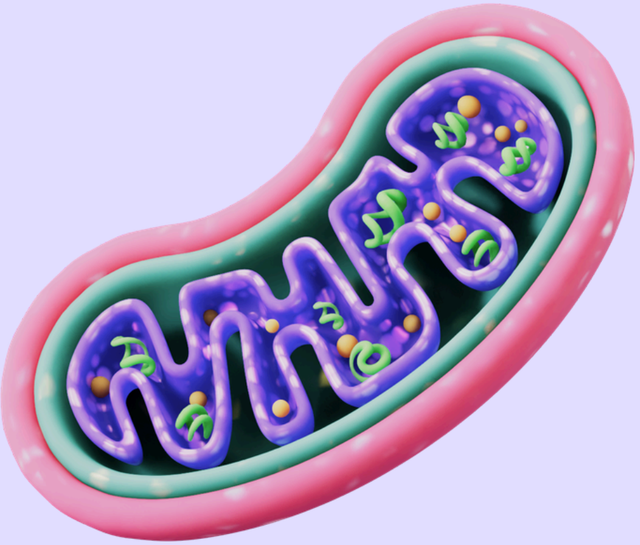
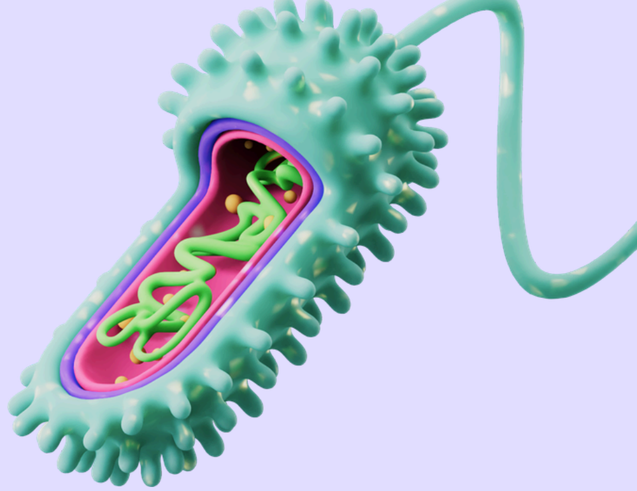
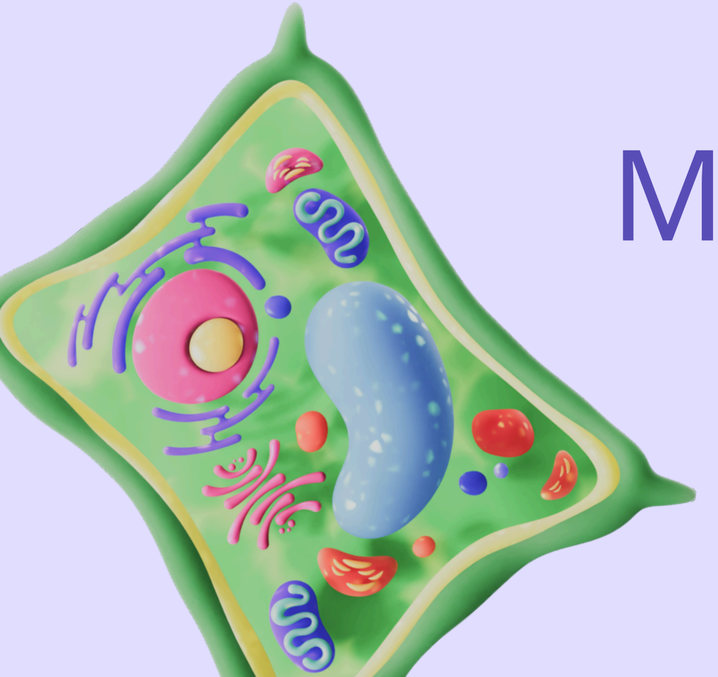
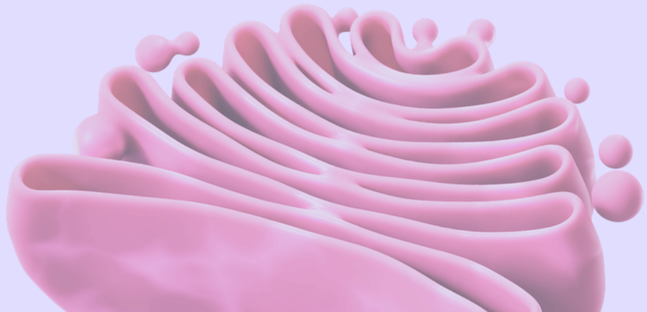


