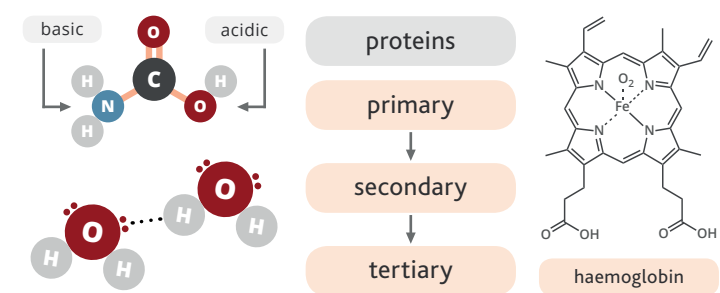
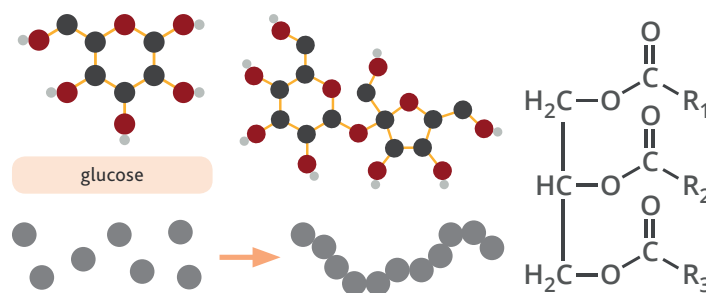


