

## Types of respiration

All living cells **respire** to release energy. Organisms need energy for everything they do (for example, making new substances, moving).

**Aerobic respiration** is a **chemical reaction** that can be summarised as:



Energy is released (but is not a chemical substance and so is not shown in the word equation).

Carbon dioxide can be detected using:

- **limewater** (which it turns cloudy)

*Aerobic respiration happens in every cell all the time.*

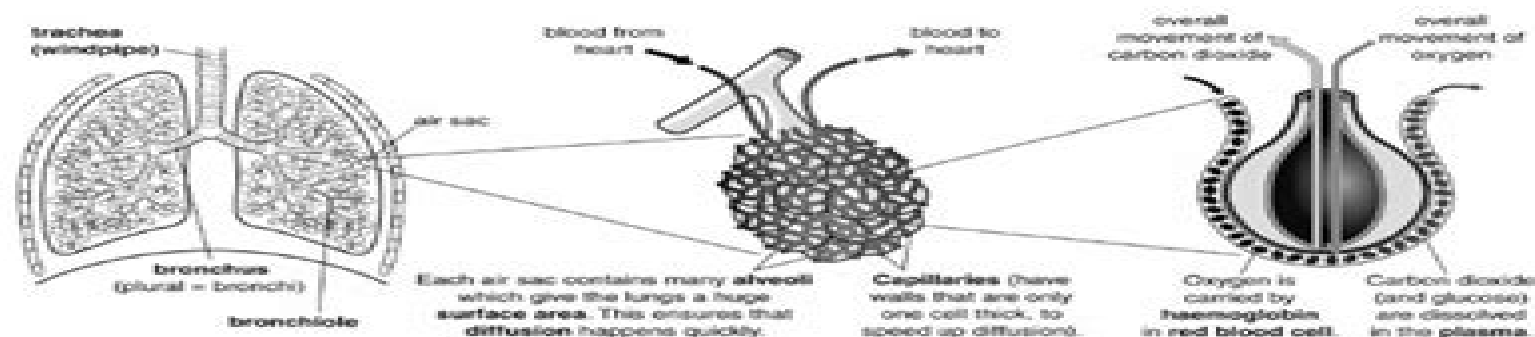
**Anaerobic respiration** does not require oxygen. In humans it is used to release energy from glucose when more energy is needed than can be supplied by aerobic respiration (for example, during strenuous exercise).



Anaerobic respiration causes muscles to tire quickly and so cannot be used for extended periods. Anaerobic respiration releases **less energy** than aerobic respiration, but it happens **more quickly**.

## Gas exchange

Different organisms use different organs for **gas exchange** (swapping one gas for another). In humans, we use our **lungs** to exchange **oxygen** and **carbon dioxide**.



# Respiration Summary Grade 1 novembr

**M Walker**



## **Respiration Summary Grade 11 November:**

**Buffalo Sanitary Bulletin** Buffalo (N.Y.). Department of Health, 1921      The Vaccine Joe Miller, Özlem Türeci, Ugur Sahin, 2022-02-01

Winners of the Paul Ehrlich Prize The dramatic story of the married scientists who founded BioNTech and developed the first vaccine against COVID 19 Nobody thought it was possible In mid January 2020 Ugur Sahin told Özlem Türeci his wife and decades long research partner that a vaccine against what would soon be known as COVID 19 could be developed and safely injected into the arms of millions before the end of the year His confidence was built upon almost thirty years of research While working to revolutionize the way that cancerous tumors are treated the couple had explored a volatile and overlooked molecule called messenger RNA they believed it could be harnessed to redirect the immune system's forces against any number of diseases As the founders of BioNTech they faced widespread skepticism from the scientific community at first but by the time SARS-CoV-2 was discovered in Wuhan China BioNTech was prepared to deploy cutting edge technology and create the world's first clinically approved inoculation for the coronavirus The Vaccine draws back the curtain on one of the most important medical breakthroughs of our age it will reveal how Doctors Sahin and Türeci were able to develop twenty vaccine candidates within weeks convince Big Pharma to support their ambitious project navigate political interference from the Trump administration and the European Union and provide more than three billion doses of the Pfizer BioNTech vaccine to countries around the world in record time Written by Joe Miller the Financial Times Frankfurt correspondent who covered BioNTech's COVID 19 project in real time with contributions from Sahin and Türeci as well as interviews with more than sixty scientists politicians public health officials and BioNTech staff the book covers key events throughout the extraordinary year as well as exploring the scientific economic and personal background of each medical innovation Crafted to be both completely accessible to the average reader and filled with details that will fascinate seasoned microbiologists The Vaccine explains the science behind the breakthrough at a time when public confidence in vaccine safety and efficacy is crucial to bringing an end to this pandemic

