

Gabriela Tanasie,
Conferentiar universitar, Fiziologie
Medic primar medicina de laborator
Doctor in Stiinte medicale
E-mail: gtanasie@umft.ro, gabriela.tanasie@oncogen.ro



Domenii de interes stiintific

La ora actuala, principala tema de cercetare este reprezentata de **studiul fiziologiei celulelor stem si evaluarea plasticitatii acestora**, cu aplicabilitate in **terapiile celulare**. In domeniul medicinei regenerative am urmarit utilizarea celulelor stem mezenchimale in bolile osteo-articulare si boli ale tesuturilor conjunctive investigand metodologia optima de obtinere, cultivare si expandare a celulelor stem mezenchimale din diferite surse.

De asemenea, o serie de studii au in vedere **interactiunea diverselor biomateriale cu tesuturile vii**, bazat pe studiul biocompatibilitatii in vitro si in vivo, studiul efectului in vitro a unor substante si materiale asupra cresterii si diferentierii celulare.

Ne propunem sa implementam tehnici de bioinginerie tisulara bazate pe utilizarea celulelor in combinatie cu materiale bioactive. Un aspect important este stabilirea unor conditii de **cultura in sistem GMP** care sa permita utilizarea acestor produse terapeutice in aplicatii clinice. .

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UMF "Victor Babes" Timisoara, Department III Stiinte Functionale, Disciplina de Fiziologie
Centrul Oncogen -SCJUPB Timisoara