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Evaluation of the cytotoxicity of an *Oscillatoria sp.* extract on breast cancer cell line (MCF-7) and assessment of NoxA gene expression

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Introduction & Aim: Breast cancer is the most common cancer and the second most leading cause of cancer death in women after lung cancer. Cyanobacteria are one of marine resources that have some effective compounds such as polyphenols compounds that can induce the process of cell death in cancer cells and might be promising candidate for cancer therapy. In the present study, the effect of an *Oscillatoria cyanobacterium* extract on the viability and expression of NoxA gene in breast cancer MCF-7 cell line was examined.

The crude extract of *Oscillatoria* that have some polyphenols compounds proved to be cytotoxic against breast cancer cells.

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