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Unraveling the role of HCMV in Glioblastoma progression using an inducing HCMV model

Cancer is the leading cause of death worldwide. The human cytomegalovirus (HCMV) plays important role in several malignancies including breast cancer, colorectal cancer, brain tumor and others. Breast cancer is considered as the leading cause of deaths among women. Previous reports have demonstrated that the HCMV genome contains oncogenic genes and have potential to cause the different types of cancer. The HCMV is a betaherpes virus and its primary infection leads to the lifelong latent or persistent infection. The primary HCMV infection is asymptomatic and may cause the severe health issues in immunocompromised population especially in organ transplant patients, AIDS or cancer patients. Furthermore, the congenital HCMV infection causes the fetus malformation and is the leading cause of birth defects. Studies have found HCMV DNA in the numerous forms of tumors and concurrent HCMV specific antibodies in cancer patients. Taken together,

these findings suggested a connection between HCMV and cancer progression. In this study, we aimed to identify and study the main factors encoded by HCMV which are responsible for the breast and brain cancer development. We are using a robust, tightly controlled, reversible and highly sensitive AID system to study the HCMV encoded proteins and their roles in cancer development

Speaker Biography

Dabbu Kumar Jaijyan is currently a scientist at New Jersey Medical School, Rutgers University, USA. He completed his PhD in Biotechnology at National Institute of Immunology, India and completed his MSc at Jawaharlal Nehru University, India. He also did his under graduate in the year 2003-2006 at Delhi University, India. He has over 5 publications and has been working on the infectious disease caused by the viruses like VZV, HIV, CMV and ZIKA. He has developed a model to study the role of HCMV induced tumor and also been involved in developing therapeutic tools in collaboration with world renowned pharmaceutical industries.

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