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Name of Journal: World Journal of Translational Medicine

ESPS Manuscript NO: 21498

Manuscript Type: ORIGINAL ARTICLE

Basic Study

Role of nestin in glioma invasion

Alex Lin, Luigi Marchionni, Jeffrey Sosnowski, David Berman, Charles G Eberhart, Eli E Bar

Abstract

AIM: To determine the role for the intermediate filament protein Nestin in glioma invasion.

METHODS: We examined the expression and function of nestin in gliomas (Grades II - IV as defined by the World Health Organization (WHO)). We determined Nestin expression using Immunohistochemical methods. To elucidate Nestin's biological function(s), we reduced mRNA levels by 61% and 87% in two glioblastoma-derived neurosphere lines using short hairpin RNAs and determined the effect of reduced Nestin expression on glioma cell proliferation and invasion using MTS and matrigel migration assays, respectively. We also utilized quantitative Real Time PCR assays to determine



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