

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

<b>Title of project</b>	New perspective of great subduction-zone earthquakes from the super deep drilling
<b>Head Investigator Name</b>	KIMURA Gaku, The University of Tokyo, Graduate School of Science, Department of Earth and Planetary Science, Professor
<b>Abstract of Research Project</b>	The purpose of this project is to obtain a new perspective of great subduction-zone earthquakes from the super deep drilling at the Nankai Trough, off Japan. Direct sampling and analysis of sesimogenic plate boundary fault and direct observation in the borehole is a new key science to reveal the rupture nucleation and propagation processes for earthquake and tsunami. We approach to the target through (1) research on structure of the fault and ocean floor deformation, (2) analytical and experimental studies on the fault mechanics, and (3) borehole observation and modeling of earthquake and tsunami processes.
<b>Term of Project: 2009–2013</b>	