

Broad spectrum antivirals against multiple enveloped viruses could neutralize Ebola and Zika viruses and any future emerging viruses**Girish J Kotwal**

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Pandemic enveloped viruses like HIV, influenza, herpes viruses are a major public health problem affecting millions around the world causing morbidity and mortality. Rather than every time there is a panic due to being unprepared to deal with an emerging or emerged virus, I propose that we employ safe broad spectrum antivirals with proven capability of neutralizing a number of enveloped viruses. Along with collaborators from around the world, we have tested pomegranate juice and fulvic acid against pandemic enveloped viruses which when mixed with these viruses neutralizes them. The common mechanism by which such neutralization occurs is by interaction with the sugar moieties of the surface glycoprotein. Characterization of the enveloped virus neutralizing compounds suggests that these are heat stable small molecules less than 1000 Daltons.

Biography

Girish J Kotwal has obtained his PhD in Biochemistry from McMaster University and Postdoctoral training at the NIH, Bethesda, MD, USA. He has worked as an Assistant Member at the GIMR in Cincinnati, Ohio, on the diagnosis of HCV infection. He has joined the Faculty at University of Louisville and then joined as a Professor and Chair of Medical Virology and received the Senior Wellcome Trust Fellowship for Biomedical Sciences in South Africa. He has worked on broad spectrum antivirals. He is currently an Adjunct Professor of Medicine at UMass. He has over 100 publications and is an inventor on patents.

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