

Figure S2: Viability and DNA damage in *Serratia* cells exposed to gamma radiation. (A) Radiation tolerance of *Serratia* sp. strain OT II 7. Exponential phase cells ($OD_{600\text{ nm}}$ of 1.0) were exposed to gamma radiation from ^{60}Co source. Volumes of 10 μL from a dilution series of the irradiated cell cultures were spotted onto LB agar plates and incubated under usual growth conditions. The cells showed tolerance up to 1.6 kGy ^{60}Co -gamma rays. (B) Evaluation of *in vivo* and *in vitro* chromosomal DNA damage following exposure to 800 Gy of gamma radiation. Lane 1: Chromosomal DNA (1 μg) of unirradiated cells, Lane 2: Chromosomal DNA (1 μg) of cells irradiated at 800 Gy. DNA samples were electrophoretically resolved on 0.8% agarose gel at 80 V for ~ 3 h along with lambda DNA/*BstE* II marker (M).

