

Hybrid film of gold nanoparticle and recombinant azurin for nanoscale biomemory device

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Biomolecules can be applied to bioelectronic devices. Biomemory, one of bioelectronic devices, with metalloproteins which have redox property were developed in previous researches. But, in nanoscale, electrochemical signal should be enhanced because the electrode surface is quite small. Here, hybrid film of gold nanoparticle and recombinant azurin was developed for nanoscale biomemory device. And its electrochemical signal enhancement was confirmed by cyclic voltammetry. Therefore, proposed hybrid film can be applied to nanobioelectronic devices.

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