

(A) rough endoplasmic reticulum: protein synthesis and packaging

(B) cytoplasm: metabolic reactions

(C) smooth endoplasmic reticulum: lipid synthesis

(D) nucleolus: ribosome assembly

(E) nucleus: storage and replication of genetic material

(F) mitochondrion: cellular respiration

(G) Golgi apparatus: modification and transport of proteins

(H) ribosome: protein synthesis

(I) cell membrane: maintain a barrier with environment and regulate movement of substances into and out of the cell