



SI 1. Scanning electron micrograph of *S. oneidensis* MR-1 under normal conditions (A), EDS spectrum of *S. oneidensis* MR-1 under normal conditions (B). Scanning electron micrograph of *S. oneidensis* upon reduction of Cr(VI) (C), EDS spectrum of Cr(III) precipitates on cell surfaces (D), and transmission electron micrographs (TEM) of *S. oneidensis* MR-1 upon reduction of Cr(VI) (E-H). Panels E and F are TEM of uranyl acetate-stained cells, while panels G and H are TEM of unstained cells. The dashed circle in panels A and C indicate regions evaluated by EDS.