

【Biological Sciences】

Title of Project	Regulation of cell behavior by the interplays between cadherin adhesion molecules and cytoskeleton
Principal Investigator Name	Masatoshi Takeichi, RIKEN Laboratory for Cell Adhesion and Tissue Patterning, Group Director
Abstract of Research Project	Dissociated animal cells can actively move. Also during development, cells undergo active movement as well as deformation of cell layers, indicating that cell motility is essential for body construction. On the other hand, cells are attached to each other to maintain the body. Therefore, cell adhesion needs to be regulated for cells to move. Conversely, the cell adhesion itself is known to regulate cell movement. In this study, we explore the mechanisms of how cell adhesion molecules co-operate with cytoskeletal proteins to regulate cell behavior. The outcomes of this study are expected to contribute to not only our deeper understandings of developmental mechanisms but also designing remedies for cancer metastasis.
Number of Researchers : 1	
Term of Project: 2008-2012	