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(57) Abstract :

The present invention provides directed and personalized vaccination for rotavirus. In the present invention, induced immune responses to vaccine are provided for understanding heterogeneity in host responses in order to rationally design personalized vaccine against rotavirus. Genetic modulators of rotavirus vaccine-induced immunity, like class I and class II HLA genotypes, single nucleotide polymorphisms (SNPs) in cytokine receptor genes and the rotavirus cell surface receptor integrin av03 genes, are evaluated in independent cohorts to ensure the understanding the mechanisms producing diverse vaccine response.

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