Figure S7. The distribution of single-cell YFP/CFP fluorescence for mgrB⁺ and mgrB⁻ cells.

P_{mgrB} fluorescent reporter strains were grown in 100 µM MgSO₄ (A) or 10 mM MgSO₄ (B) and analyzed by fluorescence microscopy as described in Materials and Methods. For each culture, values of cellular YFP/CFP were normalized by the mean of the distribution. For the 100 µM Mg²⁺ cultures, the mean (μ), and coefficient of variation (standard deviation/mean, cᵥ) for YFP/CFP were μ=0.84, cᵥ=0.19 and μ=2.75, cᵥ=0.13 for mgrB⁺ and mgrB⁻ strains, respectively. For the 10 mM Mg²⁺ cultures, μ=0.13, cᵥ=0.26 and μ=1.3, cᵥ=0.19 for mgrB⁺ and mgrB⁻ strains, respectively. Each distribution represents a sample of at least 140 cells. Strains are TIM92 (white) and AML16 (black).