**Current Mortality Analysis**, 1943      **Scientific and Technical Aerospace Reports**, 1968

Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database

Buffalo Sanitary Bulletin Buffalo (N.Y.). Dept. of Health, 1920      Digest and Decisions of the Employees' Compensation Appeals Board United States. Employees' Compensation Appeals Board, 2006

*Acute Respiratory Distress Syndrome and Mechanical Ventilation* Haibo Qiu, Ling Liu, Claude E. Guérin, Chunbo Chen, 2022-10-18      Special Reports, 1996

Surgery United States. Surgeon-General's Office, 1924      **Extracorporeal Membrane Oxygenation** Marc O. Maybauer, 2022

Extracorporeal Membrane Oxygenation An Interdisciplinary Problem Based Learning Approach provides an overview of the latest techniques management strategies and technology surrounding the clinical use of ECMO ECMO is a miniaturized heart lung machine that can be used to support patients with either acute respiratory and or cardiocirculatory

failure in numerous scenarios and can be a bridge to either heart or lung transplantation This book focuses on educating clinicians about this complex but life saving technology **Environmental Health Perspectives** ,2004 **The Medical Department of the U.S. Army in the World War** U.S. Surgeon-general's Office,1924 *Monoclonal Antibodies and*

*Immune Checkpoint Inhibitors in the treatment of Cancer* Prakash Radhakrishnan,Cory L. Brooks,Murali M.

Yallapu,2025-01-13 Cancer is a complex disease that can evade the immune system s natural defenses However recent advancements in immunotherapy have revolutionized cancer treatment by using the body s own immune system to fight cancer Monoclonal antibodies mAbs and immune checkpoint inhibitors are two types of immunotherapy that have shown promise in treating various types of cancer Monoclonal antibodies are laboratory produced antibodies that are designed to recognize and target specific proteins on the surface of cancer cells These antibodies can be used alone or in combination with other therapies such as chemotherapy or radiation Monoclonal antibodies work by binding to cancer cells and blocking their ability to grow and divide or by marking them for destruction by the immune system For example trastuzumab Herceptin is a monoclonal antibody that targets HER2 positive breast cancer cells and can be used in combination with chemotherapy to improve survival rates *Roots* Jun J. Abe,2013-04-17 The root is the organ that functions as the interface between the plant and the earth environment Many human management practices involving crops forests and natural vegetation also affect plant growth through the soil and roots Understanding the morphology and function of roots from the cellular level to the level of the whole root system is required for both plant production and environmental protection This book is at the forefront of plant root science rhizology catering to professional plant scientists and graduate students It covers root development stress physiology ecology and associations with microorganisms The chapters are selected papers originally presented at the 6th Symposium of the International Society of Root Research where plant biologists ecologists soil microbiologists crop scientists forestry scientists and environmental scientists among others gathered to discuss current research results and to establish rhizology as a newly integrated research area *The American Review of Respiratory Disease* ,1992-04 Includes Abstracts section previously issued separately *Health and the Environment Miscellaneous* United States. Congress. House. Committee on Energy and Commerce. Subcommittee on Health and the Environment,1984

**National Library of Medicine Current Catalog** National Library of Medicine (U.S.),1969 First multi year cumulation covers six years 1965 70 **Health of the Army** ,1966 *Federal Register* ,1989-08 **Resources in Education** ,1988

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