Module 4 Assignment

585.751 Immunoenginnering

1. Briefly describe (1-2 sentences) the following suppressive cell types of the TME and how they modulate the immune response to cancer. (40 points)
   1. MDSCs (10 points)
   2. Tregs (10 points)
   3. M2 macrophages. Additionally, how are M2 macrophages different from M1 macrophages? (20 points)
2. Describe (in a few sentences each) two ways in which cancer can evade the immune system. (40 points)
3. Identify a tumor-associated antigen either described in lecture or from your own research. Describe what class of tumor antigen it is (i.e. oncoviral, overexpression, germ cell, differentiation, mutations, or abnormal posttranslational/posttranscriptional modification), how it arises, and what cancer(s) express it. (20 points)