Anti-aging of skin mediated by skin-transmitter ATP

Schuichi Koizumi

Department of Neuropharmacology, Interdisciplinary Graduate School of Medicine and Engineering, University of Yamanashi

Skin cells release ATP that affects a big variety of functions of adjacent cells. However, the mechanisms underlying its release remain largely unclear. Here, focusing on VNUT (vesicular nucleotide transporter), we show that skins release ATP by a mechanism of Ca2+-dependent exocytosis in normal human epidermal keratinocytes.