Master Thesis Project: 2)

Endothelium as the facilitator of metastasis

Tumor microenvironment drives tumorigenesis and metastasis, which is defined by immune cell infiltration. Activation of endothelial cells during tumorigenesis and metastasis is an essential step in cancer progression. In addition, the vasculature is an important regulator of immune responses I various physiological and pathophysiological situation, however; whether and how tumor endothelium modulates metastasis remains to be described. This project aims to understand how tumor-endothelial cell-cell communication contributes to metastatic outgrowth. We use cell co-culture techniques, flow cytometry, immunofluorescence microscopy to delineate the contributions of tumor, endothelial and immune cells to metastasis.

Keywords: tumor inflammation, myeloid cells, activated endothelium

Conditions: Seeking a motivated student.

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