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The process of melanogenesis

The immediate sun effect on skin is cutaneous hyperpigmentation with delay in the formation of new melanin. However, the prolonged, recurrent sun exposure implies definitive changes in the quantity and distribution of melanin in the skin. This process is named melanogenesis, wherein a lot of biomolecular mechanisms take place in order to set up the pigmentation of the skin. The crucial threshold in this process is tyrosinase, an enzyme which converts tyrosine into DOPA and, subsequently, in dopaquinone. Since physical appearance has currently become an aspect of great importance in the modern world, hyperpigmentation due to an excess of melanin production cause psychosocial disorders due to their unaesthetic nature. Based on introduction provide in these few paragraphs, this lecture will provide an overview of the melanogenesis process, which is fundamental to help scientists to dig into new compounds and products that can be helpful for the clinical approach of different hyperpigmented skin disorders, such as melasma.

Speaker Biography

Adilson Da Costa is a Brazilian Dermatologist that lives in Atlanta, GA, USA. He got his MD from Santa Casa of Sao Paulo School of Medicine, wherein he also completed his specialization in Dermatology. He obtained his MSc in Dermatology from Federal University of Sao Paulo, PhD from the University of Sao Paulo School of Medicine and he did his Postdoctoral Research Fellowship in Dermatology at Emory University School of Medicine, Atlanta, GA, USA. Currently, he is a Tenured Professor for the PhD and MSc Programs at the State of Sao Paulo Workers' Welfare Institute, Sao Paulo, SP, Brazil. He is a very experienced Researcher in Dermatology and has served as a Principal Investigator in more than 150 projects, either clinical or *in vitro*, which helped him to take place as an Advisory Board Member for important companies, such as Galderma, Sinclair, Avon, L'Oréal, Hypermarcas, and Natura; moreover, his research skills has helped him to be a common scientific resource for the general media, and an frequent speaker in international scientific meetings. He has already two books published "Dermatology in Pregnancy" (Guanabara Koogan) and International Textbook of *Cosmeceuticals* (Elsevier) and is now working on an international masterpiece on dermatological procedures. He has more than 60 manuscripts and chapter of books already published.

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