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Personalized medicine: Regulation of genes in human skin ageing

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As people grow older, the common conditions and developments that happen by aging is skin changes. For example, over period of time the skin becomes drier and thin and other changes will start to occur such as appearing spots, decreasing elasticity, increasing stiffening and appearance of wrinkles on skin. There are many medical procedures which can be helpful to mitigate skin changing process. The most of the commercialized cosmetic products have been created for the majority of customer's population. For instance, the use of many anti-aging creams may or may not prevent or even treat the changes of skin. Therefore, the effect of these products can be different on each human body reaction. The causes of this difference can be related to many parameters such as environment, nutrition and etc. Therefore, the human genome book can be the best source of finding the most accurate solution. The appropriate type of cream for an individual's skin type can be verified and used accordingly. Global gene expression profiling (commonly called genomics) is an approach that can be used in the identification of compounds for inclusion in cosmetic formulations that improve the appearance of aged skin. In this study, the evaluations of all genes and their related antioxidants which lead to skin aging have been studied. The main goal is to match the appropriate medical procedure with the correct type of cream.

Biography

Danial Khorsandi is currently a Researcher at the Harvard-MIT's Division of Health Science and Technology (HST), Brigham and Women's Hospital and Harvard Medical School and has been working on Genomics, Biotechnology and Biomaterials for 4 years. He has worked at the Barcelona Skin Genomics company in Spain and Biomaterial innovation research center in Boston, USA.

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