

## *In Silico analysis of Phytochemicals: A substantial antiviral approach of Herbal medicines on SARS-CoV-2*

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### *Abstract*

The Severe Acute Respiratory Syndrome Corona virus 2 (SARS-CoV-2, formerly known as 2019-nCoV, the causative pathogen of Corona virus Disease 2019 (COVID-19) is a major source of disaster in the 21st century. In the second meeting of the Emergency Committee, the World Health Organization (WHO) declared that COVID-19 is a “public-health emergency of international concern” On 30 January 2020. Corona virus transmitted via airborne droplets from human to human or human to animal. Through membrane ACE-2 exopeptidase receptor corona virus enters in human cell. For the treatment of this sudden and lethal disease during COVID-19 there are no specific anti-virus drugs or vaccines. Still, the development of these medicines will take months, even years. Currently there is need of supportive care and non-specific treatment to improve the symptoms of COVID-19 infected patient. For this specific indication, rapid performance of Herbal medicine or Phytochemicals can contribute as an alternative measure. Phytochemicals are a powerful group of chemicals that are derived from plants origin hence causing fewer side effects because of less use of additives, preservatives or excipients. Hence, this review will focus on some Phytochemicals which may control and prevent SARS-CoV-2. Further, the existing healing options, drugs accessible, ongoing trials and current diagnostics to treat SARS-CoV-2 have been discussed. We suggested phytochemicals extracted from herbal plants are potential novel therapeutic approaches, completely targeting SARS-CoV-2 and its pathways.

### *Biography:*

Mr. Utkalendu Suvendusekhar Samantaray has been completed his master's in biotechnology from MITS School of biotechnology affiliated under Utkal university. He has worked on many research papers including biochemistry, anti-oxidant development, phytochemical extractions, Silver Nanoparticles from Plant sample, ACE Inhibitory activity, etc.



[2nd International Pediatrics, Infectious Diseases and Healthcare Conference, October 26-27, 2020 Webinar](#)

### Abstract Citation:

Mr. Utkalendu Suvendusekhar Samantaray, Overt Upper GI Bleed in An Immunocompetent 1 Year Old, Case Report, Pediatrics Conference 2020, 2nd International Pediatrics, Infectious Diseases and Healthcare Conference; Webinar, October 26-27, 2020 (<https://pediatrics.infectiousconferences.com/>)