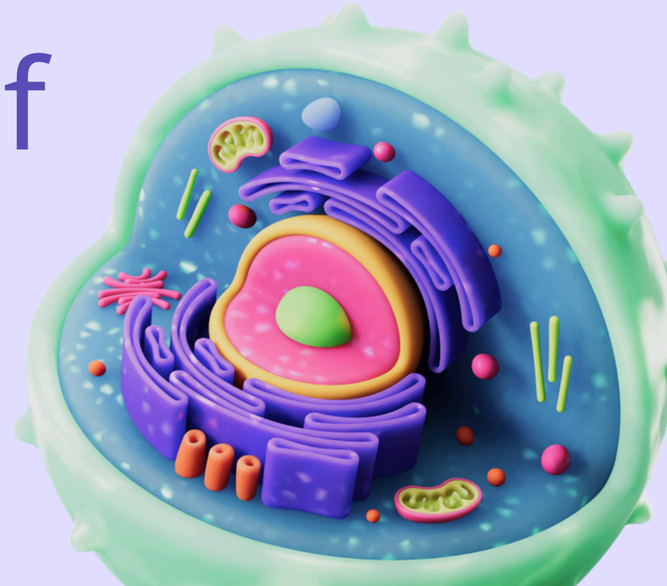
Biology

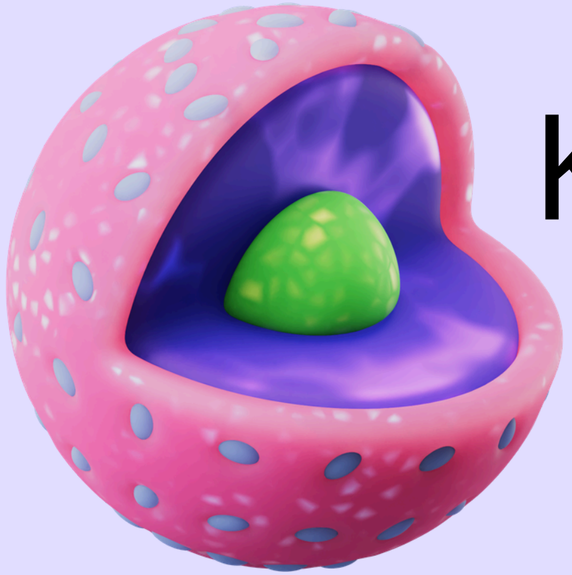


Made by: Salma Sherif









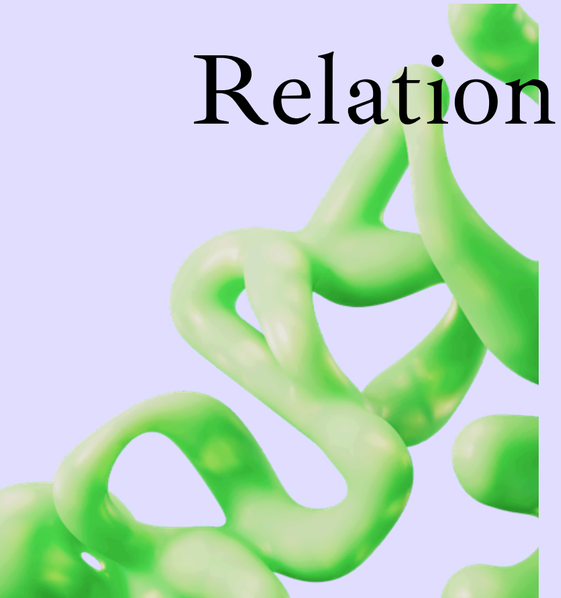
Key Concepts Covered:

