Mini Project

Impact of hypoxia on tumor microenvironment

Mini Project description

The current NB state of knowledge has well characterized clinical variables

 NB clinical variables are for example the INSS stage, MYCN Amplification status, the high risk status

Other important variables include death of disease, relapse and age at diagnosis

 In the dataframe, phenotype score examples are MYCN gene expression, HIF1A gene expression, Hallmark Hypoxia, Hallmark Inflammatory Response

Mini Project Objectives

 Correlate neuroblastoma clinical variables (INSS stage, MYCN Amplification status) with phenotype scoring

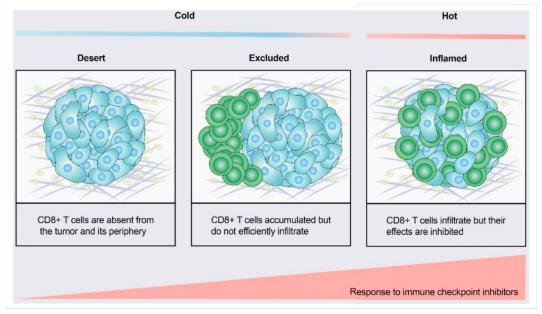
Correlate NB clinical variables with hypoxia phenotypes

 Note: Hypoxia Up-regulation and Hypoxia Down-regulation are proprietary data of the Applebaum lab at UChicago

Mini Project **Hypothesis**

Hypoxia influences the inflammatory and T-cell infiltration axis in the tumor microenvironment

Tumor inflammation



Liu and Sun et al., (2021)