

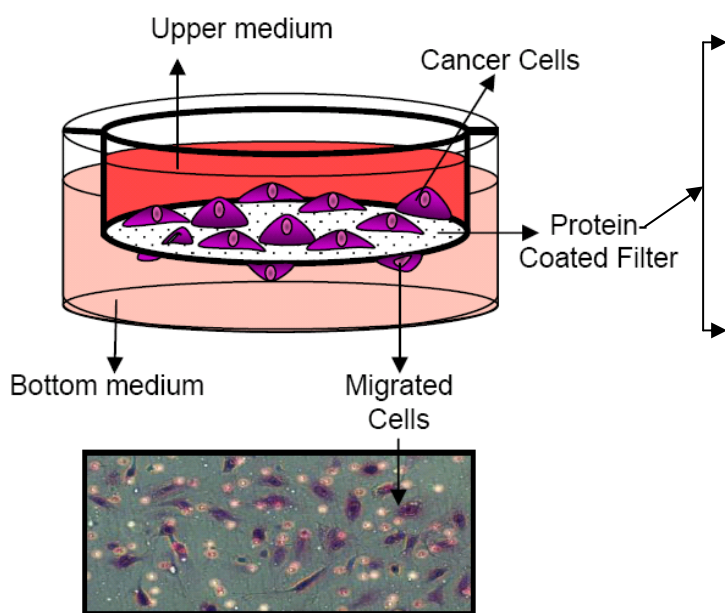
TUMOR PROGRESSION ASSAYS

Tumor Cell Migration / Invasion

Tumor cell migration/invasion is one of the key steps in the tumor progression. The metastatic potential of tumor cells is largely dependent on their ability to degrade and migrate through extracellular matrix by proteolytic enzymes secretion.

OUR MODEL

Cell migration is performed using modified Boyden Chambers. Cells are seeded onto protein-coated inserts with 8.0 μm pores and placed on top of 2-cm² wells containing culture media. After a certain time, migrated cells are fixed, stained and counted using microscopy.

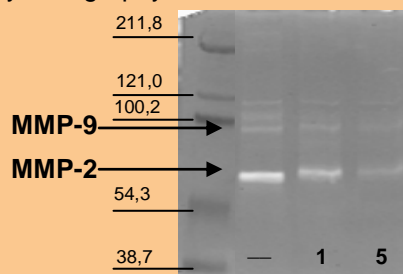


Cell Migration Assay

Inserts are coated with collagen I, vitronectin or fibronectin proteins. These proteins do not obstruct pores allowing cells moving through the pores.

Cell Invasión Assay

Inserts are coated with Matrigel or gelatin. These proteins occlude 8 μm pores and cells need an active enzymatic degradation for moving through the pores. In the assay below conditioned medium were collected and Metaloproteases (MMP-2 & MMP-9) were measured by zimography.



Cancer cells treated with increasing doses of an antimetastatic compound (μM)