Cell Theory Disease

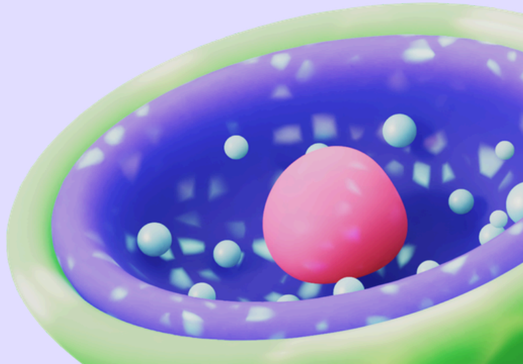


Infectious vs. Non-infectioue factors & Vectors

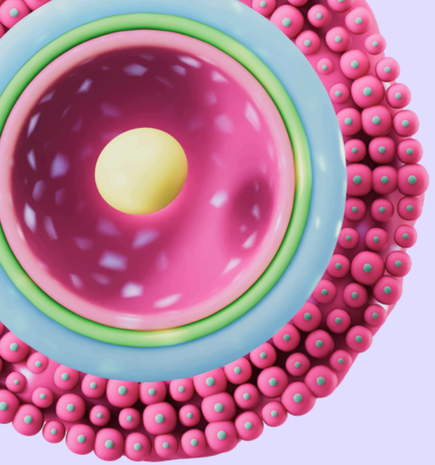
Relation between Disease and Economic development

