

Comparison of Denovo Predictions with Known Structure GcMAF

ABSTRACT

Cancer is one of the leading causes of death worldwide. The immune system plays a key role in the identification and removal of cancerous cells from the body. However, many diseases including cancer weaken the immune response of the host leading to the proliferation of the disease. Recently, a multifunctional serum protein macrophage-activating factor (MAF) has been identified that binds to phagocytic immune cells and activates them to remove cancer cells. Correct form of MAF can be used against a variety of cancers including breast, ovarian, and prostate cancer. So the aim of this project is to model engineered proteins and further synthetic peptide analogs of MAF for use in cancer therapy.