

Supplementary Materials

New trends for antimalarial drugs: synergism between antineoplastics and antimalarials on breast cancer cells

Diana Duarte ^{1,2} and Nuno Vale ^{3,*}

¹ OncoPharma Research Group, Center for Health Technology and Services Research (CINTESIS), Rua Dr. Plácido da Costa, 4200-450 Porto, Portugal

² Faculty of Pharmacy of University of Porto, Rua Jorge Viterbo Ferreira, 228, 4050-313 Porto, Portugal

³ Faculty of Medicine, University of Porto, Al. Prof. Hernâni Monteiro, 4200-319 Porto, Portugal

* Correspondence: nunovale@med.up.pt;

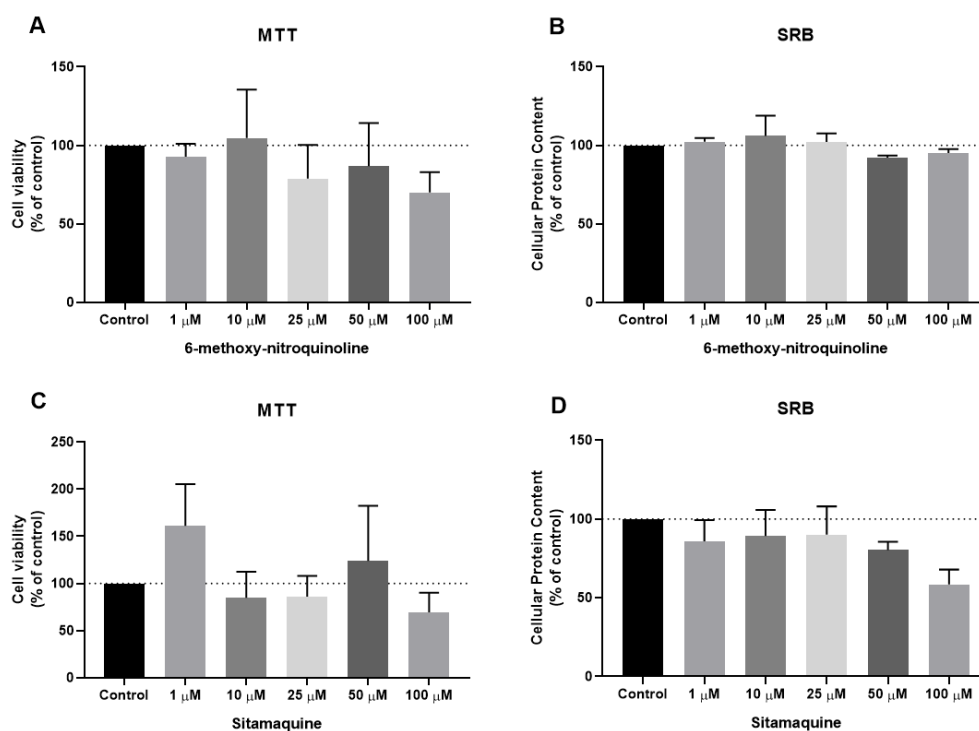


Figure S1. Effects of 6-methoxy-nitroquinoline (A and B) and sitamaquine (C and D) on MCF-7 cells. Cells were cultured in the presence of increasing concentrations of each drug. After 48 h MTT and SRB assays were performed to measure cellular viability as well as protein content. Values are expressed in percentage and represent means \pm SEM. Each experiment was done three times independently (n=3).