# 1

# Biological molecules



## 2.3 Proteins and water

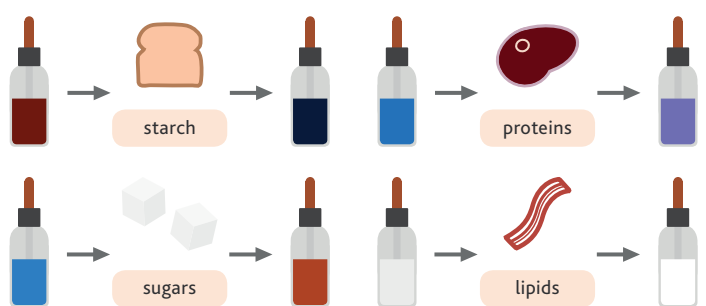


## 2.2 Carbohydrates and lipids

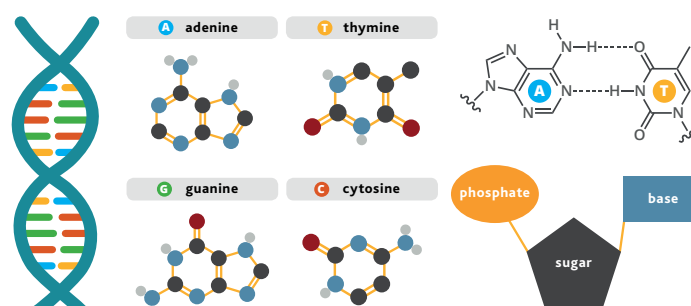


### Testing for biological molecules

### Proteins and DNA



## 2.1 Testing for biological molecules



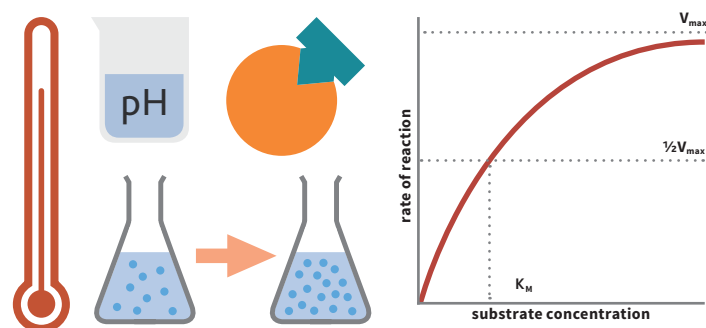
## 6.1 Structure and replication of DNA



### Action of enzymes



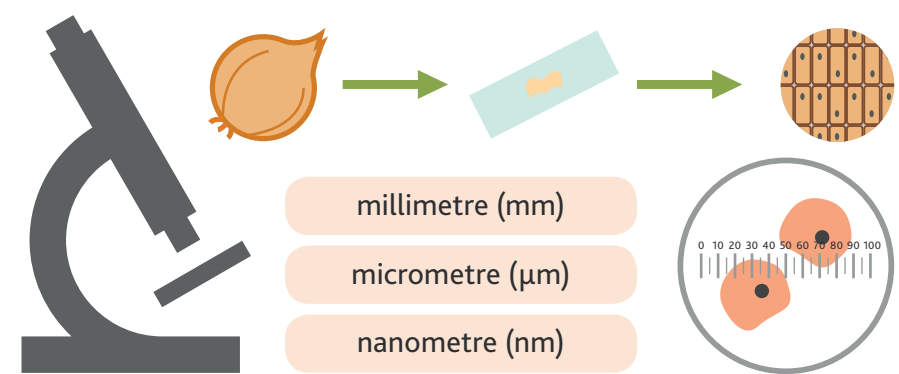
## 3.1 Mode of action of enzymes



## 3.2 Factors that affect enzyme action



# 2 Cells as the basic units of life

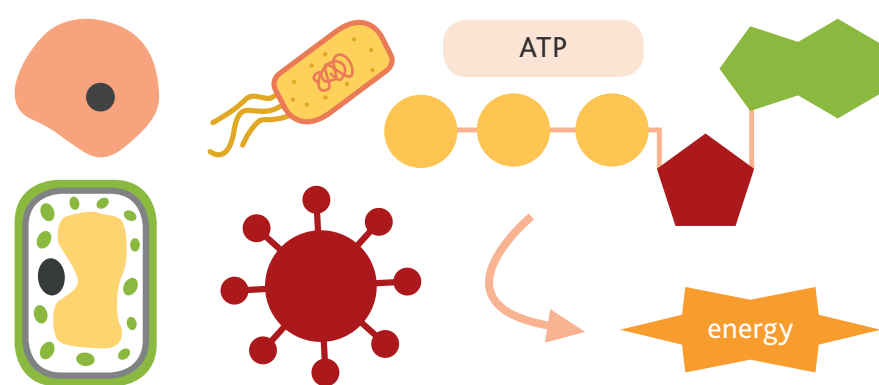


## 1.1 The microscope in cell studies



Viewing cells

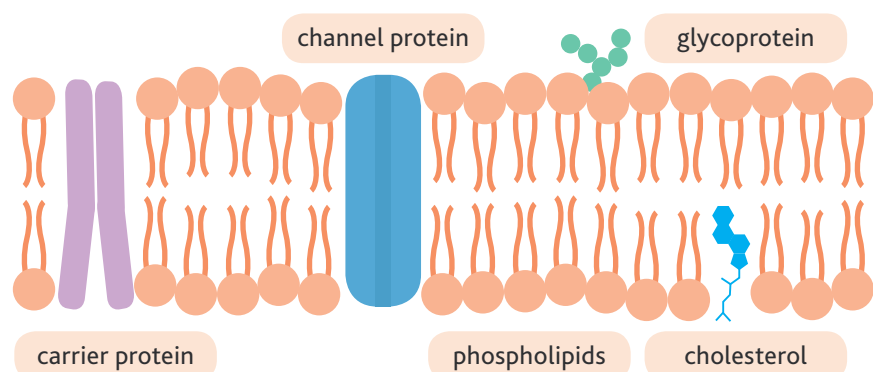
Viewing cells



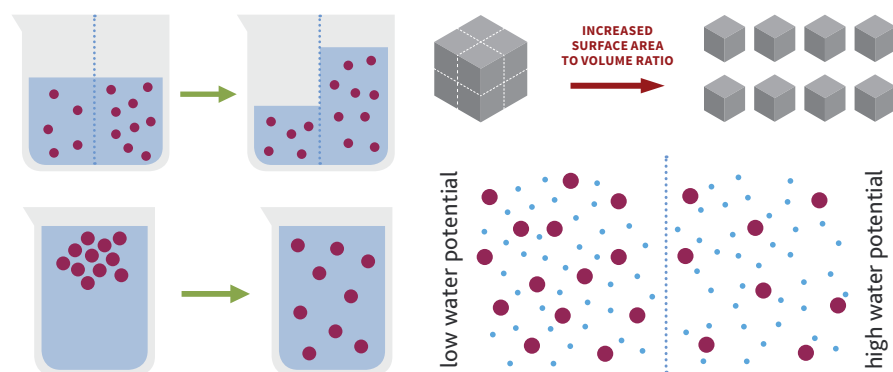
## 1.2 Cells as the basic units of living organisms



