

【Abstract of 2009 Grant – in – Aid for Scientific Research on Innovative Areas
(Research in a proposed research area)】

Title of project	Cell Community in Early Mammalian Development
Head Investigator Name	FUJIMORI Toshihiko, National Institute of Basic Biology, Division of Embryology, Professor
Abstract of Research Project	<p>Early mammalian embryonic development is characterized by its highly regulative potentials, along with the specific event of implantation in the uterus. To understand the cell-cell interactions occurring within embryos, a basis for regulative development, we will study the embryo as a “cell community” with spatiotemporal behavior.</p> <p>To achieve this aim, detailed cell behavior, genes and gene products within the developing embryos will be examined using interdisciplinary approaches including live imaging, and mathematical analyses. We will uncover principles on how information relating to the future body axes is produced within an embryo, and how this information is reflected in embryonic shape.</p>
Term of Project: 2009–2013	