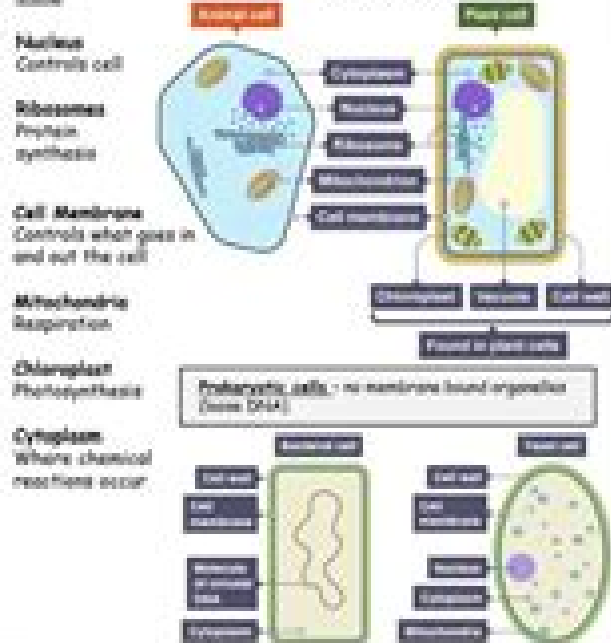


Background:



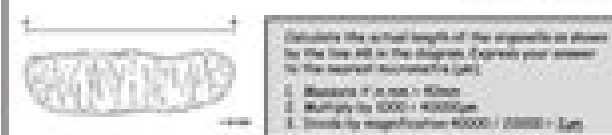
Abstract

Fraction of a metre	Unit	Symbol
One thousandth = $0.001 = 1/1000 = 10^{-3}$	millimetre	mm
One millionth = $0.000001 = 1/1000000 = 10^{-6}$	micrometre	μm
One thousandth of a millimetre = $0.000000001 = 1/1000000000 = 10^{-9}$	nanometre	nm

¹ The authors thank the referees for their helpful comments.

1. Measure the original with a ruler.
2. Multiply that by 1000 to get a value in micrometers.
3. Divide that by the magnification.

13. The diagram below is a drawing of an organic molecule. Identify the molecule and name the functional group.



Magnification is the number of times larger an image is compared with the real size of the object.

Resolution is the ability to distinguish between 2 separate points

Chromatograms

Humans have **23 pairs** of chromosomes (46 in total) in all adult cells.

Chromosomes 23 = sex chromosomes (XY = male XX = female)

Karyotype = visual appearance of our chromosomes



What are the differences?

1. 47 instead of 46
2. Extra chromosome 21 (called Trisomy-21 (Down's Syndrome))
3. Normally 21 should be 2 chromosomes

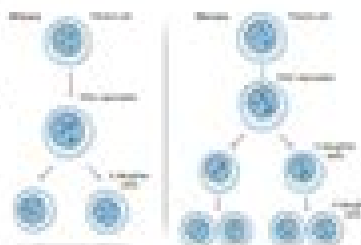
Roosteria multise by binary division

growth is exponential i.e. $1 \rightarrow 2 \rightarrow 4 \rightarrow 8 \rightarrow 16 \rightarrow 32 \rightarrow 64$

Mitosis and Meiosis = cell division

Abstracts (See Document)

- Copy all over the body
- Make new cells with 23 pairs of chromosomes
- Cells divide once
- Make new body cells



Unternehmenskultur **Einzelne** **Organisationen**

- Prophase** = chromosomes condense
- Metaphase** = chromosomes line up in the middle
- Anaphase** = chromosomes pulled apart by opposite forces
- Telophase** = 2 new nuclei form

Stem Cells - These are undifferentiated cells.

- **Endocrine** = can make any type of cell
- **Tissue-specific** = can only make cells from specific parts of the body

Abstract

- Occurs in testes and ovaries
- Makes cells with 23 chromosomes
- Cells divide twice
- Makes gametes (sperm and egg)

1000

- Heart transplant
- Organ transplant
- Blood transfusion

100

- **Physical contact with children**
- **Unlawful sexual contact**

Specialized Cells - Cells that have differentiated

Neurone		• Long and thin, • Have a myelin sheath to prevent loss of impulses, • Form connections with other neurones, • Can carry electrical impulses in one direction.
Sperm		• Contain digestive enzymes for breaking down the outer layer of an egg cell, • Many mitochondria, • Have long tail.
Red Blood		• Large surface area, • Small diameter, • No nucleus, • Contain haemoglobin,
Root Hair		• Found close to xylem, • Thin membrane, • Large surface area
Cone Cells		• Outer segment filled with visual pigment that changes chemically in coloured light, • Lots of mitochondria so that you constantly use in colour, • Specialised synapse connecting to the optic nerve.

Diff Functions

Movement of particles from a high concentration to a low concentration (down a concentration gradient)

To increase rate of diffusion

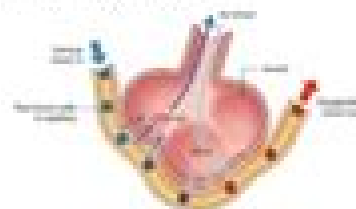
- Increase temperature
- Increase surface area
- Increase concentration gradient
- Shorten distance

Large organisms have a small **surface area:volume** so require specialised exchange surfaces with large surface area so diffusion is fast enough.

Small Intestine: Villi increase surface area
Blood flow maintains conc. Gradient
Thin wall 1 cell thick

Lungs:
Alveoli increase
surface area

Blood flow and
thin walls like
the villi



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