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Author Lina Liljenfeldt		
Title (English) Investigation of genome instability in colon carcinoma cells caused by methotrexate		
Title (Swedish)		
Abstract Methotrexate is a commonly used chemotherapy drug which acts by blocking the metabolism of folic acid, necessary to make DNA, in cells. In this project, it was investigated whether methotrexate causes damage to the genome of different colon carcinoma cancer cell lines. Two genome instability assays were used: the cytokinesis-block micronucleus assay and the comet assay. The conclusion from the obtained results was that methotrexate did not appear to harm the genome, but the effect of methotrexate on genome stability should be investigated further to corroborate these results.		
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Supervisors Donna Albertson Comprehensive Cancer Center, University of California, San Francisco		
Scientific reviewer Anders Isaksson Department of Genetics and Pathology, Uppsala University		
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Biology Education Centre Box 592 S-75124 Uppsala	Biomedical Center Tel +46 (0)18 4710000	Husargatan 3 Uppsala Fax +46 (0)18 555217