

Human and animal cells adhesion on the modified glass

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Abstract

2D matrix for cells cultivation has been created using ionic plasma processing of silicate glass. We have shown that the CD-1 mouse hepatocytes are adsorbed on the modified and the control glass after 24 h cultivation. Number of these cells on the modified glass was 2.8-0.2 more as compared with that in control on a smooth glass. Human fibroblasts adsorbed on a modified glass matrix had normal configuration and their number was 1.5 ± 0.5 times greater than the number of cells in the control of smooth glass matrix.

Keywords

2D matrix, Cell cultivation, Ionic plasma processing glass