
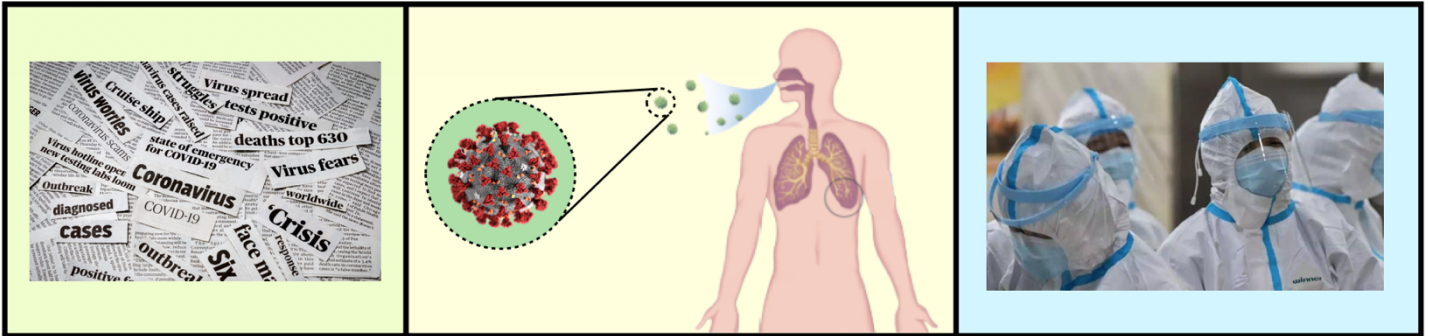


CONCEPT: COVID-19 VIRUS (SARS-CoV-2)

- In _____, Chinese doctors reported cases of severe lung issues caused by a novel *coronavirus* named **COVID-19**.
 - Also named **SARS-CoV-2** because its genome is _____ to the SARS-CoV virus of 2003 outbreak.
 - Shortly after, cases were reported across the _____ & countries required citizens to quarantine at home.
- **COVID-19** is an enveloped _____ RNA virus categorized by *spikes* on its surface having a crown-like appearance.
 - *Corona* means “_____”. 
 - Infects the tissue of lungs in the host organism & can be transmitted via coughing & improper hygiene.
 - Leads to an _____ infection that can cause death or the virus is eliminated *entirely* in up to 14 days.



PRACTICE: COVID-19 is a _____ virus that causes _____ infections.

- a) dsRNA ; Acute. b) ssRNA ; Acute. c) ssDNA ; Latent. d) ssRNA ; Persistent.

PRACTICE: SARS-Cov-2 virus (Covid-19) is a (+) ssRNA virus. Which of the following answers is *true* about SARS-Cov-2?

- a) To replicate the viral genome the replicase enzyme must be transported into the cell within the viral particle.
b) The viral genome can be directly translated by the host cell's ribosomes.
c) The host cell's DNA polymerase is used to replicate the viral genome.
d) The viral genome cannot be directly translated by the host cell's ribosomes and must be modified.

PRACTICE: SARS-Cov-2 virus (Covid-19) is an enveloped virus. Enveloped viruses are easier to deactivate because soaps and disinfectants easily damage the viral envelope. Why does damaging the viral envelope make SARS-Cov-2 not infectious?

- a) SARS-Cov-2 cannot attach to the host cell without its viral envelope.
b) SARS-Cov-2 cannot replicate its genome without its viral envelope.
c) SARS-Cov-2 cannot synthesize viral proteins without its viral envelope.
d) SARS-Cov-2 cannot assemble inside the host cell without its viral envelope.