Cell membranes



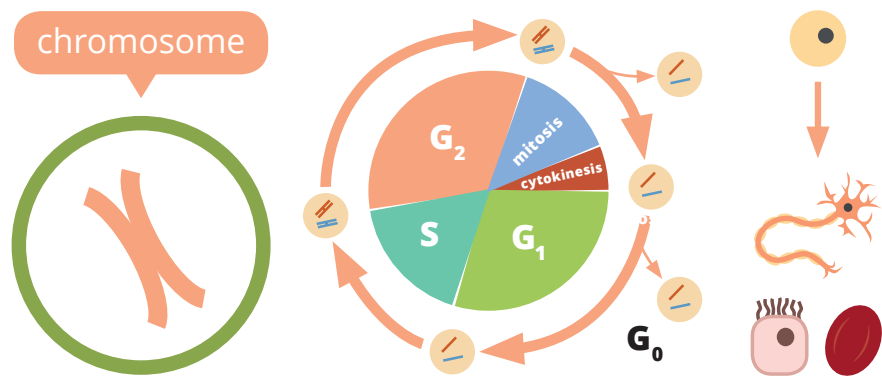
## 4.1 Fluid mosaic membranes



## 4.2 Movement of substances into and out of cells



# 3 DNA and the mitotic cell cycle

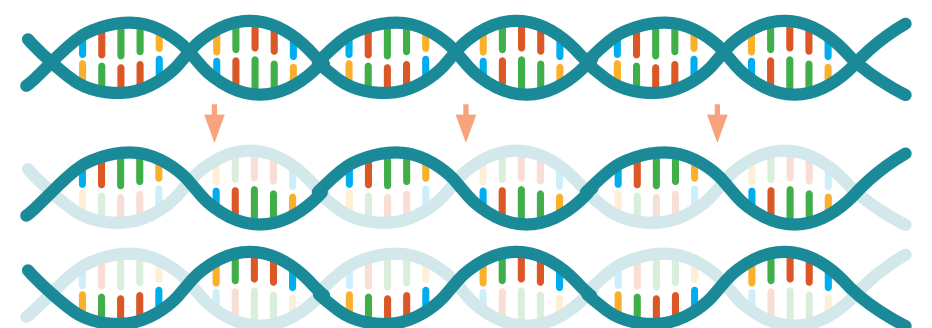


## 5.1 Replication and division of nuclei and cells



DNA replication

Cell division

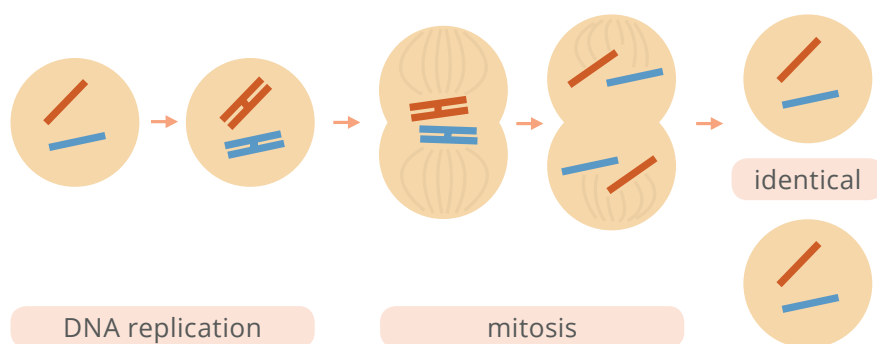


## 6.1 Structure and replication of DNA



DNA replication

