

Figure S1. XPs spectra of nanostructured gold

Figure S2 shows the chronoamperometry response, during 25 hours, at 200 mV, of BOD modified of MgOC, Au-MgOC, and 4MBA modified Au-MgOC electrodes. We cannot see any difference in the slope, although initial currents are different. From this result, the stability is basically determined by the enzyme itself, and the enzyme is not affected by the surface (not denatured and stabilized).

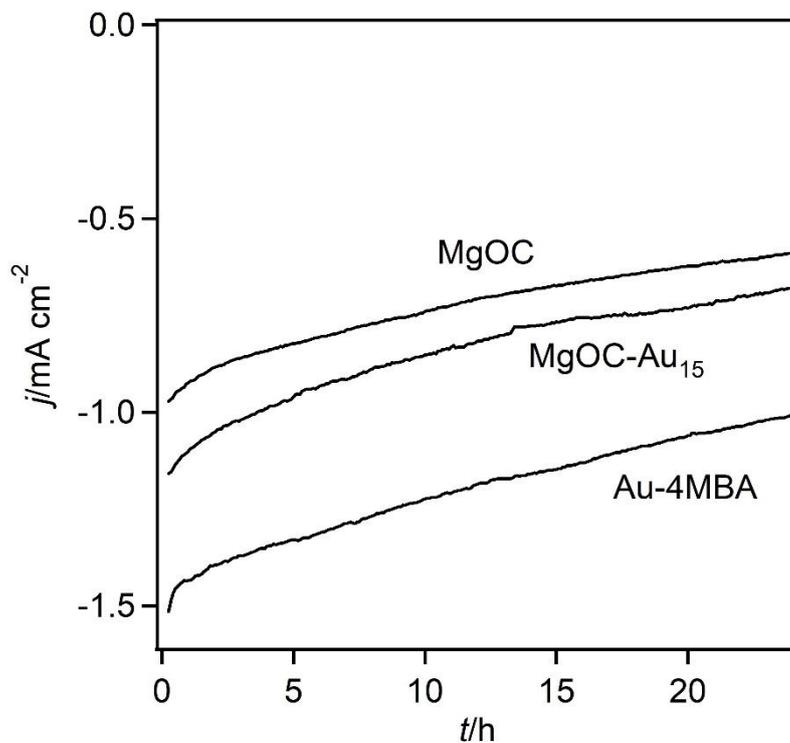


Figure S2. Stability curves, under continuous operation, of different biocathodes. Measurement performed at 200 mV vs SCE, pH 5.0, and 25 °C, with a citrate buffer (100 mM).