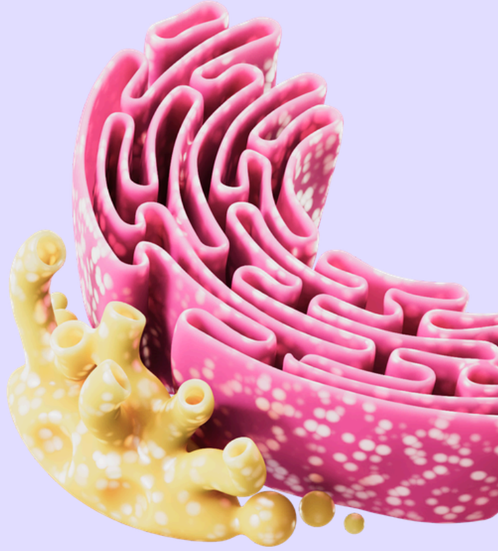


Malaria & Sickle Cell Diseases



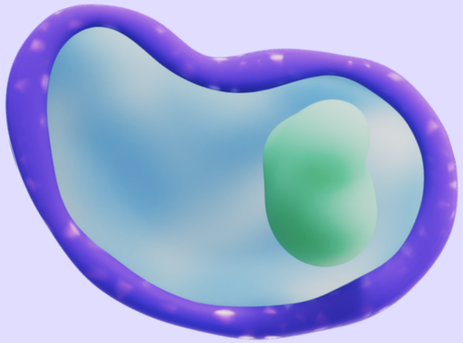
Cell Theory Disease

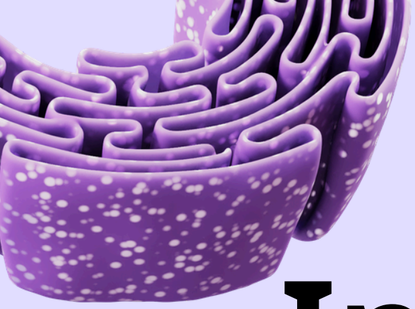


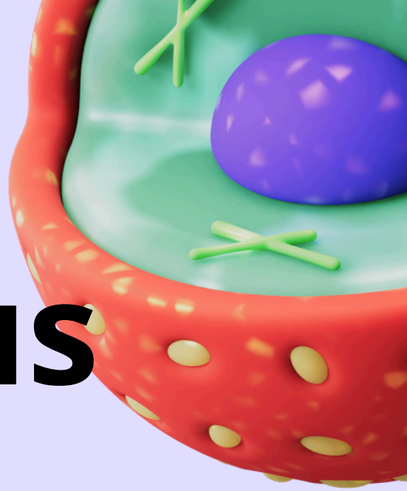


How cellular malfunctions or pathogens disrupt homeostasis and cause disease





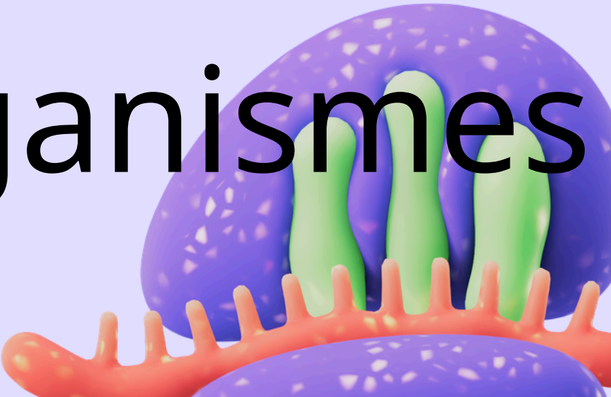




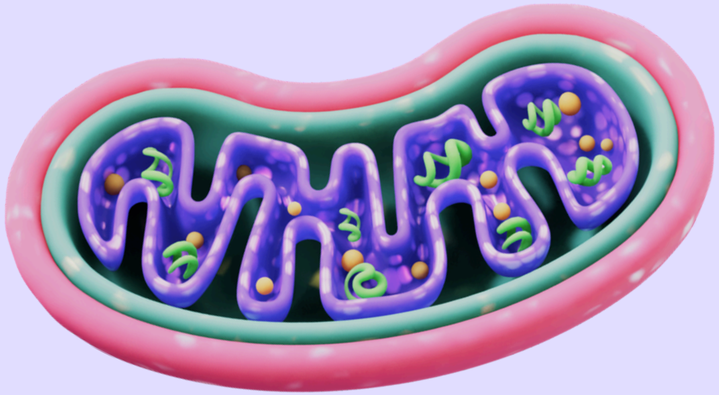
Infectious & Non-Infectious Factors

Infectious Factors: Pathogens like bacteria, viruses, and fungi that can be transmitted between organismes



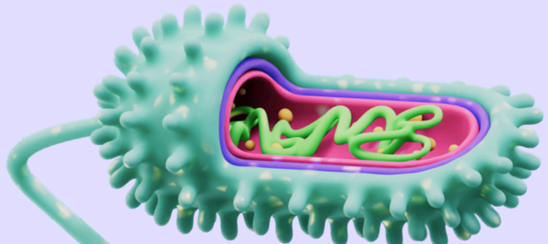


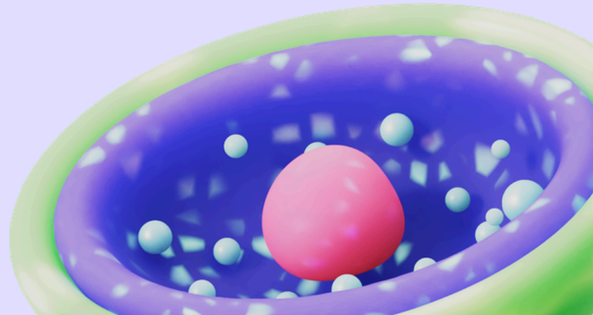
Factors: Genetic disorders, environmental influences, lifestyle choices, and nutritional deficiencies that are not contagious

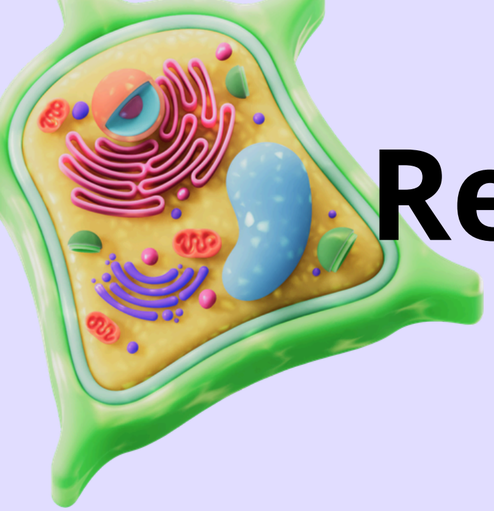


Vectors

Vectors: Living organisms (like mosquitoes) that transmit infectious diseases from one host to another



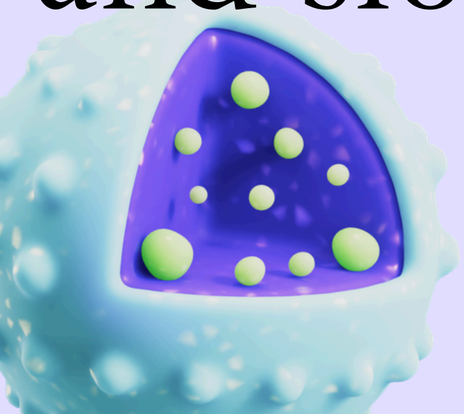






Relation between Disease and Economic development

Diseases decrease workforce productivity, increase healthcare costs, and slow down community development.





Poverty & Disease Cycle:

Poor sanitation and lack of resources increase disease rates, which in turn deepens poverty.

