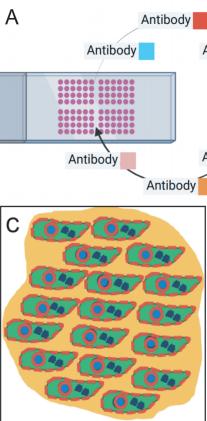
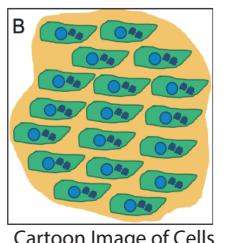


# Immune Cell Interaction and Survival Probability

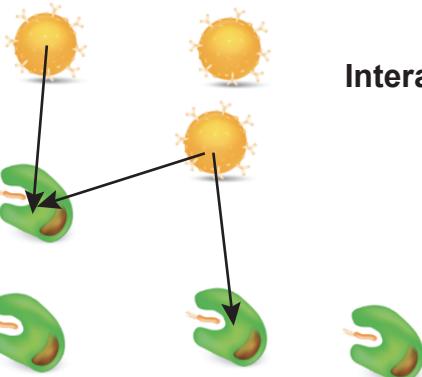
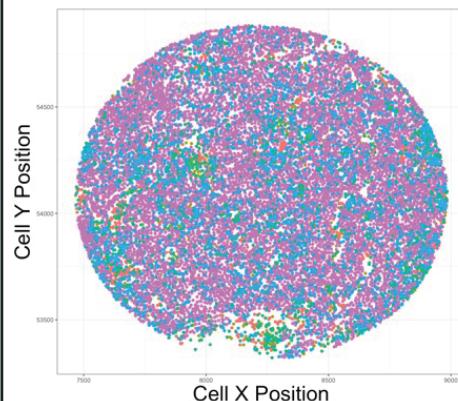
## Cells Segmented and Phenotyped



D

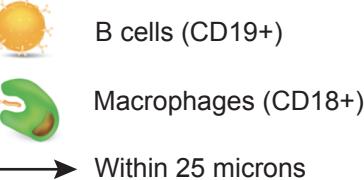


## Cell Coordinates and Phenotypes

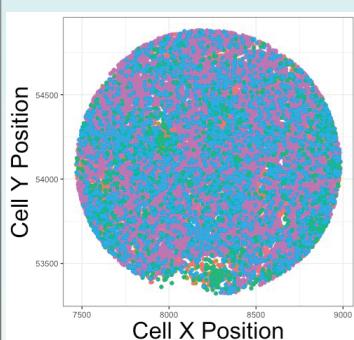


Interaction variable =

$$\frac{2 \text{ Interacting B cells (CD19+)}}{7 \text{ Total Cells of Interest}} \times 100$$

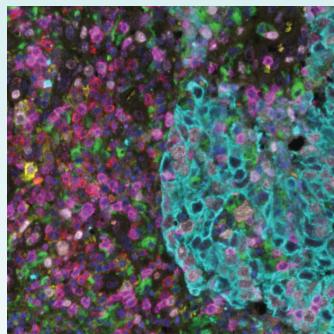


## Immune Cell Spatial Interactions: B Cells and Macrophages, CD4+ T Cells and Macrophages



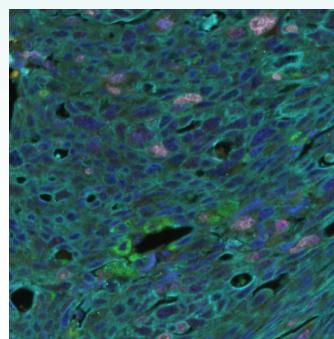
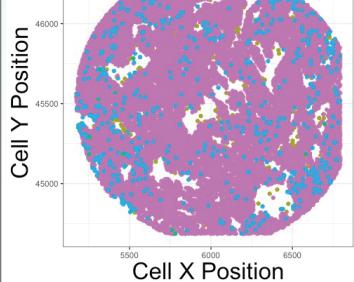
Cell Type

- B Cell
- Macrophage
- T Cell (CD4+)
- T Cell (CD8+)
- Tumor



**High Interaction:**

Associated with higher survival probability



**Low Interaction:**

Associated with lower survival probability