Supporting information

**Figure S1.** Size distribution of the PdNPs biosynthesized on *S. oneidensis* MR-1. Data from TEM images (Fig. 3D).
Figure S2. XRD spectra of *S. oneidensis* MR-1 before (black line) and after (red line) the exposure to 1 mM Na₂[PdCl₄]. Each sample was scanned in the θ-range of 5-90°.
Figure S3. Tapping mode AFM images of *S. oneidensis* MR-1 cells with PdNPs on Pt sheet (1.0 ×1.0 cm²).
Figure S4. CVs of *S. oneidensis* MR-1 with bio-PdNPs modified GC electrode in 0.10 M pH 7.0 phosphate buffer (solid lines) and in the presence of 100 mM (A) methanol; (B) ethanol and (C) acetate (dotted lines), at a scan rate of 10 mV/s.
Figure S5. Chronoamperometric curve of methanol, ethanol, acetate, and formate oxidation at electrodeposited Pd modified GC electrode. The potential held at 0.10 V in 0.10 M pH 7.0 phosphate buffer solution. Final concentrations of methanol, ethanol, acetate, and formate are 0.10 M.

Reference


