



COVID-19: impact by and on the environment, health and economy

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Call for manuscripts

COVID-19 is now recognized as the one of the most tempting challenges and largest tragedy of the century after the Second World War (Gautam 2020a). A novel respiratory disease has been reported in late December 2019 in Wuhan a city of the Hubei Province of China, and its now underlined by WHO (World Health Organization) as coronavirus disease-2019 (COVID-19) (WHO 2020; Gautam and Hens 2020). The classification of novel coronavirus (i.e., large in number, single-stranded ribonucleic acid virus of the subfamily *Orthocoronavirinae*, family *Coronaviridae* order *Nidovirales*), which is now separated in alpha, beta, delta and gamma alpha and beta coronavirus among these four, are associated with human health issues (Peters et al. 2020). During human history, a number of outbreaks of viral epidemic diseases have been reported (Gautam and Trivedi 2020). On June 1, 2020, there were worldwide 372,035 deaths, and 6,166,946 confirmed cases of Coronavirus infections (<https://aajtak.intoday.in/>). Many countries reported developing antiviral drugs or vaccines to control COVID-19; however, a single clinically approved treatment could not be found. On the other hand, the entire world population currently faces enormous challenges (i.e., social, environmental, health, and economic) due to impact of COVID-19 (Gautam 2020b). In this regard, the affected countries are now trying to slow down of the transmission of the virus by self-distancing, strategies of lockdowns, increasing the number of testing and treatment and restricting large gatherings.

Until now most attention in the literature was paid to the medical aspects of the pandemic. As in many countries the (first) peak of the infections and the hospital admissions is over, the attention moves towards the social, economic and sustainability impacts. They contribute to an in depth assessment of how the epidemic was dealt with, and the lessons learned for the future.

In this context, Environmental Development and Sustainability is now open to research contributions on the reported challenges (i.e., social, environmental, health, and economic) due to COVID-19. The special issue which is planned is less targeted to the medical/

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virology aspects of the pandemic but merely to original research results of the economic (how to restore economies after the lockdowns), social (the uneven spread of the infections over social groups—poverty) and the environmental (impact of air pollution and meteorological characteristics on the infections caused the virus) aspects. It is imperative analyzing the consequences of this sustainability analysis, both at the short and the long term. The purpose of this issue is to call for scientific original papers on the role that the environment could play in transmission, pathogenesis, and severity of COVID-19 and/or its related mortality. Moreover, the aim is to also reviewing the interaction between this pandemic and sustainability and planetary health, including climate change, biodiversity, and urban built environment. Reviews on the lessons of the current pandemic for long-term sustainability, urban built environment, and planetary health are also invited.

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