

The linking aspects of Nutria to Genetics

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Abstract

The journal of genetics and genomes tries to cover up as many topics for the research field in the genetics that can bring the great advancements in the respective field which are as follows: Genomics, Epigenetics, Chromatin Biology, Genetics and Evolution, Gene Therapy, Cancer Genetics, Applied Genetics, Pharmacogenomics, Functional Genomics, Immunogenetics, Plant Breeding, Plant genetics, Plant physiology, Plant pathology and many more. One of which is the Nutrigenomics. Nutrigenomics, its name only gives the idea of how they can relate the balanced diet with that of the genetics field. It's a very easy to think that how can a nutrients consumed by an organism body can affect the genetical level changes. So, it can be said that the food intake and the environment in which the organism resides have to play major role in the development of organism as well as enhancing the genetic makeup which can also be acquired according to the consequences of the respective factors mentioned earlier. Many studies involved in the nutrigenomics have led to the acknowledgement of how to the different dietary supplements helps to keep the individuals healthy and to increase the life span as well. After the well-known research work of Human Genome Project (HGP) a new postulate is introduced which more specifically talks about the following: (i) will gene expression in response to metabolic process, at cellular level, influence the health of an individual? (ii) Are gene expression and metabolic response the result of the interaction between genotype and environment/nutrient? (iii) Understanding how this interaction process occurs between gene and nutrient could lead to the prescription of specific diets for each individual. Hence, in order to get the answer for those questions, introduction of Nutrigenomics have been done, which focuses on the effects of the nutrients over the genome, proteome, and metabolize. The area of nutrigenomics has to conquer many untouched topics and research works that can bring a gradual change in the living style of individuals. One of the recent causes of the short life span is because of the rapid increase in the aging process. Thus, many of the research works are going across the world that main aim is to provide a disability-free survival of the organism that can be brought naturally only by modifying the diet the individual follow which in turn would lead to the genetical level advancement would result in an healthy life of that particular person. Nutritional genomics not only depends on the eating behavior followed by an individual it also needs to talk about the physical activities performed by the individuals. Jogging, Walking and exercising are the well-known physical tasks that need to be performed by an individual because it leads to the activation of many of the silent genes that are beneficial to the growth of the individual's development. Thus, it's should be the aim of most of the nutritional genomics research work discussing of how to solve the issue of the progeria decrease in the quality of life. Nutritional behavior might contribute to deteriorate chronic noncommunicable diseases.

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Biography

Ali Sazci is from the Department of Medical Biology and Genetics, University of Kocaeli, Turkey. Ali Sazci works on genetic epidemiology of neurological disorders, infertility, cancer, gene evolution and fatty liver disease.

His current project is to understand what genes are common and what genes are diseases specific in causing or being risk factors for psychiatric diseases, neurological disorders, neurodegenerative diseases, NASH and cancer in humans.