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CD₈ T_c cells CD₄ T₁₁ cells **Presented to** Cytotoxic killing of presenting Secretion of cytokines by CD, T, cell Results cell by CD_g T_c cell \rightarrow help all other imm. cells

Sequence of events of activation of Naive T-cells 🎻

See Papers (page 81, 82)

مراجعة الكلام

N.B

- Effector T-cell differ from naive T-cell in:
 - 1) Ready to start their function
 - 2) Act as soon as their TCRs bind their specific MHC-peptide complex (signal 1) \rightarrow without need for Co-stimulation (signal 2)

Different MHC

MHC

Ag

TCR

T-cell

Recognition







	Ordinary Ag	Super Ag
Processing inside APC	Yes	No
Presentation by MHC	Yes	No
Site of binding to MHC	Peptide binding cleft	Outside peptide binding cleft
Binding to TCR	Variable part of α and β -chains	Variable part of β -chains \rightarrow Clamp bet TCR and variable part of β -chains
Specificity of TCR to it	Very specific	Not very specific \rightarrow Large number of T _H of activated \rightarrow release of huge amounts of o
Acquired IR	++	
Development of memory	Yes	No
Result of T-cell stimulation	Beneficial to host	Harmful to host (systemic toxicity
E.g.		1- Staphylococcal enterotoxin 2- Staphyloco

Effector T_c Cells

• Eliminate virus infected cells or tumor cells by lethal hit

Osmotic lysis 2

• Pores produced in target cells by perforins \rightarrow fluid entry into the cell \rightarrow Death by osmotic lysis

