

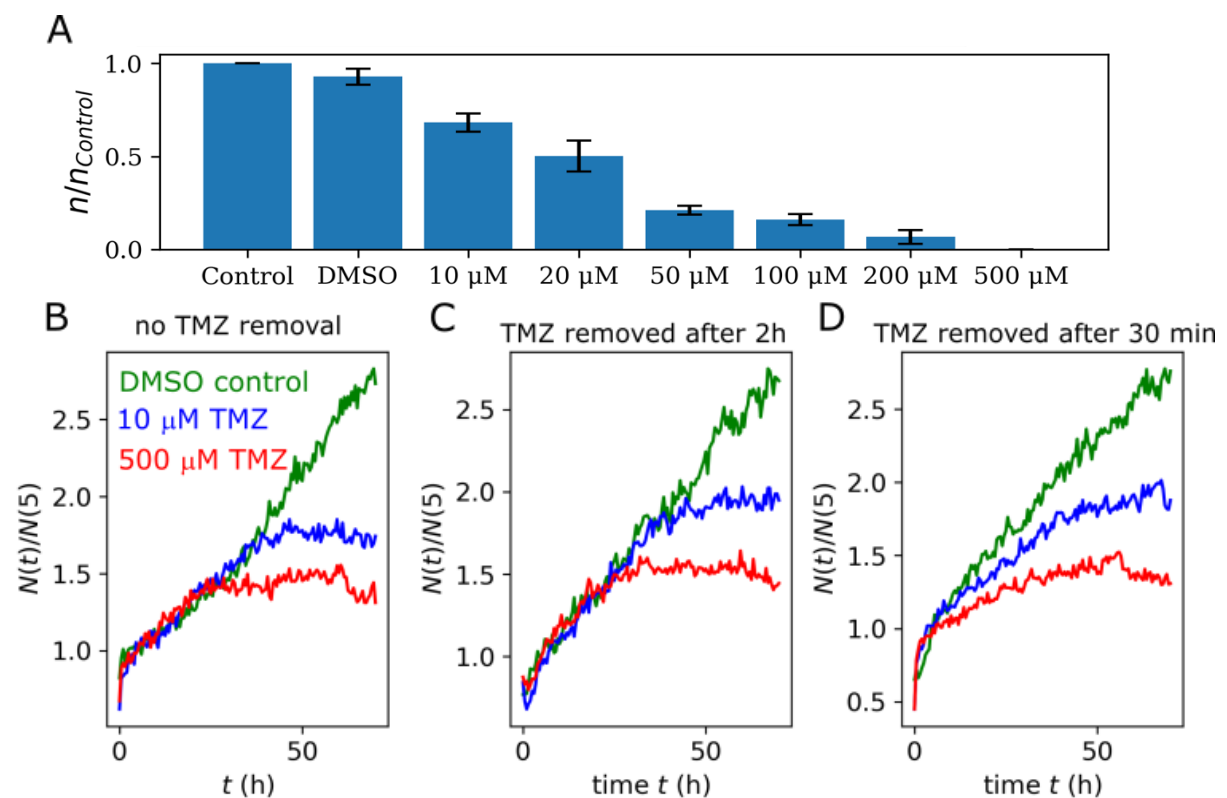
A quantitative characterization of the heterogeneous response of glioblastoma U-87 MG cell line to temozolomide

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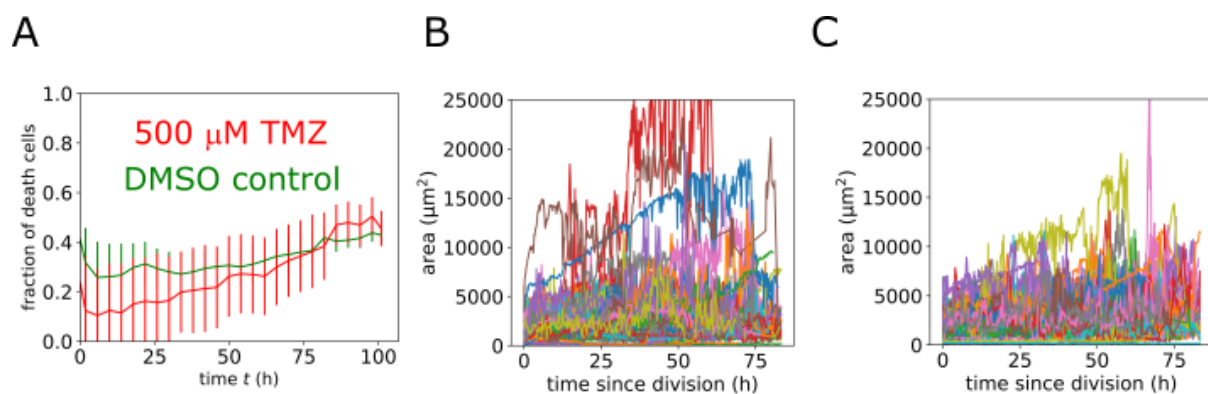
SUPPLEMENTARY INFORMATION