Public Health: Investment in healthcare infrastructure is crucial for sustainable economic growth

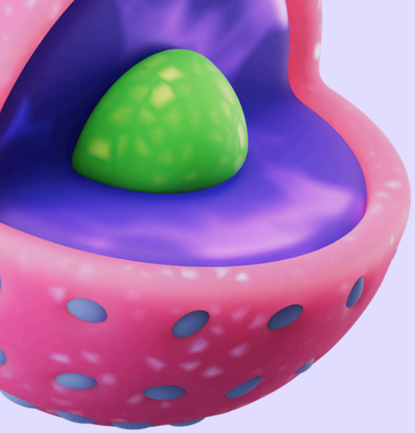
Malaria

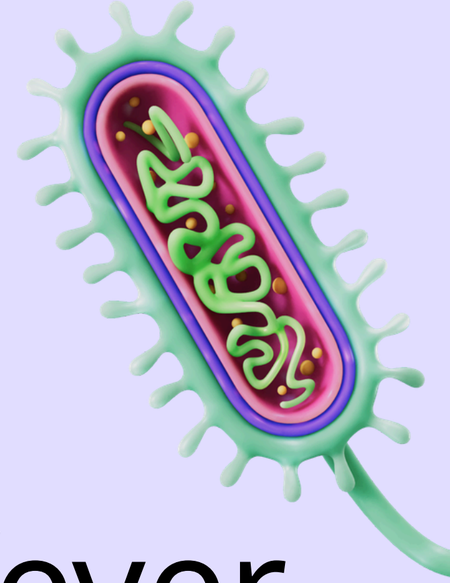
Pathogen: Caused by Plasmodium parasites

Transmission Mechanism: Transmitted through the bites of infected female .Anopheles mosquitoes (Vectors)

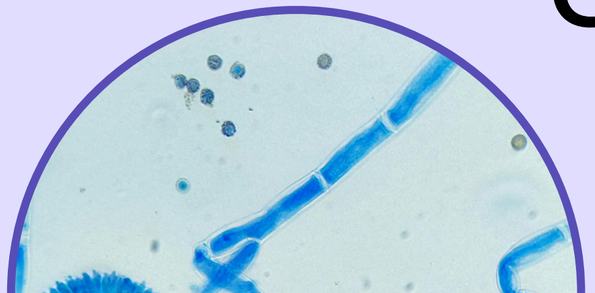
Malaria

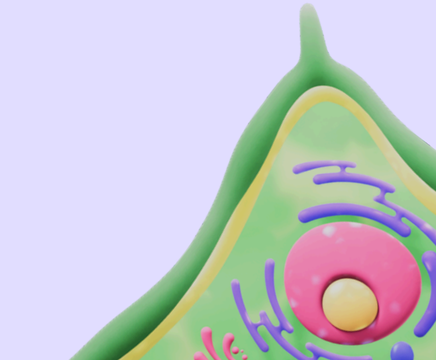
Symptoms & Impact: High fever, chills, anemia; heavily affects tropical regions and developing economies.a