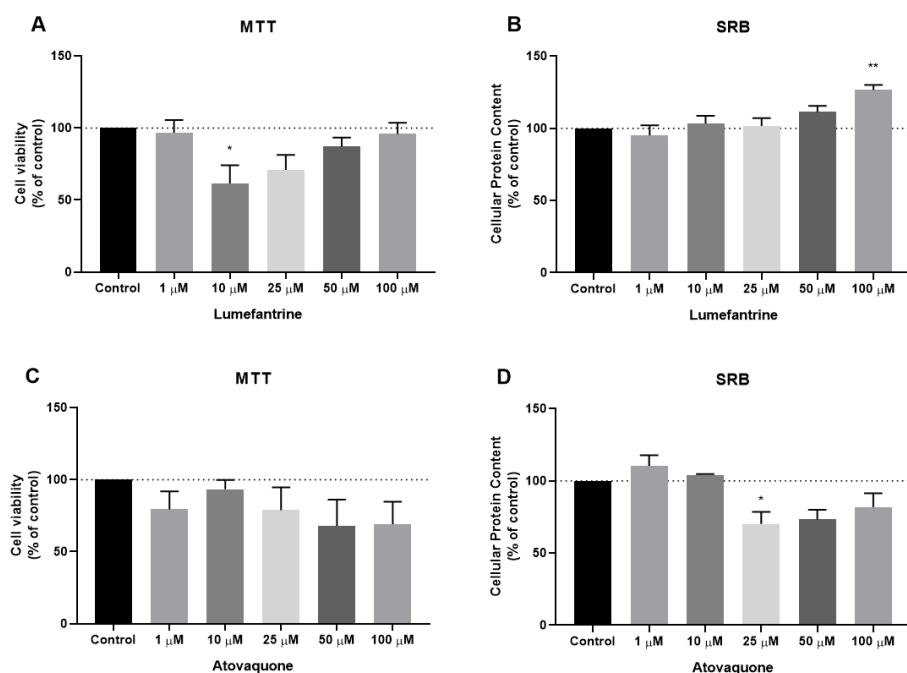


Figure S2. Effects of lumefantrine (A and B) and atovaquone (C and D) on MCF-7 cells. Cells were cultured in the presence of increasing concentrations of each drug. After 48 h MTT and SRB assays were performed to measure cellular viability as well as protein content. Values are expressed in percentage and represent means \pm SEM. Each experiment was done three times independently (n=3); *statistically significant vs. control at $p < 0.05$. **statistically significant vs. control at $p < 0.01$.

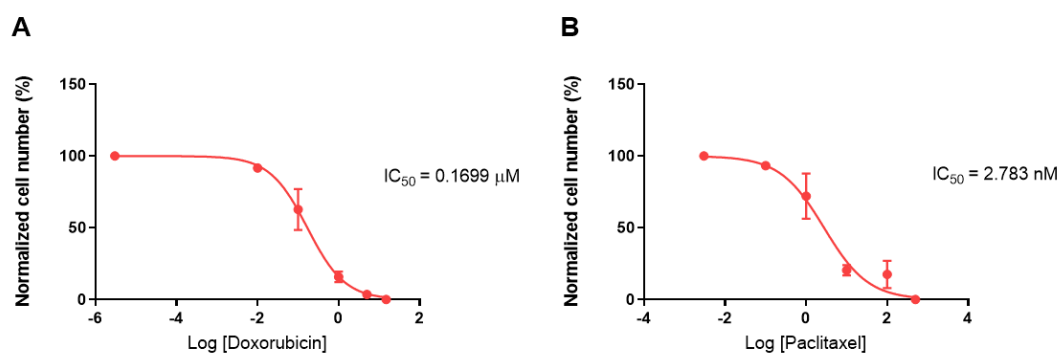


Figure S3. Concentration-response curves of DOX (A) and PTX (B) on MCF-7 cells based on results obtained by MTT assay. The results represent the mean \pm SEM of three independent experiments performed in triplicate.