DNA

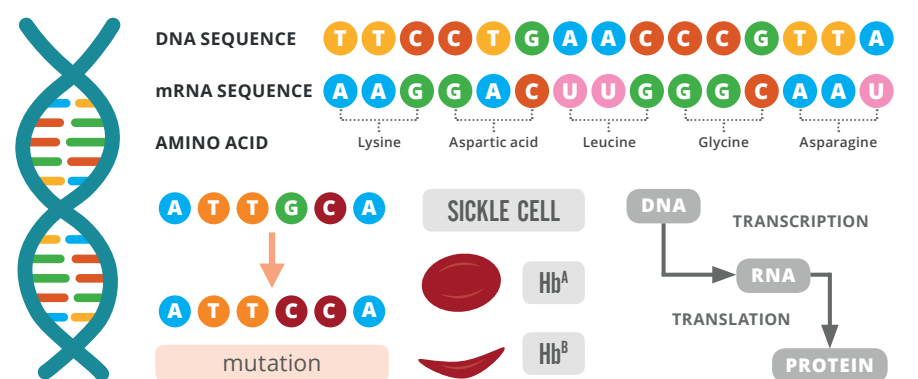


identical

DNA replication

mitosis

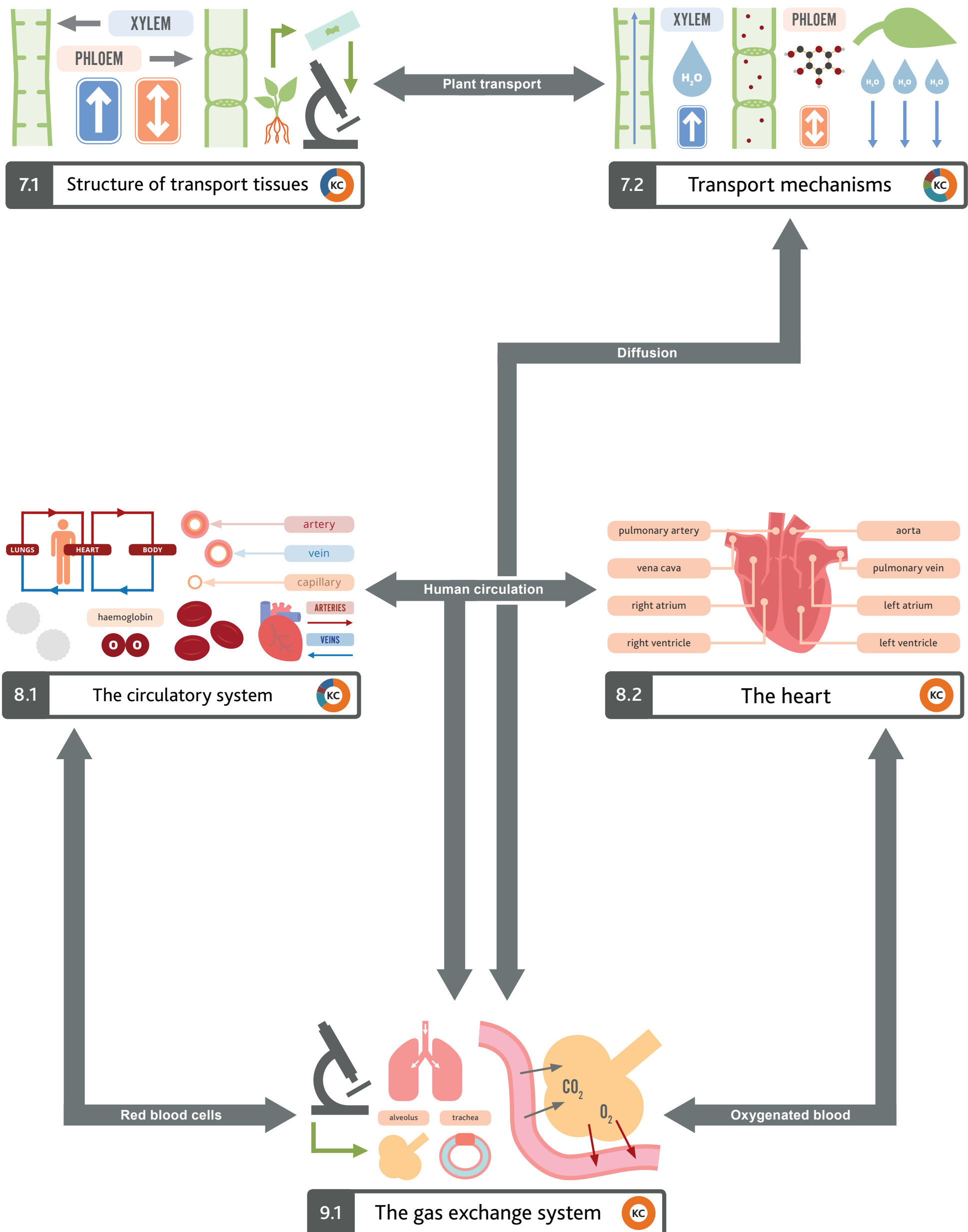
## 5.2 Chromosome behaviour in mitosis



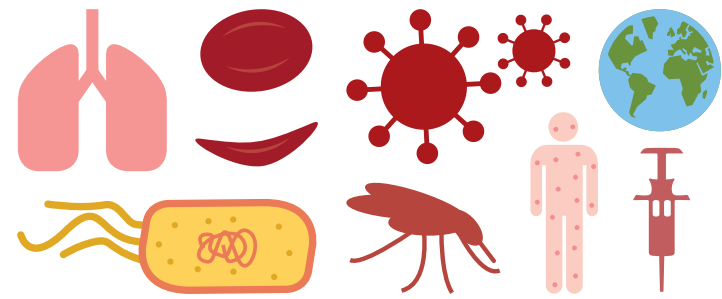
## 6.2 Protein synthesis



# 4 Transport and gas exchange

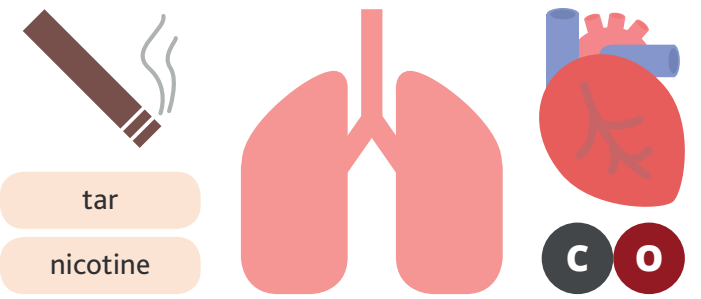


# 5 Disease and protection against disease



10.1

Infectious diseases



