

# 2016Joint Usage and Research Report

Title of Research Project		Fine structural characterization of the nuclear bodies built by the architectural RNAs
Applicant	Institution	Institut Gustave Roussy, Centre National de la Recherche Scientifique
	Job title and name	Director Gerard Pierron
Visiting researcher	Name	Gerard Pierron
Purpose of the Research Project (approx. 200 words)		This research project is aimed to characterize the ultrafine structure of the paraspeckle nuclear body with electronmicroscopy (EM).
Development of the Research Project and Results (approx.. 100 words)		Hirose's lab provided various mutant cell lines in which the various portions of NEAT1 lncRNA were deleted to our lab for EM study. We observed that deletions of the certain regions of NEAT1 lncRNA resulted in defect of paraspeckle assembly into the ordered structure with the NEAT1 core. Using the antibodies that Hirose's lab sent, we observed one of the paraspeckle proteins was predominantly localized in the peripheral area of the parasepckles, suggesting this protein is likely involved in the correct assembly of the ordered structure of paraspeckles.
Publication *Enter the names of conference or journal and its vol. No. where the above work was presented.		<b>【Conference, symposium, workshop etc.】</b> The Keystone conference (Noncoding RNAs: From Disease to Targeted Therapeutics), 2/6~9, 2017, Banff
		<b>【Journals】</b>