

Tcell Function

Biology of T cell & TCR

Complete TCR

Allograft Rejection

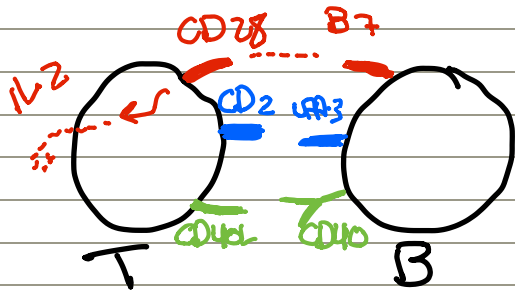
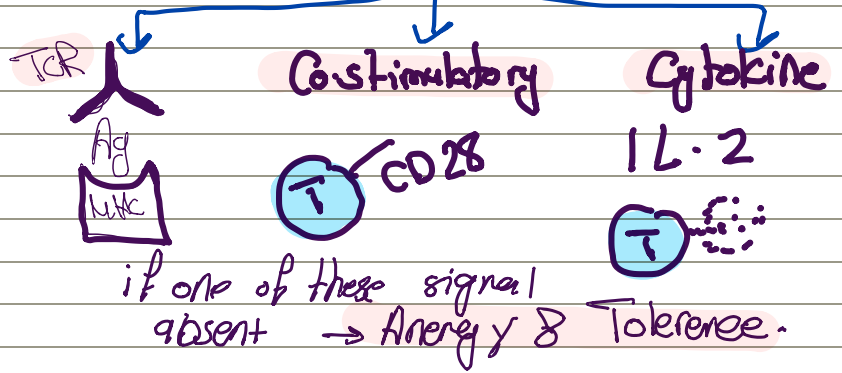
Tumor immun Response

Ig superfamily :-

TCR, BCR, MHC
 CD3, CD4/CD8, Mast Cell Receptor
 CD28, B7 ← Adhesion



Tcell Activation 3 signal



IL-4 (From B, DC)

(IL12/IFN-gamma) From DC

immature DC
 PRR
 low level of MHC
 low adhesion molecules.

mature DC
 migrate to L.N
 lose phago. activity
 ↑ MHC
 ↑ adhesion Molecul
 secrete chemo-factor
 attract naive T cell

viral & Allergen & Bacteria Ag

Thelper 1

- 1) Activate CD8 (Cell Mediated immunity)
- 2) IFN-gamma → Activate Macrophage & NK
- 3) → neutrophil Activation
- 4) → activate B to secrete (opsonization Ab)
 IGG1, IGG3
- IL12 → Proliferate to H1
- IFN-gamma → ↑ H1, ↓ H2, ↓ H17
- high density of ligand strong signal → ↑ IL12, IFN-gamma

Thelper 2

- 2 → B secrete IL4
 → B activation + IL6
 → IgE production
- 2 → IL5 → activate Eo (Worm)
- 2 → IL10 → suppress Macrophage
- 2 → B OR APC Allergen worm
- IL4 → TH2 ✓ x IFN-gamma
- low level / small Ag or toxins or worms
- bind Receptor less tightly (IL4, IL5)

(Th17) → IL17
 Ag: Extracellular Fungi & bacteria
 DC → TGF-beta, IL6

CD8+
 From infected DC, Cancer
 IL12, IFN-gamma