Title of Research Project		Identification and characterization of novel coding and non-coding		
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		genes regulating the innate immunity during virus infection and		
		cancer. (The Sixth Phase)		
Applicant	Institution	Indian Institute of Science Education and	Under40	Under35
		Research (IISER), Bhopal, Madhya Pradesh,	put a O	put a O
		India		1
	Job title	Dr. (Ph.D.), Associate Professor		
	and Name	Himanshu Kumar		
Research collaborators (Please add lines as appropriate)	Institution	Institute for Genetic Medicine		
		(IGM), Hokkaido University		
	Job title	Professor		
	and Name	Akinori Takaoka		
	Institution			
	Job title			
	and Name			
Host researcher at IGM		Professor Akinori Takaoka		
Purpose of the Research Project		Innate immunity is a major arm of immunity against plethora of		
(approx. 250 words)		microbial infection including viruses. Sensing of microbe through PRRs		
		(sensors) induces innate cytokines through interaction of cascade of		
		molecules such as adaptors, kinases and transcription factors. The		
		expression of these molecules is tightly regulated at transcriptional,		
		post-transcriptional, translational and post-translational levels. We		
		have identified a novel gene, Rnd1 that play critical in regulation of		
		innate immune responses against bacterial and viral infection.		
Development of the Research		We could not visit IGM, Hokkaido University due to current pandemic		
Project and Results		situation worldwide. However, we had several email discussions		
(approx 850 words)		through email exchanges to obtain the progress of the project and		
*Enter the number of web		pre-requisite results and communicated below paper, currently the		
meetings.		revised paper has been submitted.		
		Kumar A, Mishra S, Kumar A, Raut AA, Sato S, Takaoka A , <u>Kumar H*</u> ,		
		Essential role of Rnd1 in innate immunity during viral and bacterial		
Dublication		infections. Communicated (# & *))		
Publication *Enter the information of		[Conference, symposium, workshop etc.]		
*Enter the information of conference or journal (vol. page.				
Year.) where the above work		[Journals]		
was presented.		Kumar A, Mishra S, Kumar A, Raut AA, Sato S, Takaoka A , Kumar H* ,		
was presented.		Essential role of Rnd1 in innate immunity during viral and bacterial		

infections. Communicated (# & *))