



Immune and intrinsic correlates of protection in Rhesus macaques immunised against Simian Immunodeficiency Virus

By Washingtone Ochieng'

Cuvillier Verlag Sep 2015, 2015. Taschenbuch. Book Condition: Neu. 211x146x5 mm. Neuware - Efficacy assessment of AIDS vaccines relies both on pre-clinically challenging immunised monkeys with a pathogenic virus and subsequent monitoring of infection rates in large human trials. Conventional parameters of vaccine-induced immune responses do not completely predict outcome. Moreover, existing methods for testing cellular immunity are sophisticated and difficult to establish in resource-limited settings, thereby constraining large studies. There is a need for study models that bridge the gap between preclinical and clinical vaccine testing, and which are able to predict a virus-specific vaccine effect before actual challenge. Virus replication kinetics (VVR) on ConA-stimulated peripheral blood mononuclear cells (PBMC) was used as an ex vivo model to mimic the interaction between different components of the immune system and viral infection. PBMCs were obtained from the 17 experimental rhesus monkeys before immunisation and subsequently at 12, 26 and 44 weeks during immunisation (wdi). Before immunization, VVR of vaccine-naïve PBMCs varied between individual animals by between >430-fold and >60-fold after 7 and 10 days of infection cultures. VVR of sham-vaccinated control monkeys remained constant over 44 the weeks. However, VVR of immunised animals was significantly attenuated during this follow-up period....

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