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Recent advances in rabies DNA vaccines and its future prospects

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Rabies is a fatal encephalomyelitis. Most cases occur in developing countries and are transmitted by dogs. Because of their high cost, cell culture vaccines have not totally replaced the unsafe brain-derived vaccines which are still used in many developing countries. Moreover, there will be a need for vaccines against rabies-related viruses against which classical vaccines are not always effective. The worldwide incidence of rabies and the inability of currently used vaccination strategies to provide highly potent and cost-effective therapy indicate the need for alternate control strategies. DNA vaccines have emerged as safest vaccines and best remedy for complicated diseases like Hepatitis, HIV and Rabies. A number of recombinant DNA vaccines are now being developed against several diseases such as AIDS and malaria. Therefore, it can be a valuable alternative for the production of cheaper rabies vaccines against its larger spectrum of viruses. In this review we report published data on DNA-based immunization with sequences encoding rabies and related virus antigens.

Biography

Muhammad Ali A. Shah completed his Ph.D. from Nanjing Agricultural University, China in 2009 with specialization in field of DNA vaccines. There are more than 20 publications at his credit, which have been cited in more than 100 publications by other research groups throughout the world. He has co-authored one book as well. He has worked as Assistant Professor and Associate Professor in different universities of Pakistan where he has been involved in various teaching, research and administrative activities. Currently he is working as Chairman Department of Pathobiology, Faculty of Veterinary and Animal Sciences, UAAR and pursuing his post-doctoral studies in Biomedical Engineering at School of Biological Sciences & Medical Engineering, Southeast University, China. His research interests include immuno-therapeutics especially DNA vaccination and nano vaccines against different microbes.

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