



THE INFLUENCE OF TIA-1 ON HSV-1 REPLICATION

By Rajasekhar Singavarapu

VDM Verlag Jun 2009, 2009. Taschenbuch. Book Condition: Neu. 220x150x4 mm. This item is printed on demand - Print on Demand Neuware - Herpes simplex virus-1 (HSV-1) and Herpes simplex virus-2 (HSV-2) are large, enveloped DNA viruses. They were the first human herpes viruses to be discovered and are amongst the most intensively investigated. Prof. Kenneth Rosenthal's lab has demonstrated that differences in virulence and tissue culture behavior for some HSV-1 strains can be attributed to variation in the ICP34.5 gene and protein. ICP34.5 binds to PP1 to dephosphorylate eIF2alpha and stop HSV induced ER stress and inhibition of protein synthesis. T-cell like intracellular antigen-1 (TIA-1) and its closely related protein TIAR, are cellular proteins belonging to the RNA-recognition motif (RRM) family of RNA binding proteins. They are essential for normal vertebrate development and act as gene translational silencers. They play an important role in the formation of stress granules during abortive protein translation when eIF2alpha is phosphorylated by PKR or PERK and protein synthesis is stalled. This research study demonstrates the ability of TIA-1 to limit HSV-1 viral replication. 60 pp. Englisch.



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