This document contains all supplementary figures mentioned in the main text.

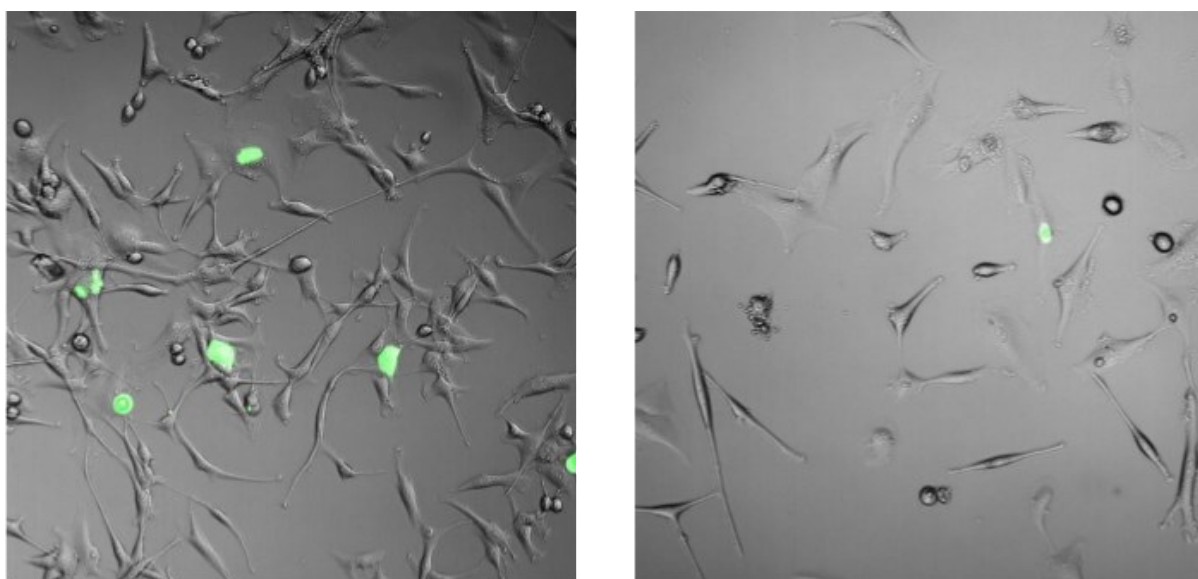
Supplementary Figures



SI Fig. S1. (A) Clonogenic assay: the ratio n/n_{Control} between the number of colonies n from the TMZ-treated cultures to the number of colonies n_{Control} in the control population formed after 2 weeks of incubation. The experiment was performed in triplicate. Errors = SEM. (B, C, D) Fold-change in the number of cells versus time for cells treated with TMZ without replacing the medium (B) and with medium replacement after 2h (C) and 30 min (D). Note that in this experiment we observed a stronger response to the drug than in Fig. 1B. For panels B, C, and D: 500 U-87 MG cells were seeded in 96-well plates with 200 μl of EMEM medium and images were captured using 10X objective. Other experimental conditions were the same as in Fig. 1.



SI Fig. S2. (A) Fraction of dead cells as a function of time post-TMZ exposure. (B, C) Area versus time for single cells from the control (panel B) and 500 μ M TMZ (panel C) experiment.



SI Fig. S3. Nuclear localization of MGMT-C-GFPspark. Representative images from two replicates indicating fluorescence from GFP-tagged MGMT (green) superimposed on a brightfield image (grey). Images were captured using 20X objective.