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... with protein causing it to **change**
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Mitosis

- Mitosis is division of a cell that results in **two daughter cells** with an exact copy of the DNA of the parent cell
- Except in a mutation, the genetic make-up of the daughter nuclei is identical to the parent nucleus
- Mitosis is preceded by a period where the cell is not dividing called the **"interphase"**
 - period of considerable cellular activity that includes the **replication of DNA and organelles**
 - the two copies of DNA after replication are joined at a place called the **centromere**



Cell recognition and the immune system

- **Defence mechanisms**
- **Non-specific:**
 - **skin** - layer of dead cells acts as a barrier to microorganisms
 - **tears** - occur in sebium
 - **concentrated bacteria**
 - **saliva** contains lysozymes - digest bacterial cell walls
 - **stomach** kills pathogens
 - **lysosomes** work in stomach
 - **gastric mucus** prevents entry of microorganisms
- **Specific:**
 - Cell mediated responses involving T lymphocytes
 - Humoral responses involving B lymphocytes

Prophase

- The chromosomes first become visible as long thin threads, which later shorten and thicken
- Animal cells contain two cylindrical organelles called **centrioles**, which move to opposite poles of the cell
 - **spindle fibres** develop from each of the centrioles
 - collectively the spindle fibres are called the **spindle apparatus**

Metaphase

- The chromosomes are seen to be made up of **two chromatids**
 - each chromatid is an identical copy of DNA from parent cell
- Chromatids are joined by the **centromere**
- Some microtubules from the poles are attached to the centromere and the chromosomes are pulled along the spindle apparatus and arrange themselves across the **equator** of the cell

Anaphase

- **Centromeres divide** into two and spindle fibres pull the chromatids apart
- Chromatids move to their opposite poles of the cell and now they are called chromosomes
- The energy for the process is provided by mitochondria which gather around the spindle fibres
- If cells are treated with chemicals that destroy the spindle, chromosomes remain at the equator, unable to poles

Telophase and cytokinesis

- Chromosomes reach their respective poles and become thinner, finally disappearing altogether, leaving only **two**
- Spindle fibres disintegrate and the **nuclear envelope**

The immune system

- **Antigens** are molecules (proteins) that can generate an immune response when detected by the body
 - found on **surface of cells**
 - used to identify pathogens, abnormal body cells, tumours and other individuals of the same species

Stages in the immune response

- A **phagocyte** is a type of **white blood cell** which comes out phagocytosis
- **Chemotaxis**
 - phagocyte recognises the foreign antigens on a **pathogen** and moves towards it by **chemotaxis**
 - cytoplasm of phagocyte moves around the pathogen, **engulfing** it
 - pathogen is now contained in a **phagosome** in the cytoplasm
 - lysosomes fuse with the **phagosome**
 - soluble substances diffuse into the phagosome
 - **enzymes** of **white blood cells**
 - the phagocyte then presents the pathogen antigens - it **presents antigens on its surface** to activate other immune system cells



- **Phagocytes activate T cells**
 - a T lymphocyte is a white blood cell
 - it has receptor proteins on its surface that bind to complementary antigens presented by phagocytes
 - this activates the T cell (e.g. **helper T cells**) which release chemical signals that stimulate phagocytes and **cytotoxic T cells** which kill abnormal cells by producing the protein perforin which makes holes in the CM
- **Antibodies activate B cells which divide into plasma cells**
 - B cells are covered with antibodies that bind antigens to form an antigen antibody complex
 - B cell antibodies bind to complementary antigens
 - this activates the B cell in a process called **clonal selection**



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