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Evidenced based materials from Brazilian biodiversity used in cosmetics

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The Brazilian biodiversity has been widely study in search of new compounds, extracts, oils, fruits with high antioxidant capacity, tissue regeneration, personal care and well-being, and most of all, to improve quality of life based on natural aspects. Brazilian population is becoming aware of the value of the biodiversity. Brazilians are patriotic about resources and how to take care of the Amazon forest, sustainable and productive. Natural ingredients grown abundantly in the region, with beneficial qualities, proved to be excellent bases for cosmetics such as avocado, cocoa, coconut, babassu, mango and Brazil nut oils. The communities from the rainforest search ingredients including açai, andiroba, murumuru, Brazilian nut, buriti, copaíba, passion fruit, cupuaçu, pracaxi and pataua oil and Amazonian white clay. Açai is known for its antioxidant and anti-aging properties and is a source of phytosterols, vitamin C, polyphenols and essential fatty acids. The andiroba tree is used as an odourless insect repellent and anti-inflammatory, while annato oil has a soothing topical effect, making it useful in after-sun products. It is also rich in carotenoids, and can be used as a natural coloring agent in creams and sun tanning products. The Brazil nut is rich in selenium, vitamins and oleic acid. Buriti fruits are rich in fatty acids, carotenoids and vitamin A, increasing the skin elasticity. Copaíba is an oil tree resin that can be used for acne treatments, dandruff control, and anti-inflammatory creams, or as a woody fragrance. Cupuaçu butter is an emollient that contains phytosterols and has an unusually high level of water absorption providing a prolonged moisturizing effect. Murumuru butter is rich in oleic acid and acts as a nutritive emollient and increases the creaminess of a product. The results may contribute to the manufacture of products such as soaps, repellents, shampoos, creams and lotions.

Biography

Fabio Ferreira Perazzo has his expertise in the development of new products and raw materials, improving the health and wellbeing of people. He has studied with the Wajapi indigenous tribe and has lived several years in the Rainforest. His research on development of natural products has produced standardized extracts and oils for use in cosmetics and foods. Currently, he is a Professor at the Federal University of São Paulo, Faculty of Pharmacy, with over than 60 scientific publications and book chapters, supervising graduate students and working with products from Brazilian biodiversity to improve quality of life using natural products on dermatology, cancer and general inflammation problems.

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