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〈講 演〉

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## 光老化研究の変遷

花田勝美

### Past and Future Aspects of Photoaging Study

Katsumi HANADA

#### Abstract

Based on the clinical and experimental reports of ours, especially referring to photoaging, progress of our interests on the mechanism of wrinkle formation or treatment of solar spots that we have investigated was introduced. Photoaging study is an attractive field for many investigators because of easy yielding holistic approaches. Any branches of learning including dermatology, oncology, toxicology, pharmacology, biochemistry and cosmetology are all associated with the study of photoaging. Regarding my case, first prompt leading to the study of solar damages was metal metabolism of the skin. In the president presentation, metallothionein as an endogenous sunscreen, skin phototypes affecting with photoaging, and culture cells containing green fluorescence protein due to human elastin promoter activity for rapid evaluation of photoaging was explained, respectively.

**Key words:** photoaging, metallothionein, endogenous sunscreen, skin phototype, elastin promoter.