

## EIS Material

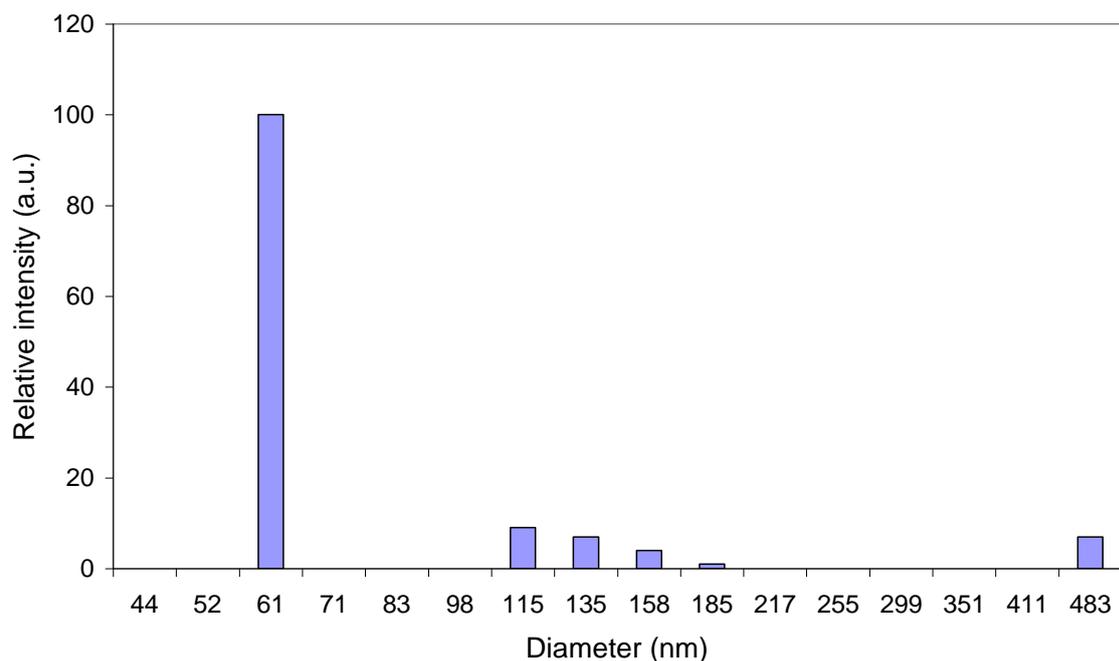


Fig S1: Liposome size distribution shown by Dynamic Light Scattering (DLS). Dynamic light scattering (DLS) experiments were carried out on a ZetaPotential analyser (Brookhaven Instruments Corporation, New York, USA). The size analysis was done by the ZetaPotential software (Version 3.72) provided by Brookhaven. The light source was a helium-neon laser with a wavelength of 632.8 nm. Samples were repeatedly passed through a 1 micron filter to remove dust particles, and taken in a 3 ml plastic cuvette.



Fig. S2: Low-resolution (X10) fluorescence micrograph of hydrogel loaded with fluorescein-encapsulating liposomes showing an area of 1 mm X 1 mm.

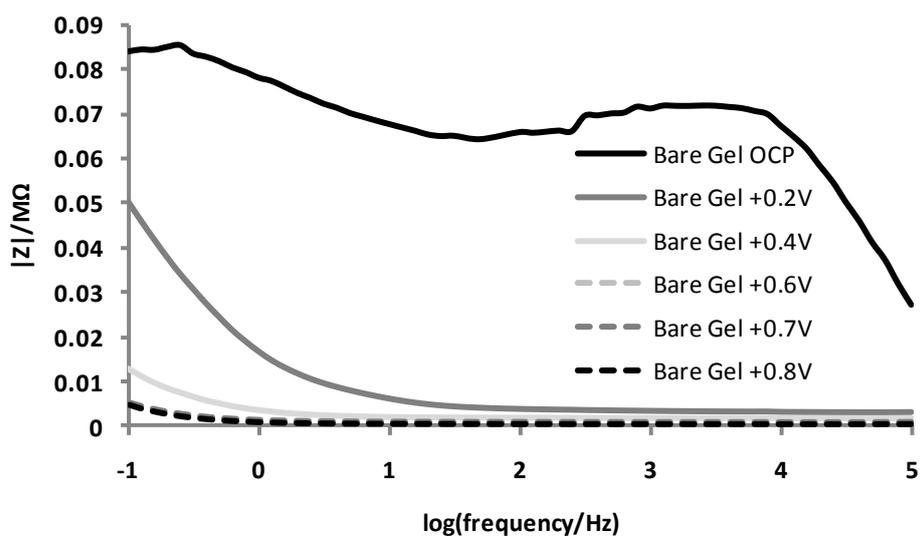


Fig.S3 Bode plots for the gel without liposomes.

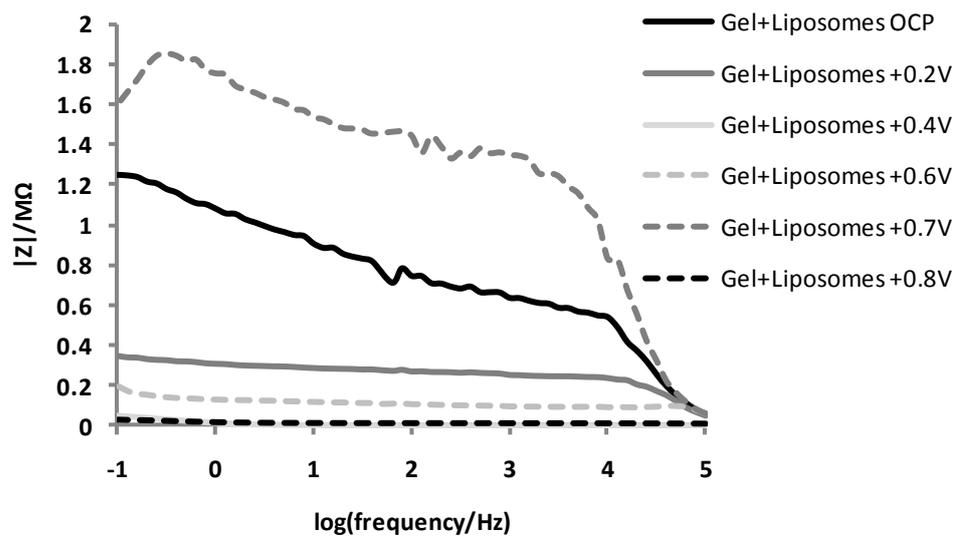


Fig.S4 Bode plots for the gel doped with liposomes.