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皮膚アレルギー試験法

佐藤悦久*

Test Method for Allergic Contact Dermatitis of Delayed Type

Yoshihisa SATO*

Abstract

Allergic contact dermatitis of delayed type is a subset of adverse reactions of the skin to environmental substances. Often, the sensitizing properties of a new product are not appreciated until it is widely used. Therefore, it is desirable to have an animal model for predicting the potential of substances to induce contact sensitization.

Presently, guinea pigs are the animal of choice for detecting allergic contact sensitivity because of their high degree of sensitivity, macroscopic formation of erythema and edema in the same way as in human skin, and histological similarities to human as regards the formation of spongiosis, intraepidermal vesiculation and the infiltration of inflammatory cells to the upper dermis.

In this review, I referred to the mechanism of delayed type contact hypersensitivity, guinea pig predicting test methods and many factors influencing the contact sensitization process.