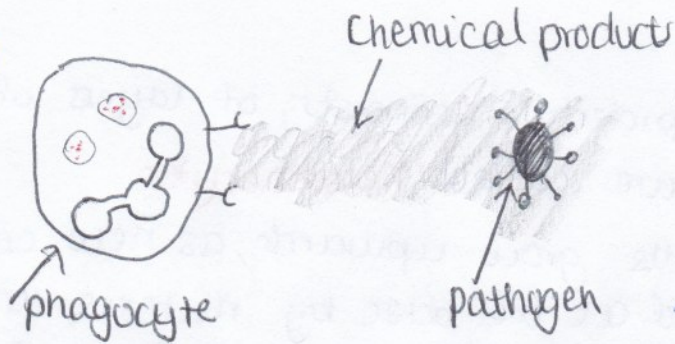


⑤ Phagocytosis

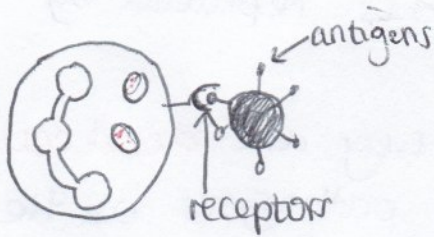
This is a **secondary defence** mechanism, as the pathogen is already in the body.

①



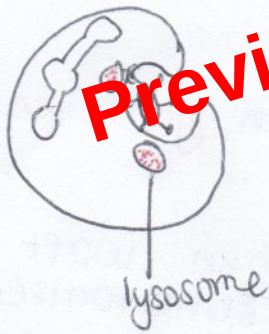
- The phagocyte is attracted to pathogen by chemical products of pathogen
- moves down a concentration gradient

②



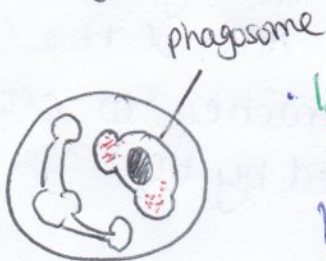
- phagocyte attaches to chemicals on pathogen's surface
- receptors on the phagocyte's cell surface membrane attach to these chemicals

③



- phagocyte surrounds and engulfs pathogen in a **phagosome**
- lysosomes migrate towards engulfed bacteria

④



- **lysosomes** (enzymes) are released from lysosomes, which digest bacteria by hydrolysis of their cell wall

⑤



- soluble, harmless products are reabsorbed into the cytoplasm.

⑥



- The phagocyte may present some of the viral proteins on its csm, which are **antigens**, so it becomes an **Antigen Presenting Cell (APC)**