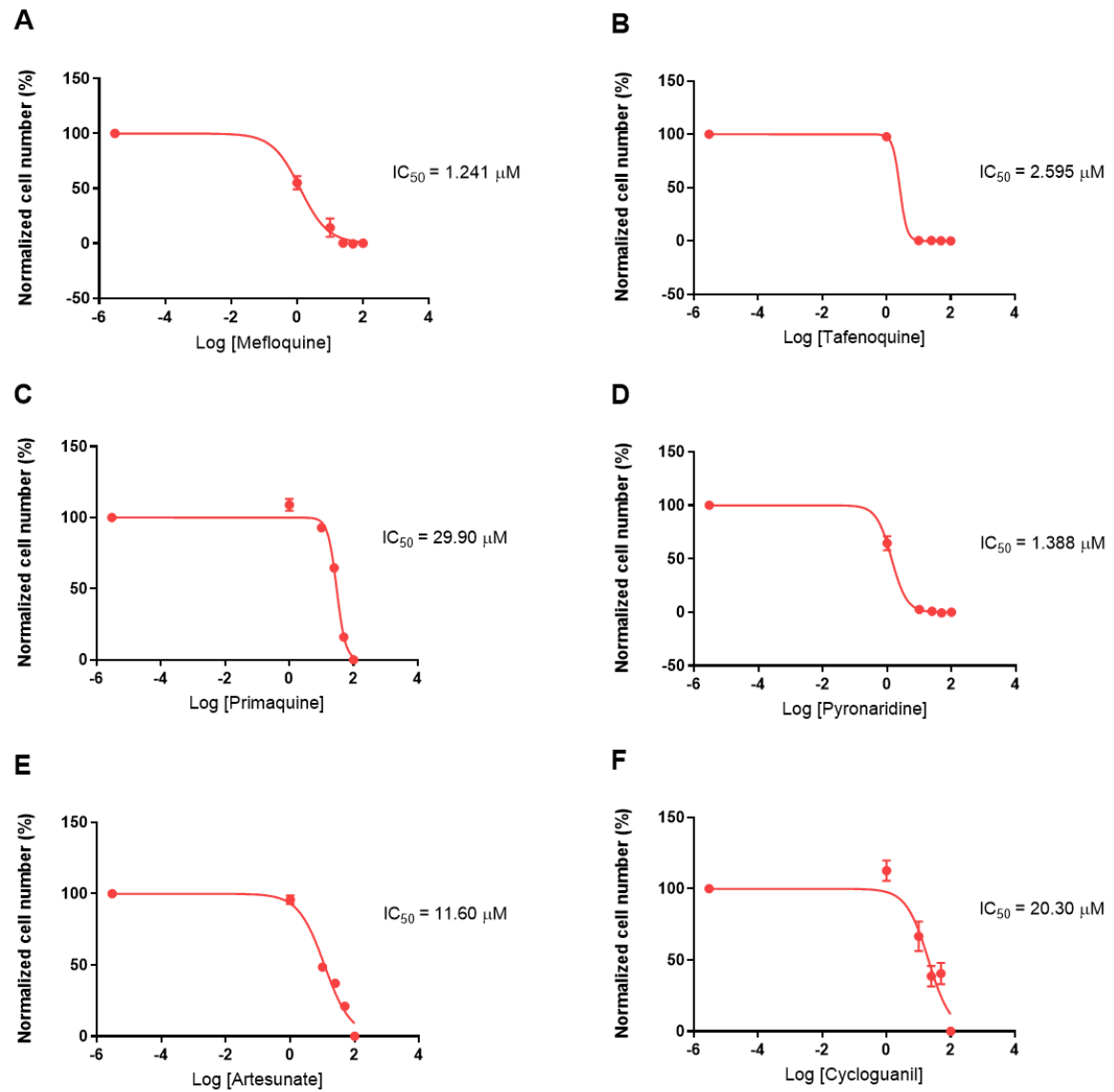


Figure S4. Concentration-response curves of mefloquine (A), tafenoquine (B), primaquine (C), pyronaridine (D), artesunate (E) and cycloguanil (F) on MCF-7 cells based on results obtained by MTT assay. The results represent the mean \pm SEM of three independent experiments performed in triplicate.

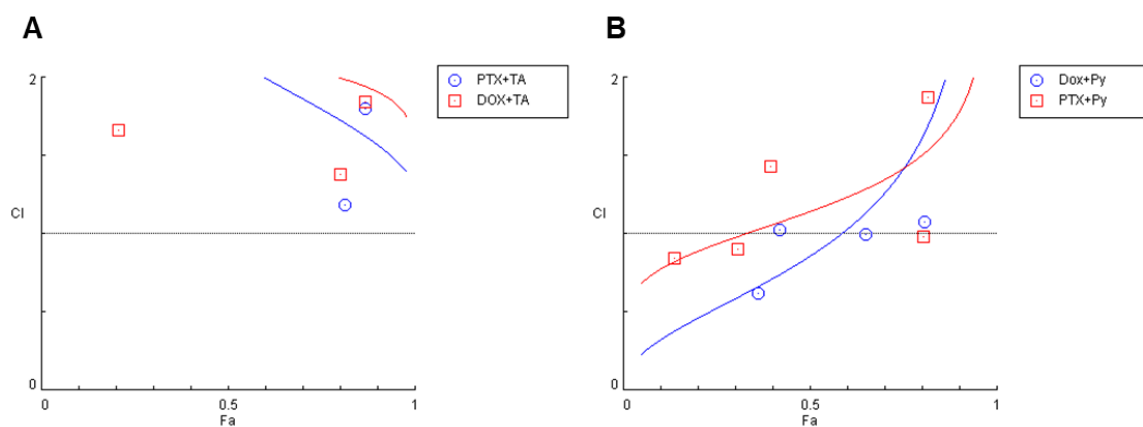


Figure S5. Chou-Talalay method Fa-CI plot of DOX/PTX and tafenoquine (**A**) and pyronaridine (**B**). CI was plotted on y-axis as a function of effect level (Fa) on the x-axis to assess drug synergism. $CI < 1$, $CI = 1$ and $CI > 1$ indicate synergism, additivity, and antagonism, respectively.