

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

Title of project	Comprehensive studies of plant responses to high CO ₂ world by an innovative consortium of ecologists and molecular biologists
Head Investigator Name	TERASHIMA Ichiro, The University of Tokyo, Graduate School of Science, Department of Biological Sciences, , Professor
Abstract of Research Project	For accurately predicting ecosystem functions and food production in the high CO ₂ world, it is prerequisite to know how plants respond to high CO ₂ . In this project, we form a consortium of ecologists and molecular biologists and closely cooperate to clarify plant CO ₂ responses from molecular to ecological levels. Analyzing selected model plants, crops and plants representing several ecosystems grown under the same conditions, we will try to obtain comprehensive data.
Term of Project: 2009–2013	These data will be solid fundamentals not only for predicting ecosystem functions in the high CO ₂ era but for creating and/or selecting CO ₂ -philic crops and trees.