



Exploring Transmission, Pathogenicity related Mechanisms, Biomolecular study and Worldwide Societal Impact of Covid-19.

Introduction.

Coronaviruses are positive-sense, single-stranded RNA viruses infecting humans and animals for over five decades.

Genomic evidence links SARS-CoV-2 closely to SARS-CoV and bat coronaviruses, though its exact origin and pathogenic pathways remain incompletely understood.

The pandemic is driven by complex interactions between viral biology and factors such as urbanization, population growth, and increased human–animal contact, necessitating an integrated scientific perspective.

This work is a **scholarly scientific monograph** on COVID-19, focusing on ***transmission, pathogenic mechanisms, biomolecular characteristics, and global societal impact.***

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