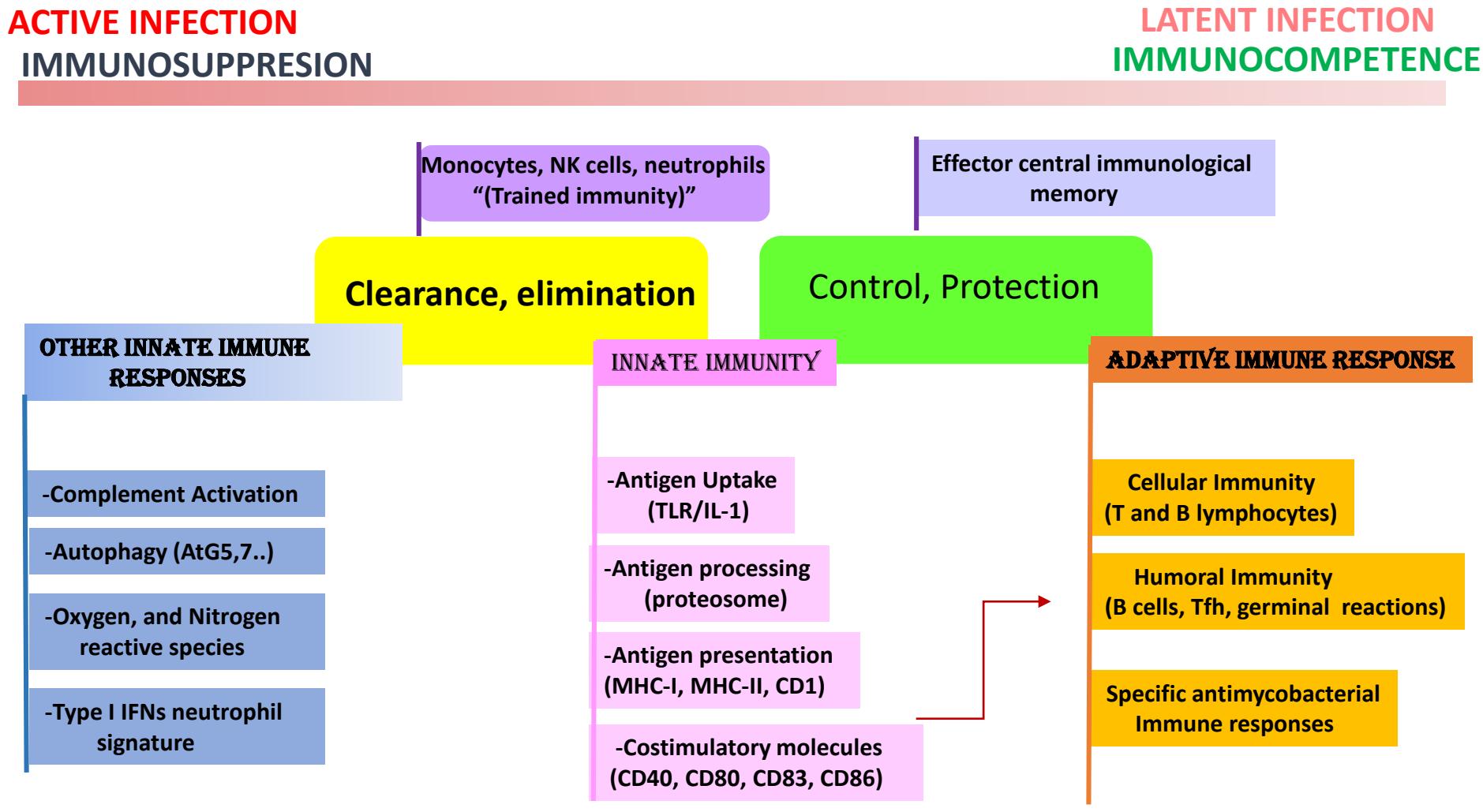


Figure 1A



HOST IMMUNE SYSTEM DEFENCE MECHANISM

Figure 1B

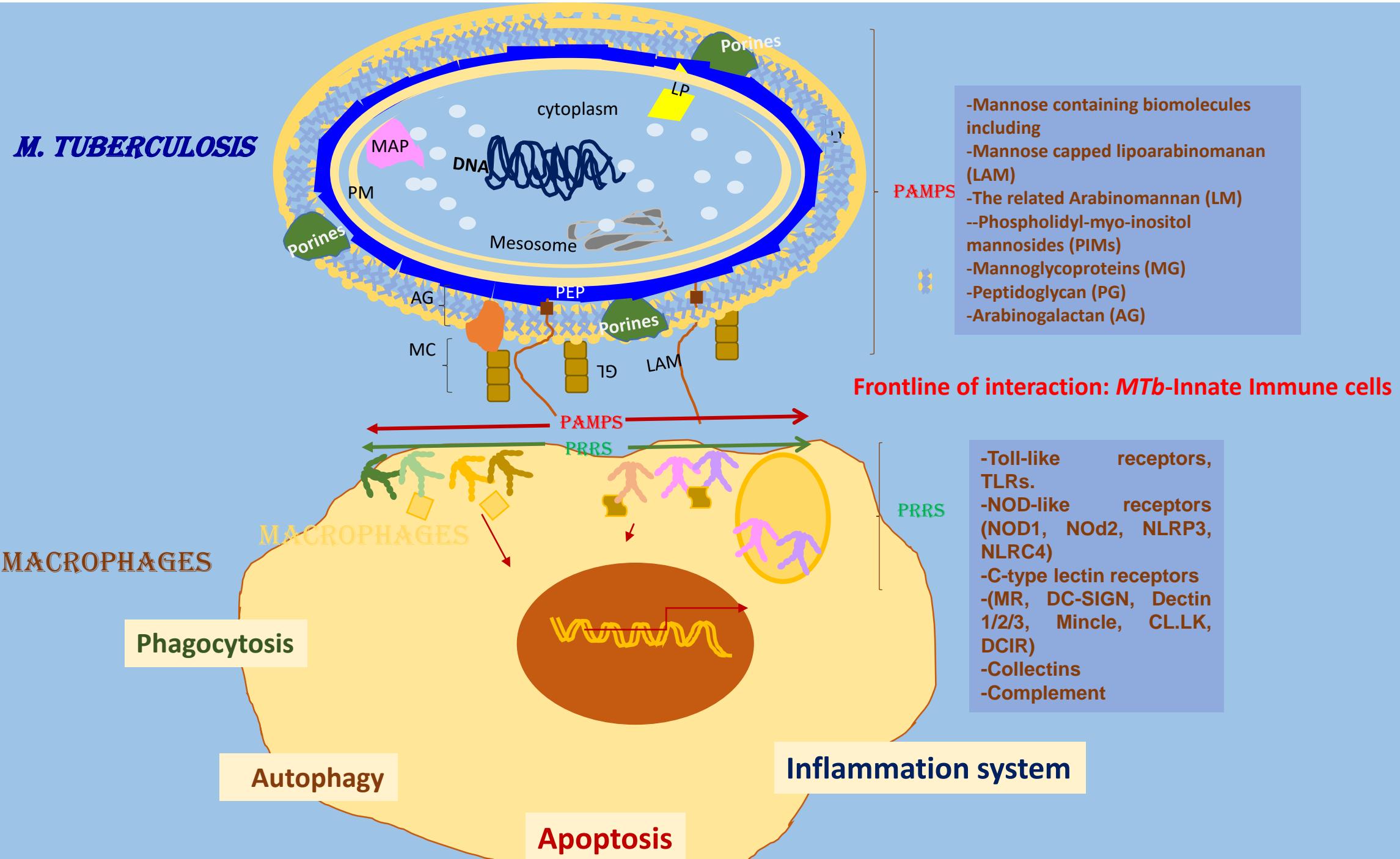


Figure 2A

Innate Immunity

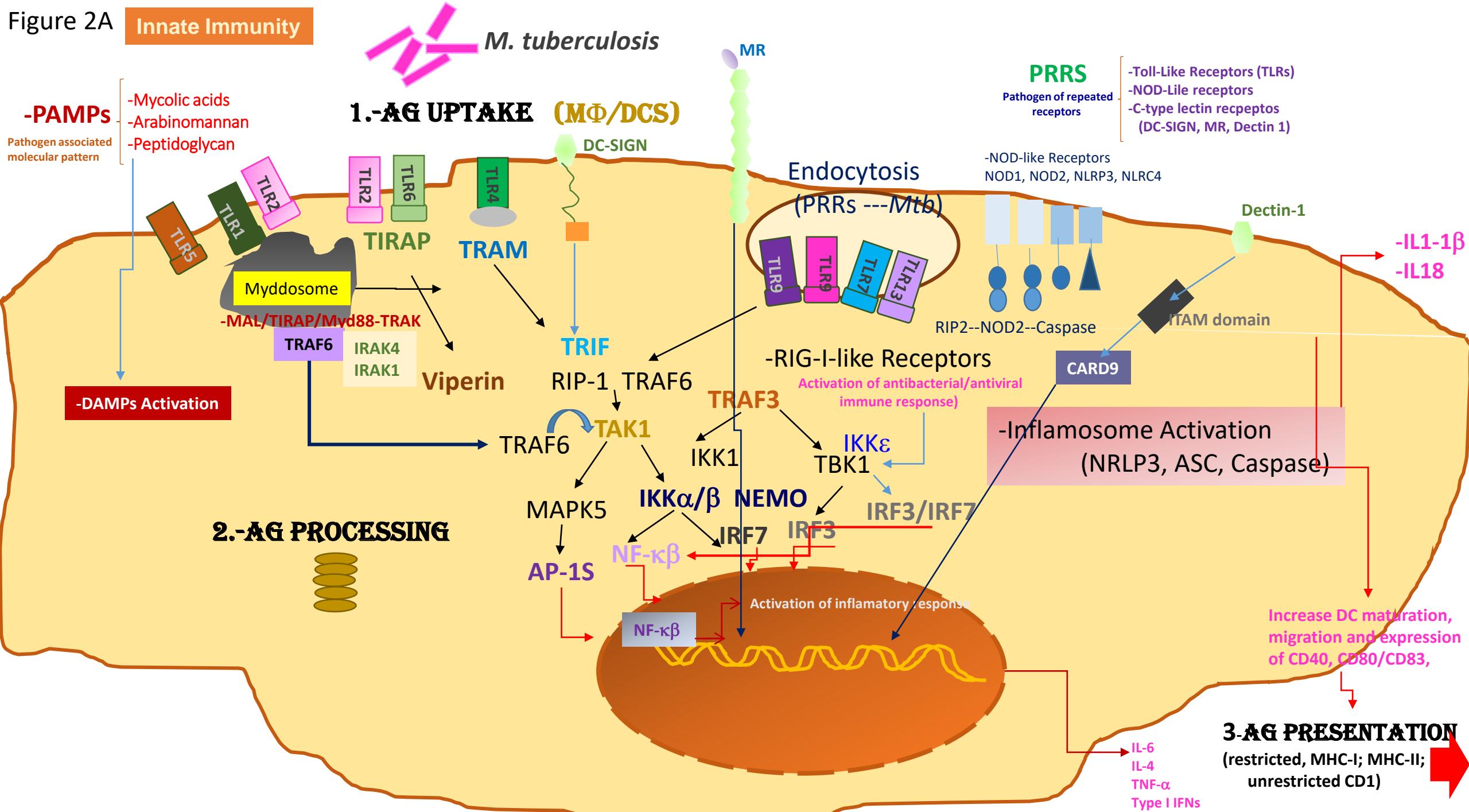


Figure 2B
2.

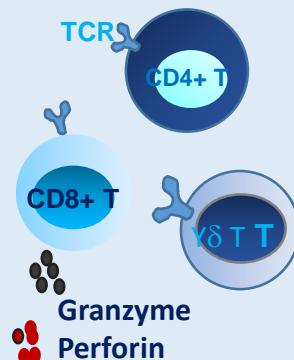
Adaptive Immunity

Cellular Immunity

-T cell activation

