

Project No.: 18006 Core Institution in Japan: Keio University
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**JSPS Core-to-Core Program -Strategic Research Networks-  
FY2010 Research Report**

Project No.	18006
Research Theme	Stem Cells and Cancer Stem Cells
Duration of Project	2008/4/1-2011/3/31
Core Institution in Japan	Keio University

**Implementing Organizations**

Country	Japan
Core Institution	Keio University
Co-Chair (name and title)	School of Medicine • Professor • Toshio Suda
Number of Cooperating Institutions	0
Cooperating Institutions	-

Country	Sweden
Core Institution	Lund University
Co-Chair (name and title)	Lund Stem Cell Center • Professor • Stefan Karlsson
Number of Cooperating Institutions	0
Cooperating Institutions	-
Matching Fund	Swedish Research Council • Hemato-Linne Program

Country	Sweden
Core Institution	Karolinska Institutet
Co-Chair (name and title)	Karolinska University Hospital • Director • Sten Lindahl
Number of Cooperating Institutions	0
Cooperating Institutions	-
Matching Fund	

Country	England
Core Institution	Oxford University
Co-Chair (name and title)	Weatherall Institute for Molecular Medicine • Professor • Sten Eirik Jacobsen
Number of Cooperating Institutions	0
Cooperating Institutions	-
Matching Fund	

Country	USA
Core Institution	The University of Texas M.D. Anderson Cancer Center
Co-Chair (name and title)	Department of Breast Medical Oncology · Professor · Naoto Ueno
Number of Cooperating Institutions	0
Cooperating Institutions	-
Matching Fund	

Country	USA
Core Institution	Stowers Institute for Medical Research
Co-Chair (name and title)	Stowers Institute for Medical Reseach · Professor · Linheng Li
Number of Cooperating Institutions	0
Cooperating Institutions	-
Matching Fund	

#### Result of Program Implementation

①**Keio-Lund Spring Symposium 2010** : 3 PhD students and 7 Professors from Lund University joined in the Spring Symposium at Keio. Young researchers of Keio also joined the lecture course and gave presentations. They also received evaluation from the faculty members about an oral presentation they'd given. Active discussions were made under the theme "Career development program for young investigators in Cell and Metabolism Research." During the symposium, the faculty members of Keio and Lund has a discussion talking about the possible future collaboration in the fields of research and education.

②**Symposium at Lund University** : 4 Keio young researchers visited Lund University to join Lund Research School on Stem Cell Biology- Advanced Course mini-symposium. Two of them gave a presentation and another 2 gave a poster presentation. They visited labs of their interest.

### Achievements in FY2010 (Self Review)

Through the activities reported above, we strongly believe that the network between the institutions and also the bond between the researchers have been strengthened, which gradually will make us to take the leading position in the stem cell biology in the world. They have contributed to promote institutional program and collaborations which have offered opportunities to exchange impressive ideas among active stem cell and cancer biologists in Sweden, US and Japan. Beside Activities ① and ②, 43 Keio investigators attended the international meetings or congresses on stem cells by the support of this grant. All activities have given opportunities for the young researchers to participate in international occasions to present their research results and exchange ideas which has been great chances to train young researchers' global sensibility and also to promote mobility to the global world. Lastly, Global COE Program "The Education and Research Center for Stem-Cell Medicine" and Keio KANRIN MARU project have collaborated to maximize the benefits arising from the activities.

### Future Plan (Measures toward Achieving Research Objectives)

Keio University enjoys a world-wide reputation for stem cell studies, having other educational research program which takes approaches on stem cells from the perspective of metabolism, cancer etc. These programs at Keio aimed to collaborate in developing translational studies of the stem cells and cancer through various activities with the Lund Stem Cell Center and other 4 institutes such as joint studies on normal stem cells and cancer stem cells, seminars focusing on the young researchers' work, and short/long term exchange programs, which in turn are expected to bring an expansion of a global network of researchers engaged in stem cell studies on the basis of this core-to-core projects. Although the core-to-core project ends in 2010, the collaboration among the institutions will continue to drive the various research projects. Especially, Keio and Lund have agreed to enhance the relationship further utilizing the fund in operation which Lund has been conducting.