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Opinion Article

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Could Chamaleon Brain Structure Studies help the Treatment of Neurofibromatosis?

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Abstract

If our eyes had the eye system of a chameleon, perhaps sunglasses technology would have a hard time keeping up with us. This article actually aimed to show how important it is to provide a standard of living that will not change the normal life of every living creature in nature, and how much it offers solutions to the great problems of human beings. In this editorial article, I tried to explain which genetic dependent skin disease (neurofibromatosis) causes the natural nervous systems of chameleons, which change the mechanism on the skin.

Keywords: Metabolic activities; Neurofibromatosis ; Skin disease

Introduction

Before I begin this article, let me explain why I have revealed the relationship between a chameleon and neurofibromatosis disease. The important thing here is the energies spent in the metabolic activities that take place completely. For example, low energy use due to low neural activity or insufficient use of the energy given is the argument that it provides a sudden color change against environmental effects such as chameleon (protection, hunting, etc. see **Figure 1**, that is, the very effective use of the metabolism produced by each other can be a solution.



Figure 1: A chameleon can change their skin color easily for quick energy expenditure in its skin tissue.

1st Findings

In the study conducted in the journal Nature Communications in 2015, it was explained that the color changes of the chameleons are not only for protection purposes, but also that their enemies are built on intimidation. This is due to the changes in reflection of the guanine nanocrystals that form a structural color in the skin. In fact, how this feature, which is found structurally, can be applied to a human being will create a new field of study for scientists. However, it can be thought that this disease can be prevented by transferring the skin transfer used for face transplants to human skin from guanine nanocrystals.

Chameleons also show their feelings in color. For example, while the aggressive men take on a dark color, the female chameleons who look favorably on the flute prefer a bright pink. The eye structures provide the opportunity to focus their eyes on two different places at the same time and to see them in ultraviolet wavelength.

It was found that chameleons contain the same nanocrystals in the iridophores seen in the skin layers. this structure has been important in causing the range of crystals to cause rapid color changes. In D-iridophores, these wavelengths are thought to be reflected in the infrared wavelength. Therefore, these cells cause chameleons to stay cool in the hot climate rather than hiding and fighting.

The most surprising result found by the researchers who made this study is that the chameleons, which provide the ability to turn from green to yellow within minutes, can determine this choice by their own will. To do this, they can adjust the geometry of these crystals in iridophores.

Considering that the chameleon can control the crystal structure in its skin, the discovery of a mechanism that provides brain skin control for the treatment of neurofibromatosis (see Figure 2), whose treatment is practical on septomatic healing, can be an important remedy for patients.



Figure 2: A hearing loss treatment in Neurofibromatosis diseases.