Sergei Fedotov

SCHOOL OF MATHEMATICS, THE UNIVERSITY OF MANCHESTER

e-mail: sergei.fedotov@manchester.ac.uk

Migration-Proliferation Dichotomy in Tumor Cell

Proliferation and migration dichotomy of the tumor cell invasion is examined within a two-state continuous time random walk (CTRW) model. The overall spreading rate of cancer cells is obtained by using a Hamilton-Jacobi formalism. Random switching between cell proliferation and migration is taken into account, and its influence on the front propagation rate is studied.