tar

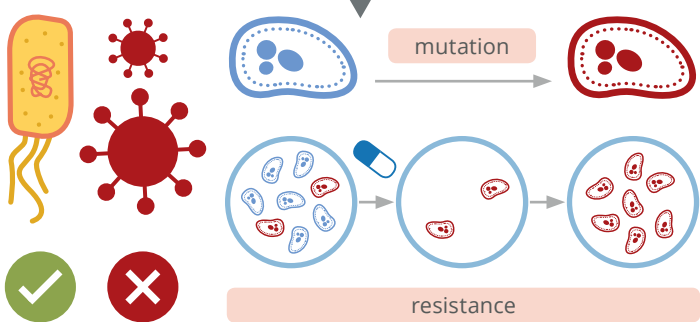
nicotine

9.2

Smoking

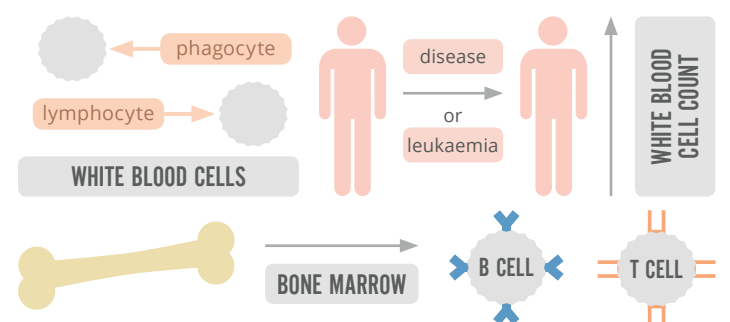


Fighting infections



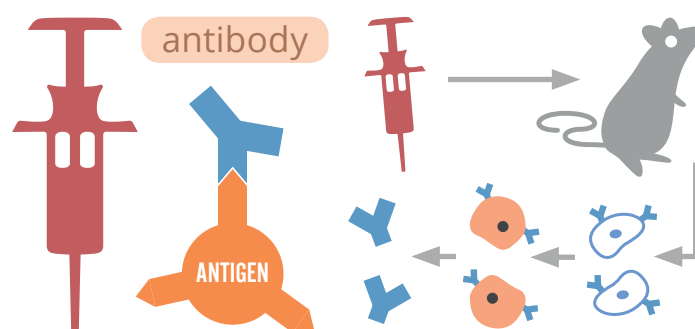
10.2

Antibiotics



11.1

The immune system



11.2

Antibodies and vaccination

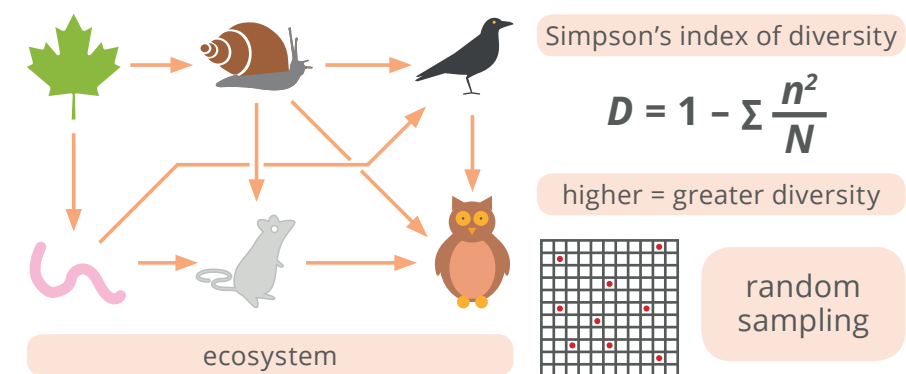


Antibodies and antigens



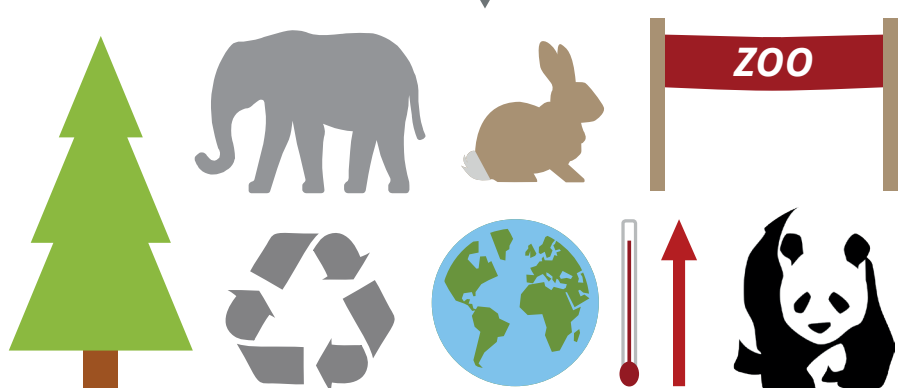
