

Lipid Nanocarriers and Their Pharmaceutical and Cosmetic Application Focusing Skin Delivery

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“Nanomedicine” can be simply defined as ‘nanotechnologies for health’ and has been developed with the progress of biology, chemistry, physics, chemical and mechanical engineering, material science and clinical medicine. The recent key issues of “Nanomedicine” in drug delivery are making a smart delivery system having special functions. The research issues with “Nanomedicine” can be classified as solubilization, enhancement of bioavailability of poorly water soluble drugs, release control of drug, enhancement of biomembrane permeation and targeting to organ and cells. For these, lipid-based drug delivery systems have been severely researched, which contains micellar solutions, vesicles, liquid crystal as well as nanoparticle with 10–400 nm size. Today, I will introduce some researches performed with lipid-based drug delivery systems and discuss the practical applications in pharmaceutical and cosmetic area.