

### Spontaneous Immobilization and Electrochemical Application of Liposomes

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We have found an interesting immobilization technique of liposomes on electron-beam exposed resist surfaces. The immobilized liposomes have been visualized by the atomic force microscope, and shown well organized three-dimensional physical structures, in which the liposomes maintain their shapes and sizes similar to those of the original design in prepared solution. The immobilization is based on a strong static charge interaction between the resist surface and the liposomes. Further experiments show that very strong charge in the surfaces produces the firm immobilization of the liposome. As an application for these phenomena, we will discuss for the electrochemical immunosensor using the liposome immobilized electrode.