Title of Research Project		Identification and characterization of novel coding and non-coding genes regulating the innate immunity against virus infection and cancer. (The Second Phase)
Institution		Indian Institute of Science Education and Research (IISER),
Applicant	Institution	Bhopal, Madhya Pradesh, India
	Job title	Dr. (Ph.D), Associate Professor
		Dr. (Fil.D), Associate Professor
77	and name	Duefees an Alvin eni Telicolus
Visiting	Name	Professor Akinori Takaoka
researcher		
Purpose of the Research Project		Host immune responses are key component against neoplastic growth
(approx. 250 words)		induced within the host by abrupt deregulation of normal cells through
		multifactorial biotic and abiotic stresses. The immune responses are
		result of complex network of sensing via sensors and cascade of
		molecular signaling involving, adaptors, kinases and transcription
		factors which are tightly regulated at transcriptional,
		post-transcriptional, translational and post-translational levels. We
		have identified some factor of HCMV which dysregulate innate
		immune sensors-dependent signaling for production of type I
		interferons and may involve in oncogenesis. Our prediction was
		further strengthen by series of ex vivo and in vitro experiments and
		showed that these novel viral factors which are critical in development
		of cancer. We wish to explore these results using various transgenic
		mice such as IFNAR KOs, etc.
Development of the Research		I visited Prof. Akinori Takaoka laboratory, Signaling in Cancer and
Project and Results		Immunology Laboratory, IGM, Hokkaido University from December
(approx 850 words)		18, 2017, to December 22, 2017 and performed some experiments
(approx 000 words)		with a group member of Prof. Takaoka. We are still doing several in
		vivo experiments to find out more about identified molecules which
		play a key role in innate immunity against HBV and Listeria
		monocytogen infection. We also had series of presentation and
		discussions with Prof. Takaoka and his group members for future
		fundamental research as well as some aspect of teaching. Our visit was
		highly fruitful regarding learning and, I believe that our visit is an
		important cornerstone for our highly productive future research.
		I also attended a masting agranised at ICM and delicerate at
		I also attended a meeting organized at IGM and delivered a talk on
		"Innate immune responses to virus infection during infectious and
		non-infectious diseases" on December, 21, 2017.

	Overall the visits were extremely useful and hope in future we will
	have several exciting results from our collaboration.
Publication	[Conference, symposium, workshop etc.]
*Enter the names of conference	IGM meeting on December, 21, 2018
or journal and its vol. No. where	[Journals]
the above work was presented.	1. Kumari, P.; Saha, I.; Narayanan, A.; Narayanan, S.; Takaoka, A.;
	Kumar, N. S.; Tailor, P.; Kumar, H., Essential role of HCMV
	deubiquitinase in promoting oncogenesis by targeting anti-viral
	innate immune signaling pathways. Cell Death & Disease 2017, 8,
	e3078.