日本香粧品学会誌 Vol. 30, No. 2, pp. 85-88 (2006)

〈教育セミナー〉

皮膚の美容最前線-2005

コエンザイム Q の基礎と応用

阿部皓一*

Basic and Application Research in Coenzyme Q10

Koichi ABE*

Abstract

Coenzyme Q10 (CoQ10) is a fat-soluble substance that is biosynthesized in cells. It was first isolated in 1950s and had been developed as a drug to improve congestive heart failure in Japan in 1970s. CoQ10 is now used world-widely as a food supplement. CoQ10 has a significant role in the proper mitochondria electron transfer and the synthesis of ATP. It has stronger anti-oxidant function than vitamin E and can regenerate vitamin E radical to vitamin E. In addition, its other attractive functions have been revealing recently. Its most common use is for preventing heart disease, neurological disease and side-effect of Statin therapy because of its deficiency. Moreover, CoQ10 are being paid attention to the protective material for skin.

Key words: coenzyme Q, mitochondria, anti-oxidant, vitamin E.