# 6

# The diversity of life



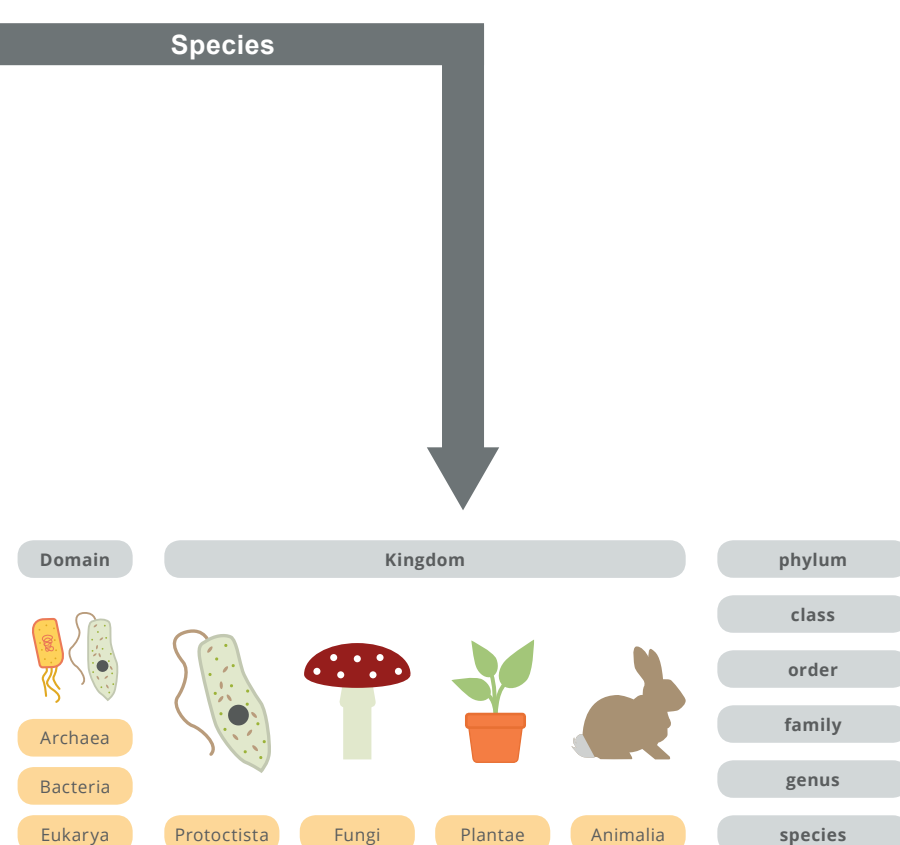
## 18.1 Biodiversity

Ecosystems and habitats



## 18.3 Conservation

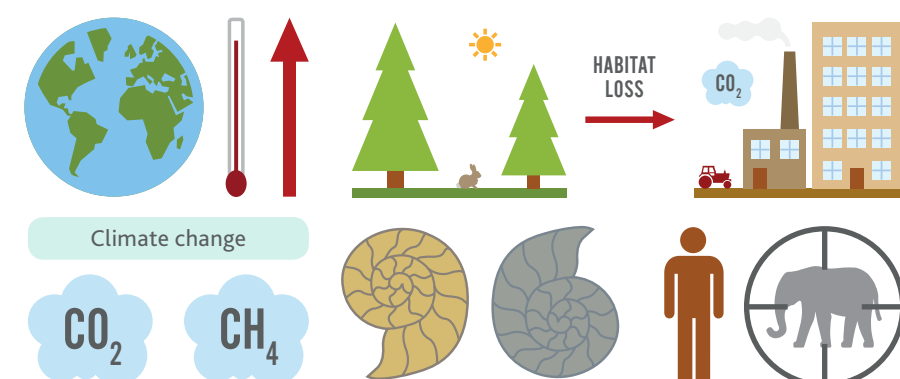
Habitat changes



## 18.2 Classification

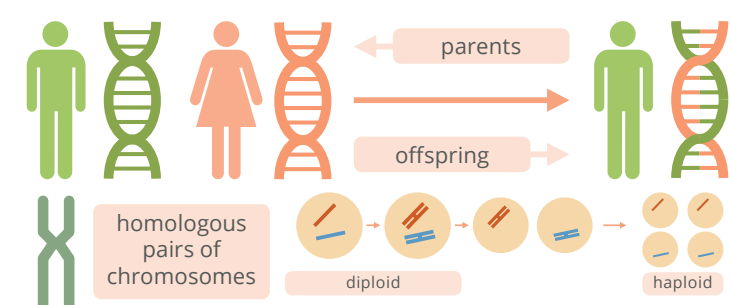
Species

Related species



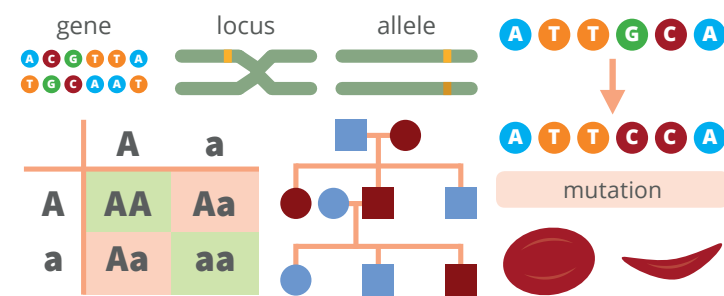
## 17.3 Evolution

# 7 Genetics, population genetics and evolutionary processes



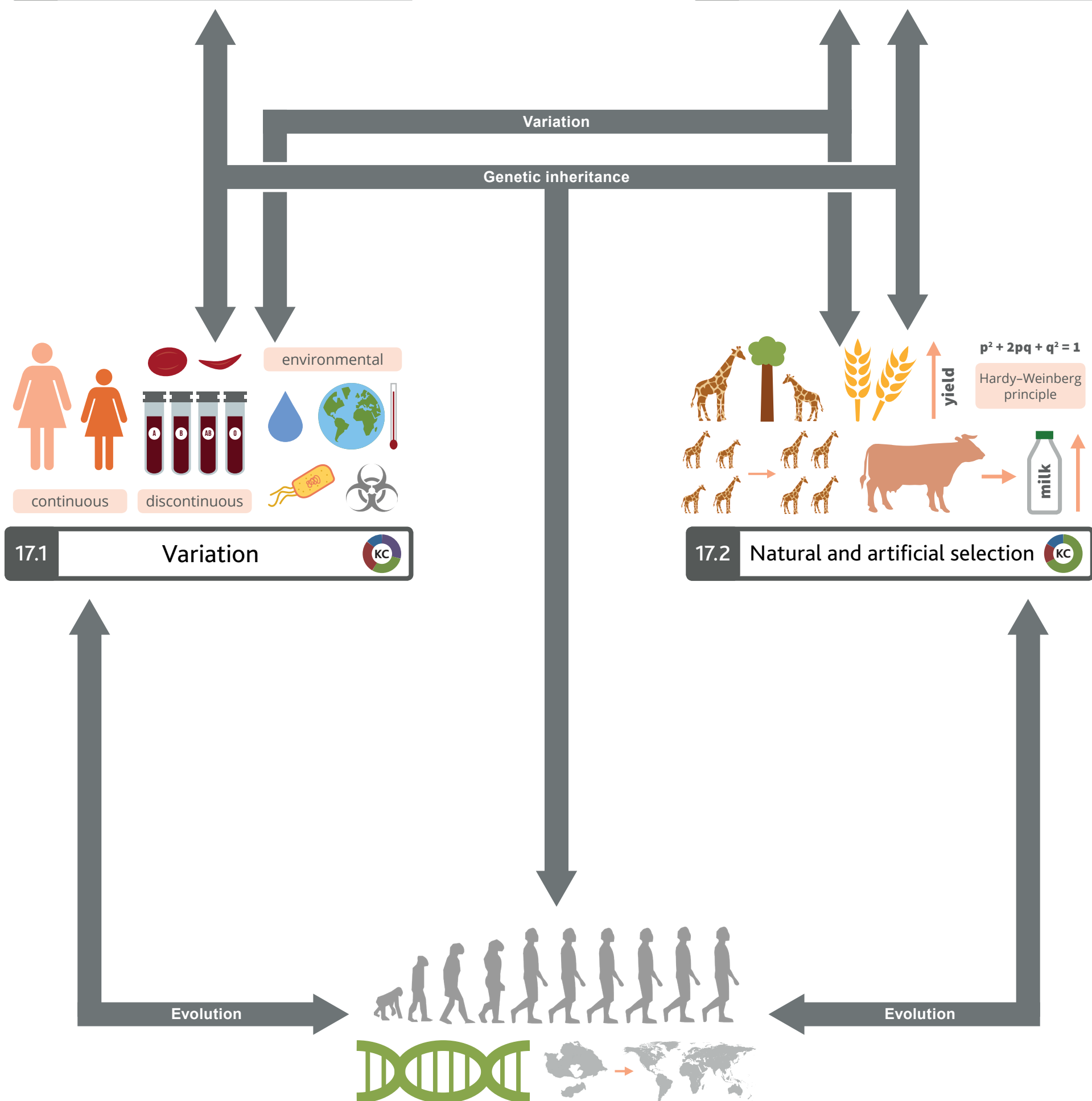
