

SEM/2744



PGS16_2012

Biophysical study of cytostatic drugs with nucleic acid interactions

Laboratoř Metalomiky a Nanotechnologií



Vás zve na seminář k projektu ID 94: The main aim of project is determine interaction between anticancer drugs such as etoposide, doxorubicin and ellipticine and DNA by capillary electrophoresis and electrochemistry technique.

Electrochemical study of interaction between etoposide and ODN

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Abstrakt



Etoposide (4-demethylepipodophyllotoxin ethylidene-b-D-glucoside) is a potent clinical anticancer agent. It is active against several tumors including small lung cancers, lymphoma, leukemia and Kaposi's sarcoma associated with AIDS. It is used as part of the preparatory regimen for bone marrow transplants in patients with advanced hematological malignancies. The mechanism of action of etoposide is unknown but it is a cell-cycle, phasespecific drug that appears to act either by causing DNA breaks by an interaction with DNA-topoisomerase II or by forming free radicals. In this study, interaction between etoposide and ODN was investigated using glassy carbon electrode modified with MWNTs.

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