

Electronic Supplementary Information

Reductive Formation of Palladium Nanoparticles by *Shewanella oneidensis*: Role of Outer Membrane Cytochromes and Hydrogenases

Chun Kiat Ng,^{a,b} Tian Kou Cai Tan,^{a,c} Hao Song^{a,d} and Bin Cao^{*a,e}

^aSingapore Centre on Environmental Life Sciences Engineering, Nanyang Technological University, Singapore 637551. Fax: +65 6316 7349; Tel: +65 6790 5277; E-mail: bincao@ntu.edu.sg

^bInterdisciplinary Graduate School, Nanyang Technological University, Singapore

^cSchool of Chemical and Life Sciences, Singapore Polytechnic, Singapore

^dSchool of Chemical and Biomedical Engineering, Nanyang Technological University, Singapore

^eSchool of Civil and Environmental Engineering, Nanyang Technological University, Singapore

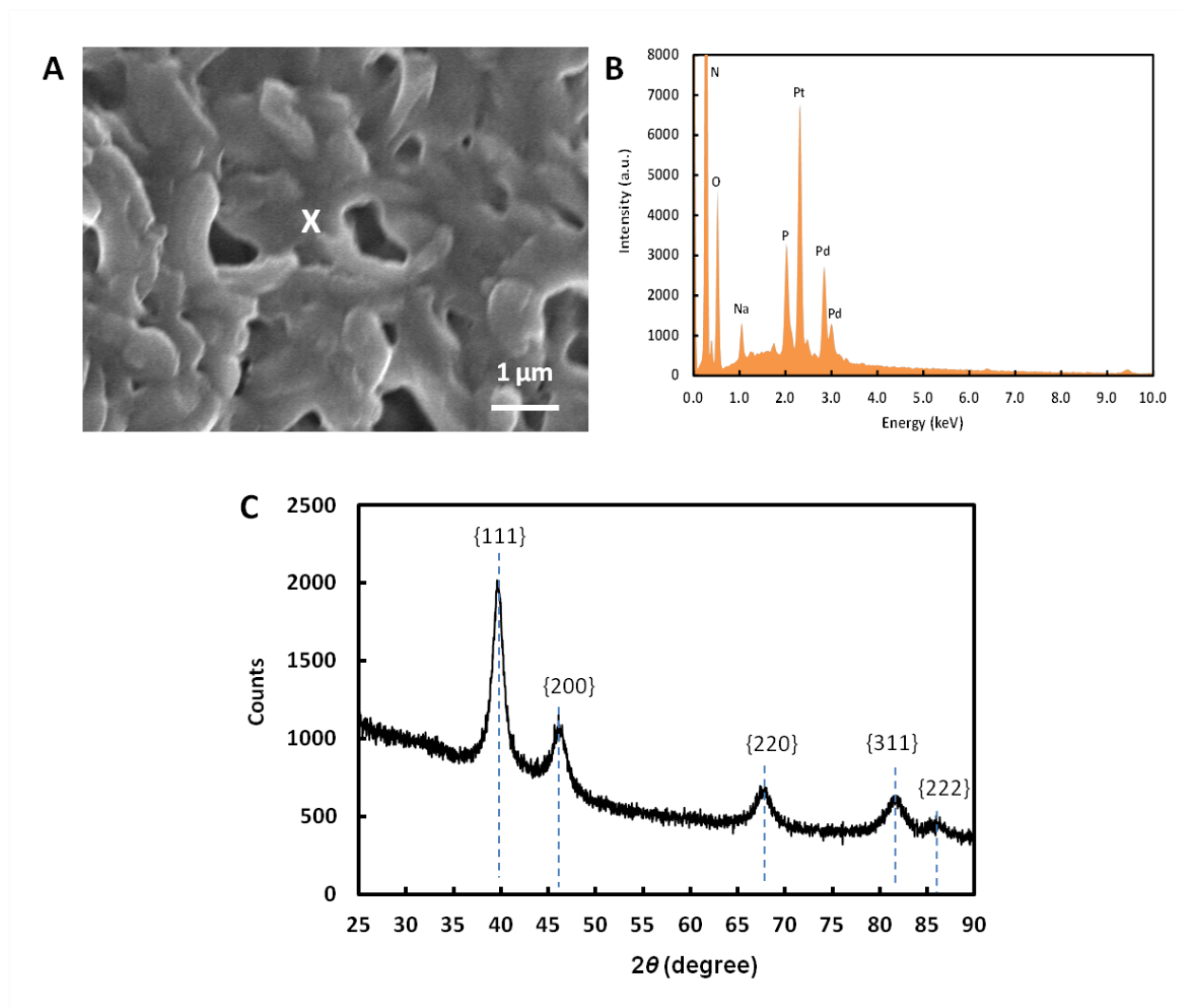


Fig. S1. (A) SEM image, (B) EDX spectrum, and (C) a representative XRD spectrum of *S. oneidensis* cells with Pd(0) nanoparticles.

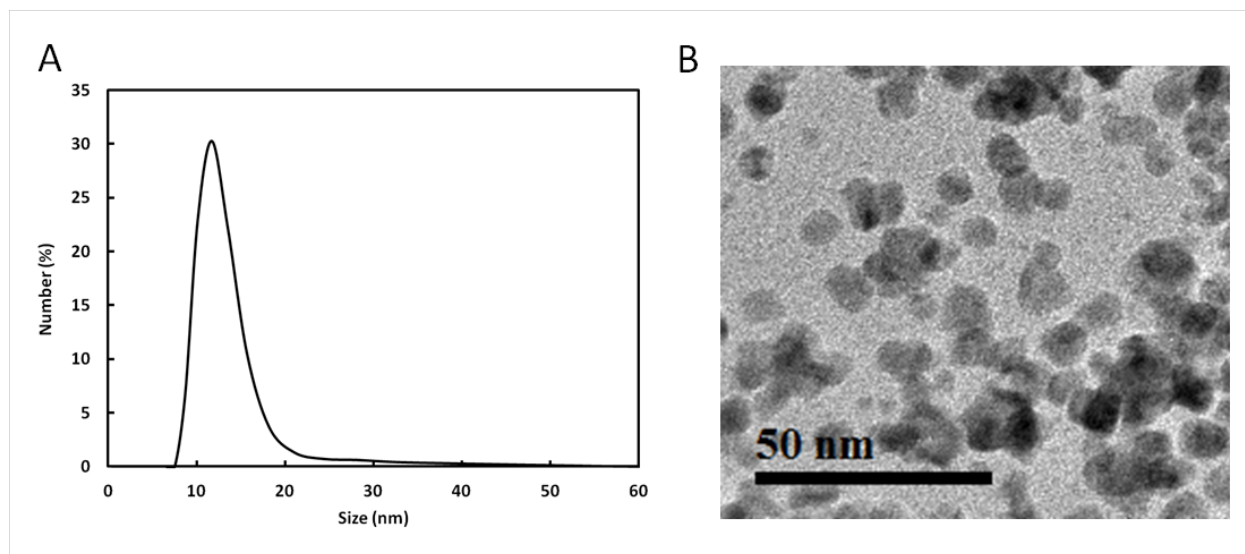


Fig. S2. (A) Particle size distribution and (B) TEM image of the extracellular Pd(0) nanoparticles produced by *S. oneidensis* MR-1.