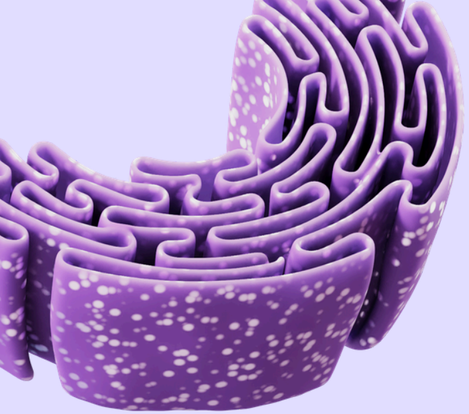




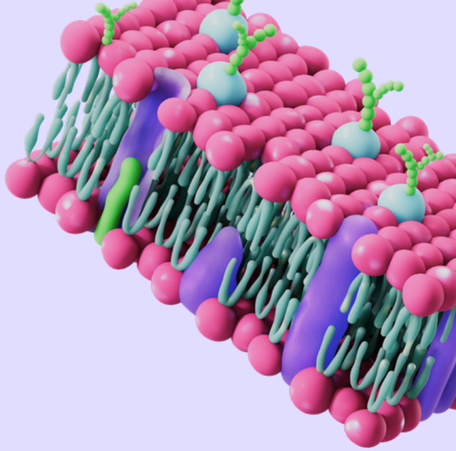






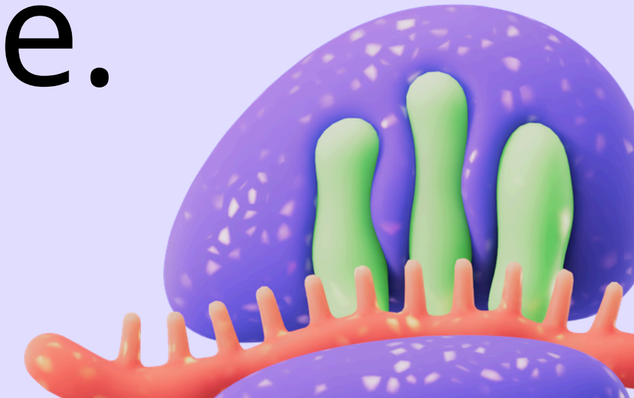


Sickle Cell Diseases

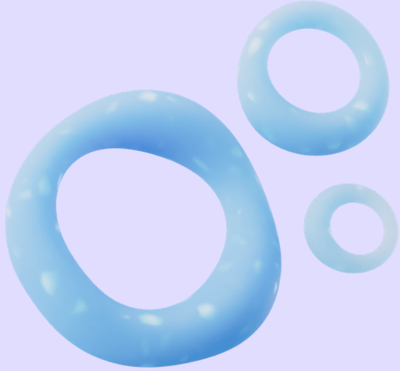


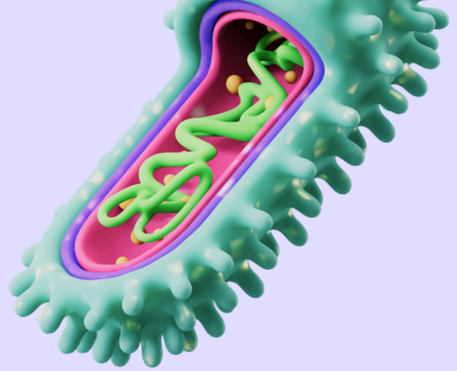
A non-infectious, inherited blood disorder caused by a mutation in the hemoglobin gene.



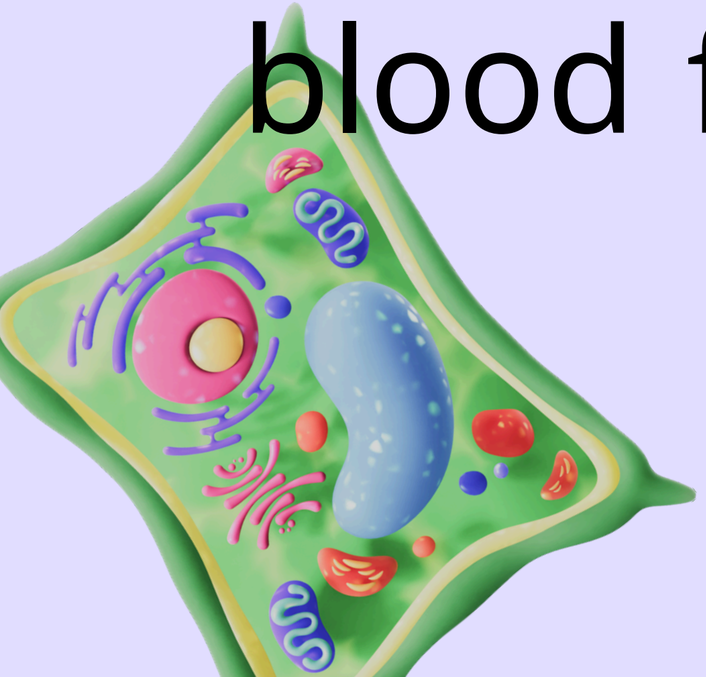


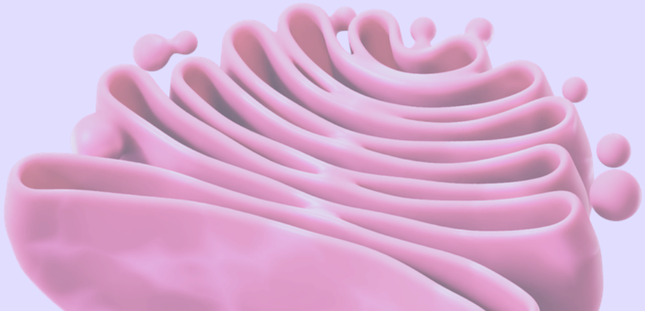






Cellular Effect: Red blood cells take on a rigid, "sickle" shape, blocking blood flow and reducing oxygen delivery.







Thank you