CD4+; CD8+; Y δ T cells

-T cell differentiation



- IFN- γ
- IL-12
- IL-4
- IL-10
- TGF- β
- IL-17

Th subsets
Th1
Th2
Th3
Th17
Tfh

Humoral Immunity

-B cell activation

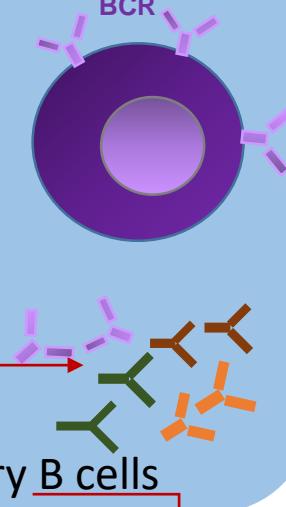
B lymphocytes

- Plasma cell differentiation (antibody production)

Germinal reactions
Ig class switching, somatic hypermutation

- High affinity plasma blasts

- Long-lived protective memory B cells



Production of high Abs

IgG, IgA
IgG1; IgG2a, IgG3)

with diverse effector functions

In pulmonary tuberculosis. TH17-IL17
migration of homing cells

IMMUNOLOGICAL MEMORY

- EFFECTOR MEMORY T CELLS
- CENTRAL MEMORY T CELLS
- MEMORY RESIDENT T CELLS

Adaptive Immunity

Figure 3

