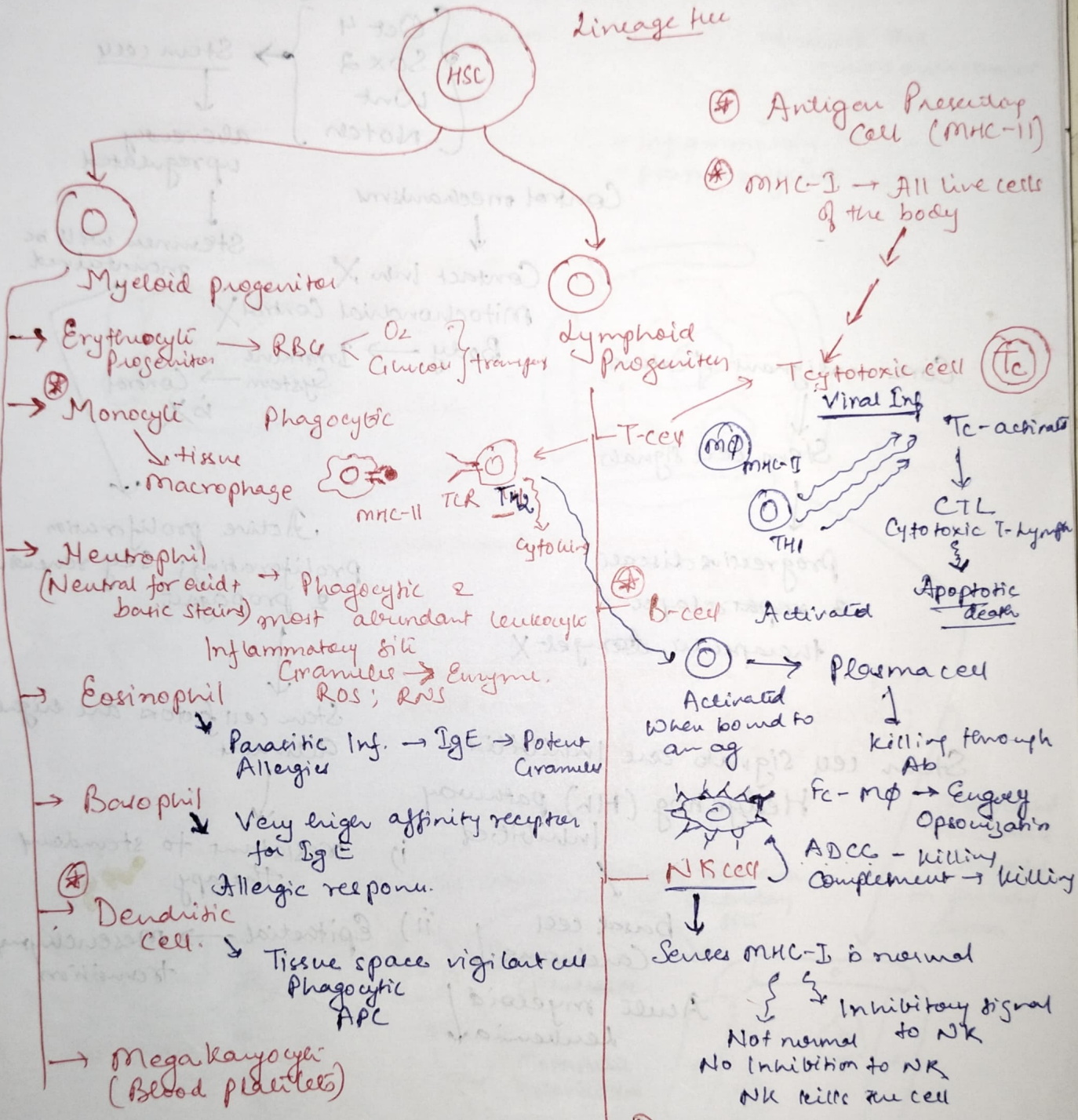
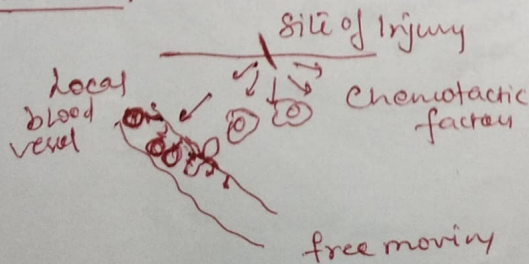


Role of microenvironment in cell fate decision 31/08/22 and Cancer

Immune System plays a major role



Inflammation



Dendritic cell

Cancer/Tumor/viral by Tc & NKs.

- i) Adhere
- ii) Roll
- iii) Trans-endothelial migration
- iv) Site of Injury

Tumor → Localised → metastatic → Cancer

resistant to therapy → Cancer/Tumor

Cell → malignant feature → by acquiring activations of classic Stem cell signals

Oct 4
Sox 2
Wnt
Notch

Stem cell

aberrantly upregulated

Stemness will be maintained

Control mechanisms

Contact Inhi X

Mitochondrial Control X

Body → Immune System → Control is X

Core malignant features

Stem cell signals

Progressive disease & ~~reparative~~

therapeutic target X

Active proliferation
proliferating; self-renewal & propagation

Stem cell factors are highly activated

i) resistant to standard therapy

ii) Epithelial → mesenchymal transition

Stem cell signals are inhibited

Hedgehog (Hh) pathway inhibited

basal cell carcinoma ↓

Acute myeloid leukemia ↓