

**Electrochemical-signal enhanced bioelectronic device for information storage using metalloprotein and metal nanoparticle**

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The nanoscale thin films composed of metalloprotein and metal nanoparticle were fabricated to apply bioelectronics devices. In this study, the silver nanoparticle was used for the current signal enhancement. The hetero-layer film composed of cytochrome c and silver nanoparticle was fabricated on the Au substrate. And the property of the fabricated hetero-layer film was investigated by cyclic voltammetry, atomic force microscopy and chronoamperometry. In conclusion, the fabricated film showed the current-signal enhancement compared to the film without silver nanoparticle.

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