

〈シンポジウム〉
(皮膚計測工学)

皮膚科領域における皮膚計測工学の応用

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Application of Skin Bioengineering in Clinical Dermatology

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Abstract

Recent development of electronics and computer enables us to obtain various morphological or physiological information of the skin, which may be impossible to detect by our sense. This technology, which is called skin bioengineering, may change conservative style of examination in clinical dermatology. In this article, practical application of skin bioengineering in dermatology is reviewed, especially in terms of videomicroscope, ultrasound, and several techniques for evaluating cutaneous circulation. Some case reports are also shown in which these methods played an important role to clarify pathophysiology of the disorders.

Key words: bioengineering, videomicroscope, ultrasound, laser-Doppler.