

Cosmic Physiology: The Human Body in Space

Human Body Basics · Answer Key · 2 Questions

1. Prolonged exposure to microgravity significantly alters bone structure. Which specific bone cell type experiences a decrease in activity, leading to bone density loss in astronauts?

A) Osteoblasts

B) Chondrocytes

C) Adipocytes

D) Fibroblasts

2. Astronauts often experience a condition known as Spaceflight-Associated Neuro-ocular Syndrome (SANS), characterized by vision changes. What is thought to be the primary cause of this syndrome in microgravity?

A) Increased atmospheric pressure in spacecraft

B) Cerebrospinal fluid shifts causing elevated intracranial pressure

C) Excessive exposure to solar flares

D) Reduced oxygen levels in orbital habitats