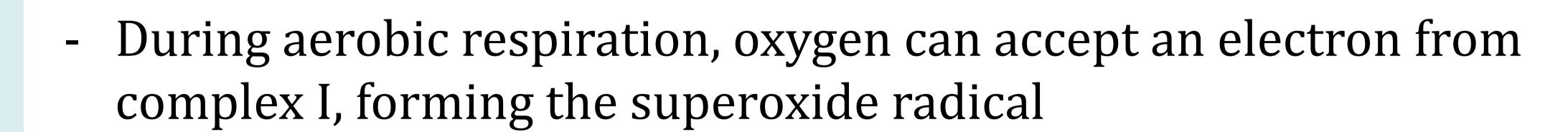
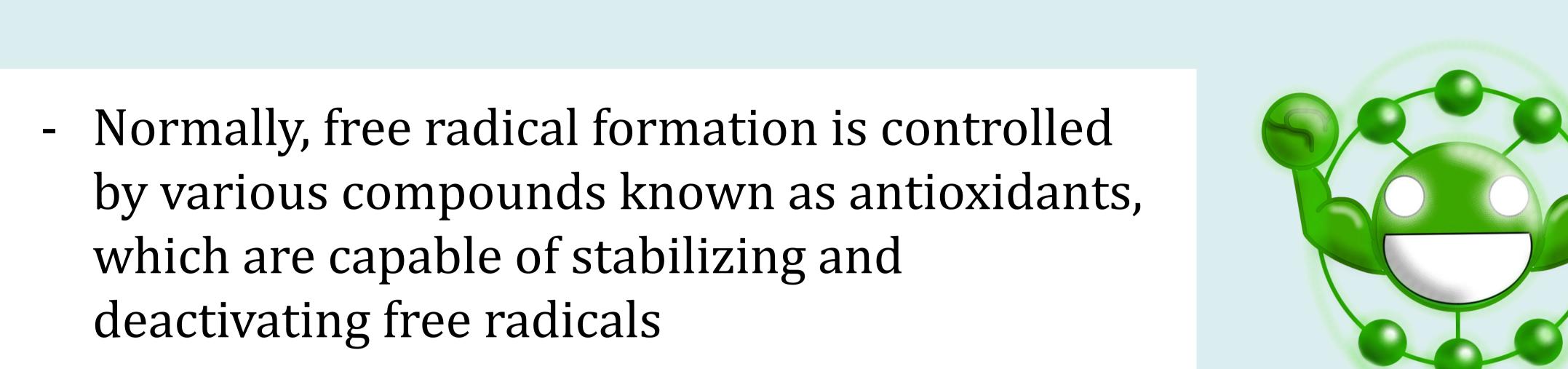


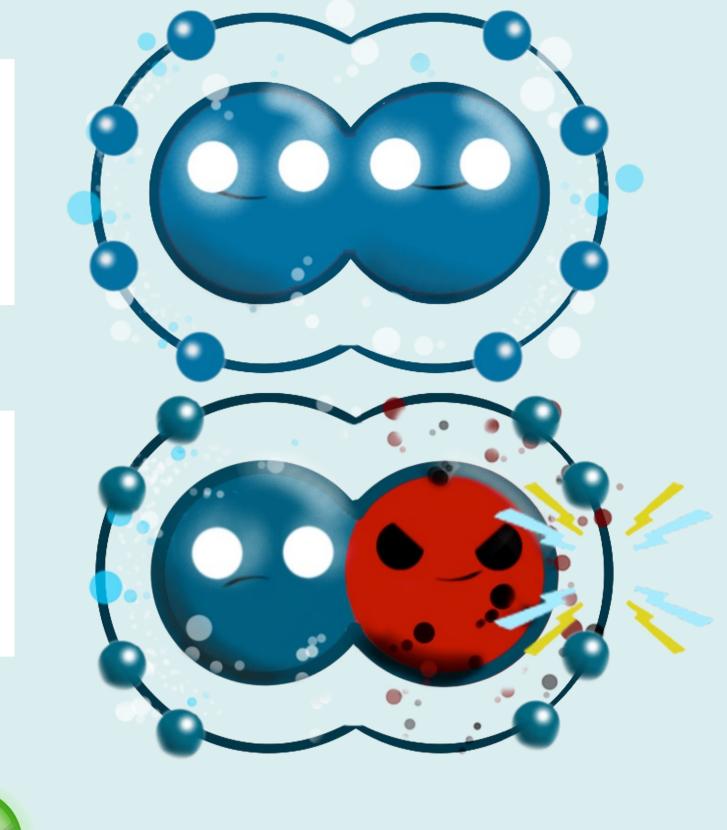


The battle for the mitochondrion!

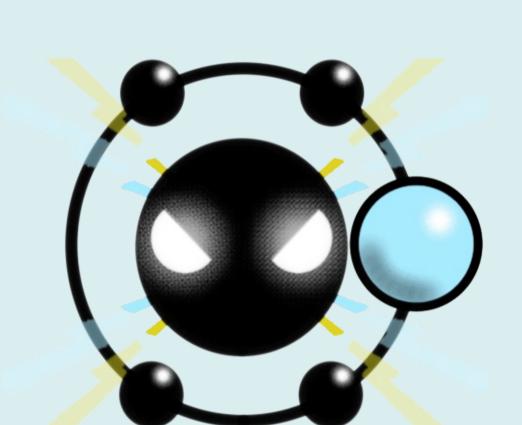
- Oxygen is vital for aerobic respiration, the process that converts dietary fat and sugar into the cellular fuel ATP!



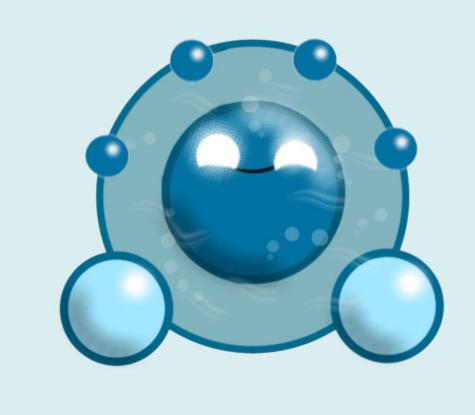




- The superoxide and hydroxyl radicals are unstable, and can react with and damage proteins, lipids and DNA
- Accumulation of cellular damage may lead to a wide range of human diseases and can even contribute to ageing!
- Cells have an enzyme called superoxide dismutase that converts superoxide into hydrogen peroxide
- When hydrogen peroxide comes into contact with iron ions or ultraviolet light, it can split into hydroxyl radicals, which are the most damaging of all the radicals



- Other cellular enzymes, such as catalase and glutathione peroxidase, convert hydrogen peroxide into harmless water



- Two of the most common antioxidants are vitamins C and E
- Both protect your cells from the damage caused by free radicals!

Vitamin C

Vitamin E

