2nd International Conference on
VACCINES & VACCINATION
&
3rd International Meeting on
VETERINARY & ANIMAL HEALTH

June 17-18, 2019
Miami, USA

Immunocontraceptive vaccine potential non-surgical method of fertility regulation

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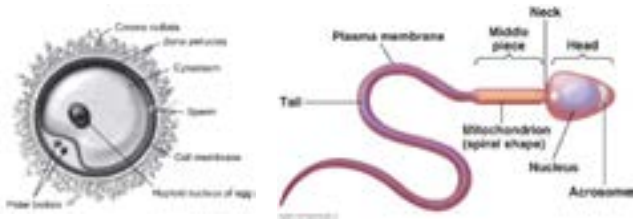
Globally, human population is increasing due to non-acceptable methods of fertility regulation and numerous abortions which primarily affect the population control. Efforts have been made to develop different methods for control of human population. Development of birth control vaccine appears to be one of the promising approaches for fertility regulation as some of the infertile individuals with antibodies to some specific fertility antigens have been reported to be healthy. Along with sperm specific proteins other antigens are being evaluated for development of immunocontraceptive vaccine which includes hCG, LH, LDH C4, PH 20, SP10 and EPIN. Synthetic peptide of 80kDA Human Sperm Antigen (80kDa HSA) has also been reported to be promising candidate for development of antifertility vaccine. The immunocontraception started with sperm as the first target. In 1899, Karl Landsteiner and Serge Metchnikoff, demonstrated injection of sperm from heterospecies can produce antibody responses. The difference in immune response and time taken to attain titer among vaccinated individuals post immunization has delineated the importance of antibodies in this category. The presentation will review the current status and progress of immunocontraceptive vaccines, its approach and formulation as a future fertility control agent.



Biography

Meena Poonja completed her Ph D Degree from Mumbai University. Working as Assistant Professor – Department of Zoology, Smt. C. H. M. College, Ulhasnagar-3, affiliated to University of Mumbai

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