16.1

Passage of information from parent to offspring



16.2

The role of genes in determining the phenotype



17.1

Variation



17.2

Natural and artificial selection

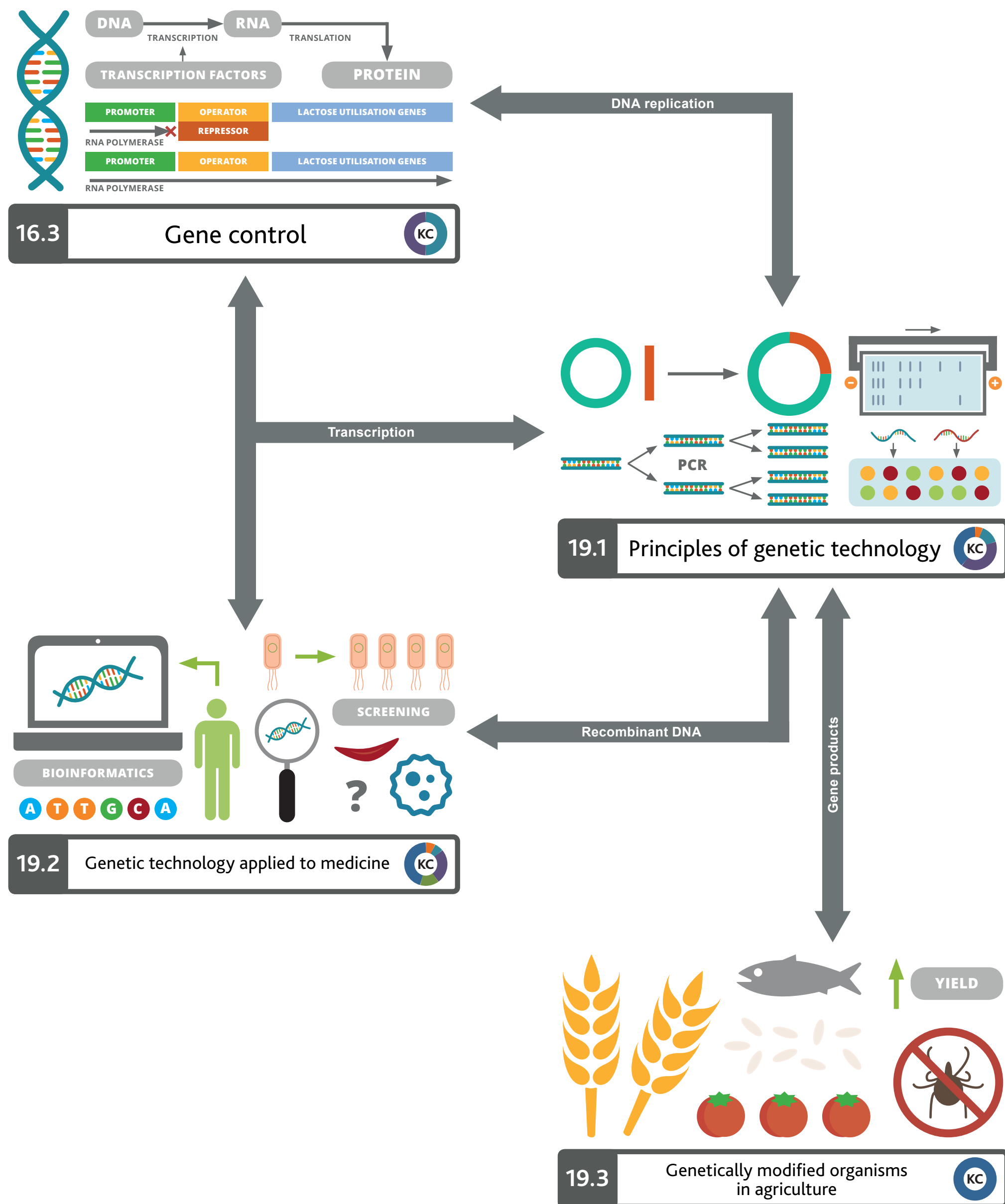


17.3

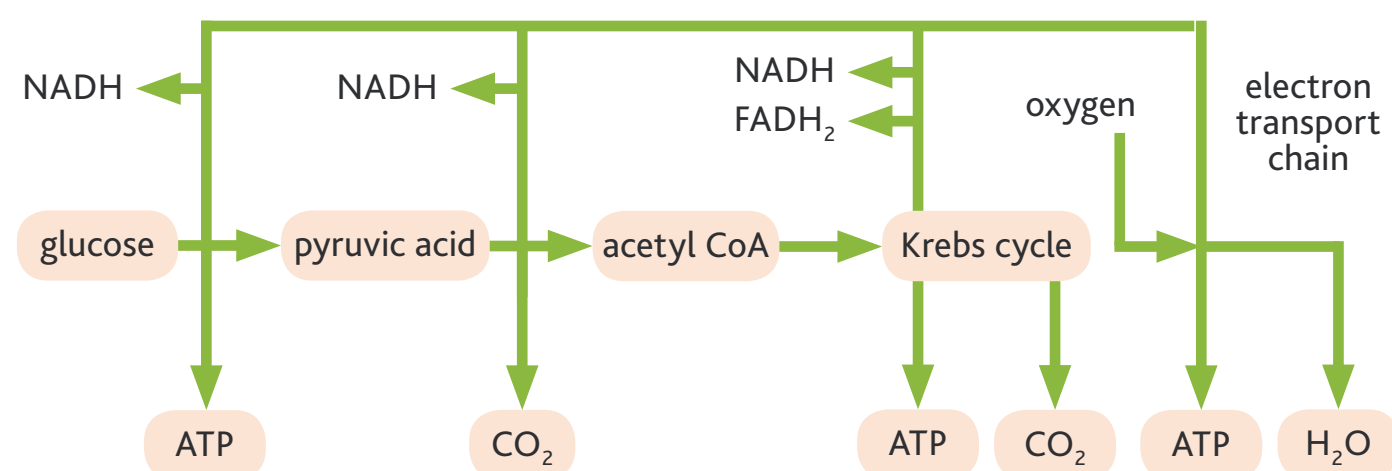
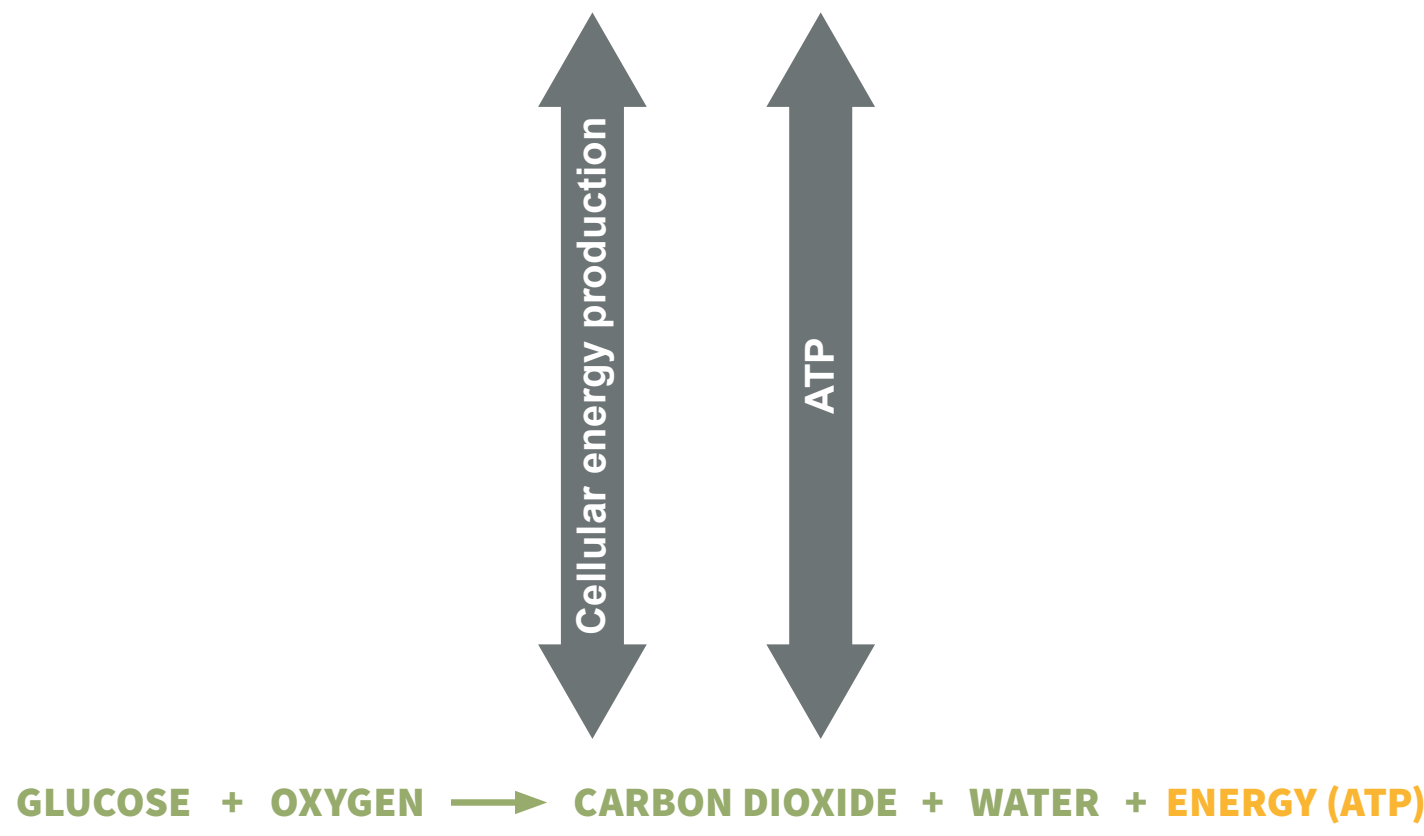
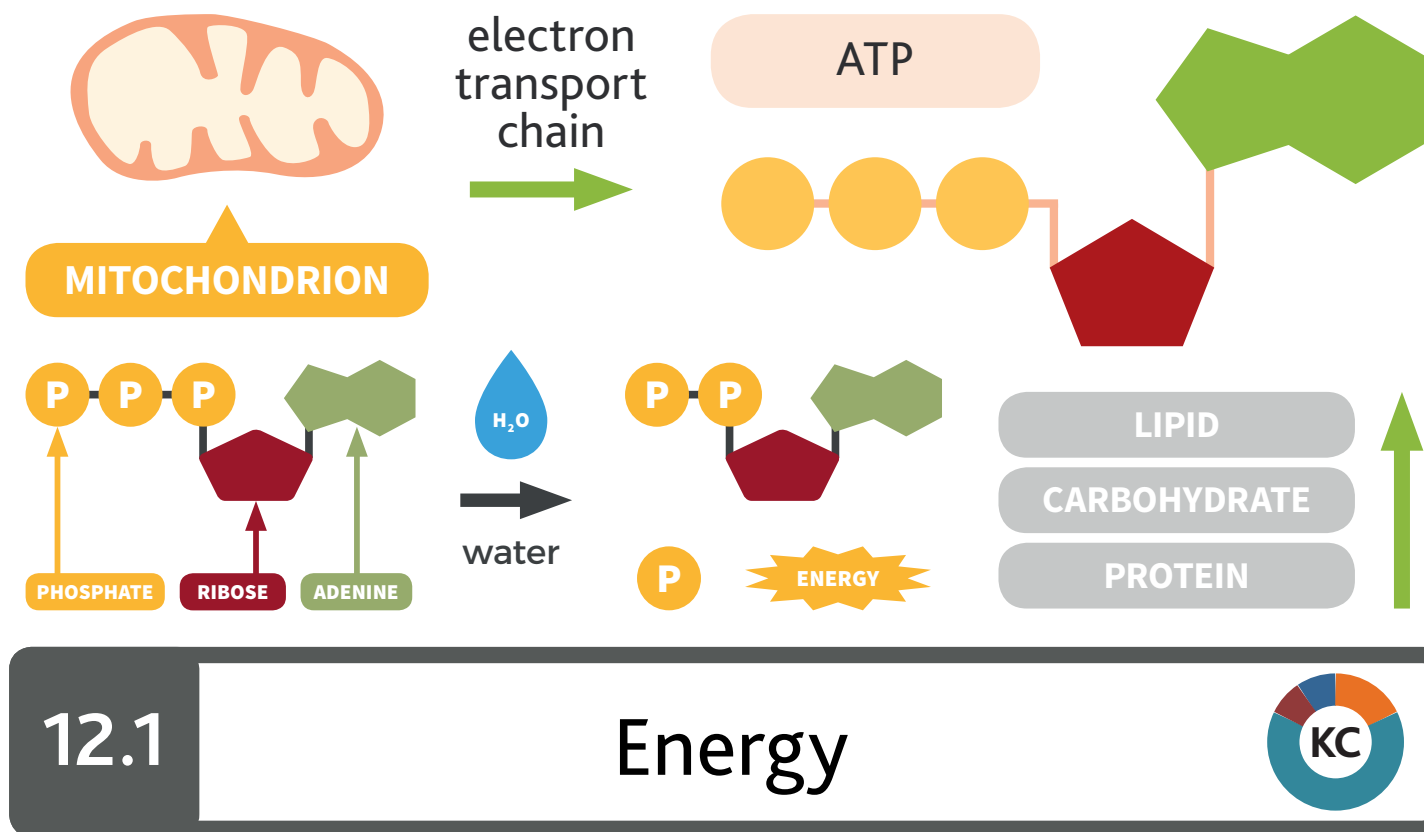
Evolution

