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DNA restructuring gene therapy

A technique of gene therapy has been modulated with the use of special techniques and reagents. Genome sequencing has documented the importance of mobile DNA activities and major genome restructuring events at key junctures in evolution exon shuffling, changes in cis-regulatory sites, horizontal transfer, cell fusions and whole genome doublings. The natural genetic engineering functions that mediate genome restructuring are activated by multiple stimuli, in particular by events similar to those found in the DNA record, microbial infection and interspecific hybridization leading to the formation of allotetraploids. These molecular genetic discoveries plus a consideration of how mobile DNA rearrangements increase the efficiency of generating functional genomic novelties, make it possible to formulate a 21st century view of interactive evolutionary processes. This view integrates contemporary knowledge of the molecular basis of genetic change, major genome events in evolution and stimuli that activate DNA restructuring with classical cytogenetic understanding about the role of hybridization in species diversification. This clear understanding has made it possible to actually visualize the DNA restructuring under the microscope when specific stimuli aid the patients DNA to go through a hybridization technique. The final imprint of the DNA to be restructured is already present within the morphogenetic field of the patient's serum; these qualities are further strengthened to place the DNA into the patient's body through injections.

Biography

Sunita Rana Agarwal obtained Gold Medal from Madras Medical College (MBBS), and Gujarat University (MS, Opht). Her contribution in the field of research and surgery has been immense with her active participation in community service. Her achievements are beyond description. She has half a dozen fellowships from various countries like Germany, UK, USA, and over the same in memberships across the globe in ophthalmic societies, nationally and internationally America, Europe, along with genetic and cell technologies. She held elected positions of over 12 years in All India Ophthalmic Society as Management Committee Member and Executive Council Treasurer. She is a Sports person with National Gold Medal in Swimming and State Championship for Squash. Motor racing and rallying were sports pursued at the national level with accolades. She has a distinction of being awarded best scientific paper and life time achievement award by the American Academy of Ophthalmology.

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