CURRENT TECHNOLOGIES FOR ADVANCING HIV VACCINES

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Development of an effective AIDS vaccine is a global priority. However, the extreme diversity of HIV along with host factors that prevent the elicitation of protective immune responses, continue to hinder vaccine development. Breakthroughs in understanding of the biology of the transmitted virus, the structure and nature of its envelope trimer, vaccine-induced CD8 T cell control in primates, and host control of broadly neutralizing antibody elicitation have given rise to new vaccine strategies. This presentation will cover promises and challenges associated with development of both prophylactic and therapeutic approaches to combat HIV with recent practical examples of technological approaches behind encouraging developments.