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INFLUENCE OF LOW INTENSITY LASER IRRADIATION (LILI) ON GLOBAL METHYLATION OF THE DNA IN CANCER CELLS

Abstract: Since cancer is a result of erroneous regulation of genes, we investigated whether low intensity laser irradiation has an influence on the epigenetic state, specifically global methylation, of the DNA in five different cancer cell lines in vitro. Possible consequences may include changes in gene expression and DNA conformation.

1. Introduction

Photodynamic therapy (PDT) for cancer is a treatment where low intensity light irradiation (LILI) activates a drug that has accumulated in the tumour resulting in cell death (1). LILI itself has an influence on cell metabolism and viability (2), suggesting that the regulation of gene expre

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