. the Shionogi Innovation Center for Drug Disc
of Hitachi, Ltd., on the premises of the university hospital, and an office of the Molecular Imaging Divis
- The Frontier Research Center for Post-genome Science and Technology, and the Research Center for
Projects "Furate" of the Graduate School of Medicine have been established.
- The Coordinating Office for Future Drug Discovery and Medical Care Innova

《 Human Resources Development 》

- Opportunities for young researchers from the private sector to learn at gradu
- Personnel exchange has been promoted, e.g. researchers of companies wer
specially appointed professor of the university.
- Annual contracts were concluded for the specially appointed lecturers and d
program.
- Hokkaido University has established Front Office for Human Resource Educa
human resources development via Station for Senior Researchers Developme
Researchers.
- International symposia have been held every year by inviting world-class lead
- Researchers from the cooperating companies and the university give the annu
Innovative Drug Discovery Seminar" and "Fundamentals and Applications of M
- A total of more than 60 seminars had been held.

Platform Design after the Program Period

The Matching Program for Innovations in Future Drug Discovery and Medical Care

Providing companies with space for their own research, and preparation of the environment such as control of intellectual property

Intramural Cooperation for Drug Discovery and Medical Care

Open Innovation Platform for Future Drug Discovery and Medical Care

Promotion of future drug discovery and medical care by industry-university collaboration

Center for Translational Research

Support for clinical and translational research

Center for Education and Research on Drug Discovery

Drug discovery with chemical library

Formation of an open platform aiming at wider range collaboration