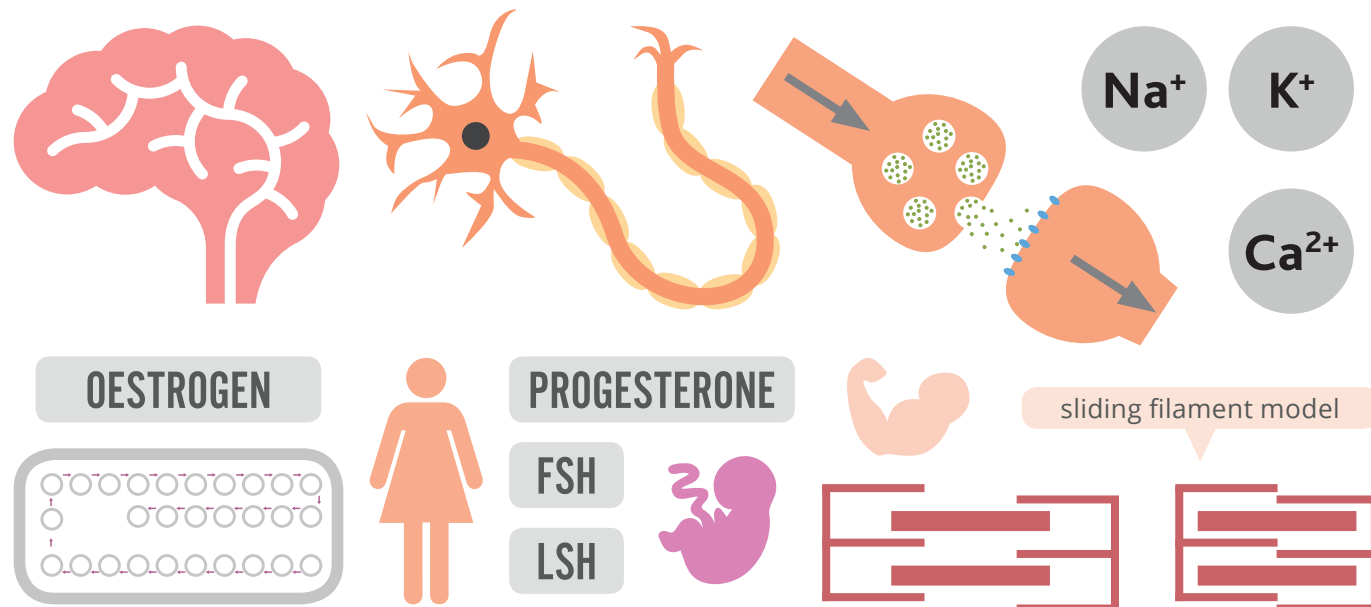


# 8 Molecular biology and gene technology



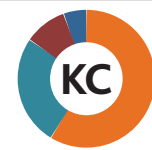




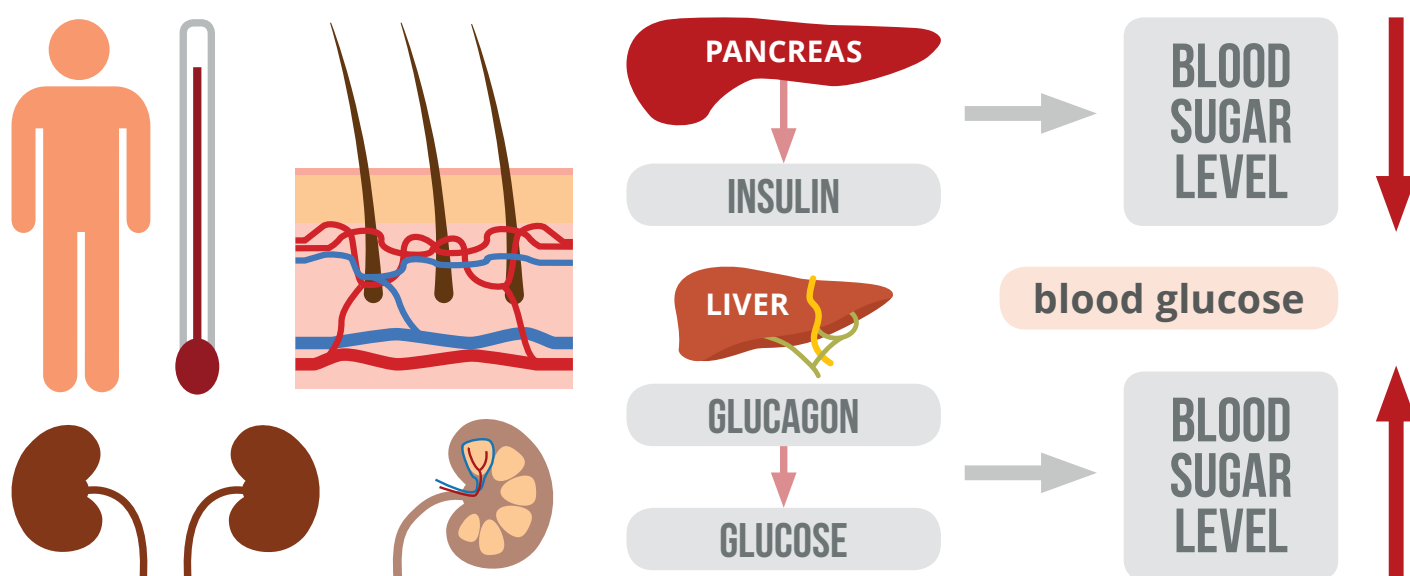


15.1

Control and coordination in mammals



Hormones



14.1

Homeostasis in mammals



# 11 Plant physiology and biochemistry

