

## Differential sensitization of cancer cells to doxorubicin by DHA: a role for lipoperoxidation.

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## FIGURE LEGENDS

**Figure 1.** Dose-response curve of doxorubicin in the absence (open squares) or in the presence (open triangles) of DHA 30  $\mu$ M. Breast cancer cell lines (**A**: MDA-MB-231, **B**: MCF-7, **C**: MCF-7dox) were grown during 7 days with specified concentrations of doxorubicin (in M) without or with DHA 30  $\mu$ M. Cell viability was measured by MTT method (see Materials and Methods). Shown are fitted curves and mean ± SE from 3 separate experiments in which triplicate measurements were made.

**Figure 2**. Differential incorporation of DHA among three cell lines (**A**) and lack of relation with intracellular doxorubicin accumulation (**B**). Cells were grown during 7 days without (control: 0.02% ethanol) or with DHA 30  $\mu$ M (open bar, open symbol). DHA incorporation in membrane phospholipids (mol %) was quantified by gas chromatography after extraction and derivatization of membrane phospholipids. Accumulation of <sup>14</sup>C-doxorubicin (pmol/mg proteins) was measured after 3h incubation with doxorubicin 5  $\mu$ M. Bars are mean  $\pm$  SD of 2 experiments in triplicate.

**Figure 3**. Malondialdehyde (nmol/g proteins) and glutathione levels ( $\mu$ mol/g proteins) in the 3 breast cancer cell lines supplemented during 7 days without or with DHA 30  $\mu$ M. Doxorubicin concentration was 0.05  $\mu$ M for MDA-MB-231, 0.1  $\mu$ M for MCF-7 and 7  $\mu$ M for MCF-7dox cell line. Data are mean  $\pm$  SD of 8 values and 6 values for malondialdehyde and glutathione, respectively.