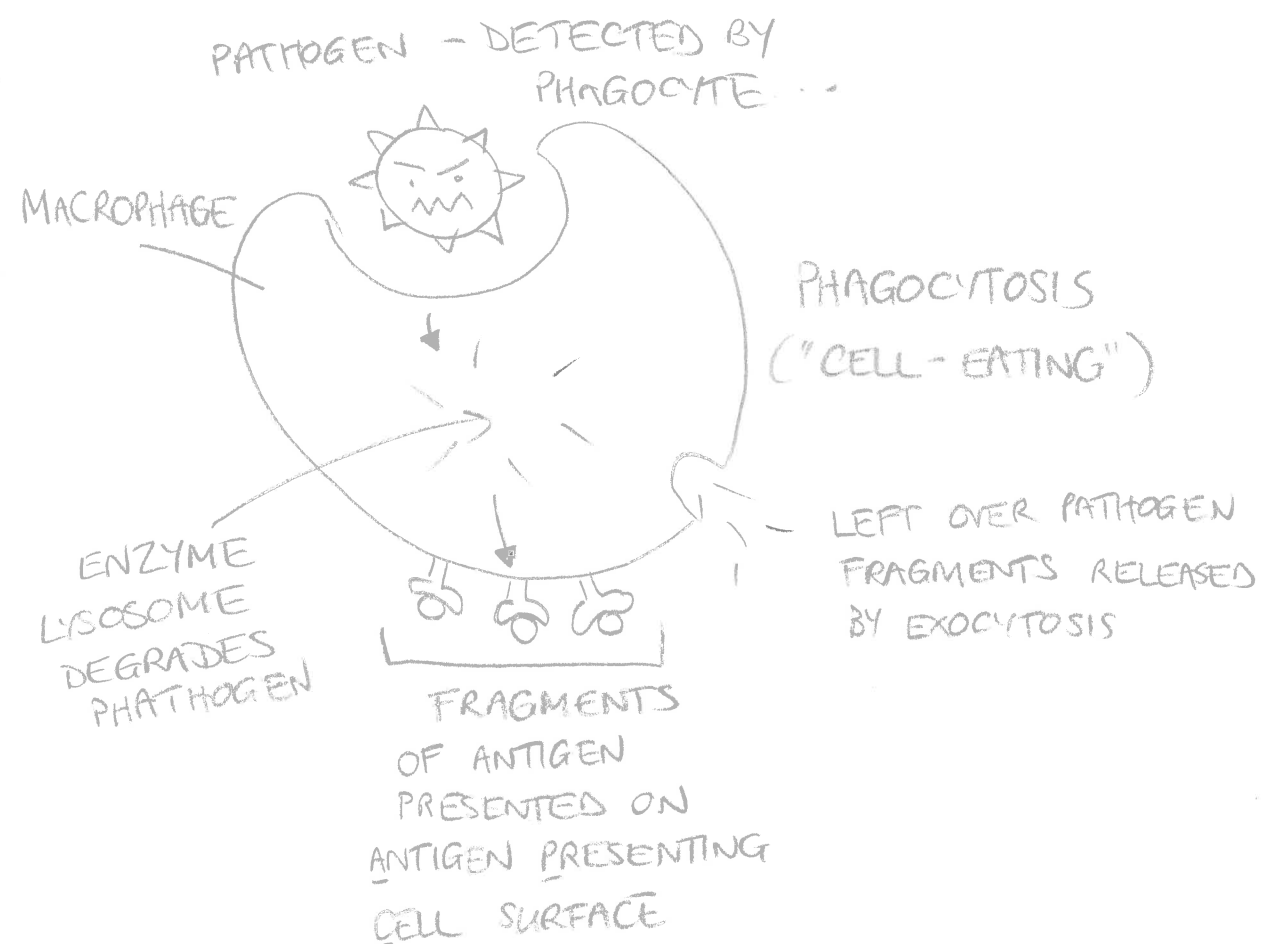


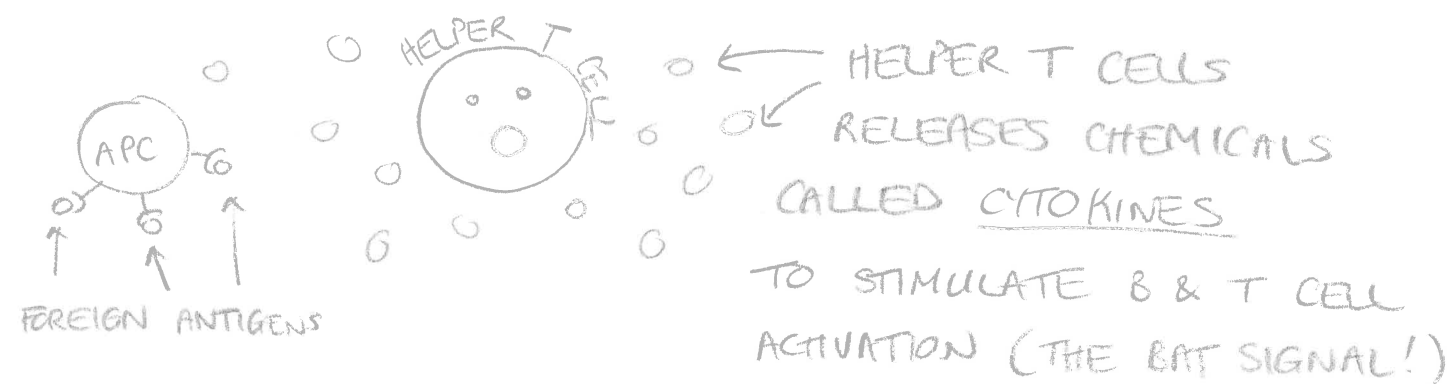
IMMUNITY PART 2

①



② APC → LYMPHOID TISSUE

ONCE IN LYMPHOID TISSUE, HELPER T CELLS ARE STIMULATED IN RESPONSE TO FOREIGN ANTIGENS



③ CYTOKINES STIMULATE THE ACTIVATION OF:

B CELLS

↓ CREATION
MANUFACTURE OF SPECIFIC ANTIBODIES TO MATCH SHAPE OF ANTIGEN

↓ CLONE & MITOSIS

B CELLS PRODUCE

1. ANTIBODIES (SPECIFIC!)
2. PLASMA CELLS - INSTRUCTIONS ON HOW TO PRODUCE THIS ANTIBODY
3. MEMORY CELLS (IMMUNOLOGICAL MEMORY OF ANTIGEN TO PRODUCE SPECIFIC ANTIBODY)



ANTIBODY-ANTIGEN COMPLEX
↳ INACTIVATION OF PATHOGEN

4 WAYS: NEUTRALISATION
AGGLUTINATION
ANTIBODY BINDING
LYSIS

CYTOTOXIC T CELLS

↓ CLONES ITSELF

Tc CELLS BIND TO ANTIGENS ON INFECTED CELLS

↓ RELEASE...

PERFORINS - 'PUNCH' HOLES IN CELL MEMBRANE (PERFORATION)

LYMPHOTOXINS - ACTIVATES CELL'S OWN SELF DESTRUCT MECHANISM

↓ KILLER T CELLS

* MEMORY CELLS

- STORED IN LYMPHATIC TISSUE
- CAN DIVIDE RAPIDLY FOR RAPID SECONDARY RESPONSE

* CHEMICALS TO ATTRACT MACROPHAGES TO ENGULF & DESTROY CELL CONTAINING PATHOGEN.