ID No.	K3006
Project Title	Establishment of a model system of co-infection of Mycobacterium and
	HIV in human monocyte cell lines to study their interactions
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Report	

This collaboration aims to establish an *in vitro* co-infection model to study the interaction between HIV-1 and Mycobacterium tuberculosis (Mtb). In order to assess effects of Mtb infection on HIV-1 latency, HIV-1 latently-infected model cells derived from human monocyte cells, THP-1 cells were incubated with the BCG strain of Mtb. Then, expression of a NanoLuc gene, which is inserted into HIV-1 provirus in the model cells, was measured. As a result, incubation of the cells with BCG significantly induced NanoLuc expression. This indicates that transcription of HIV-1 latent provirus is up-regulated by Mtb infection.